



# BARGE "EMS 388"

## ULLAGE TRIM TABLE

	1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.	
	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>
1 PORT	00-1/4	- 00-1/4	00-1/2	- 00-1/2	00-3/4	- 00-3/4	01-0/8	- 01-0/8	01-1/4	- 01-1/4	01-1/2	- 01-1/2
1 STBD	00-1/4	- 00-1/4	00-1/2	- 00-1/2	00-3/4	- 00-3/4	01-0/8	- 01-0/8	01-1/4	- 01-1/4	01-1/2	- 01-1/2
2 PORT	00-1/4	- 00-1/4	00-1/2	- 00-1/2	00-3/4	- 00-3/4	00-7/8	- 00-7/8	01-1/8	- 01-1/8	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	00-7/8	- 00-7/8	01-1/8	- 01-1/8	01-1/2	- 01-1/2
3 PORT	00-1/8	- 00-1/8	00-1/4	- 00-1/4	00-1/4	- 00-1/4	00-3/8	- 00-3/8	00-1/2	- 00-1/2	00-1/2	- 00-1/2
3 STBD	00-1/8	- 00-1/8	00-1/4	- 00-1/4	00-1/4	- 00-1/4	00-3/8	- 00-3/8	00-1/2	- 00-1/2	00-1/2	- 00-1/2

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

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

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

LENGTH BETWEEN DRAFT MARKS: 236'-00"

January 17, 2014

PRECISION MEASUREMENT  
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 P.O. Box 2092  
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# BARGE "EMS 388"

## 1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-04 1/2"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.		
0		0		0		0	4,233.26	0	3,941.59	0	3,629.65	0	3,300.55	0	2,969.04	0	2,637.52	0	2,305.96		
1/4		1/4		1/4		1/4	4,226.90	1/4	3,935.29	1/4	3,622.95	1/4	3,293.64	1/4	2,962.14	1/4	2,630.61	1/4	2,299.05		
1/2		1/2		1/2		1/2	4,220.54	1/2	3,929.00	1/2	3,616.25	1/2	3,286.73	1/2	2,955.23	1/2	2,623.70	1/2	2,292.15		
3/4		3/4		3/4		3/4	4,214.66	3/4	3,922.67	3/4	3,609.51	3/4	3,279.83	3/4	2,948.32	3/4	2,616.79	3/4	2,285.24		
1		1		1		1	4,208.79	1	3,916.35	1	3,602.77	1	3,272.92	1	2,941.42	1	2,609.89	1	2,278.33		
1/4		1/4		1/4		1/4	4,202.91	1/4	3,910.02	1/4	3,596.03	1/4	3,266.01	1/4	2,934.51	1/4	2,602.98	1/4	2,271.42		
1/2		1/2		1/2		1/2	4,197.04	1/2	3,903.69	1/2	3,589.29	1/2	3,259.11	1/2	2,927.61	1/2	2,596.07	1/2	2,264.52		
3/4		3/4		3/4		3/4	4,191.13	3/4	3,897.33	3/4	3,582.52	3/4	3,252.20	3/4	2,920.70	3/4	2,589.16	3/4	2,257.61		
2		2		2		2	4,185.22	2	3,890.97	2	3,575.74	2	3,245.30	2	2,913.79	2	2,582.26	2	2,250.70		
1/4		1/4		1/4		1/4	4,179.31	1/4	3,884.61	1/4	3,568.97	1/4	3,238.39	1/4	2,906.89	1/4	2,575.35	1/4	2,243.79		
1/2		1/2		1/2		1/2	4,173.40	1/2	3,878.25	1/2	3,562.20	1/2	3,231.48	1/2	2,899.98	1/2	2,568.44	1/2	2,236.89		
3/4		3/4		3/4		3/4	4,167.46	3/4	3,871.85	3/4	3,555.39	3/4	3,224.58	3/4	2,893.07	3/4	2,561.54	3/4	2,229.98		
3		3		3		3	4,161.51	3	3,865.46	3	3,548.58	3	3,217.67	3	2,886.17	3	2,554.63	3	2,223.07		
1/4		1/4		1/4		1/4	4,155.57	1/4	3,859.06	1/4	3,541.77	1/4	3,210.76	1/4	2,879.26	1/4	2,547.72	1/4	2,216.17		
1/2		1/2		1/2		1/2	4,149.63	1/2	3,852.67	1/2	3,534.97	1/2	3,203.86	1/2	2,872.36	1/2	2,540.81	1/2	2,209.26		
3/4		3/4		3/4		3/4	4,143.65	3/4	3,846.24	3/4	3,528.12	3/4	3,196.95	3/4	2,865.45	3/4	2,533.91	3/4	2,202.35		
4		4		4		4	4,137.67	4	3,839.81	4	3,521.28	4	3,190.04	4	2,858.54	4	2,527.00	4	2,195.44		
1/4		1/4		1/4		1/4	4,131.69	1/4	3,833.38	1/4	3,514.44	1/4	3,183.14	1/4	2,851.64	1/4	2,520.09	1/4	2,188.54		
1/2		1/2		1/2		1/2	4,125.72	1/2	3,826.95	1/2	3,507.60	1/2	3,176.23	1/2	2,844.73	1/2	2,513.18	1/2	2,181.63		
3/4		3/4		3/4		3/4	4,119.70	3/4	3,820.48	3/4	3,500.72	3/4	3,169.33	3/4	2,837.82	3/4	2,506.28	3/4	2,174.72		
5		5		5		5	4,113.69	5	3,814.02	5	3,493.84	5	3,162.42	5	2,830.92	5	2,499.37	5	2,167.81		
1/4		1/4		1/4		1/4	4,107.68	1/4	3,807.55	1/4	3,486.97	1/4	3,155.51	1/4	2,824.01	1/4	2,492.46	1/4	2,160.91		
1/2		1/2		1/2		1/2	4,101.67	1/2	3,801.09	1/2	3,480.09	1/2	3,148.61	1/2	2,817.10	1/2	2,485.55	1/2	2,154.00		
3/4		3/4		3/4		3/4	4,095.62	3/4	3,794.59	3/4	3,473.19	3/4	3,141.70	3/4	2,810.20	3/4	2,478.65	3/4	2,147.09		
6		6		6		6	4,089.57	6	3,788.09	6	3,466.29	6	3,134.79	6	2,803.29	6	2,471.74	6	2,140.18		
1/4		1/4		1/4		1/4	4,083.53	1/4	3,781.59	1/4	3,459.39	1/4	3,127.89	1/4	2,796.39	1/4	2,464.83	1/4	2,133.28		
1/2		1/2		1/2		1/2	4,077.48	1/2	3,775.10	1/2	3,452.48	1/2	3,120.98	1/2	2,789.48	1/2	2,457.92	1/2	2,126.37		
3/4		3/4		3/4	4-Mar	3/4	4,071.40	3/4	3,768.56	3/4	3,445.58	3/4	3,114.08	3/4	2,782.57	3/4	2,451.02	3/4	2,119.46		
7		7		7		7	4,362.56	7	4,065.32	7	3,762.03	7	3,438.67	7	3,107.17	7	2,775.66	7	2,444.11	7	2,112.55
1/4		1/4		1/4		1/4	4,357.65	1/4	4,059.24	1/4	3,755.50	1/4	3,431.77	1/4	3,100.26	1/4	2,768.76	1/4	2,437.20	1/4	2,105.65
1/2		1/2		1/2		1/2	4,352.74	1/2	4,053.16	1/2	3,748.96	1/2	3,424.86	1/2	3,093.36	1/2	2,761.85	1/2	2,430.29	1/2	2,098.74
3/4		3/4		3/4		3/4	4,346.58	3/4	4,047.04	3/4	3,742.40	3/4	3,417.95	3/4	3,086.45	3/4	2,754.94	3/4	2,423.39	3/4	2,091.83
8		8		8		8	4,340.41	8	4,040.93	8	3,735.83	8	3,411.05	8	3,079.54	8	2,748.04	8	2,416.48	8	2,084.92
1/4		1/4		1/4		1/4	4,334.25	1/4	4,034.81	1/4	3,729.26	1/4	3,404.14	1/4	3,072.64	1/4	2,741.13	1/4	2,409.57	1/4	2,078.02
1/2		1/2		1/2		1/2	4,328.09	1/2	4,028.70	1/2	3,722.70	1/2	3,397.23	1/2	3,065.73	1/2	2,734.22	1/2	2,402.67	1/2	2,071.11
3/4		3/4		3/4		3/4	4,321.29	3/4	4,022.55	3/4	3,716.09	3/4	3,390.33	3/4	3,058.83	3/4	2,727.31	3/4	2,395.76	3/4	2,064.20
9		9		9		9	4,314.50	9	4,016.40	9	3,709.49	9	3,383.42	9	3,051.92	9	2,720.41	9	2,388.85	9	2,057.30
1/4		1/4		1/4		1/4	4,307.71	1/4	4,010.25	1/4	3,702.89	1/4	3,376.52	1/4	3,045.01	1/4	2,713.50	1/4	2,381.94	1/4	2,050.39
1/2		1/2		1/2		1/2	4,300.92	1/2	4,004.10	1/2	3,696.29	1/2	3,369.61	1/2	3,038.11	1/2	2,706.59	1/2	2,375.04	1/2	2,043.48
3/4		3/4		3/4		3/4	4,294.05	3/4	3,997.88	3/4	3,689.65	3/4	3,362.70	3/4	3,031.20	3/4	2,699.68	3/4	2,368.13	3/4	2,036.57
10		10		10		10	4,287.18	10	3,991.65	10	3,683.02	10	3,355.80	10	3,024.29	10	2,692.78	10	2,361.22	10	2,029.67
1/4		1/4		1/4		1/4	4,280.32	1/4	3,985.43	1/4	3,676.38	1/4	3,348.89	1/4	3,017.39	1/4	2,685.87	1/4	2,354.31	1/4	2,022.76
1/2		1/2		1/2		1/2	4,273.45	1/2	3,979.20	1/2	3,669.75	1/2	3,341.98	1/2	3,010.48	1/2	2,678.96	1/2	2,347.41	1/2	2,015.85
3/4		3/4		3/4		3/4	4,266.58	3/4	3,972.95	3/4	3,663.07	3/4	3,335.08	3/4	3,003.57	3/4	2,672.05	3/4	2,340.50	3/4	2,008.94
11		11		11		11	4,259.72	11	3,966.69	11	3,656.40	11	3,328.17	11	2,996.67	11	2,665.15	11	2,333.59	11	2,002.04
1/4		1/4		1/4		1/4	4,252.85	1/4	3,960.43	1/4	3,649.73	1/4	3,321.26	1/4	2,989.76	1/4	2,658.24	1/4	2,326.68	1/4	1,995.13
1/2		1/2		1/2		1/2	4,245.98	1/2	3,954.17	1/2	3,643.06	1/2	3,314.36	1/2	2,982.86	1/2	2,651.33	1/2	2,319.78	1/2	1,988.22
3/4		3/4		3/4		3/4	4,239.62	3/4	3,947.88	3/4	3,636.36	3/4	3,307.45	3/4	2,975.95	3/4	2,644.42	3/4	2,312.87	3/4	1,981.31

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 44'-09" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT  
& ANALYSIS, INC.

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# BARGE "EMS 388"

## 1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-04 1/2"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	1,974.41	0	1,642.85	0	1,311.30	0	980.00	0	664.97	0	371.82	0	102.30	0		0			
1/4	1,967.50	1/4	1,635.94	1/4	1,304.39	1/4	973.17	1/4	658.62	1/4	365.96	1/4	96.93	1/4		1/4			
1/2	1,960.59	1/2	1,629.04	1/2	1,297.48	1/2	966.35	1/2	652.26	1/2	360.10	1/2	91.56	1/2		1/2			
3/4	1,953.68	3/4	1,622.13	3/4	1,290.57	3/4	959.57	3/4	645.95	3/4	354.28	3/4	86.24	3/4		3/4			
1	1,946.78	1	1,615.22	1	1,283.67	1	952.79	1	639.64	1	348.46	1	80.91	1		1			
1/4	1,939.87	1/4	1,608.31	1/4	1,276.76	1/4	946.01	1/4	633.33	1/4	342.64	1/4	75.58	1/4		1/4			
1/2	1,932.96	1/2	1,601.41	1/2	1,269.85	1/2	939.23	1/2	627.01	1/2	336.82	1/2	70.25	1/2		1/2			
3/4	1,926.05	3/4	1,594.50	3/4	1,262.94	3/4	932.51	3/4	620.74	3/4	331.04	3/4	64.97	3/4		3/4			
2	1,919.15	2	1,587.59	2	1,256.04	2	925.79	2	614.47	2	325.26	2	59.68	2		2			
1/4	1,912.24	1/4	1,580.68	1/4	1,249.13	1/4	919.07	1/4	608.20	1/4	319.48	1/4	54.39	1/4		1/4			
1/2	1,905.33	1/2	1,573.78	1/2	1,242.22	1/2	912.35	1/2	601.93	1/2	313.70	1/2	49.11	1/2		1/2			
3/4	1,898.42	3/4	1,566.87	3/4	1,235.31	3/4	905.66	3/4	595.70	3/4	307.97	3/4	44.11	3/4		3/4			
3	1,891.52	3	1,559.96	3	1,228.41	3	898.98	3	589.47	3	302.23	3	39.11	3		3			
1/4	1,884.61	1/4	1,553.05	1/4	1,221.50	1/4	892.30	1/4	583.24	1/4	296.49	1/4	34.11	1/4		1/4			
1/2	1,877.70	1/2	1,546.15	1/2	1,214.59	1/2	885.62	1/2	577.01	1/2	290.75	1/2	29.11	1/2		1/2			
3/4	1,870.80	3/4	1,539.24	3/4	1,207.68	3/4	878.98	3/4	570.82	3/4	285.05	3/4	25.88	3/4		3/4			
4	1,863.89	4	1,532.33	4	1,200.78	4	872.34	4	564.63	4	279.36	4	22.65	4		4			
1/4	1,856.98	1/4	1,525.43	1/4	1,193.87	1/4	865.70	1/4	558.44	1/4	273.66	1/4	19.42	1/4		1/4			
1/2	1,850.07	1/2	1,518.52	1/2	1,186.96	1/2	859.06	1/2	552.25	1/2	267.96	1/2	16.18	1/2		1/2			
3/4	1,843.17	3/4	1,511.61	3/4	1,180.06	3/4	852.47	3/4	546.10	3/4	262.31	3/4		3/4		3/4			
5	1,836.26	5	1,504.70	5	1,173.15	5	845.87	5	539.95	5	256.65	5		5		5			
1/4	1,829.35	1/4	1,497.80	1/4	1,166.24	1/4	839.28	1/4	533.81	1/4	250.99	1/4		1/4		1/4			
1/2	1,822.44	1/2	1,490.89	1/2	1,159.33	1/2	832.69	1/2	527.66	1/2	245.34	1/2		1/2		1/2			
3/4	1,815.54	3/4	1,483.98	3/4	1,152.43	3/4	826.13	3/4	521.55	3/4	239.72	3/4		3/4		3/4			
6	1,808.63	6	1,477.07	6	1,145.52	6	819.58	6	515.44	6	234.11	6		6		6			
1/4	1,801.72	1/4	1,470.17	1/4	1,138.61	1/4	813.03	1/4	509.34	1/4	228.49	1/4		1/4		1/4			
1/2	1,794.81	1/2	1,463.26	1/2	1,131.70	1/2	806.47	1/2	503.23	1/2	222.88	1/2		1/2		1/2			
3/4	1,787.91	3/4	1,456.35	3/4	1,124.80	3/4	799.96	3/4	497.16	3/4	217.30	3/4		3/4		3/4			
7	1,781.00	7	1,449.44	7	1,117.89	7	793.44	7	491.10	7	211.73	7		7		7			
1/4	1,774.09	1/4	1,442.54	1/4	1,110.98	1/4	786.92	1/4	485.03	1/4	206.16	1/4		1/4		1/4			
1/2	1,767.18	1/2	1,435.63	1/2	1,104.07	1/2	780.41	1/2	478.96	1/2	200.58	1/2		1/2		1/2			
3/4	1,760.28	3/4	1,428.72	3/4	1,097.17	3/4	773.93	3/4	472.94	3/4	195.05	3/4		3/4		3/4			
8	1,753.37	8	1,421.81	8	1,090.26	8	767.46	8	466.91	8	189.52	8		8		8			
1/4	1,746.46	1/4	1,414.91	1/4	1,083.35	1/4	760.98	1/4	460.89	1/4	183.98	1/4		1/4		1/4			
1/2	1,739.55	1/2	1,408.00	1/2	1,076.44	1/2	754.51	1/2	454.86	1/2	178.45	1/2		1/2		1/2			
3/4	1,732.65	3/4	1,401.09	3/4	1,069.54	3/4	748.07	3/4	448.88	3/4	172.96	3/4		3/4		3/4			
9	1,725.74	9	1,394.18	9	1,062.63	9	741.64	9	442.89	9	167.47	9		9		9			
1/4	1,718.83	1/4	1,387.28	1/4	1,055.72	1/4	735.20	1/4	436.91	1/4	161.97	1/4		1/4		1/4			
1/2	1,711.93	1/2	1,380.37	1/2	1,048.81	1/2	728.77	1/2	430.93	1/2	156.48	1/2		1/2		1/2			
3/4	1,705.02	3/4	1,373.46	3/4	1,041.91	3/4	722.36	3/4	424.98	3/4	151.03	3/4		3/4		3/4			
10	1,698.11	10	1,366.56	10	1,035.00	10	715.95	10	419.04	10	145.58	10		10		10			
1/4	1,691.20	1/4	1,359.65	1/4	1,028.09	1/4	709.55	1/4	413.10	1/4	140.13	1/4		1/4		1/4			
1/2	1,684.30	1/2	1,352.74	1/2	1,021.19	1/2	703.14	1/2	407.15	1/2	134.68	1/2		1/2		1/2			
3/4	1,677.39	3/4	1,345.83	3/4	1,014.30	3/4	696.77	3/4	401.25	3/4	129.27	3/4		3/4		3/4			
11	1,670.48	11	1,338.93	11	1,007.41	11	690.41	11	395.35	11	123.86	11		11		11			
1/4	1,663.57	1/4	1,332.02	1/4	1,000.52	1/4	684.04	1/4	389.45	1/4	118.45	1/4		1/4		1/4			
1/2	1,656.67	1/2	1,325.11	1/2	993.64	1/2	677.68	1/2	383.54	1/2	113.04	1/2		1/2		1/2			
3/4	1,649.76	3/4	1,318.20	3/4	986.82	3/4	671.32	3/4	377.68	3/4	107.67	3/4		3/4		3/4			

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 01/17/2014 CL  
CALCULATED: 01/18/2014 CL  
PRINTED: 01/19/2014 SW

CANCELS AND SUPERCEDES  
ALL PRIOR TO 01/2014

PRECISION MEASUREMENT  
& ANALYSIS, INC.  
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<http://www.pmacorp.net>



# BARGE "EMS 388"

## 1 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-05 1/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0		0		0	4,254.14	0	3,961.73	0	3,651.04	0	3,322.58	0	2,991.07	0	2,659.55	0	2,327.99
1/4		1/4		1/4		1/4	4,247.28	1/4	3,955.47	1/4	3,644.37	1/4	3,315.68	1/4	2,984.17	1/4	2,652.64	1/4	2,321.09
1/2		1/2		1/2		1/2	4,240.92	1/2	3,949.18	1/2	3,637.67	1/2	3,308.77	1/2	2,977.26	1/2	2,645.73	1/2	2,314.18
3/4		3/4		3/4		3/4	4,234.55	3/4	3,942.89	3/4	3,630.96	3/4	3,301.86	3/4	2,970.36	3/4	2,638.83	3/4	2,307.27
1		1		1		1	4,228.19	1	3,936.60	1	3,624.26	1	3,294.96	1	2,963.45	1	2,631.92	1	2,300.36
1/4		1/4		1/4		1/4	4,221.83	1/4	3,930.31	1/4	3,617.55	1/4	3,288.05	1/4	2,956.54	1/4	2,625.01	1/4	2,293.46
1/2		1/2		1/2		1/2	4,215.96	1/2	3,923.98	1/2	3,610.82	1/2	3,281.14	1/2	2,949.64	1/2	2,618.10	1/2	2,286.55
3/4		3/4		3/4		3/4	4,210.08	3/4	3,917.65	3/4	3,604.08	3/4	3,274.24	3/4	2,942.73	3/4	2,611.20	3/4	2,279.64
2		2		2		2	4,204.21	2	3,911.33	2	3,597.34	2	3,267.33	2	2,935.82	2	2,604.29	2	2,272.73
1/4		1/4		1/4		1/4	4,198.33	1/4	3,905.00	1/4	3,590.60	1/4	3,260.42	1/4	2,928.92	1/4	2,597.38	1/4	2,265.83
1/2		1/2		1/2		1/2	4,192.42	1/2	3,898.64	1/2	3,583.82	1/2	3,253.52	1/2	2,922.01	1/2	2,590.47	1/2	2,258.92
3/4		3/4		3/4		3/4	4,186.51	3/4	3,892.28	3/4	3,577.05	3/4	3,246.61	3/4	2,915.10	3/4	2,583.57	3/4	2,252.01
3		3		3		3	4,180.61	3	3,885.92	3	3,570.28	3	3,239.71	3	2,908.20	3	2,576.66	3	2,245.10
1/4		1/4		1/4		1/4	4,174.70	1/4	3,879.55	1/4	3,563.50	1/4	3,232.80	1/4	2,901.29	1/4	2,569.75	1/4	2,238.20
1/2		1/2		1/2		1/2	4,168.75	1/2	3,873.16	1/2	3,556.70	1/2	3,225.89	1/2	2,894.39	1/2	2,562.84	1/2	2,231.29
3/4		3/4		3/4		3/4	4,162.81	3/4	3,866.76	3/4	3,549.89	3/4	3,218.99	3/4	2,887.48	3/4	2,555.94	3/4	2,224.38
4		4		4		4	4,156.87	4	3,860.37	4	3,543.08	4	3,212.08	4	2,880.57	4	2,549.03	4	2,217.47
1/4		1/4		1/4		1/4	4,150.92	1/4	3,853.97	1/4	3,536.27	1/4	3,205.17	1/4	2,873.67	1/4	2,542.12	1/4	2,210.57
1/2		1/2		1/2		1/2	4,144.95	1/2	3,847.54	1/2	3,529.43	1/2	3,198.27	1/2	2,866.76	1/2	2,535.22	1/2	2,203.66
3/4		3/4		3/4		3/4	4,138.97	3/4	3,841.11	3/4	3,522.59	3/4	3,191.36	3/4	2,859.85	3/4	2,528.31	3/4	2,196.75
5		5		5		5	4,132.99	5	3,834.68	5	3,515.75	5	3,184.45	5	2,852.95	5	2,521.40	5	2,189.85
1/4		1/4		1/4		1/4	4,127.01	1/4	3,828.25	1/4	3,508.91	1/4	3,177.55	1/4	2,846.04	1/4	2,514.49	1/4	2,182.94
1/2		1/2		1/2		1/2	4,121.00	1/2	3,821.79	1/2	3,502.03	1/2	3,170.64	1/2	2,839.13	1/2	2,507.59	1/2	2,176.03
3/4		3/4		3/4		3/4	4,114.99	3/4	3,815.33	3/4	3,495.15	3/4	3,163.73	3/4	2,832.23	3/4	2,500.68	3/4	2,169.12
6		6		6		6	4,108.98	6	3,808.86	6	3,488.28	6	3,156.83	6	2,825.32	6	2,493.77	6	2,162.22
1/4		1/4		1/4		1/4	4,102.97	1/4	3,802.40	1/4	3,481.40	1/4	3,149.92	1/4	2,818.41	1/4	2,486.86	1/4	2,155.31
1/2		1/2		1/2		1/2	4,096.92	1/2	3,795.90	1/2	3,474.50	1/2	3,143.02	1/2	2,811.51	1/2	2,479.96	1/2	2,148.40
3/4		3/4		3/4		3/4	4,090.87	3/4	3,789.40	3/4	3,467.60	3/4	3,136.11	3/4	2,804.60	3/4	2,473.05	3/4	2,141.49
7		7		7		7	4,084.83	7	3,782.90	7	3,460.70	7	3,129.20	7	2,797.70	7	2,466.14	7	2,134.59
1/4		1/4		1/4		1/4	4,078.78	1/4	3,776.40	1/4	3,453.80	1/4	3,122.30	1/4	2,790.79	1/4	2,459.23	1/4	2,127.68
1/2		1/2		1/2		1/2	4,368.77	1/2	4,072.70	1/2	3,769.87	1/2	3,446.90	1/2	3,115.39	1/2	2,783.88	1/2	2,452.33
3/4		3/4		3/4		3/4	4,363.86	3/4	4,066.62	3/4	3,763.34	3/4	3,439.99	3/4	3,108.48	3/4	2,776.97	3/4	2,445.42
8		8		8		8	4,358.95	8	4,060.54	8	3,756.80	8	3,433.08	8	3,101.58	8	2,770.07	8	2,438.51
1/4		1/4		1/4		1/4	4,354.04	1/4	4,054.46	1/4	3,750.27	1/4	3,426.18	1/4	3,094.67	1/4	2,763.16	1/4	2,431.60
1/2		1/2		1/2		1/2	4,347.88	1/2	4,048.34	1/2	3,743.70	1/2	3,419.27	1/2	3,087.76	1/2	2,756.25	1/2	2,424.70
3/4		3/4		3/4		3/4	4,341.71	3/4	4,042.23	3/4	3,737.14	3/4	3,412.37	3/4	3,080.86	3/4	2,749.34	3/4	2,417.79
9		9		9		9	4,335.55	9	4,036.11	9	3,730.57	9	3,405.46	9	3,073.95	9	2,742.44	9	2,410.88
1/4		1/4		1/4		1/4	4,329.38	1/4	4,030.00	1/4	3,724.00	1/4	3,398.55	1/4	3,067.05	1/4	2,735.53	1/4	2,403.97
1/2		1/2		1/2		1/2	4,322.59	1/2	4,023.85	1/2	3,717.40	1/2	3,391.65	1/2	3,060.14	1/2	2,728.62	1/2	2,397.07
3/4		3/4		3/4		3/4	4,315.79	3/4	4,017.70	3/4	3,710.80	3/4	3,384.74	3/4	3,053.23	3/4	2,721.72	3/4	2,390.16
10		10		10		10	4,309.00	10	4,011.55	10	3,704.20	10	3,377.83	10	3,046.33	10	2,714.81	10	2,383.25
1/4		1/4		1/4		1/4	4,302.21	1/4	4,005.40	1/4	3,697.60	1/4	3,370.93	1/4	3,039.42	1/4	2,707.90	1/4	2,376.35
1/2		1/2		1/2		1/2	4,295.34	1/2	3,999.18	1/2	3,690.96	1/2	3,364.02	1/2	3,032.51	1/2	2,700.99	1/2	2,369.44
3/4		3/4		3/4		3/4	4,288.48	3/4	3,992.95	3/4	3,684.33	3/4	3,357.11	3/4	3,025.61	3/4	2,694.09	3/4	2,362.53
11		11		11		11	4,281.61	11	3,986.73	11	3,677.69	11	3,350.21	11	3,018.70	11	2,687.18	11	2,355.62
1/4		1/4		1/4		1/4	4,274.74	1/4	3,980.51	1/4	3,671.05	1/4	3,343.30	1/4	3,011.79	1/4	2,680.27	1/4	2,348.72
1/2		1/2		1/2		1/2	4,267.88	1/2	3,974.25	1/2	3,664.38	1/2	3,336.39	1/2	3,004.89	1/2	2,673.36	1/2	2,341.81
3/4		3/4		3/4		3/4	4,261.01	3/4	3,967.99	3/4	3,657.71	3/4	3,329.49	3/4	2,997.98	3/4	2,666.46	3/4	2,334.90

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 ULLAGE GAUGES TAKEN WITH "HERMETIC" CLOSED GAUGING DEVICE  
 GAUGE POINT: (HERMETIC) LOCATED 12'-06" OFF CENTERLINE AND 44'-09" FORWARD OF AFT BULKHEAD.

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



# BARGE "EMS 388"

## 1 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-05 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	1,996.44	0	1,664.88	0	1,333.33	0	1,001.83	0	684.04	0	389.42	0	118.44	0		0			
1/4	1,989.53	1/4	1,657.98	1/4	1,326.42	1/4	994.95	1/4	677.64	1/4	383.52	1/4	113.03	1/4		1/4			
1/2	1,982.62	1/2	1,651.07	1/2	1,319.51	1/2	988.10	1/2	671.29	1/2	377.66	1/2	107.66	1/2		1/2			
3/4	1,975.72	3/4	1,644.16	3/4	1,312.61	3/4	981.26	3/4	664.93	3/4	371.80	3/4	102.29	3/4		3/4			
1	1,968.81	1	1,637.25	1	1,305.70	1	974.41	1	658.58	1	365.94	1	96.92	1		1			
1/4	1,961.90	1/4	1,630.35	1/4	1,298.79	1/4	967.56	1/4	652.23	1/4	360.08	1/4	91.56	1/4		1/4			
1/2	1,954.99	1/2	1,623.44	1/2	1,291.88	1/2	960.76	1/2	645.92	1/2	354.26	1/2	86.23	1/2		1/2			
3/4	1,948.09	3/4	1,616.53	3/4	1,284.98	3/4	953.95	3/4	639.60	3/4	348.44	3/4	80.90	3/4		3/4			
2	1,941.18	2	1,609.62	2	1,278.07	2	947.15	2	633.29	2	342.62	2	75.57	2		2			
1/4	1,934.27	1/4	1,602.72	1/4	1,271.16	1/4	940.34	1/4	626.98	1/4	336.80	1/4	70.25	1/4		1/4			
1/2	1,927.36	1/2	1,595.81	1/2	1,264.25	1/2	933.59	1/2	620.71	1/2	331.02	1/2	64.96	1/2		1/2			
3/4	1,920.46	3/4	1,588.90	3/4	1,257.35	3/4	926.84	3/4	614.44	3/4	325.24	3/4	59.67	3/4		3/4			
3	1,913.55	3	1,581.99	3	1,250.44	3	920.09	3	608.17	3	319.46	3	54.39	3		3			
1/4	1,906.64	1/4	1,575.09	1/4	1,243.53	1/4	913.34	1/4	601.90	1/4	313.68	1/4	49.10	1/4		1/4			
1/2	1,899.73	1/2	1,568.18	1/2	1,236.62	1/2	906.63	1/2	595.66	1/2	307.94	1/2	44.10	1/2		1/2			
3/4	1,892.83	3/4	1,561.27	3/4	1,229.72	3/4	899.92	3/4	589.43	3/4	302.20	3/4	39.10	3/4		3/4			
4	1,885.92	4	1,554.36	4	1,222.81	4	893.21	4	583.20	4	296.47	4	34.10	4		4			
1/4	1,879.01	1/4	1,547.46	1/4	1,215.90	1/4	886.51	1/4	576.97	1/4	290.73	1/4	29.10	1/4		1/4			
1/2	1,872.10	1/2	1,540.55	1/2	1,208.99	1/2	879.84	1/2	570.79	1/2	285.03	1/2	25.87	1/2		1/2			
3/4	1,865.20	3/4	1,533.64	3/4	1,202.09	3/4	873.17	3/4	564.60	3/4	279.34	3/4	22.64	3/4		3/4			
5	1,858.29	5	1,526.73	5	1,195.18	5	866.50	5	558.41	5	273.64	5	19.41	5		5			
1/4	1,851.38	1/4	1,519.83	1/4	1,188.27	1/4	859.83	1/4	552.22	1/4	267.94	1/4	16.18	1/4		1/4			
1/2	1,844.48	1/2	1,512.92	1/2	1,181.36	1/2	853.21	1/2	546.07	1/2	262.29	1/2		1/2		1/2			
3/4	1,837.57	3/4	1,506.01	3/4	1,174.46	3/4	846.58	3/4	539.92	3/4	256.63	3/4		3/4		3/4			
6	1,830.66	6	1,499.11	6	1,167.55	6	839.96	6	533.77	6	250.98	6		6		6			
1/4	1,823.75	1/4	1,492.20	1/4	1,160.64	1/4	833.34	1/4	527.63	1/4	245.32	1/4		1/4		1/4			
1/2	1,816.85	1/2	1,485.29	1/2	1,153.74	1/2	826.76	1/2	521.52	1/2	239.70	1/2		1/2		1/2			
3/4	1,809.94	3/4	1,478.38	3/4	1,146.83	3/4	820.18	3/4	515.41	3/4	234.09	3/4		3/4		3/4			
7	1,803.03	7	1,471.48	7	1,139.92	7	813.59	7	509.30	7	228.48	7		7		7			
1/4	1,796.12	1/4	1,464.57	1/4	1,133.01	1/4	807.01	1/4	503.20	1/4	222.86	1/4		1/4		1/4			
1/2	1,789.22	1/2	1,457.66	1/2	1,126.11	1/2	800.47	1/2	497.13	1/2	217.29	1/2		1/2		1/2			
3/4	1,782.31	3/4	1,450.75	3/4	1,119.20	3/4	793.92	3/4	491.07	3/4	211.71	3/4		3/4		3/4			
8	1,775.40	8	1,443.85	8	1,112.29	8	787.38	8	485.00	8	206.14	8		8		8			
1/4	1,768.49	1/4	1,436.94	1/4	1,105.38	1/4	780.83	1/4	478.93	1/4	200.57	1/4		1/4		1/4			
1/2	1,761.59	1/2	1,430.03	1/2	1,098.48	1/2	774.33	1/2	472.91	1/2	195.03	1/2		1/2		1/2			
3/4	1,754.68	3/4	1,423.12	3/4	1,091.57	3/4	767.82	3/4	466.88	3/4	189.50	3/4		3/4		3/4			
9	1,747.77	9	1,416.22	9	1,084.66	9	761.32	9	460.86	9	183.97	9		9		9			
1/4	1,740.86	1/4	1,409.31	1/4	1,077.75	1/4	754.81	1/4	454.83	1/4	178.44	1/4		1/4		1/4			
1/2	1,733.96	1/2	1,402.40	1/2	1,070.85	1/2	748.35	1/2	448.85	1/2	172.94	1/2		1/2		1/2			
3/4	1,727.05	3/4	1,395.49	3/4	1,063.94	3/4	741.89	3/4	442.87	3/4	167.45	3/4		3/4		3/4			
10	1,720.14	10	1,388.59	10	1,057.03	10	735.42	10	436.88	10	161.96	10		10		10			
1/4	1,713.23	1/4	1,381.68	1/4	1,050.12	1/4	728.96	1/4	430.90	1/4	156.47	1/4		1/4		1/4			
1/2	1,706.33	1/2	1,374.77	1/2	1,043.22	1/2	722.52	1/2	424.95	1/2	151.02	1/2		1/2		1/2			
3/4	1,699.42	3/4	1,367.86	3/4	1,036.31	3/4	716.09	3/4	419.01	3/4	145.57	3/4		3/4		3/4			
11	1,692.51	11	1,360.96	11	1,029.40	11	709.65	11	413.07	11	140.12	11		11		11			
1/4	1,685.61	1/4	1,354.05	1/4	1,022.49	1/4	703.22	1/4	407.13	1/4	134.67	1/4		1/4		1/4			
1/2	1,678.70	1/2	1,347.14	1/2	1,015.61	1/2	696.82	1/2	401.22	1/2	129.26	1/2		1/2		1/2			
3/4	1,671.79	3/4	1,340.24	3/4	1,008.72	3/4	690.43	3/4	395.32	3/4	123.85	3/4		3/4		3/4			

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 01/17/2014 CL  
CALCULATED: 01/18/2014 CL  
PRINTED: 01/19/2014 SW

CANCELS AND SUPERCEDES  
ALL PRIOR TO 01/2014

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



# BARGE "EMS 388"

## 2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-04 1/2"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0		0		0	5,109.06	0	4,767.83	0	4,402.88	0	4,017.82	0	3,629.96	0	3,242.07	0	2,854.13
1/4		1/4		1/4		1/4	5,101.61	1/4	4,760.47	1/4	4,395.03	1/4	4,009.74	1/4	3,621.88	1/4	3,233.98	1/4	2,846.05
1/2		1/2		1/2		1/2	5,094.17	1/2	4,753.11	1/2	4,387.19	1/2	4,001.66	1/2	3,613.80	1/2	3,225.90	1/2	2,837.97
3/4		3/4		3/4		3/4	5,087.30	3/4	4,745.71	3/4	4,379.30	3/4	3,993.58	3/4	3,605.72	3/4	3,217.82	3/4	2,829.89
1		1		1		1	5,080.43	1	4,738.30	1	4,371.42	1	3,985.50	1	3,597.64	1	3,209.74	1	2,821.81
1/4		1/4		1/4		1/4	5,073.55	1/4	4,730.90	1/4	4,363.53	1/4	3,977.42	1/4	3,589.56	1/4	3,201.66	1/4	2,813.72
1/2		1/2		1/2		1/2	5,066.68	1/2	4,723.50	1/2	4,355.65	1/2	3,969.34	1/2	3,581.48	1/2	3,193.57	1/2	2,805.64
3/4		3/4		3/4		3/4	5,059.77	3/4	4,716.06	3/4	4,347.72	3/4	3,961.26	3/4	3,573.40	3/4	3,185.49	3/4	2,797.56
2		2		2		2	5,052.85	2	4,708.61	2	4,339.80	2	3,953.18	2	3,565.32	2	3,177.41	2	2,789.48
1/4		1/4		1/4		1/4	5,045.94	1/4	4,701.17	1/4	4,331.87	1/4	3,945.10	1/4	3,557.24	1/4	3,169.33	1/4	2,781.40
1/2		1/2		1/2		1/2	5,039.03	1/2	4,693.73	1/2	4,323.95	1/2	3,937.02	1/2	3,549.15	1/2	3,161.25	1/2	2,773.31
3/4		3/4		3/4		3/4	5,032.08	3/4	4,686.25	3/4	4,315.98	3/4	3,928.94	3/4	3,541.07	3/4	3,153.16	3/4	2,765.23
3		3		3		3	5,025.12	3	4,678.76	3	4,308.02	3	3,920.86	3	3,532.99	3	3,145.08	3	2,757.15
1/4		1/4		1/4		1/4	5,018.17	1/4	4,671.28	1/4	4,300.05	1/4	3,912.78	1/4	3,524.91	1/4	3,137.00	1/4	2,749.07
1/2		1/2		1/2		1/2	5,011.22	1/2	4,663.80	1/2	4,292.09	1/2	3,904.70	1/2	3,516.83	1/2	3,128.92	1/2	2,740.99
3/4		3/4		3/4		3/4	5,004.22	3/4	4,656.28	3/4	4,284.08	3/4	3,896.62	3/4	3,508.75	3/4	3,120.84	3/4	2,732.91
4		4		4		4	4,997.23	4	4,648.75	4	4,276.08	4	3,888.54	4	3,500.67	4	3,112.75	4	2,724.82
1/4		1/4		1/4		1/4	4,990.24	1/4	4,641.23	1/4	4,268.07	1/4	3,880.46	1/4	3,492.59	1/4	3,104.67	1/4	2,716.74
1/2		1/2		1/2		1/2	4,983.24	1/2	4,633.71	1/2	4,260.07	1/2	3,872.37	1/2	3,484.51	1/2	3,096.59	1/2	2,708.66
3/4		3/4		3/4		3/4	4,976.21	3/4	4,626.14	3/4	4,252.02	3/4	3,864.29	3/4	3,476.43	3/4	3,088.51	3/4	2,700.58
5		5		5		5	4,969.18	5	4,618.58	5	4,243.98	5	3,856.21	5	3,468.35	5	3,080.43	5	2,692.50
1/4		1/4		1/4		1/4	4,962.15	1/4	4,611.02	1/4	4,235.93	1/4	3,848.13	1/4	3,460.27	1/4	3,072.35	1/4	2,684.41
1/2		1/2		1/2		1/2	4,955.11	1/2	4,603.46	1/2	4,227.89	1/2	3,840.05	1/2	3,452.19	1/2	3,064.26	1/2	2,676.33
3/4		3/4		3/4		3/4	4,948.04	3/4	4,595.85	3/4	4,219.81	3/4	3,831.97	3/4	3,444.11	3/4	3,056.18	3/4	2,668.25
6		6		6		6	4,940.96	6	4,588.25	6	4,211.74	6	3,823.89	6	3,436.03	6	3,048.10	6	2,660.17
1/4		1/4		1/4		1/4	4,933.89	1/4	4,580.65	1/4	4,203.67	1/4	3,815.81	1/4	3,427.95	1/4	3,040.02	1/4	2,652.09
1/2		1/2		1/2		1/2	4,926.82	1/2	4,573.04	1/2	4,195.59	1/2	3,807.73	1/2	3,419.87	1/2	3,031.94	1/2	2,644.00
3/4		3/4		3/4	5,266.09	3/4	4,919.70	3/4	4,565.40	3/4	4,187.51	3/4	3,799.65	3/4	3,411.79	3/4	3,023.85	3/4	2,635.92
7		7		7	5,260.35	7	4,912.59	7	4,557.76	7	4,179.43	7	3,791.57	7	3,403.70	7	3,015.77	7	2,627.84
1/4		1/4		1/4	5,254.60	1/4	4,905.48	1/4	4,550.11	1/4	4,171.35	1/4	3,783.49	1/4	3,395.62	1/4	3,007.69	1/4	2,619.76
1/2		1/2		1/2	5,248.86	1/2	4,898.36	1/2	4,542.47	1/2	4,163.27	1/2	3,775.41	1/2	3,387.54	1/2	2,999.61	1/2	2,611.68
3/4		3/4		3/4	5,241.65	3/4	4,891.21	3/4	4,534.79	3/4	4,155.19	3/4	3,767.33	3/4	3,379.46	3/4	2,991.53	3/4	2,603.60
8		8		8	5,234.43	8	4,884.05	8	4,527.10	8	4,147.11	8	3,759.25	8	3,371.38	8	2,983.44	8	2,595.51
1/4		1/4		1/4	5,227.22	1/4	4,876.90	1/4	4,519.42	1/4	4,139.03	1/4	3,751.17	1/4	3,363.29	1/4	2,975.36	1/4	2,587.43
1/2		1/2		1/2	5,220.00	1/2	4,869.75	1/2	4,511.73	1/2	4,130.95	1/2	3,743.09	1/2	3,355.21	1/2	2,967.28	1/2	2,579.35
3/4		3/4		3/4	5,212.05	3/4	4,862.55	3/4	4,504.01	3/4	4,122.87	3/4	3,735.01	3/4	3,347.13	3/4	2,959.20	3/4	2,571.27
9		9		9	5,204.11	9	4,855.36	9	4,496.29	9	4,114.79	9	3,726.93	9	3,339.05	9	2,951.12	9	2,563.19
1/4		1/4		1/4	5,196.16	1/4	4,848.16	1/4	4,488.56	1/4	4,106.71	1/4	3,718.85	1/4	3,330.97	1/4	2,943.03	1/4	2,555.10
1/2		1/2		1/2	5,188.21	1/2	4,840.97	1/2	4,480.84	1/2	4,098.63	1/2	3,710.76	1/2	3,322.88	1/2	2,934.95	1/2	2,547.02
3/4		3/4		3/4	5,180.18	3/4	4,833.69	3/4	4,473.07	3/4	4,090.55	3/4	3,702.68	3/4	3,314.80	3/4	2,926.87	3/4	2,538.94
10		10		10	5,172.14	10	4,826.41	10	4,465.31	10	4,082.47	10	3,694.60	10	3,306.72	10	2,918.79	10	2,530.86
1/4		1/4		1/4	5,164.11	1/4	4,819.13	1/4	4,457.55	1/4	4,074.39	1/4	3,686.52	1/4	3,298.64	1/4	2,910.71	1/4	2,522.78
1/2		1/2		1/2	5,156.08	1/2	4,811.84	1/2	4,449.78	1/2	4,066.31	1/2	3,678.44	1/2	3,290.56	1/2	2,902.63	1/2	2,514.69
3/4		3/4		3/4	5,148.04	3/4	4,804.52	3/4	4,441.98	3/4	4,058.23	3/4	3,670.36	3/4	3,282.47	3/4	2,894.54	3/4	2,506.61
11		11		11	5,140.01	11	4,797.20	11	4,434.17	11	4,050.15	11	3,662.28	11	3,274.39	11	2,886.46	11	2,498.53
1/4		1/4		1/4	5,131.98	1/4	4,789.88	1/4	4,426.37	1/4	4,042.07	1/4	3,654.20	1/4	3,266.31	1/4	2,878.38	1/4	2,490.45
1/2		1/2		1/2	5,123.94	1/2	4,782.56	1/2	4,418.57	1/2	4,033.98	1/2	3,646.12	1/2	3,258.23	1/2	2,870.30	1/2	2,482.37
3/4		3/4		3/4	5,116.50	3/4	4,775.19	3/4	4,410.72	3/4	4,025.90	3/4	3,638.04	3/4	3,250.15	3/4	2,862.22	3/4	2,474.28

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 50'-09" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT  
& ANALYSIS, INC.

P.O. Box 2092  
Pearland, Texas 77588

<http://www.pmacorp.net>



# BARGE "EMS 388"

## 2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-04 1/2"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,466.20	0	2,078.27	0	1,690.34	0	1,302.41	0	914.48	0	541.19	0	153.92	0		0		0	
1/4	2,458.12	1/4	2,070.19	1/4	1,682.26	1/4	1,294.33	1/4	906.40	1/4	533.42	1/4	145.83	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,450.04	1/2	2,062.11	1/2	1,674.18	1/2	1,286.25	1/2	898.31	1/2	525.65	1/2	137.75	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,441.96	3/4	2,054.03	3/4	1,666.09	3/4	1,278.16	3/4	890.54	3/4	517.57	3/4	129.67	3/4	3/4	3/4	3/4	3/4	3/4
1	2,433.88	1	2,045.94	1	1,658.01	1	1,270.08	1	882.76	1	509.49	1	121.59	1	1	1	1	1	1
1/4	2,425.79	1/4	2,037.86	1/4	1,649.93	1/4	1,262.00	1/4	874.99	1/4	501.41	1/4	113.51	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,417.71	1/2	2,029.78	1/2	1,641.85	1/2	1,253.92	1/2	867.21	1/2	493.33	1/2	105.43	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,409.63	3/4	2,021.70	3/4	1,633.77	3/4	1,245.84	3/4	859.43	3/4	485.24	3/4	97.35	3/4	3/4	3/4	3/4	3/4	3/4
2	2,401.55	2	2,013.62	2	1,625.69	2	1,237.75	2	851.66	2	477.16	2	89.27	2	2	2	2	2	2
1/4	2,393.47	1/4	2,005.53	1/4	1,617.60	1/4	1,229.67	1/4	843.88	1/4	469.08	1/4	81.18	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,385.38	1/2	1,997.45	1/2	1,609.52	1/2	1,221.59	1/2	836.10	1/2	461.00	1/2	73.10	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,377.30	3/4	1,989.37	3/4	1,601.44	3/4	1,213.51	3/4	828.33	3/4	452.92	3/4	65.31	3/4	3/4	3/4	3/4	3/4	3/4
3	2,369.22	3	1,981.29	3	1,593.36	3	1,205.43	3	820.56	3	444.84	3	57.52	3	3	3	3	3	3
1/4	2,361.14	1/4	1,973.21	1/4	1,585.28	1/4	1,197.34	1/4	812.79	1/4	436.76	1/4	49.73	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,353.06	1/2	1,965.12	1/2	1,577.19	1/2	1,189.26	1/2	805.02	1/2	428.68	1/2	41.93	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,344.97	3/4	1,957.04	3/4	1,569.11	3/4	1,181.18	3/4	797.26	3/4	420.60	3/4	36.16	3/4	3/4	3/4	3/4	3/4	3/4
4	2,336.89	4	1,948.96	4	1,561.03	4	1,173.10	4	789.50	4	412.51	4	30.39	4	4	4	4	4	4
1/4	2,328.81	1/4	1,940.88	1/4	1,552.95	1/4	1,165.02	1/4	781.74	1/4	404.43	1/4	24.62	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,320.73	1/2	1,932.80	1/2	1,544.87	1/2	1,156.93	1/2	773.98	1/2	396.35	1/2	18.85	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,312.65	3/4	1,924.72	3/4	1,536.78	3/4	1,148.85	3/4	766.22	3/4	388.27	3/4		3/4	3/4	3/4	3/4	3/4	3/4
5	2,304.56	5	1,916.63	5	1,528.70	5	1,140.77	5	758.46	5	380.19	5		5	5	5	5	5	5
1/4	2,296.48	1/4	1,908.55	1/4	1,520.62	1/4	1,132.69	1/4	750.70	1/4	372.11	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,288.40	1/2	1,900.47	1/2	1,512.54	1/2	1,124.61	1/2	742.94	1/2	364.03	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,280.32	3/4	1,892.39	3/4	1,504.46	3/4	1,116.53	3/4	735.18	3/4	355.95	3/4		3/4	3/4	3/4	3/4	3/4	3/4
6	2,272.24	6	1,884.31	6	1,496.37	6	1,108.44	6	727.42	6	347.86	6		6	6	6	6	6	6
1/4	2,264.16	1/4	1,876.22	1/4	1,488.29	1/4	1,100.36	1/4	719.66	1/4	339.78	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,256.07	1/2	1,868.14	1/2	1,480.21	1/2	1,092.28	1/2	711.90	1/2	331.70	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,247.99	3/4	1,860.06	3/4	1,472.13	3/4	1,084.20	3/4	704.14	3/4	323.62	3/4		3/4	3/4	3/4	3/4	3/4	3/4
7	2,239.91	7	1,851.98	7	1,464.05	7	1,076.12	7	696.39	7	315.54	7		7	7	7	7	7	7
1/4	2,231.83	1/4	1,843.90	1/4	1,455.97	1/4	1,068.03	1/4	688.63	1/4	307.46	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,223.75	1/2	1,835.81	1/2	1,447.88	1/2	1,059.95	1/2	680.88	1/2	299.38	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,215.66	3/4	1,827.73	3/4	1,439.80	3/4	1,051.87	3/4	673.12	3/4	291.30	3/4		3/4	3/4	3/4	3/4	3/4	3/4
8	2,207.58	8	1,819.65	8	1,431.72	8	1,043.79	8	665.36	8	283.21	8		8	8	8	8	8	8
1/4	2,199.50	1/4	1,811.57	1/4	1,423.64	1/4	1,035.71	1/4	657.61	1/4	275.13	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,191.42	1/2	1,803.49	1/2	1,415.56	1/2	1,027.62	1/2	649.85	1/2	267.05	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,183.34	3/4	1,795.41	3/4	1,407.47	3/4	1,019.54	3/4	642.09	3/4	258.97	3/4		3/4	3/4	3/4	3/4	3/4	3/4
9	2,175.25	9	1,787.32	9	1,399.39	9	1,011.46	9	634.33	9	250.89	9		9	9	9	9	9	9
1/4	2,167.17	1/4	1,779.24	1/4	1,391.31	1/4	1,003.38	1/4	626.57	1/4	242.81	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,159.09	1/2	1,771.16	1/2	1,383.23	1/2	995.30	1/2	618.81	1/2	234.73	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,151.01	3/4	1,763.08	3/4	1,375.15	3/4	987.22	3/4	611.05	3/4	226.65	3/4		3/4	3/4	3/4	3/4	3/4	3/4
10	2,142.93	10	1,755.00	10	1,367.06	10	979.13	10	603.29	10	218.57	10		10	10	10	10	10	10
1/4	2,134.84	1/4	1,746.91	1/4	1,358.98	1/4	971.05	1/4	595.53	1/4	210.48	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,126.76	1/2	1,738.83	1/2	1,350.90	1/2	962.97	1/2	587.77	1/2	202.40	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,118.68	3/4	1,730.75	3/4	1,342.82	3/4	954.89	3/4	580.01	3/4	194.32	3/4		3/4	3/4	3/4	3/4	3/4	3/4
11	2,110.60	11	1,722.67	11	1,334.74	11	946.81	11	572.25	11	186.24	11		11	11	11	11	11	11
1/4	2,102.52	1/4	1,714.59	1/4	1,326.65	1/4	938.72	1/4	564.49	1/4	178.16	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,094.44	1/2	1,706.50	1/2	1,318.57	1/2	930.64	1/2	556.73	1/2	170.08	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,086.35	3/4	1,698.42	3/4	1,310.49	3/4	922.56	3/4	548.96	3/4	162.00	3/4		3/4	3/4	3/4	3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 01/17/2014 CL  
CALCULATED: 01/18/2014 CL  
PRINTED: 01/19/2014 SW

CANCELS AND SUPERCEDES  
ALL PRIOR TO 01/2014

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



# BARGE "EMS 388"

## 2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-05"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.		
0		0		0		0	5,137.10	0	4,795.83	0	4,431.96	0	4,047.50	0	3,659.76	0	3,271.99	0	2,884.20		
1/4		1/4		1/4		1/4	5,129.66	1/4	4,788.47	1/4	4,424.12	1/4	4,039.43	1/4	3,651.68	1/4	3,263.91	1/4	2,876.12		
1/2		1/2		1/2		1/2	5,122.22	1/2	4,781.11	1/2	4,416.28	1/2	4,031.35	1/2	3,643.60	1/2	3,255.84	1/2	2,868.04		
3/4		3/4		3/4		3/4	5,114.78	3/4	4,773.75	3/4	4,408.44	3/4	4,023.27	3/4	3,635.53	3/4	3,247.76	3/4	2,859.96		
1		1		1		1	5,107.34	1	4,766.39	1	4,400.59	1	4,015.19	1	3,627.45	1	3,239.68	1	2,851.88		
1/4		1/4		1/4		1/4	5,100.47	1/4	4,758.99	1/4	4,392.71	1/4	4,007.11	1/4	3,619.37	1/4	3,231.60	1/4	2,843.80		
1/2		1/2		1/2		1/2	5,093.60	1/2	4,751.59	1/2	4,384.83	1/2	3,999.04	1/2	3,611.29	1/2	3,223.52	1/2	2,835.72		
3/4		3/4		3/4		3/4	5,086.73	3/4	4,744.19	3/4	4,376.95	3/4	3,990.96	3/4	3,603.21	3/4	3,215.44	3/4	2,827.64		
2		2		2		2	5,079.86	2	4,736.79	2	4,369.07	2	3,982.88	2	3,595.14	2	3,207.36	2	2,819.56		
1/4		1/4		1/4		1/4	5,072.95	1/4	4,729.35	1/4	4,361.14	1/4	3,974.80	1/4	3,587.06	1/4	3,199.28	1/4	2,811.48		
1/2		1/2		1/2		1/2	5,066.04	1/2	4,721.91	1/2	4,353.22	1/2	3,966.72	1/2	3,578.98	1/2	3,191.20	1/2	2,803.41		
3/4		3/4		3/4		3/4	5,059.13	3/4	4,714.47	3/4	4,345.30	3/4	3,958.65	3/4	3,570.90	3/4	3,183.12	3/4	2,795.33		
3		3		3		3	5,052.22	3	4,707.03	3	4,337.38	3	3,950.57	3	3,562.82	3	3,175.04	3	2,787.25		
1/4		1/4		1/4		1/4	5,045.27	1/4	4,699.55	1/4	4,329.41	1/4	3,942.49	1/4	3,554.75	1/4	3,166.97	1/4	2,779.17		
1/2		1/2		1/2		1/2	5,038.31	1/2	4,692.07	1/2	4,321.45	1/2	3,934.41	1/2	3,546.67	1/2	3,158.89	1/2	2,771.09		
3/4		3/4		3/4		3/4	5,031.36	3/4	4,684.59	3/4	4,313.49	3/4	3,926.33	3/4	3,538.59	3/4	3,150.81	3/4	2,763.01		
4		4		4		4	5,024.41	4	4,677.11	4	4,305.53	4	3,918.26	4	3,530.51	4	3,142.73	4	2,754.93		
1/4		1/4		1/4		1/4	5,017.42	1/4	4,669.59	1/4	4,297.52	1/4	3,910.18	1/4	3,522.43	1/4	3,134.65	1/4	2,746.85		
1/2		1/2		1/2		1/2	5,010.44	1/2	4,662.07	1/2	4,289.52	1/2	3,902.10	1/2	3,514.36	1/2	3,126.57	1/2	2,738.77		
3/4		3/4		3/4		3/4	5,003.44	3/4	4,654.55	3/4	4,281.52	3/4	3,894.02	3/4	3,506.28	3/4	3,118.49	3/4	2,730.69		
5		5		5		5	4,996.45	5	4,647.03	5	4,273.52	5	3,885.94	5	3,498.20	5	3,110.41	5	2,722.61		
1/4		1/4		1/4		1/4	4,989.42	1/4	4,639.47	1/4	4,265.47	1/4	3,877.87	1/4	3,490.12	1/4	3,102.33	1/4	2,714.54		
1/2		1/2		1/2		1/2	4,982.39	1/2	4,631.91	1/2	4,257.43	1/2	3,869.79	1/2	3,482.04	1/2	3,094.25	1/2	2,706.46		
3/4		3/4		3/4		3/4	4,975.36	3/4	4,624.35	3/4	4,249.39	3/4	3,861.71	3/4	3,473.97	3/4	3,086.17	3/4	2,698.38		
6		6		6		6	4,968.33	6	4,616.79	6	4,241.34	6	3,853.63	6	3,465.89	6	3,078.10	6	2,690.30		
1/4		1/4		1/4		1/4	4,961.26	1/4	4,609.19	1/4	4,233.27	1/4	3,845.55	1/4	3,457.81	1/4	3,070.02	1/4	2,682.22		
1/2		1/2		1/2		1/2	4,954.18	1/2	4,601.59	1/2	4,225.20	1/2	3,837.48	1/2	3,449.73	1/2	3,061.94	1/2	2,674.14		
3/4		3/4		3/4		3/4	4,947.11	3/4	4,593.99	3/4	4,217.13	3/4	3,829.40	3/4	3,441.65	3/4	3,053.86	3/4	2,666.06		
7		7		7		7	4,940.04	7	4,586.39	7	4,209.06	7	3,821.32	7	3,433.58	7	3,045.78	7	2,657.98		
1/4		1/4		1/4		1/4	5,279.20	1/4	4,932.93	1/4	4,578.75	1/4	4,200.99	1/4	3,813.24	1/4	3,425.50	1/4	3,037.70	1/4	2,649.90
1/2		1/2		1/2		1/2	5,273.46	1/2	4,925.82	1/2	4,571.10	1/2	4,192.91	1/2	3,805.16	1/2	3,417.42	1/2	3,029.62	1/2	2,641.82
3/4		3/4		3/4		3/4	5,267.72	3/4	4,918.71	3/4	4,563.46	3/4	4,184.83	3/4	3,797.09	3/4	3,409.34	3/4	3,021.54	3/4	2,633.74
8		8		8		8	5,261.98	8	4,911.60	8	4,555.82	8	4,176.75	8	3,789.01	8	3,401.26	8	3,013.46	8	2,625.67
1/4		1/4		1/4		1/4	5,254.76	1/4	4,904.44	1/4	4,548.14	1/4	4,168.67	1/4	3,780.93	1/4	3,393.18	1/4	3,005.38	1/4	2,617.59
1/2		1/2		1/2		1/2	5,247.55	1/2	4,897.29	1/2	4,540.46	1/2	4,160.60	1/2	3,772.85	1/2	3,385.10	1/2	2,997.30	1/2	2,609.51
3/4		3/4		3/4		3/4	5,240.34	3/4	4,890.14	3/4	4,532.78	3/4	4,152.52	3/4	3,764.77	3/4	3,377.02	3/4	2,989.22	3/4	2,601.43
9		9		9		9	5,233.13	9	4,882.99	9	4,525.10	9	4,144.44	9	3,756.70	9	3,368.94	9	2,981.15	9	2,593.35
1/4		1/4		1/4		1/4	5,225.18	1/4	4,875.80	1/4	4,517.38	1/4	4,136.36	1/4	3,748.62	1/4	3,360.86	1/4	2,973.07	1/4	2,585.27
1/2		1/2		1/2		1/2	5,217.24	1/2	4,868.61	1/2	4,509.66	1/2	4,128.28	1/2	3,740.54	1/2	3,352.78	1/2	2,964.99	1/2	2,577.19
3/4		3/4		3/4		3/4	5,209.29	3/4	4,861.41	3/4	4,501.93	3/4	4,120.21	3/4	3,732.46	3/4	3,344.71	3/4	2,956.91	3/4	2,569.11
10		10		10		10	5,201.35	10	4,854.22	10	4,494.21	10	4,112.13	10	3,724.38	10	3,336.63	10	2,948.83	10	2,561.03
1/4		1/4		1/4		1/4	5,193.31	1/4	4,846.94	1/4	4,486.45	1/4	4,104.05	1/4	3,716.31	1/4	3,328.55	1/4	2,940.75	1/4	2,552.95
1/2		1/2		1/2		1/2	5,185.28	1/2	4,839.66	1/2	4,478.69	1/2	4,095.97	1/2	3,708.23	1/2	3,320.47	1/2	2,932.67	1/2	2,544.87
3/4		3/4		3/4		3/4	5,177.25	3/4	4,832.39	3/4	4,470.93	3/4	4,087.89	3/4	3,700.15	3/4	3,312.39	3/4	2,924.59	3/4	2,536.80
11		11		11		11	5,169.22	11	4,825.11	11	4,463.17	11	4,079.82	11	3,692.07	11	3,304.31	11	2,916.51	11	2,528.72
1/4		1/4		1/4		1/4	5,161.19	1/4	4,817.79	1/4	4,455.37	1/4	4,071.74	1/4	3,683.99	1/4	3,296.23	1/4	2,908.43	1/4	2,520.64
1/2		1/2		1/2		1/2	5,153.16	1/2	4,810.47	1/2	4,447.56	1/2	4,063.66	1/2	3,675.92	1/2	3,288.15	1/2	2,900.35	1/2	2,512.56
3/4		3/4		3/4		3/4	5,145.13	3/4	4,803.15	3/4	4,439.76	3/4	4,055.58	3/4	3,667.84	3/4	3,280.07	3/4	2,892.28	3/4	2,504.48

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.

CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.

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

GAUGE POINT: (HERMETIC) LOCATED 12'-06" OFF CENTERLINE AND 50'-09" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT  
& ANALYSIS, INC.

P.O. Box 2092  
Pearland, Texas 77588

<http://www.pmacorp.net>





# BARGE "EMS 388"

## 2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-05"

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	2,496.40	0	2,108.60	0	1,720.81	0	1,333.01	0	945.21	0	557.78	0	170.02	0		0		0	
1/4	2,488.32	1/4	2,100.52	1/4	1,712.73	1/4	1,324.93	1/4	937.13	1/4	549.70	1/4	161.94	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,480.24	1/2	2,092.44	1/2	1,704.65	1/2	1,316.85	1/2	929.05	1/2	541.62	1/2	153.86	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,472.16	3/4	2,084.37	3/4	1,696.57	3/4	1,308.77	3/4	920.98	3/4	533.55	3/4	145.78	3/4	3/4	3/4	3/4	3/4	3/4
1	2,464.08	1	2,076.29	1	1,688.49	1	1,300.69	1	912.90	1	525.47	1	137.70	1	1	1	1	1	1
1/4	2,456.00	1/4	2,068.21	1/4	1,680.41	1/4	1,292.61	1/4	904.82	1/4	517.39	1/4	129.63	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,447.93	1/2	2,060.13	1/2	1,672.33	1/2	1,284.53	1/2	896.74	1/2	509.31	1/2	121.55	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,439.85	3/4	2,052.05	3/4	1,664.25	3/4	1,276.46	3/4	888.66	3/4	501.23	3/4	113.47	3/4	3/4	3/4	3/4	3/4	3/4
2	2,431.77	2	2,043.97	2	1,656.17	2	1,268.38	2	880.58	2	493.15	2	105.39	2	2	2	2	2	2
1/4	2,423.69	1/4	2,035.89	1/4	1,648.09	1/4	1,260.30	1/4	872.50	1/4	485.08	1/4	97.31	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,415.61	1/2	2,027.81	1/2	1,640.02	1/2	1,252.22	1/2	864.42	1/2	477.00	1/2	89.23	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,407.53	3/4	2,019.73	3/4	1,631.94	3/4	1,244.14	3/4	856.34	3/4	468.92	3/4	81.16	3/4	3/4	3/4	3/4	3/4	3/4
3	2,399.45	3	2,011.65	3	1,623.86	3	1,236.06	3	848.26	3	460.84	3	73.08	3	3	3	3	3	3
1/4	2,391.37	1/4	2,003.57	1/4	1,615.78	1/4	1,227.98	1/4	840.18	1/4	452.76	1/4	65.29	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,383.29	1/2	1,995.50	1/2	1,607.70	1/2	1,219.90	1/2	832.11	1/2	444.68	1/2	57.50	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,375.21	3/4	1,987.42	3/4	1,599.62	3/4	1,211.82	3/4	824.03	3/4	436.61	3/4	49.71	3/4	3/4	3/4	3/4	3/4	3/4
4	2,367.13	4	1,979.34	4	1,591.54	4	1,203.74	4	815.95	4	428.53	4	41.92	4	4	4	4	4	4
1/4	2,359.06	1/4	1,971.26	1/4	1,583.46	1/4	1,195.66	1/4	807.88	1/4	420.45	1/4	36.15	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,350.98	1/2	1,963.18	1/2	1,575.38	1/2	1,187.59	1/2	799.81	1/2	412.37	1/2	30.38	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,342.90	3/4	1,955.10	3/4	1,567.30	3/4	1,179.51	3/4	791.74	3/4	404.29	3/4	24.61	3/4	3/4	3/4	3/4	3/4	3/4
5	2,334.82	5	1,947.02	5	1,559.22	5	1,171.43	5	783.67	5	396.21	5	18.84	5	5	5	5	5	5
1/4	2,326.74	1/4	1,938.94	1/4	1,551.15	1/4	1,163.35	1/4	775.60	1/4	388.13	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,318.66	1/2	1,930.86	1/2	1,543.07	1/2	1,155.27	1/2	767.53	1/2	380.06	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,310.58	3/4	1,922.78	3/4	1,534.99	3/4	1,147.19	3/4	759.47	3/4	371.98	3/4		3/4	3/4	3/4	3/4	3/4	3/4
6	2,302.50	6	1,914.70	6	1,526.91	6	1,139.11	6	751.40	6	363.90	6		6	6	6	6	6	6
1/4	2,294.42	1/4	1,906.63	1/4	1,518.83	1/4	1,131.03	1/4	743.33	1/4	355.82	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,286.34	1/2	1,898.55	1/2	1,510.75	1/2	1,122.95	1/2	735.26	1/2	347.74	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,278.26	3/4	1,890.47	3/4	1,502.67	3/4	1,114.87	3/4	727.19	3/4	339.66	3/4		3/4	3/4	3/4	3/4	3/4	3/4
7	2,270.19	7	1,882.39	7	1,494.59	7	1,106.79	7	719.12	7	331.59	7		7	7	7	7	7	7
1/4	2,262.11	1/4	1,874.31	1/4	1,486.51	1/4	1,098.72	1/4	711.06	1/4	323.51	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,254.03	1/2	1,866.23	1/2	1,478.43	1/2	1,090.64	1/2	702.99	1/2	315.43	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,245.95	3/4	1,858.15	3/4	1,470.35	3/4	1,082.56	3/4	694.93	3/4	307.35	3/4		3/4	3/4	3/4	3/4	3/4	3/4
8	2,237.87	8	1,850.07	8	1,462.28	8	1,074.48	8	686.87	8	299.27	8		8	8	8	8	8	8
1/4	2,229.79	1/4	1,841.99	1/4	1,454.20	1/4	1,066.40	1/4	678.80	1/4	291.19	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,221.71	1/2	1,833.91	1/2	1,446.12	1/2	1,058.32	1/2	670.74	1/2	283.12	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,213.63	3/4	1,825.83	3/4	1,438.04	3/4	1,050.24	3/4	662.67	3/4	275.04	3/4		3/4	3/4	3/4	3/4	3/4	3/4
9	2,205.55	9	1,817.76	9	1,429.96	9	1,042.16	9	654.61	9	266.96	9		9	9	9	9	9	9
1/4	2,197.47	1/4	1,809.68	1/4	1,421.88	1/4	1,034.08	1/4	646.54	1/4	258.88	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,189.39	1/2	1,801.60	1/2	1,413.80	1/2	1,026.00	1/2	638.47	1/2	250.80	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,181.31	3/4	1,793.52	3/4	1,405.72	3/4	1,017.92	3/4	630.40	3/4	242.72	3/4		3/4	3/4	3/4	3/4	3/4	3/4
10	2,173.24	10	1,785.44	10	1,397.64	10	1,009.85	10	622.33	10	234.65	10		10	10	10	10	10	10
1/4	2,165.16	1/4	1,777.36	1/4	1,389.56	1/4	1,001.77	1/4	614.26	1/4	226.57	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,157.08	1/2	1,769.28	1/2	1,381.48	1/2	993.69	1/2	606.20	1/2	218.49	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,149.00	3/4	1,761.20	3/4	1,373.40	3/4	985.61	3/4	598.13	3/4	210.41	3/4		3/4	3/4	3/4	3/4	3/4	3/4
11	2,140.92	11	1,753.12	11	1,365.33	11	977.53	11	590.06	11	202.33	11		11	11	11	11	11	11
1/4	2,132.84	1/4	1,745.04	1/4	1,357.25	1/4	969.45	1/4	581.99	1/4	194.25	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,124.76	1/2	1,736.96	1/2	1,349.17	1/2	961.37	1/2	573.92	1/2	186.17	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,116.68	3/4	1,728.89	3/4	1,341.09	3/4	953.29	3/4	565.85	3/4	178.10	3/4		3/4	3/4	3/4	3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 01/17/2014 CL  
CALCULATED: 01/18/2014 CL  
PRINTED: 01/19/2014 SW

CANCELS AND SUPERCEDES  
ALL PRIOR TO 01/2014

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



# BARGE "EMS 388"

## 3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-05"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.		
0		0		0		0	4,494.01	0	4,243.03	0	3,971.35	0	3,680.54	0	3,386.68	0	3,026.41	0	2,666.06		
1/4		1/4		1/4		1/4	4,488.47	1/4	4,237.57	1/4	3,965.45	1/4	3,674.42	1/4	3,379.17	1/4	3,018.91	1/4	2,658.55		
1/2		1/2		1/2		1/2	4,482.93	1/2	4,232.12	1/2	3,959.55	1/2	3,668.30	1/2	3,371.66	1/2	3,011.40	1/2	2,651.04		
3/4		3/4		3/4		3/4	4,477.39	3/4	4,226.66	3/4	3,953.64	3/4	3,662.18	3/4	3,364.15	3/4	3,003.90	3/4	2,643.53		
1		1		1		1	4,471.86	1	4,221.21	1	3,947.74	1	3,656.05	1	3,356.64	1	2,996.40	1	2,636.02		
1/4		1/4		1/4		1/4	4,466.85	1/4	4,215.72	1/4	3,941.80	1/4	3,649.93	1/4	3,349.13	1/4	2,988.89	1/4	2,628.51		
1/2		1/2		1/2		1/2	4,461.84	1/2	4,210.23	1/2	3,935.86	1/2	3,643.81	1/2	3,341.62	1/2	2,981.39	1/2	2,621.00		
3/4		3/4		3/4		3/4	4,456.83	3/4	4,204.73	3/4	3,929.92	3/4	3,637.69	3/4	3,334.11	3/4	2,973.89	3/4	2,613.49		
2		2		2		2	4,451.83	2	4,199.24	2	3,923.98	2	3,631.57	2	3,326.61	2	2,966.38	2	2,605.98		
1/4		1/4		1/4		1/4	4,446.78	1/4	4,193.71	1/4	3,918.00	1/4	3,625.44	1/4	3,319.10	1/4	2,958.88	1/4	2,598.47		
1/2		1/2		1/2		1/2	4,441.74	1/2	4,188.18	1/2	3,912.03	1/2	3,619.32	1/2	3,311.59	1/2	2,951.38	1/2	2,590.96		
3/4		3/4		3/4		3/4	4,436.69	3/4	4,182.65	3/4	3,906.05	3/4	3,613.20	3/4	3,304.08	3/4	2,943.88	3/4	2,583.44		
3		3		3		3	4,431.65	3	4,177.13	3	3,900.07	3	3,607.08	3	3,296.57	3	2,936.37	3	2,575.93		
1/4		1/4		1/4		1/4	4,426.57	1/4	4,171.56	1/4	3,894.06	1/4	3,600.95	1/4	3,289.06	1/4	2,928.87	1/4	2,568.42		
1/2		1/2		1/2		1/2	4,421.48	1/2	4,165.99	1/2	3,888.04	1/2	3,594.83	1/2	3,281.55	1/2	2,921.37	1/2	2,560.91		
3/4		3/4		3/4		3/4	4,416.40	3/4	4,160.43	3/4	3,882.03	3/4	3,588.71	3/4	3,274.04	3/4	2,913.86	3/4	2,553.40		
4		4		4		4	4,411.32	4	4,154.86	4	3,876.01	4	3,582.59	4	3,266.53	4	2,906.36	4	2,545.89		
1/4		1/4		1/4		1/4	4,406.20	1/4	4,149.26	1/4	3,869.96	1/4	3,576.47	1/4	3,259.02	1/4	2,898.86	1/4	2,538.38		
1/2		1/2		1/2		1/2	4,401.08	1/2	4,143.65	1/2	3,863.91	1/2	3,570.34	1/2	3,251.51	1/2	2,891.35	1/2	2,530.87		
3/4		3/4		3/4		3/4	4,395.96	3/4	4,138.05	3/4	3,857.86	3/4	3,564.22	3/4	3,244.00	3/4	2,883.85	3/4	2,523.36		
5		5		5		5	4,390.84	5	4,132.44	5	3,851.80	5	3,558.10	5	3,236.49	5	2,876.35	5	2,515.85		
1/4		1/4		1/4		1/4	4,385.69	1/4	4,126.80	1/4	3,845.71	1/4	3,551.98	1/4	3,228.99	1/4	2,868.84	1/4	2,508.34		
1/2		1/2		1/2		1/2	4,380.53	1/2	4,121.16	1/2	3,839.63	1/2	3,545.86	1/2	3,221.49	1/2	2,861.33	1/2	2,500.83		
3/4		3/4		3/4		3/4	4,375.37	3/4	4,115.52	3/4	3,833.54	3/4	3,539.73	3/4	3,213.99	3/4	2,853.82	3/4	2,493.32		
6		6		6		6	4,370.22	6	4,109.88	6	3,827.45	6	3,533.61	6	3,206.48	6	2,846.31	6	2,485.81		
1/4		1/4		1/4		1/4	4,365.02	1/4	4,104.20	1/4	3,821.33	1/4	3,527.49	1/4	3,198.98	1/4	2,838.80	1/4	2,478.30		
1/2		1/2		1/2		1/2	4,359.83	1/2	4,098.52	1/2	3,815.22	1/2	3,521.37	1/2	3,191.48	1/2	2,831.28	1/2	2,470.79		
3/4		3/4		3/4		3/4	4,354.63	3/4	4,092.84	3/4	3,809.10	3/4	3,515.25	3/4	3,183.98	3/4	2,823.77	3/4	2,463.28		
7		7		7		7	4,349.44	7	4,087.17	7	3,802.98	7	3,509.12	7	3,176.47	7	2,816.26	7	2,455.77		
1/4		1/4		1/4		1/4	4,615.07	1/4	4,344.21	1/4	4,081.45	1/4	3,796.86	1/4	3,503.00	1/4	3,168.97	1/4	2,808.75	1/4	2,448.26
1/2		1/2		1/2		1/2	4,609.73	1/2	4,338.98	1/2	4,075.73	1/2	3,790.74	1/2	3,496.88	1/2	3,161.47	1/2	2,801.24	1/2	2,440.75
3/4		3/4		3/4		3/4	4,604.39	3/4	4,333.75	3/4	4,070.02	3/4	3,784.62	3/4	3,490.76	3/4	3,153.97	3/4	2,793.73	3/4	2,433.24
8		8		8		8	4,599.06	8	4,328.51	8	4,064.30	8	3,778.50	8	3,484.64	8	3,146.46	8	2,786.22	8	2,425.73
1/4		1/4		1/4		1/4	4,592.35	1/4	4,323.25	1/4	4,058.55	1/4	3,772.37	1/4	3,478.51	1/4	3,138.96	1/4	2,778.71	1/4	2,418.22
1/2		1/2		1/2		1/2	4,585.65	1/2	4,317.98	1/2	4,052.79	1/2	3,766.25	1/2	3,472.39	1/2	3,131.46	1/2	2,771.20	1/2	2,410.71
3/4		3/4		3/4		3/4	4,578.94	3/4	4,312.71	3/4	4,047.04	3/4	3,760.13	3/4	3,466.27	3/4	3,123.95	3/4	2,763.69	3/4	2,403.20
9		9		9		9	4,572.24	9	4,307.44	9	4,041.29	9	3,754.01	9	3,460.15	9	3,116.45	9	2,756.18	9	2,395.69
1/4		1/4		1/4		1/4	4,564.85	1/4	4,302.13	1/4	4,035.50	1/4	3,747.89	1/4	3,454.02	1/4	3,108.95	1/4	2,748.67	1/4	2,388.18
1/2		1/2		1/2		1/2	4,557.47	1/2	4,296.83	1/2	4,029.71	1/2	3,741.76	1/2	3,447.90	1/2	3,101.44	1/2	2,741.16	1/2	2,380.67
3/4		3/4		3/4		3/4	4,550.08	3/4	4,291.52	3/4	4,023.92	3/4	3,735.64	3/4	3,441.78	3/4	3,093.94	3/4	2,733.65	3/4	2,373.16
10		10		10		10	4,542.69	10	4,286.21	10	4,018.13	10	3,729.52	10	3,435.66	10	3,086.44	10	2,726.14	10	2,365.65
1/4		1/4		1/4		1/4	4,536.61	1/4	4,280.83	1/4	4,012.30	1/4	3,723.40	1/4	3,429.54	1/4	3,078.93	1/4	2,718.63	1/4	2,358.14
1/2		1/2		1/2		1/2	4,530.52	1/2	4,275.46	1/2	4,006.47	1/2	3,717.27	1/2	3,423.41	1/2	3,071.43	1/2	2,711.12	1/2	2,350.63
3/4		3/4		3/4		3/4	4,524.43	3/4	4,270.08	3/4	4,000.64	3/4	3,711.15	3/4	3,417.29	3/4	3,063.93	3/4	2,703.61	3/4	2,343.12
11		11		11		11	4,518.35	11	4,264.70	11	3,994.81	11	3,705.03	11	3,411.17	11	3,056.42	11	2,696.10	11	2,335.61
1/4		1/4		1/4		1/4	4,512.26	1/4	4,259.28	1/4	3,988.95	1/4	3,698.91	1/4	3,405.05	1/4	3,048.92	1/4	2,688.59	1/4	2,328.09
1/2		1/2		1/2		1/2	4,506.18	1/2	4,253.86	1/2	3,983.08	1/2	3,692.79	1/2	3,398.93	1/2	3,041.42	1/2	2,681.08	1/2	2,320.58
3/4		3/4		3/4		3/4	4,500.09	3/4	4,248.44	3/4	3,977.22	3/4	3,686.66	3/4	3,392.80	3/4	3,033.91	3/4	2,673.57	3/4	2,313.07

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 45'-00" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT  
& ANALYSIS, INC.

P.O. Box 2092  
Pearland, Texas 77588

<http://www.pmacorp.net>



# BARGE "EMS 388"

## 3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-05"

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	2,305.56	0	1,945.48	0	1,585.73	0	1,225.39	0	865.24	0	517.52	0	158.11	0		0		0	
1/4	2,298.05	1/4	1,938.00	1/4	1,578.22	1/4	1,217.89	1/4	857.74	1/4	510.29	1/4	150.60	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,290.54	1/2	1,930.51	1/2	1,570.72	1/2	1,210.38	1/2	850.24	1/2	503.06	1/2	143.09	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,283.03	3/4	1,923.02	3/4	1,563.21	3/4	1,202.87	3/4	842.74	3/4	495.83	3/4	135.58	3/4	3/4	3/4	3/4	3/4	3/4
1	2,275.52	1	1,915.53	1	1,555.70	1	1,195.37	1	835.25	1	488.60	1	128.07	1	1	1	1	1	1
1/4	2,268.01	1/4	1,908.05	1/4	1,548.20	1/4	1,187.86	1/4	828.03	1/4	481.09	1/4	120.55	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,260.50	1/2	1,900.56	1/2	1,540.69	1/2	1,180.35	1/2	820.80	1/2	473.58	1/2	113.04	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,252.99	3/4	1,893.07	3/4	1,533.18	3/4	1,172.85	3/4	813.58	3/4	466.07	3/4	105.53	3/4	3/4	3/4	3/4	3/4	3/4
2	2,245.48	2	1,885.58	2	1,525.67	2	1,165.34	2	806.36	2	458.56	2	98.02	2	2	2	2	2	2
1/4	2,237.97	1/4	1,878.10	1/4	1,518.17	1/4	1,157.83	1/4	799.14	1/4	451.05	1/4	90.51	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,230.46	1/2	1,870.61	1/2	1,510.66	1/2	1,150.32	1/2	791.92	1/2	443.54	1/2	83.00	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,222.95	3/4	1,863.12	3/4	1,503.15	3/4	1,142.82	3/4	784.70	3/4	436.02	3/4	75.49	3/4	3/4	3/4	3/4	3/4	3/4
3	2,215.44	3	1,855.63	3	1,495.65	3	1,135.31	3	777.48	3	428.51	3	67.98	3	3	3	3	3	3
1/4	2,207.93	1/4	1,848.15	1/4	1,488.14	1/4	1,127.80	1/4	770.25	1/4	421.00	1/4	60.73	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,200.42	1/2	1,840.66	1/2	1,480.63	1/2	1,120.30	1/2	763.02	1/2	413.49	1/2	53.49	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,192.91	3/4	1,833.17	3/4	1,473.13	3/4	1,112.79	3/4	755.79	3/4	405.98	3/4	46.25	3/4	3/4	3/4	3/4	3/4	3/4
4	2,185.40	4	1,825.68	4	1,465.62	4	1,105.28	4	748.55	4	398.47	4	39.00	4	4	4	4	4	4
1/4	2,177.89	1/4	1,818.20	1/4	1,458.11	1/4	1,097.78	1/4	741.33	1/4	390.96	1/4	33.64	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,170.38	1/2	1,810.71	1/2	1,450.60	1/2	1,090.27	1/2	734.11	1/2	383.45	1/2	28.28	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,162.87	3/4	1,803.22	3/4	1,443.10	3/4	1,082.76	3/4	726.89	3/4	375.93	3/4	22.91	3/4	3/4	3/4	3/4	3/4	3/4
5	2,155.36	5	1,795.74	5	1,435.59	5	1,075.25	5	719.67	5	368.42	5	17.55	5	5	5	5	5	5
1/4	2,147.85	1/4	1,788.25	1/4	1,428.08	1/4	1,067.75	1/4	712.45	1/4	360.91	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,140.34	1/2	1,780.76	1/2	1,420.58	1/2	1,060.24	1/2	705.23	1/2	353.40	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,132.83	3/4	1,773.27	3/4	1,413.07	3/4	1,052.73	3/4	698.01	3/4	345.89	3/4		3/4	3/4	3/4	3/4	3/4	3/4
6	2,125.32	6	1,765.79	6	1,405.56	6	1,045.23	6	690.79	6	338.38	6		6	6	6	6	6	6
1/4	2,117.81	1/4	1,758.30	1/4	1,398.06	1/4	1,037.72	1/4	683.57	1/4	330.87	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,110.30	1/2	1,750.81	1/2	1,390.55	1/2	1,030.21	1/2	676.35	1/2	323.36	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,102.79	3/4	1,743.32	3/4	1,383.04	3/4	1,022.71	3/4	669.13	3/4	315.85	3/4		3/4	3/4	3/4	3/4	3/4	3/4
7	2,095.28	7	1,735.84	7	1,375.53	7	1,015.20	7	661.91	7	308.33	7		7	7	7	7	7	7
1/4	2,087.78	1/4	1,728.34	1/4	1,368.03	1/4	1,007.70	1/4	654.69	1/4	300.82	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,080.28	1/2	1,720.84	1/2	1,360.52	1/2	1,000.20	1/2	647.47	1/2	293.31	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,072.78	3/4	1,713.34	3/4	1,353.01	3/4	992.70	3/4	640.26	3/4	285.80	3/4		3/4	3/4	3/4	3/4	3/4	3/4
8	2,065.28	8	1,705.84	8	1,345.51	8	985.21	8	633.04	8	278.29	8		8	8	8	8	8	8
1/4	2,057.79	1/4	1,698.34	1/4	1,338.00	1/4	977.71	1/4	625.82	1/4	270.78	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,050.31	1/2	1,690.83	1/2	1,330.49	1/2	970.21	1/2	618.61	1/2	263.27	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,042.82	3/4	1,683.32	3/4	1,322.99	3/4	962.71	3/4	611.39	3/4	255.76	3/4		3/4	3/4	3/4	3/4	3/4	3/4
9	2,035.33	9	1,675.81	9	1,315.48	9	955.21	9	604.17	9	248.24	9		9	9	9	9	9	9
1/4	2,027.84	1/4	1,668.31	1/4	1,307.97	1/4	947.72	1/4	596.95	1/4	240.73	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,020.36	1/2	1,660.80	1/2	1,300.46	1/2	940.22	1/2	589.73	1/2	233.22	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,012.87	3/4	1,653.29	3/4	1,292.96	3/4	932.72	3/4	582.51	3/4	225.71	3/4		3/4	3/4	3/4	3/4	3/4	3/4
10	2,005.38	10	1,645.79	10	1,285.45	10	925.22	10	575.29	10	218.20	10		10	10	10	10	10	10
1/4	1,997.89	1/4	1,638.28	1/4	1,277.94	1/4	917.72	1/4	568.07	1/4	210.69	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,990.41	1/2	1,630.77	1/2	1,270.44	1/2	910.23	1/2	560.85	1/2	203.18	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,982.92	3/4	1,623.27	3/4	1,262.93	3/4	902.73	3/4	553.63	3/4	195.67	3/4		3/4	3/4	3/4	3/4	3/4	3/4
11	1,975.43	11	1,615.76	11	1,255.42	11	895.23	11	546.41	11	188.15	11		11	11	11	11	11	11
1/4	1,967.95	1/4	1,608.25	1/4	1,247.92	1/4	887.73	1/4	539.19	1/4	180.64	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,960.46	1/2	1,600.74	1/2	1,240.41	1/2	880.23	1/2	531.97	1/2	173.13	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,952.97	3/4	1,593.24	3/4	1,232.90	3/4	872.74	3/4	524.75	3/4	165.62	3/4		3/4	3/4	3/4	3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 01/17/2014 CL  
CALCULATED: 01/18/2014 CL  
PRINTED: 01/19/2014 SW

CANCELS AND SUPERCEDES  
ALL PRIOR TO 01/2014

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



# BARGE "EMS 388"

## 3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-04 3/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0		0		0	4,485.36	0	4,234.34	0	3,962.10	0	3,670.95	0	3,375.59	0	3,015.76	0	2,655.83
1/4		1/4		1/4		1/4	4,479.82	1/4	4,228.89	1/4	3,956.20	1/4	3,664.83	1/4	3,368.09	1/4	3,008.26	1/4	2,648.33
1/2		1/2		1/2		1/2	4,474.28	1/2	4,223.43	1/2	3,950.29	1/2	3,658.70	1/2	3,360.59	1/2	3,000.77	1/2	2,640.82
3/4		3/4		3/4		3/4	4,468.74	3/4	4,217.97	3/4	3,944.39	3/4	3,652.58	3/4	3,353.09	3/4	2,993.28	3/4	2,633.32
1		1		1		1	4,463.73	1	4,212.48	1	3,938.44	1	3,646.46	1	3,345.59	1	2,985.78	1	2,625.82
1/4		1/4		1/4		1/4	4,458.72	1/4	4,206.99	1/4	3,932.50	1/4	3,640.33	1/4	3,338.09	1/4	2,978.29	1/4	2,618.32
1/2		1/2		1/2		1/2	4,453.71	1/2	4,201.49	1/2	3,926.56	1/2	3,634.21	1/2	3,330.59	1/2	2,970.79	1/2	2,610.82
3/4		3/4		3/4		3/4	4,448.70	3/4	4,196.00	3/4	3,920.62	3/4	3,628.08	3/4	3,323.09	3/4	2,963.30	3/4	2,603.32
2		2		2		2	4,443.65	2	4,190.46	2	3,914.64	2	3,621.96	2	3,315.59	2	2,955.80	2	2,595.82
1/4		1/4		1/4		1/4	4,438.60	1/4	4,184.93	1/4	3,908.66	1/4	3,615.83	1/4	3,308.09	1/4	2,948.31	1/4	2,588.31
1/2		1/2		1/2		1/2	4,433.56	1/2	4,179.40	1/2	3,902.68	1/2	3,609.71	1/2	3,300.59	1/2	2,940.82	1/2	2,580.81
3/4		3/4		3/4		3/4	4,428.51	3/4	4,173.87	3/4	3,896.70	3/4	3,603.58	3/4	3,293.09	3/4	2,933.32	3/4	2,573.31
3		3		3		3	4,423.43	3	4,168.30	3	3,890.68	3	3,597.46	3	3,285.59	3	2,925.83	3	2,565.81
1/4		1/4		1/4		1/4	4,418.34	1/4	4,162.73	1/4	3,884.66	1/4	3,591.33	1/4	3,278.09	1/4	2,918.33	1/4	2,558.31
1/2		1/2		1/2		1/2	4,413.26	1/2	4,157.16	1/2	3,878.64	1/2	3,585.21	1/2	3,270.58	1/2	2,910.84	1/2	2,550.81
3/4		3/4		3/4		3/4	4,408.17	3/4	4,151.59	3/4	3,872.63	3/4	3,579.08	3/4	3,263.08	3/4	2,903.34	3/4	2,543.31
4		4		4		4	4,403.05	4	4,145.99	4	3,866.57	4	3,572.96	4	3,255.58	4	2,895.85	4	2,535.81
1/4		1/4		1/4		1/4	4,397.93	1/4	4,140.38	1/4	3,860.52	1/4	3,566.83	1/4	3,248.08	1/4	2,888.36	1/4	2,528.32
1/2		1/2		1/2		1/2	4,392.81	1/2	4,134.78	1/2	3,854.46	1/2	3,560.71	1/2	3,240.58	1/2	2,880.86	1/2	2,520.83
3/4		3/4		3/4		3/4	4,387.69	3/4	4,129.17	3/4	3,848.41	3/4	3,554.59	3/4	3,233.08	3/4	2,873.37	3/4	2,513.34
5		5		5		5	4,382.53	5	4,123.52	5	3,842.32	5	3,548.46	5	3,225.59	5	2,865.87	5	2,505.84
1/4		1/4		1/4		1/4	4,377.37	1/4	4,117.88	1/4	3,836.22	1/4	3,542.34	1/4	3,218.10	1/4	2,858.37	1/4	2,498.35
1/2		1/2		1/2		1/2	4,372.21	1/2	4,112.24	1/2	3,830.13	1/2	3,536.21	1/2	3,210.60	1/2	2,850.86	1/2	2,490.86
3/4		3/4		3/4		3/4	4,367.05	3/4	4,106.59	3/4	3,824.04	3/4	3,530.09	3/4	3,203.11	3/4	2,843.36	3/4	2,483.37
6		6		6		6	4,361.85	6	4,100.91	6	3,817.92	6	3,523.96	6	3,195.62	6	2,835.86	6	2,475.87
1/4		1/4		1/4		1/4	4,356.66	1/4	4,095.23	1/4	3,811.81	1/4	3,517.84	1/4	3,188.12	1/4	2,828.36	1/4	2,468.38
1/2		1/2		1/2		1/2	4,351.46	1/2	4,089.55	1/2	3,805.69	1/2	3,511.71	1/2	3,180.63	1/2	2,820.86	1/2	2,460.89
3/4		3/4		3/4		3/4	4,346.26	3/4	4,083.87	3/4	3,799.57	3/4	3,505.59	3/4	3,173.14	3/4	2,813.36	3/4	2,453.40
7		7		7	4,612.00	7	4,341.03	7	4,078.15	7	3,793.45	7	3,499.46	7	3,165.64	7	2,805.86	7	2,445.91
1/4		1/4		1/4	4,606.66	1/4	4,335.80	1/4	4,072.43	1/4	3,787.32	1/4	3,493.34	1/4	3,158.15	1/4	2,798.35	1/4	2,438.41
1/2		1/2		1/2	4,601.32	1/2	4,330.56	1/2	4,066.71	1/2	3,781.20	1/2	3,487.21	1/2	3,150.65	1/2	2,790.85	1/2	2,430.92
3/4		3/4		3/4	4,595.98	3/4	4,325.33	3/4	4,061.00	3/4	3,775.07	3/4	3,481.09	3/4	3,143.16	3/4	2,783.35	3/4	2,423.43
8		8		8	4,589.28	8	4,320.06	8	4,055.24	8	3,768.95	8	3,474.96	8	3,135.66	8	2,775.85	8	2,415.94
1/4		1/4		1/4	4,582.57	1/4	4,314.79	1/4	4,049.48	1/4	3,762.82	1/4	3,468.84	1/4	3,128.17	1/4	2,768.35	1/4	2,408.44
1/2		1/2		1/2	4,575.87	1/2	4,309.51	1/2	4,043.73	1/2	3,756.70	1/2	3,462.71	1/2	3,120.68	1/2	2,760.85	1/2	2,400.95
3/4		3/4		3/4	4,569.16	3/4	4,304.24	3/4	4,037.97	3/4	3,750.58	3/4	3,456.59	3/4	3,113.18	3/4	2,753.35	3/4	2,393.46
9		9		9	4,561.77	9	4,298.93	9	4,032.18	9	3,744.45	9	3,450.47	9	3,105.69	9	2,745.84	9	2,385.97
1/4		1/4		1/4	4,554.38	1/4	4,293.63	1/4	4,026.39	1/4	3,738.33	1/4	3,444.34	1/4	3,098.19	1/4	2,738.34	1/4	2,378.47
1/2		1/2		1/2	4,546.99	1/2	4,288.32	1/2	4,020.59	1/2	3,732.20	1/2	3,438.22	1/2	3,090.70	1/2	2,730.84	1/2	2,370.98
3/4		3/4		3/4	4,539.60	3/4	4,283.01	3/4	4,014.80	3/4	3,726.08	3/4	3,432.09	3/4	3,083.21	3/4	2,723.34	3/4	2,363.49
10		10		10	4,533.51	10	4,277.63	10	4,008.97	10	3,719.95	10	3,425.97	10	3,075.71	10	2,715.84	10	2,356.00
1/4		1/4		1/4	4,527.43	1/4	4,272.24	1/4	4,003.14	1/4	3,713.83	1/4	3,419.84	1/4	3,068.22	1/4	2,708.34	1/4	2,348.50
1/2		1/2		1/2	4,521.34	1/2	4,266.86	1/2	3,997.31	1/2	3,707.70	1/2	3,413.72	1/2	3,060.72	1/2	2,700.84	1/2	2,341.01
3/4		3/4		3/4	4,515.25	3/4	4,261.48	3/4	3,991.48	3/4	3,701.58	3/4	3,407.59	3/4	3,053.23	3/4	2,693.33	3/4	2,333.52
11		11		11	4,509.16	11	4,256.06	11	3,985.61	11	3,695.45	11	3,401.47	11	3,045.73	11	2,685.83	11	2,326.03
1/4		1/4		1/4	4,503.07	1/4	4,250.64	1/4	3,979.74	1/4	3,689.33	1/4	3,395.34	1/4	3,038.24	1/4	2,678.33	1/4	2,318.53
1/2		1/2		1/2	4,496.98	1/2	4,245.22	1/2	3,973.87	1/2	3,683.20	1/2	3,389.22	1/2	3,030.75	1/2	2,670.83	1/2	2,311.04
3/4		3/4		3/4	4,490.90	3/4	4,239.80	3/4	3,968.01	3/4	3,677.08	3/4	3,383.09	3/4	3,023.25	3/4	2,663.33	3/4	2,303.55

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.

CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.

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

GAUGE POINT: (HERMETIC) LOCATED 12'-06" OFF CENTERLINE AND 45'-00" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT  
& ANALYSIS, INC.

P.O. Box 2092  
Pearland, Texas 77588

<http://www.pmacorp.net>



# BARGE "EMS 388"

## 3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-04 3/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,296.05	0	1,937.37	0	1,579.52	0	1,219.54	0	859.56	0	509.91	0	150.48	0		0		0	
1/4	2,288.54	1/4	1,929.94	1/4	1,572.02	1/4	1,212.04	1/4	852.06	1/4	502.64	1/4	142.98	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,281.04	1/2	1,922.51	1/2	1,564.52	1/2	1,204.54	1/2	844.56	1/2	495.36	1/2	135.48	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,273.54	3/4	1,915.09	3/4	1,557.02	3/4	1,197.04	3/4	837.06	3/4	488.08	3/4	127.97	3/4	3/4	3/4	3/4	3/4	3/4
1	2,266.03	1	1,907.66	1	1,549.52	1	1,189.54	1	829.78	1	480.58	1	120.47	1	1	1	1	1	1
1/4	2,258.53	1/4	1,900.24	1/4	1,542.02	1/4	1,182.04	1/4	822.50	1/4	473.08	1/4	112.97	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,251.03	1/2	1,892.81	1/2	1,534.52	1/2	1,174.54	1/2	815.22	1/2	465.58	1/2	105.47	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,243.53	3/4	1,885.38	3/4	1,527.02	3/4	1,167.04	3/4	807.95	3/4	458.07	3/4	97.96	3/4	3/4	3/4	3/4	3/4	3/4
2	2,236.02	2	1,877.96	2	1,519.52	2	1,159.54	2	800.67	2	450.57	2	90.46	2	2	2	2	2	2
1/4	2,228.52	1/4	1,870.53	1/4	1,512.02	1/4	1,152.04	1/4	793.39	1/4	443.07	1/4	82.96	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,221.02	1/2	1,863.11	1/2	1,504.52	1/2	1,144.54	1/2	786.11	1/2	435.57	1/2	75.46	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,213.51	3/4	1,855.68	3/4	1,497.02	3/4	1,137.04	3/4	778.83	3/4	428.07	3/4	67.95	3/4	3/4	3/4	3/4	3/4	3/4
3	2,206.01	3	1,848.25	3	1,489.52	3	1,129.54	3	771.55	3	420.56	3	60.72	3	3	3	3	3	3
1/4	2,198.51	1/4	1,840.83	1/4	1,482.02	1/4	1,122.04	1/4	764.28	1/4	413.06	1/4	53.49	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,191.01	1/2	1,833.40	1/2	1,474.52	1/2	1,114.54	1/2	757.00	1/2	405.56	1/2	46.25	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,183.50	3/4	1,825.98	3/4	1,467.02	3/4	1,107.04	3/4	749.72	3/4	398.06	3/4	39.02	3/4	3/4	3/4	3/4	3/4	3/4
4	2,176.00	4	1,818.55	4	1,459.52	4	1,099.54	4	742.45	4	390.55	4	33.65	4	4	4	4	4	4
1/4	2,168.50	1/4	1,811.12	1/4	1,452.03	1/4	1,092.04	1/4	735.19	1/4	383.05	1/4	28.29	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,160.99	1/2	1,803.70	1/2	1,444.53	1/2	1,084.54	1/2	727.92	1/2	375.55	1/2	22.92	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,153.49	3/4	1,796.27	3/4	1,437.03	3/4	1,077.05	3/4	720.65	3/4	368.05	3/4	17.55	3/4	3/4	3/4	3/4	3/4	3/4
5	2,145.99	5	1,788.85	5	1,429.53	5	1,069.55	5	713.38	5	360.54	5		5	5	5	5	5	5
1/4	2,138.49	1/4	1,781.42	1/4	1,422.03	1/4	1,062.05	1/4	706.11	1/4	353.04	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,130.98	1/2	1,773.99	1/2	1,414.53	1/2	1,054.55	1/2	698.85	1/2	345.54	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,123.48	3/4	1,766.57	3/4	1,407.03	3/4	1,047.05	3/4	691.58	3/4	338.04	3/4		3/4	3/4	3/4	3/4	3/4	3/4
6	2,115.98	6	1,759.14	6	1,399.53	6	1,039.55	6	684.31	6	330.54	6		6	6	6	6	6	6
1/4	2,108.47	1/4	1,751.72	1/4	1,392.03	1/4	1,032.05	1/4	677.04	1/4	323.03	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,100.97	1/2	1,744.29	1/2	1,384.53	1/2	1,024.55	1/2	669.78	1/2	315.53	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,093.47	3/4	1,736.86	3/4	1,377.03	3/4	1,017.05	3/4	662.51	3/4	308.03	3/4		3/4	3/4	3/4	3/4	3/4	3/4
7	2,086.00	7	1,729.40	7	1,369.53	7	1,009.55	7	655.25	7	300.53	7		7	7	7	7	7	7
1/4	2,078.54	1/4	1,721.94	1/4	1,362.03	1/4	1,002.05	1/4	647.98	1/4	293.02	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,071.07	1/2	1,714.47	1/2	1,354.53	1/2	994.55	1/2	640.72	1/2	285.52	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,063.61	3/4	1,707.01	3/4	1,347.03	3/4	987.05	3/4	633.46	3/4	278.02	3/4		3/4	3/4	3/4	3/4	3/4	3/4
8	2,056.18	8	1,699.51	8	1,339.53	8	979.55	8	626.19	8	270.52	8		8	8	8	8	8	8
1/4	2,048.76	1/4	1,692.01	1/4	1,332.03	1/4	972.05	1/4	618.93	1/4	263.01	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,041.33	1/2	1,684.51	1/2	1,324.53	1/2	964.55	1/2	611.67	1/2	255.51	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,033.90	3/4	1,677.01	3/4	1,317.03	3/4	957.05	3/4	604.40	3/4	248.01	3/4		3/4	3/4	3/4	3/4	3/4	3/4
9	2,026.48	9	1,669.51	9	1,309.53	9	949.55	9	597.14	9	240.51	9		9	9	9	9	9	9
1/4	2,019.05	1/4	1,662.01	1/4	1,302.03	1/4	942.05	1/4	589.87	1/4	233.01	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,011.63	1/2	1,654.51	1/2	1,294.53	1/2	934.55	1/2	582.60	1/2	225.50	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,004.20	3/4	1,647.01	3/4	1,287.03	3/4	927.05	3/4	575.33	3/4	218.00	3/4		3/4	3/4	3/4	3/4	3/4	3/4
10	1,996.77	10	1,639.52	10	1,279.53	10	919.55	10	568.06	10	210.50	10		10	10	10	10	10	10
1/4	1,989.35	1/4	1,632.02	1/4	1,272.03	1/4	912.05	1/4	560.80	1/4	203.00	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,981.92	1/2	1,624.52	1/2	1,264.54	1/2	904.55	1/2	553.53	1/2	195.49	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,974.50	3/4	1,617.02	3/4	1,257.04	3/4	897.05	3/4	546.26	3/4	187.99	3/4		3/4	3/4	3/4	3/4	3/4	3/4
11	1,967.07	11	1,609.52	11	1,249.54	11	889.56	11	538.99	11	180.49	11		11	11	11	11	11	11
1/4	1,959.64	1/4	1,602.02	1/4	1,242.04	1/4	882.06	1/4	531.73	1/4	172.99	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,952.22	1/2	1,594.52	1/2	1,234.54	1/2	874.56	1/2	524.46	1/2	165.48	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,944.79	3/4	1,587.02	3/4	1,227.04	3/4	867.06	3/4	517.19	3/4	157.98	3/4		3/4	3/4	3/4	3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 01/17/2014 CL  
CALCULATED: 01/18/2014 CL  
PRINTED: 01/19/2014 SW

CANCELS AND SUPERCEDES  
ALL PRIOR TO 01/2014

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



# BARGE "EMS 388"

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

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

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

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

LENGTH BETWEEN DRAFT MARKS: 236'-00"

January 17, 2014

PRECISION MEASUREMENT  
 & ANALYSIS, INC.

P.O. Box 2092  
 Pearland, Texas 77588

<http://www.pmacorp.net>



# BARGE "EMS 388"

## 1 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 14'-10"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	16.18	0	267.96	0	552.25	0	859.06	0	1,186.96	0	1,518.52	0	1,850.07	0	2,181.63	0	2,513.18	0	2,844.73
1/4	19.42	1/4	273.66	1/4	558.44	1/4	865.70	1/4	1,193.87	1/4	1,525.42	1/4	1,856.98	1/4	2,188.53	1/4	2,520.09	1/4	2,851.63
1/2	22.65	1/2	279.36	1/2	564.63	1/2	872.34	1/2	1,200.78	1/2	1,532.33	1/2	1,863.89	1/2	2,195.44	1/2	2,527.00	1/2	2,858.54
3/4	25.88	3/4	285.05	3/4	570.82	3/4	878.98	3/4	1,207.68	3/4	1,539.24	3/4	1,870.79	3/4	2,202.35	3/4	2,533.90	3/4	2,865.45
1	29.11	1	290.75	1	577.01	1	885.62	1	1,214.59	1	1,546.15	1	1,877.70	1	2,209.26	1	2,540.81	1	2,872.35
1/4	34.11	1/4	296.49	1/4	583.24	1/4	892.30	1/4	1,221.50	1/4	1,553.05	1/4	1,884.61	1/4	2,216.16	1/4	2,547.72	1/4	2,879.26
1/2	39.11	1/2	302.23	1/2	589.47	1/2	898.98	1/2	1,228.41	1/2	1,559.96	1/2	1,891.52	1/2	2,223.07	1/2	2,554.63	1/2	2,886.17
3/4	44.10	3/4	307.96	3/4	595.70	3/4	905.66	3/4	1,235.31	3/4	1,566.87	3/4	1,898.42	3/4	2,229.98	3/4	2,561.53	3/4	2,893.07
2	49.10	2	313.70	2	601.93	2	912.34	2	1,242.22	2	1,573.78	2	1,905.33	2	2,236.89	2	2,568.44	2	2,899.98
1/4	54.39	1/4	319.48	1/4	608.20	1/4	919.07	1/4	1,249.13	1/4	1,580.68	1/4	1,912.24	1/4	2,243.79	1/4	2,575.35	1/4	2,906.89
1/2	59.68	1/2	325.26	1/2	614.47	1/2	925.79	1/2	1,256.04	1/2	1,587.59	1/2	1,919.15	1/2	2,250.70	1/2	2,582.26	1/2	2,913.79
3/4	64.96	3/4	331.04	3/4	620.74	3/4	932.51	3/4	1,262.94	3/4	1,594.50	3/4	1,926.05	3/4	2,257.61	3/4	2,589.16	3/4	2,920.70
3	70.25	3	336.82	3	627.01	3	939.23	3	1,269.85	3	1,601.41	3	1,932.96	3	2,264.52	3	2,596.07	3	2,927.60
1/4	75.58	1/4	342.64	1/4	633.33	1/4	946.01	1/4	1,276.76	1/4	1,608.31	1/4	1,939.87	1/4	2,271.42	1/4	2,602.98	1/4	2,934.51
1/2	80.91	1/2	348.46	1/2	639.64	1/2	952.79	1/2	1,283.66	1/2	1,615.22	1/2	1,946.78	1/2	2,278.33	1/2	2,609.89	1/2	2,941.42
3/4	86.23	3/4	354.28	3/4	645.95	3/4	959.57	3/4	1,290.57	3/4	1,622.13	3/4	1,953.68	3/4	2,285.24	3/4	2,616.79	3/4	2,948.32
4	91.56	4	360.10	4	652.26	4	966.35	4	1,297.48	4	1,629.03	4	1,960.59	4	2,292.15	4	2,623.70	4	2,955.23
1/4	96.93	1/4	365.96	1/4	658.62	1/4	973.17	1/4	1,304.39	1/4	1,635.94	1/4	1,967.50	1/4	2,299.05	1/4	2,630.61	1/4	2,962.14
1/2	102.30	1/2	371.82	1/2	664.97	1/2	979.99	1/2	1,311.29	1/2	1,642.85	1/2	1,974.40	1/2	2,305.96	1/2	2,637.52	1/2	2,969.04
3/4	107.67	3/4	377.68	3/4	671.32	3/4	986.82	3/4	1,318.20	3/4	1,649.76	3/4	1,981.31	3/4	2,312.87	3/4	2,644.42	3/4	2,975.95
5	113.04	5	383.54	5	677.68	5	993.64	5	1,325.11	5	1,656.66	5	1,988.22	5	2,319.77	5	2,651.33	5	2,982.85
1/4	118.45	1/4	389.45	1/4	684.04	1/4	1,000.52	1/4	1,332.02	1/4	1,663.57	1/4	1,995.13	1/4	2,326.68	1/4	2,658.24	1/4	2,989.76
1/2	123.86	1/2	395.35	1/2	690.41	1/2	1,007.41	1/2	1,338.92	1/2	1,670.48	1/2	2,002.03	1/2	2,333.59	1/2	2,665.14	1/2	2,996.67
3/4	129.27	3/4	401.25	3/4	696.77	3/4	1,014.30	3/4	1,345.83	3/4	1,677.39	3/4	2,008.94	3/4	2,340.50	3/4	2,672.05	3/4	3,003.57
6	134.68	6	407.15	6	703.14	6	1,021.18	6	1,352.74	6	1,684.29	6	2,015.85	6	2,347.40	6	2,678.96	6	3,010.48
1/4	140.13	1/4	413.10	1/4	709.54	1/4	1,028.09	1/4	1,359.65	1/4	1,691.20	1/4	2,022.76	1/4	2,354.31	1/4	2,685.87	1/4	3,017.39
1/2	145.58	1/2	419.04	1/2	715.95	1/2	1,035.00	1/2	1,366.55	1/2	1,698.11	1/2	2,029.66	1/2	2,361.22	1/2	2,692.77	1/2	3,024.29
3/4	151.03	3/4	424.98	3/4	722.36	3/4	1,041.91	3/4	1,373.46	3/4	1,705.02	3/4	2,036.57	3/4	2,368.13	3/4	2,699.68	3/4	3,031.20
7	156.48	7	430.92	7	728.76	7	1,048.81	7	1,380.37	7	1,711.92	7	2,043.48	7	2,375.03	7	2,706.59	7	3,038.10
1/4	161.97	1/4	436.91	1/4	735.20	1/4	1,055.72	1/4	1,387.28	1/4	1,718.83	1/4	2,050.39	1/4	2,381.94	1/4	2,713.50	1/4	3,045.01
1/2	167.47	1/2	442.89	1/2	741.63	1/2	1,062.63	1/2	1,394.18	1/2	1,725.74	1/2	2,057.29	1/2	2,388.85	1/2	2,720.40	1/2	3,051.92
3/4	172.96	3/4	448.88	3/4	748.07	3/4	1,069.54	3/4	1,401.09	3/4	1,732.65	3/4	2,064.20	3/4	2,395.76	3/4	2,727.31	3/4	3,058.82
8	178.45	8	454.86	8	754.50	8	1,076.44	8	1,408.00	8	1,739.55	8	2,071.11	8	2,402.66	8	2,734.22	8	3,065.73
1/4	183.98	1/4	460.89	1/4	760.98	1/4	1,083.35	1/4	1,414.91	1/4	1,746.46	1/4	2,078.02	1/4	2,409.57	1/4	2,741.13	1/4	3,072.64
1/2	189.52	1/2	466.91	1/2	767.45	1/2	1,090.26	1/2	1,421.81	1/2	1,753.37	1/2	2,084.92	1/2	2,416.48	1/2	2,748.03	1/2	3,079.54
3/4	195.05	3/4	472.94	3/4	773.93	3/4	1,097.17	3/4	1,428.72	3/4	1,760.28	3/4	2,091.83	3/4	2,423.39	3/4	2,754.94	3/4	3,086.45
9	200.58	9	478.96	9	780.41	9	1,104.07	9	1,435.63	9	1,767.18	9	2,098.74	9	2,430.29	9	2,761.85	9	3,093.36
1/4	206.16	1/4	485.03	1/4	786.92	1/4	1,110.98	1/4	1,442.54	1/4	1,774.09	1/4	2,105.65	1/4	2,437.20	1/4	2,768.76	1/4	3,100.26
1/2	211.73	1/2	491.09	1/2	793.44	1/2	1,117.89	1/2	1,449.44	1/2	1,781.00	1/2	2,112.55	1/2	2,444.11	1/2	2,775.66	1/2	3,107.17
3/4	217.30	3/4	497.16	3/4	799.96	3/4	1,124.79	3/4	1,456.35	3/4	1,787.91	3/4	2,119.46	3/4	2,451.02	3/4	2,782.57	3/4	3,114.07
10	222.88	10	503.23	10	806.47	10	1,131.70	10	1,463.26	10	1,794.81	10	2,126.37	10	2,457.92	10	2,789.48	10	3,120.98
1/4	228.49	1/4	509.33	1/4	813.03	1/4	1,138.61	1/4	1,470.16	1/4	1,801.72	1/4	2,133.28	1/4	2,464.83	1/4	2,796.38	1/4	3,127.89
1/2	234.11	1/2	515.44	1/2	819.58	1/2	1,145.52	1/2	1,477.07	1/2	1,808.63	1/2	2,140.18	1/2	2,471.74	1/2	2,803.29	1/2	3,134.79
3/4	239.72	3/4	521.55	3/4	826.13	3/4	1,152.42	3/4	1,483.98	3/4	1,815.53	3/4	2,147.09	3/4	2,478.65	3/4	2,810.20	3/4	3,141.70
11	245.34	11	527.66	11	832.68	11	1,159.33	11	1,490.89	11	1,822.44	11	2,154.00	11	2,485.55	11	2,817.10	11	3,148.61
1/4	250.99	1/4	533.80	1/4	839.29	1/4	1,166.24	1/4	1,497.79	1/4	1,829.35	1/4	2,160.90	1/4	2,492.46	1/4	2,824.01	1/4	3,155.51
1/2	256.65	1/2	539.95	1/2	845.87	1/2	1,173.15	1/2	1,504.70	1/2	1,836.26	1/2	2,167.81	1/2	2,499.37	1/2	2,830.92	1/2	3,162.42
3/4	262.31	3/4	546.10	3/4	852.47	3/4	1,180.05	3/4	1,511.61	3/4	1,843.16	3/4	2,174.72	3/4	2,506.27	3/4	2,837.82	3/4	3,169.32

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.  
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.  
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.  
 CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN TO TOP OF 2" DIAMETER "HERMETIC" VALVE.  
 GAUGE POINT: (HERMETIC) LOCATED 12'-06" OFF CENTERLINE AND 44'-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 388"

## 1 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 14'-10"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	3,176.23	0	3,507.60	0	3,826.95	0	4,125.71	0		0		0		0		0		0	
1/4	3,183.14	1/4	3,514.44	1/4	3,833.38	1/4	4,131.69	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,190.04	1/2	3,521.28	1/2	3,839.81	1/2	4,137.67	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,196.95	3/4	3,528.12	3/4	3,846.24	3/4	4,143.65	3/4		3/4		3/4		3/4		3/4		3/4	
1	3,203.86	1	3,534.96	1	3,852.67	1	4,149.63	1		1		1		1		1		1	
1/4	3,210.76	1/4	3,541.77	1/4	3,859.06	1/4	4,155.57	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,217.67	1/2	3,548.58	1/2	3,865.46	1/2	4,161.51	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,224.57	3/4	3,555.39	3/4	3,871.85	3/4	4,167.46	3/4		3/4		3/4		3/4		3/4		3/4	
2	3,231.48	2	3,562.19	2	3,878.25	2	4,173.40	2		2		2		2		2		2	
1/4	3,238.39	1/4	3,568.97	1/4	3,884.61	1/4	4,179.31	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,245.29	1/2	3,575.74	1/2	3,890.97	1/2	4,185.22	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,252.20	3/4	3,582.51	3/4	3,897.33	3/4	4,191.13	3/4		3/4		3/4		3/4		3/4		3/4	
3	3,259.11	3	3,589.29	3	3,903.69	3	4,197.04	3		3		3		3		3		3	
1/4	3,266.01	1/4	3,596.03	1/4	3,910.02	1/4	4,202.91	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,272.92	1/2	3,602.77	1/2	3,916.35	1/2	4,208.79	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,279.83	3/4	3,609.50	3/4	3,922.67	3/4	4,214.66	3/4		3/4		3/4		3/4		3/4		3/4	
4	3,286.73	4	3,616.24	4	3,929.00	4	4,220.54	4		4		4		4		4		4	
1/4	3,293.64	1/4	3,622.95	1/4	3,935.29	1/4	4,226.90	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,300.54	1/2	3,629.65	1/2	3,941.58	1/2	4,233.26	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,307.45	3/4	3,636.36	3/4	3,947.88	3/4	4,239.62	3/4		3/4		3/4		3/4		3/4		3/4	
5	3,314.36	5	3,643.06	5	3,954.17	5	4,245.98	5		5		5		5		5		5	
1/4	3,321.26	1/4	3,649.73	1/4	3,960.43	1/4	4,252.85	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,328.17	1/2	3,656.40	1/2	3,966.69	1/2	4,259.72	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,335.08	3/4	3,663.07	3/4	3,972.94	3/4	4,266.58	3/4		3/4		3/4		3/4		3/4		3/4	
6	3,341.98	6	3,669.74	6	3,979.20	6	4,273.45	6		6		6		6		6		6	
1/4	3,348.89	1/4	3,676.38	1/4	3,985.43	1/4	4,280.32	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,355.79	1/2	3,683.02	1/2	3,991.65	1/2	4,287.18	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,362.70	3/4	3,689.65	3/4	3,997.87	3/4	4,294.05	3/4		3/4		3/4		3/4		3/4		3/4	
7	3,369.61	7	3,696.29	7	4,004.10	7	4,300.92	7		7		7		7		7		7	
1/4	3,376.51	1/4	3,702.89	1/4	4,010.25	1/4	4,307.71	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,383.42	1/2	3,709.49	1/2	4,016.40	1/2	4,314.50	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,390.33	3/4	3,716.09	3/4	4,022.55	3/4	4,321.29	3/4		3/4		3/4		3/4		3/4		3/4	
8	3,397.23	8	3,722.69	8	4,028.70	8	4,328.08	8		8		8		8		8		8	
1/4	3,404.14	1/4	3,729.26	1/4	4,034.81	1/4	4,334.25	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,411.05	1/2	3,735.83	1/2	4,040.93	1/2	4,340.41	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,417.95	3/4	3,742.40	3/4	4,047.04	3/4	4,346.58	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,424.86	9	3,748.96	9	4,053.16	9	4,352.74	9		9		9		9		9		9	
1/4	3,431.76	1/4	3,755.50	1/4	4,059.24	1/4	4,357.65	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,438.67	1/2	3,762.03	1/2	4,065.32	1/2	4,362.56	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,445.58	3/4	3,768.56	3/4	4,071.40	3/4	4,367.47	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,452.48	10	3,775.09	10	4,077.48	10		10		10		10		10		10		10	
1/4	3,459.38	1/4	3,781.59	1/4	4,083.53	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,466.29	1/2	3,788.09	1/2	4,089.57	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,473.19	3/4	3,794.59	3/4	4,095.62	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
11	3,480.09	11	3,801.09	11	4,101.67	11		11		11		11		11		11		11	
1/4	3,486.97	1/4	3,807.55	1/4	4,107.68	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,493.84	1/2	3,814.02	1/2	4,113.69	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,500.72	3/4	3,820.48	3/4	4,119.70	3/4		3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 01/17/2014 CL  
CALCULATED: 01/18/2014 CL  
PRINTED: 01/19/2014 SW

CANCELS AND SUPERCEDES  
ALL PRIOR TO 01/2014

PRECISION MEASUREMENT  
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# BARGE "EMS 388"

# 1 STBD INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 14'-10 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	16.18	0	267.94	0	552.22	0	859.83	0	1,188.27	0	1,519.83	0	1,851.38	0	2,182.94	0	2,514.49	0	2,846.04
1/4	19.41	1/4	273.64	1/4	558.41	1/4	866.50	1/4	1,195.18	1/4	1,526.74	1/4	1,858.29	1/4	2,189.85	1/4	2,521.40	1/4	2,852.95
1/2	22.64	1/2	279.34	1/2	564.60	1/2	873.17	1/2	1,202.09	1/2	1,533.64	1/2	1,865.20	1/2	2,196.75	1/2	2,528.31	1/2	2,859.85
3/4	25.87	3/4	285.03	3/4	570.79	3/4	879.84	3/4	1,208.99	3/4	1,540.55	3/4	1,872.11	3/4	2,203.66	3/4	2,535.22	3/4	2,866.76
1	29.11	1	290.73	1	576.97	1	886.51	1	1,215.90	1	1,547.46	1	1,879.01	1	2,210.57	1	2,542.12	1	2,873.67
1/4	34.10	1/4	296.47	1/4	583.20	1/4	893.21	1/4	1,222.81	1/4	1,554.36	1/4	1,885.92	1/4	2,217.48	1/4	2,549.03	1/4	2,880.57
1/2	39.10	1/2	302.21	1/2	589.44	1/2	899.92	1/2	1,229.72	1/2	1,561.27	1/2	1,892.83	1/2	2,224.38	1/2	2,555.94	1/2	2,887.48
3/4	44.10	3/4	307.94	3/4	595.67	3/4	906.63	3/4	1,236.62	3/4	1,568.18	3/4	1,899.73	3/4	2,231.29	3/4	2,562.85	3/4	2,894.39
2	49.10	2	313.68	2	601.90	2	913.34	2	1,243.53	2	1,575.09	2	1,906.64	2	2,238.20	2	2,569.75	2	2,901.29
1/4	54.39	1/4	319.46	1/4	608.17	1/4	920.09	1/4	1,250.44	1/4	1,581.99	1/4	1,913.55	1/4	2,245.10	1/4	2,576.66	1/4	2,908.20
1/2	59.67	1/2	325.24	1/2	614.44	1/2	926.84	1/2	1,257.35	1/2	1,588.90	1/2	1,920.46	1/2	2,252.01	1/2	2,583.57	1/2	2,915.10
3/4	64.96	3/4	331.02	3/4	620.71	3/4	933.59	3/4	1,264.25	3/4	1,595.81	3/4	1,927.36	3/4	2,258.92	3/4	2,590.47	3/4	2,922.01
3	70.25	3	336.80	3	626.98	3	940.34	3	1,271.16	3	1,602.72	3	1,934.27	3	2,265.83	3	2,597.38	3	2,928.92
1/4	75.57	1/4	342.62	1/4	633.29	1/4	947.15	1/4	1,278.07	1/4	1,609.62	1/4	1,941.18	1/4	2,272.73	1/4	2,604.29	1/4	2,935.82
1/2	80.90	1/2	348.44	1/2	639.60	1/2	953.95	1/2	1,284.98	1/2	1,616.53	1/2	1,948.09	1/2	2,279.64	1/2	2,611.20	1/2	2,942.73
3/4	86.23	3/4	354.26	3/4	645.92	3/4	960.76	3/4	1,291.88	3/4	1,623.44	3/4	1,954.99	3/4	2,286.55	3/4	2,618.10	3/4	2,949.64
4	91.56	4	360.08	4	652.23	4	967.56	4	1,298.79	4	1,630.35	4	1,961.90	4	2,293.46	4	2,625.01	4	2,956.54
1/4	96.92	1/4	365.94	1/4	658.58	1/4	974.41	1/4	1,305.70	1/4	1,637.25	1/4	1,968.81	1/4	2,300.36	1/4	2,631.92	1/4	2,963.45
1/2	102.29	1/2	371.80	1/2	664.94	1/2	981.26	1/2	1,312.61	1/2	1,644.16	1/2	1,975.72	1/2	2,307.27	1/2	2,638.83	1/2	2,970.36
3/4	107.66	3/4	377.66	3/4	671.29	3/4	988.10	3/4	1,319.51	3/4	1,651.07	3/4	1,982.62	3/4	2,314.18	3/4	2,645.73	3/4	2,977.26
5	113.03	5	383.52	5	677.64	5	994.95	5	1,326.42	5	1,657.98	5	1,989.53	5	2,321.09	5	2,652.64	5	2,984.17
1/4	118.44	1/4	389.42	1/4	684.04	1/4	1,001.83	1/4	1,333.33	1/4	1,664.88	1/4	1,996.44	1/4	2,327.99	1/4	2,659.55	1/4	2,991.08
1/2	123.85	1/2	395.32	1/2	690.43	1/2	1,008.72	1/2	1,340.24	1/2	1,671.79	1/2	2,003.35	1/2	2,334.90	1/2	2,666.46	1/2	2,997.98
3/4	129.26	3/4	401.22	3/4	696.82	3/4	1,015.61	3/4	1,347.14	3/4	1,678.70	3/4	2,010.25	3/4	2,341.81	3/4	2,673.36	3/4	3,004.89
6	134.67	6	407.13	6	703.22	6	1,022.50	6	1,354.05	6	1,685.61	6	2,017.16	6	2,348.72	6	2,680.27	6	3,011.79
1/4	140.12	1/4	413.07	1/4	709.65	1/4	1,029.40	1/4	1,360.96	1/4	1,692.51	1/4	2,024.07	1/4	2,355.62	1/4	2,687.18	1/4	3,018.70
1/2	145.57	1/2	419.01	1/2	716.09	1/2	1,036.31	1/2	1,367.87	1/2	1,699.42	1/2	2,030.98	1/2	2,362.53	1/2	2,694.09	1/2	3,025.61
3/4	151.02	3/4	424.95	3/4	722.52	3/4	1,043.22	3/4	1,374.77	3/4	1,706.33	3/4	2,037.88	3/4	2,369.44	3/4	2,700.99	3/4	3,032.51
7	156.47	7	430.90	7	728.96	7	1,050.12	7	1,381.68	7	1,713.24	7	2,044.79	7	2,376.35	7	2,707.90	7	3,039.42
1/4	161.96	1/4	436.88	1/4	735.42	1/4	1,057.03	1/4	1,388.59	1/4	1,720.14	1/4	2,051.70	1/4	2,383.25	1/4	2,714.81	1/4	3,046.33
1/2	167.45	1/2	442.87	1/2	741.89	1/2	1,063.94	1/2	1,395.49	1/2	1,727.05	1/2	2,058.61	1/2	2,390.16	1/2	2,721.72	1/2	3,053.23
3/4	172.94	3/4	448.85	3/4	748.35	3/4	1,070.85	3/4	1,402.40	3/4	1,733.96	3/4	2,065.51	3/4	2,397.07	3/4	2,728.62	3/4	3,060.14
8	178.44	8	454.83	8	754.81	8	1,077.75	8	1,409.31	8	1,740.86	8	2,072.42	8	2,403.98	8	2,735.53	8	3,067.05
1/4	183.97	1/4	460.86	1/4	761.32	1/4	1,084.66	1/4	1,416.22	1/4	1,747.77	1/4	2,079.33	1/4	2,410.88	1/4	2,742.44	1/4	3,073.95
1/2	189.50	1/2	466.88	1/2	767.82	1/2	1,091.57	1/2	1,423.12	1/2	1,754.68	1/2	2,086.23	1/2	2,417.79	1/2	2,749.35	1/2	3,080.86
3/4	195.03	3/4	472.91	3/4	774.33	3/4	1,098.48	3/4	1,430.03	3/4	1,761.59	3/4	2,093.14	3/4	2,424.70	3/4	2,756.25	3/4	3,087.76
9	200.57	9	478.93	9	780.83	9	1,105.38	9	1,436.94	9	1,768.49	9	2,100.05	9	2,431.60	9	2,763.16	9	3,094.67
1/4	206.14	1/4	485.00	1/4	787.38	1/4	1,112.29	1/4	1,443.85	1/4	1,775.40	1/4	2,106.96	1/4	2,438.51	1/4	2,770.07	1/4	3,101.58
1/2	211.71	1/2	491.07	1/2	793.92	1/2	1,119.20	1/2	1,450.75	1/2	1,782.31	1/2	2,113.86	1/2	2,445.42	1/2	2,776.97	1/2	3,108.48
3/4	217.29	3/4	497.13	3/4	800.47	3/4	1,126.11	3/4	1,457.66	3/4	1,789.22	3/4	2,120.77	3/4	2,452.33	3/4	2,783.88	3/4	3,115.39
10	222.86	10	503.20	10	807.01	10	1,133.01	10	1,464.57	10	1,796.12	10	2,127.68	10	2,459.23	10	2,790.79	10	3,122.30
1/4	228.48	1/4	509.31	1/4	813.59	1/4	1,139.92	1/4	1,471.48	1/4	1,803.03	1/4	2,134.59	1/4	2,466.14	1/4	2,797.70	1/4	3,129.20
1/2	234.09	1/2	515.41	1/2	820.18	1/2	1,146.83	1/2	1,478.38	1/2	1,809.94	1/2	2,141.49	1/2	2,473.05	1/2	2,804.60	1/2	3,136.11
3/4	239.71	3/4	521.52	3/4	826.76	3/4	1,153.74	3/4	1,485.29	3/4	1,816.85	3/4	2,148.40	3/4	2,479.96	3/4	2,811.51	3/4	3,143.02
11	245.32	11	527.63	11	833.34	11	1,160.64	11	1,492.20	11	1,823.75	11	2,155.31	11	2,486.86	11	2,818.42	11	3,149.92
1/4	250.98	1/4	533.77	1/4	839.96	1/4	1,167.55	1/4	1,499.11	1/4	1,830.66	1/4	2,162.22	1/4	2,493.77	1/4	2,825.32	1/4	3,156.83
1/2	256.63	1/2	539.92	1/2	846.59	1/2	1,174.46	1/2	1,506.01	1/2	1,837.57	1/2	2,169.12	1/2	2,500.68	1/2	2,832.23	1/2	3,163.74
3/4	262.29	3/4	546.07	3/4	853.21	3/4	1,181.37	3/4	1,512.92	3/4	1,844.48	3/4	2,176.03	3/4	2,507.59	3/4	2,839.13	3/4	3,170.64

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.  
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.  
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.  
 CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN TO TOP OF 2" DIAMETER "HERMETIC" VALVE.  
 GAUGE POINT: (HERMETIC) LOCATED 12'-06" OFF CENTERLINE AND 44'-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 388"

**1 STBD  
INNAGE TABLE**

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

**GAUGE HEIGHT 14'-10 3/4"**

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.	
IN		IN		IN		IN		IN		IN		IN		IN		IN		IN	
0	3,177.55	0	3,508.91	0	3,828.25	0	4,127.01	0		0		0		0		0		0	
1/4	3,184.45	1/4	3,515.75	1/4	3,834.68	1/4	4,132.99	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,191.36	1/2	3,522.59	1/2	3,841.11	1/2	4,138.97	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,198.27	3/4	3,529.43	3/4	3,847.54	3/4	4,144.95	3/4		3/4		3/4		3/4		3/4		3/4	
1	3,205.17	1	3,536.27	1	3,853.97	1	4,150.92	1		1		1		1		1		1	
1/4	3,212.08	1/4	3,543.08	1/4	3,860.37	1/4	4,156.87	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,218.99	1/2	3,549.89	1/2	3,866.76	1/2	4,162.81	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,225.89	3/4	3,556.70	3/4	3,873.16	3/4	4,168.75	3/4		3/4		3/4		3/4		3/4		3/4	
2	3,232.80	2	3,563.51	2	3,879.55	2	4,174.70	2		2		2		2		2		2	
1/4	3,239.71	1/4	3,570.28	1/4	3,885.92	1/4	4,180.61	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,246.61	1/2	3,577.05	1/2	3,892.28	1/2	4,186.51	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,253.52	3/4	3,583.83	3/4	3,898.64	3/4	4,192.42	3/4		3/4		3/4		3/4		3/4		3/4	
3	3,260.42	3	3,590.60	3	3,905.00	3	4,198.33	3		3		3		3		3		3	
1/4	3,267.33	1/4	3,597.34	1/4	3,911.33	1/4	4,204.21	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,274.24	1/2	3,604.08	1/2	3,917.65	1/2	4,210.08	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,281.14	3/4	3,610.82	3/4	3,923.98	3/4	4,215.96	3/4		3/4		3/4		3/4		3/4		3/4	
4	3,288.05	4	3,617.55	4	3,930.31	4	4,221.83	4		4		4		4		4		4	
1/4	3,294.96	1/4	3,624.26	1/4	3,936.60	1/4	4,228.19	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,301.86	1/2	3,630.96	1/2	3,942.89	1/2	4,234.55	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,308.77	3/4	3,637.67	3/4	3,949.18	3/4	4,240.92	3/4		3/4		3/4		3/4		3/4		3/4	
5	3,315.68	5	3,644.37	5	3,955.48	5	4,247.28	5		5		5		5		5		5	
1/4	3,322.58	1/4	3,651.04	1/4	3,961.73	1/4	4,254.14	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,329.49	1/2	3,657.71	1/2	3,967.99	1/2	4,261.01	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,336.40	3/4	3,664.38	3/4	3,974.25	3/4	4,267.88	3/4		3/4		3/4		3/4		3/4		3/4	
6	3,343.30	6	3,671.05	6	3,980.51	6	4,274.74	6		6		6		6		6		6	
1/4	3,350.21	1/4	3,677.69	1/4	3,986.73	1/4	4,281.61	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,357.11	1/2	3,684.33	1/2	3,992.95	1/2	4,288.48	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,364.02	3/4	3,690.96	3/4	3,999.18	3/4	4,295.34	3/4		3/4		3/4		3/4		3/4		3/4	
7	3,370.93	7	3,697.60	7	4,005.40	7	4,302.21	7		7		7		7		7		7	
1/4	3,377.83	1/4	3,704.20	1/4	4,011.55	1/4	4,309.00	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,384.74	1/2	3,710.80	1/2	4,017.70	1/2	4,315.79	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,391.65	3/4	3,717.40	3/4	4,023.85	3/4	4,322.59	3/4		3/4		3/4		3/4		3/4		3/4	
8	3,398.55	8	3,724.00	8	4,030.00	8	4,329.38	8		8		8		8		8		8	
1/4	3,405.46	1/4	3,730.57	1/4	4,036.11	1/4	4,335.55	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,412.37	1/2	3,737.14	1/2	4,042.23	1/2	4,341.71	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,419.27	3/4	3,743.71	3/4	4,048.34	3/4	4,347.88	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,426.18	9	3,750.27	9	4,054.46	9	4,354.04	9		9		9		9		9		9	
1/4	3,433.08	1/4	3,756.81	1/4	4,060.54	1/4	4,358.95	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,439.99	1/2	3,763.34	1/2	4,066.62	1/2	4,363.86	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,446.90	3/4	3,769.87	3/4	4,072.70	3/4	4,368.77	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,453.80	10	3,776.40	10	4,078.78	10		10		10		10		10		10		10	
1/4	3,460.70	1/4	3,782.90	1/4	4,084.83	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,467.60	1/2	3,789.40	1/2	4,090.87	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,474.50	3/4	3,795.90	3/4	4,096.92	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
11	3,481.40	11	3,802.40	11	4,102.97	11		11		11		11		11		11		11	
1/4	3,488.28	1/4	3,808.86	1/4	4,108.98	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,495.15	1/2	3,815.33	1/2	4,114.99	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,502.03	3/4	3,821.79	3/4	4,121.00	3/4		3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 01/17/2014 CL  
CALCULATED: 01/18/2014 CL  
PRINTED: 01/19/2014 SW

CANCELS AND SUPERCEDES  
ALL PRIOR TO 01/2014

PRECISION MEASUREMENT  
& ANALYSIS, INC.  
P.O. Box 2092  
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# BARGE "EMS 388"

## 2 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 14'-10"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	18.85	0	396.35	0	773.98	0	1,156.94	0	1,544.87	0	1,932.80	0	2,320.73	0	2,708.66	0	3,096.59	0	3,484.51
1/4	24.62	1/4	404.43	1/4	781.74	1/4	1,165.02	1/4	1,552.95	1/4	1,940.88	1/4	2,328.81	1/4	2,716.74	1/4	3,104.67	1/4	3,492.59
1/2	30.39	1/2	412.52	1/2	789.50	1/2	1,173.10	1/2	1,561.03	1/2	1,948.96	1/2	2,336.89	1/2	2,724.83	1/2	3,112.76	1/2	3,500.67
3/4	36.16	3/4	420.60	3/4	797.26	3/4	1,181.18	3/4	1,569.11	3/4	1,957.04	3/4	2,344.98	3/4	2,732.91	3/4	3,120.84	3/4	3,508.75
1	41.94	1	428.68	1	805.02	1	1,189.26	1	1,577.20	1	1,965.13	1	2,353.06	1	2,740.99	1	3,128.92	1	3,516.83
1/4	49.73	1/4	436.76	1/4	812.79	1/4	1,197.35	1/4	1,585.28	1/4	1,973.21	1/4	2,361.14	1/4	2,749.07	1/4	3,137.00	1/4	3,524.92
1/2	57.52	1/2	444.84	1/2	820.56	1/2	1,205.43	1/2	1,593.36	1/2	1,981.29	1/2	2,369.22	1/2	2,757.15	1/2	3,145.08	1/2	3,533.00
3/4	65.31	3/4	452.92	3/4	828.34	3/4	1,213.51	3/4	1,601.44	3/4	1,989.37	3/4	2,377.30	3/4	2,765.23	3/4	3,153.17	3/4	3,541.08
2	73.11	2	461.00	2	836.11	2	1,221.59	2	1,609.52	2	1,997.45	2	2,385.39	2	2,773.32	2	3,161.25	2	3,549.16
1/4	81.19	1/4	469.08	1/4	843.88	1/4	1,229.67	1/4	1,617.61	1/4	2,005.54	1/4	2,393.47	1/4	2,781.40	1/4	3,169.33	1/4	3,557.24
1/2	89.27	1/2	477.17	1/2	851.66	1/2	1,237.76	1/2	1,625.69	1/2	2,013.62	1/2	2,401.55	1/2	2,789.48	1/2	3,177.41	1/2	3,565.32
3/4	97.35	3/4	485.25	3/4	859.43	3/4	1,245.84	3/4	1,633.77	3/4	2,021.70	3/4	2,409.63	3/4	2,797.56	3/4	3,185.49	3/4	3,573.40
3	105.43	3	493.33	3	867.21	3	1,253.92	3	1,641.85	3	2,029.78	3	2,417.71	3	2,805.64	3	3,193.58	3	3,581.48
1/4	113.51	1/4	501.41	1/4	874.99	1/4	1,262.00	1/4	1,649.93	1/4	2,037.86	1/4	2,425.80	1/4	2,813.73	1/4	3,201.66	1/4	3,589.56
1/2	121.59	1/2	509.49	1/2	882.76	1/2	1,270.08	1/2	1,658.01	1/2	2,045.95	1/2	2,433.88	1/2	2,821.81	1/2	3,209.74	1/2	3,597.64
3/4	129.67	3/4	517.57	3/4	890.54	3/4	1,278.17	3/4	1,666.10	3/4	2,054.03	3/4	2,441.96	3/4	2,829.89	3/4	3,217.82	3/4	3,605.72
4	137.76	4	525.65	4	898.32	4	1,286.25	4	1,674.18	4	2,062.11	4	2,450.04	4	2,837.97	4	3,225.90	4	3,613.80
1/4	145.84	1/4	533.42	1/4	906.40	1/4	1,294.33	1/4	1,682.26	1/4	2,070.19	1/4	2,458.12	1/4	2,846.05	1/4	3,233.99	1/4	3,621.88
1/2	153.92	1/2	541.19	1/2	914.48	1/2	1,302.41	1/2	1,690.34	1/2	2,078.27	1/2	2,466.20	1/2	2,854.14	1/2	3,242.07	1/2	3,629.96
3/4	162.00	3/4	548.96	3/4	922.56	3/4	1,310.49	3/4	1,698.42	3/4	2,086.36	3/4	2,474.29	3/4	2,862.22	3/4	3,250.15	3/4	3,638.04
5	170.08	5	556.73	5	930.64	5	1,318.57	5	1,706.51	5	2,094.44	5	2,482.37	5	2,870.30	5	3,258.23	5	3,646.12
1/4	178.16	1/4	564.49	1/4	938.73	1/4	1,326.66	1/4	1,714.59	1/4	2,102.52	1/4	2,490.45	1/4	2,878.38	1/4	3,266.31	1/4	3,654.20
1/2	186.24	1/2	572.25	1/2	946.81	1/2	1,334.74	1/2	1,722.67	1/2	2,110.60	1/2	2,498.53	1/2	2,886.46	1/2	3,274.39	1/2	3,662.28
3/4	194.32	3/4	580.01	3/4	954.89	3/4	1,342.82	3/4	1,730.75	3/4	2,118.68	3/4	2,506.61	3/4	2,894.55	3/4	3,282.48	3/4	3,670.36
6	202.40	6	587.77	6	962.97	6	1,350.90	6	1,738.83	6	2,126.76	6	2,514.70	6	2,902.63	6	3,290.56	6	3,678.44
1/4	210.49	1/4	595.53	1/4	971.05	1/4	1,358.98	1/4	1,746.92	1/4	2,134.85	1/4	2,522.78	1/4	2,910.71	1/4	3,298.64	1/4	3,686.53
1/2	218.57	1/2	603.29	1/2	979.14	1/2	1,367.07	1/2	1,755.00	1/2	2,142.93	1/2	2,530.86	1/2	2,918.79	1/2	3,306.72	1/2	3,694.61
3/4	226.65	3/4	611.05	3/4	987.22	3/4	1,375.15	3/4	1,763.08	3/4	2,151.01	3/4	2,538.94	3/4	2,926.87	3/4	3,314.80	3/4	3,702.69
7	234.73	7	618.81	7	995.30	7	1,383.23	7	1,771.16	7	2,159.09	7	2,547.02	7	2,934.95	7	3,322.89	7	3,710.77
1/4	242.81	1/4	626.57	1/4	1,003.38	1/4	1,391.31	1/4	1,779.24	1/4	2,167.17	1/4	2,555.11	1/4	2,943.04	1/4	3,330.97	1/4	3,718.85
1/2	250.89	1/2	634.33	1/2	1,011.46	1/2	1,399.39	1/2	1,787.32	1/2	2,175.26	1/2	2,563.19	1/2	2,951.12	1/2	3,339.05	1/2	3,726.93
3/4	258.97	3/4	642.09	3/4	1,019.54	3/4	1,407.48	3/4	1,795.41	3/4	2,183.34	3/4	2,571.27	3/4	2,959.20	3/4	3,347.13	3/4	3,735.01
8	267.05	8	649.85	8	1,027.63	8	1,415.56	8	1,803.49	8	2,191.42	8	2,579.35	8	2,967.28	8	3,355.21	8	3,743.09
1/4	275.14	1/4	657.61	1/4	1,035.71	1/4	1,423.64	1/4	1,811.57	1/4	2,199.50	1/4	2,587.43	1/4	2,975.36	1/4	3,363.30	1/4	3,751.17
1/2	283.22	1/2	665.37	1/2	1,043.79	1/2	1,431.72	1/2	1,819.65	1/2	2,207.58	1/2	2,595.52	1/2	2,983.45	1/2	3,371.38	1/2	3,759.25
3/4	291.30	3/4	673.12	3/4	1,051.87	3/4	1,439.80	3/4	1,827.73	3/4	2,215.67	3/4	2,603.60	3/4	2,991.53	3/4	3,379.46	3/4	3,767.33
9	299.38	9	680.88	9	1,059.95	9	1,447.89	9	1,835.82	9	2,223.75	9	2,611.68	9	2,999.61	9	3,387.54	9	3,775.41
1/4	307.46	1/4	688.63	1/4	1,068.04	1/4	1,455.97	1/4	1,843.90	1/4	2,231.83	1/4	2,619.76	1/4	3,007.69	1/4	3,395.62	1/4	3,783.49
1/2	315.54	1/2	696.39	1/2	1,076.12	1/2	1,464.05	1/2	1,851.98	1/2	2,239.91	1/2	2,627.84	1/2	3,015.77	1/2	3,403.71	1/2	3,791.57
3/4	323.62	3/4	704.15	3/4	1,084.20	3/4	1,472.13	3/4	1,860.06	3/4	2,247.99	3/4	2,635.92	3/4	3,023.86	3/4	3,411.79	3/4	3,799.65
10	331.70	10	711.90	10	1,092.28	10	1,480.21	10	1,868.14	10	2,256.08	10	2,644.01	10	3,031.94	10	3,419.87	10	3,807.73
1/4	339.79	1/4	719.66	1/4	1,100.36	1/4	1,488.29	1/4	1,876.23	1/4	2,264.16	1/4	2,652.09	1/4	3,040.02	1/4	3,427.95	1/4	3,815.81
1/2	347.87	1/2	727.42	1/2	1,108.45	1/2	1,496.38	1/2	1,884.31	1/2	2,272.24	1/2	2,660.17	1/2	3,048.10	1/2	3,436.03	1/2	3,823.89
3/4	355.95	3/4	735.18	3/4	1,116.53	3/4	1,504.46	3/4	1,892.39	3/4	2,280.32	3/4	2,668.25	3/4	3,056.18	3/4	3,444.11	3/4	3,831.97
11	364.03	11	742.94	11	1,124.61	11	1,512.54	11	1,900.47	11	2,288.40	11	2,676.33	11	3,064.27	11	3,452.19	11	3,840.05
1/4	372.11	1/4	750.70	1/4	1,132.69	1/4	1,520.62	1/4	1,908.55	1/4	2,296.48	1/4	2,684.42	1/4	3,072.35	1/4	3,460.27	1/4	3,848.14
1/2	380.19	1/2	758.46	1/2	1,140.77	1/2	1,528.70	1/2	1,916.64	1/2	2,304.57	1/2	2,692.50	1/2	3,080.43	1/2	3,468.35	1/2	3,856.22
3/4	388.27	3/4	766.22	3/4	1,148.85	3/4	1,536.79	3/4	1,924.72	3/4	2,312.65	3/4	2,700.58	3/4	3,088.51	3/4	3,476.43	3/4	3,864.30

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.  
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.  
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.  
 CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN TO TOP OF 2" DIAMETER "HERMETIC" VALVE.  
 GAUGE POINT: (HERMETIC) LOCATED 12'-06" OFF CENTERLINE AND 50'-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 388"

## 2 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 14'-10"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	3,872.38	0	4,260.07	0	4,633.71	0	4,983.25	0		0		0		0		0		0	
1/4	3,880.46	1/4	4,268.07	1/4	4,641.23	1/4	4,990.24	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,888.54	1/2	4,276.08	1/2	4,648.76	1/2	4,997.23	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,896.62	3/4	4,284.08	3/4	4,656.28	3/4	5,004.23	3/4		3/4		3/4		3/4		3/4		3/4	
1	3,904.70	1	4,292.09	1	4,663.80	1	5,011.22	1		1		1		1		1		1	
1/4	3,912.78	1/4	4,300.06	1/4	4,671.28	1/4	5,018.17	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,920.86	1/2	4,308.02	1/2	4,678.77	1/2	5,025.13	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,928.94	3/4	4,315.99	3/4	4,686.25	3/4	5,032.08	3/4		3/4		3/4		3/4		3/4		3/4	
2	3,937.02	2	4,323.95	2	4,693.73	2	5,039.03	2		2		2		2		2		2	
1/4	3,945.10	1/4	4,331.88	1/4	4,701.17	1/4	5,045.94	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,953.18	1/2	4,339.80	1/2	4,708.62	1/2	5,052.86	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,961.26	3/4	4,347.73	3/4	4,716.06	3/4	5,059.77	3/4		3/4		3/4		3/4		3/4		3/4	
3	3,969.34	3	4,355.65	3	4,723.50	3	5,066.68	3		3		3		3		3		3	
1/4	3,977.42	1/4	4,363.53	1/4	4,730.90	1/4	5,073.55	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,985.50	1/2	4,371.42	1/2	4,738.31	1/2	5,080.43	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,993.58	3/4	4,379.30	3/4	4,745.71	3/4	5,087.30	3/4		3/4		3/4		3/4		3/4		3/4	
4	4,001.66	4	4,387.19	4	4,753.11	4	5,094.17	4		4		4		4		4		4	
1/4	4,009.75	1/4	4,395.03	1/4	4,760.47	1/4	5,101.61	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,017.83	1/2	4,402.88	1/2	4,767.83	1/2	5,109.06	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,025.91	3/4	4,410.72	3/4	4,775.20	3/4	5,116.50	3/4		3/4		3/4		3/4		3/4		3/4	
5	4,033.99	5	4,418.57	5	4,782.56	5	5,123.94	5		5		5		5		5		5	
1/4	4,042.07	1/4	4,426.37	1/4	4,789.88	1/4	5,131.98	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,050.15	1/2	4,434.18	1/2	4,797.20	1/2	5,140.01	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,058.23	3/4	4,441.98	3/4	4,804.52	3/4	5,148.04	3/4		3/4		3/4		3/4		3/4		3/4	
6	4,066.31	6	4,449.78	6	4,811.85	6	5,156.08	6		6		6		6		6		6	
1/4	4,074.39	1/4	4,457.55	1/4	4,819.13	1/4	5,164.11	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,082.47	1/2	4,465.31	1/2	4,826.41	1/2	5,172.14	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,090.55	3/4	4,473.08	3/4	4,833.69	3/4	5,180.18	3/4		3/4		3/4		3/4		3/4		3/4	
7	4,098.63	7	4,480.84	7	4,840.97	7	5,188.21	7		7		7		7		7		7	
1/4	4,106.71	1/4	4,488.56	1/4	4,848.17	1/4	5,196.16	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,114.79	1/2	4,496.29	1/2	4,855.36	1/2	5,204.11	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,122.87	3/4	4,504.01	3/4	4,862.55	3/4	5,212.06	3/4		3/4		3/4		3/4		3/4		3/4	
8	4,130.95	8	4,511.74	8	4,869.75	8	5,220.00	8		8		8		8		8		8	
1/4	4,139.03	1/4	4,519.42	1/4	4,876.90	1/4	5,227.22	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,147.11	1/2	4,527.10	1/2	4,884.06	1/2	5,234.43	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,155.19	3/4	4,534.79	3/4	4,891.21	3/4	5,241.65	3/4		3/4		3/4		3/4		3/4		3/4	
9	4,163.27	9	4,542.47	9	4,898.36	9	5,248.86	9		9		9		9		9		9	
1/4	4,171.36	1/4	4,550.11	1/4	4,905.48	1/4	5,254.61	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,179.44	1/2	4,557.76	1/2	4,912.59	1/2	5,260.35	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,187.52	3/4	4,565.40	3/4	4,919.71	3/4	5,266.09	3/4		3/4		3/4		3/4		3/4		3/4	
10	4,195.60	10	4,573.04	10	4,926.82	10		10		10		10		10		10		10	
1/4	4,203.67	1/4	4,580.65	1/4	4,933.89	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,211.74	1/2	4,588.25	1/2	4,940.97	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,219.81	3/4	4,595.85	3/4	4,948.04	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
11	4,227.89	11	4,603.46	11	4,955.11	11		11		11		11		11		11		11	
1/4	4,235.93	1/4	4,611.02	1/4	4,962.15	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,243.98	1/2	4,618.58	1/2	4,969.18	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,252.02	3/4	4,626.15	3/4	4,976.21	3/4		3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 01/17/2014 CL  
CALCULATED: 01/18/2014 CL  
PRINTED: 01/19/2014 SW

CANCELS AND SUPERCEDES  
ALL PRIOR TO 01/2014

PRECISION MEASUREMENT  
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# BARGE "EMS 388"

## 2 STBD INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 14'-10 1/2"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	18.84	0	396.22	0	783.68	0	1,171.43	0	1,559.23	0	1,947.02	0	2,334.82	0	2,722.62	0	3,110.42	0	3,498.20
1/4	24.61	1/4	404.30	1/4	791.74	1/4	1,179.51	1/4	1,567.31	1/4	1,955.10	1/4	2,342.90	1/4	2,730.70	1/4	3,118.49	1/4	3,506.28
1/2	30.38	1/2	412.37	1/2	799.81	1/2	1,187.59	1/2	1,575.39	1/2	1,963.18	1/2	2,350.98	1/2	2,738.78	1/2	3,126.57	1/2	3,514.36
3/4	36.15	3/4	420.45	3/4	807.88	3/4	1,195.67	3/4	1,583.47	3/4	1,971.26	3/4	2,359.06	3/4	2,746.86	3/4	3,134.65	3/4	3,522.44
1	41.92	1	428.53	1	815.95	1	1,203.75	1	1,591.54	1	1,979.34	1	2,367.14	1	2,754.93	1	3,142.73	1	3,530.52
1/4	49.71	1/4	436.61	1/4	824.03	1/4	1,211.83	1/4	1,599.62	1/4	1,987.42	1/4	2,375.22	1/4	2,763.01	1/4	3,150.81	1/4	3,538.59
1/2	57.50	1/2	444.69	1/2	832.11	1/2	1,219.91	1/2	1,607.70	1/2	1,995.50	1/2	2,383.30	1/2	2,771.09	1/2	3,158.89	1/2	3,546.67
3/4	65.29	3/4	452.77	3/4	840.19	3/4	1,227.99	3/4	1,615.78	3/4	2,003.58	3/4	2,391.38	3/4	2,779.17	3/4	3,166.97	3/4	3,554.75
2	73.08	2	460.84	2	848.27	2	1,236.06	2	1,623.86	2	2,011.66	2	2,399.45	2	2,787.25	2	3,175.05	2	3,562.83
1/4	81.16	1/4	468.92	1/4	856.35	1/4	1,244.14	1/4	1,631.94	1/4	2,019.74	1/4	2,407.53	1/4	2,795.33	1/4	3,183.13	1/4	3,570.91
1/2	89.24	1/2	477.00	1/2	864.43	1/2	1,252.22	1/2	1,640.02	1/2	2,027.82	1/2	2,415.61	1/2	2,803.41	1/2	3,191.21	1/2	3,578.98
3/4	97.32	3/4	485.08	3/4	872.50	3/4	1,260.30	3/4	1,648.10	3/4	2,035.89	3/4	2,423.69	3/4	2,811.49	3/4	3,199.29	3/4	3,587.06
3	105.39	3	493.16	3	880.58	3	1,268.38	3	1,656.18	3	2,043.97	3	2,431.77	3	2,819.57	3	3,207.36	3	3,595.14
1/4	113.47	1/4	501.24	1/4	888.66	1/4	1,276.46	1/4	1,664.26	1/4	2,052.05	1/4	2,439.85	1/4	2,827.65	1/4	3,215.44	1/4	3,603.22
1/2	121.55	1/2	509.31	1/2	896.74	1/2	1,284.54	1/2	1,672.34	1/2	2,060.13	1/2	2,447.93	1/2	2,835.73	1/2	3,223.52	1/2	3,611.30
3/4	129.63	3/4	517.39	3/4	904.82	3/4	1,292.62	3/4	1,680.41	3/4	2,068.21	3/4	2,456.01	3/4	2,843.80	3/4	3,231.60	3/4	3,619.37
4	137.71	4	525.47	4	912.90	4	1,300.70	4	1,688.49	4	2,076.29	4	2,464.09	4	2,851.88	4	3,239.68	4	3,627.45
1/4	145.79	1/4	533.55	1/4	920.98	1/4	1,308.78	1/4	1,696.57	1/4	2,084.37	1/4	2,472.17	1/4	2,859.96	1/4	3,247.76	1/4	3,635.53
1/2	153.86	1/2	541.63	1/2	929.06	1/2	1,316.86	1/2	1,704.65	1/2	2,092.45	1/2	2,480.25	1/2	2,868.04	1/2	3,255.84	1/2	3,643.61
3/4	161.94	3/4	549.71	3/4	937.14	3/4	1,324.93	3/4	1,712.73	3/4	2,100.53	3/4	2,488.32	3/4	2,876.12	3/4	3,263.92	3/4	3,651.69
5	170.02	5	557.78	5	945.22	5	1,333.01	5	1,720.81	5	2,108.61	5	2,496.40	5	2,884.20	5	3,272.00	5	3,659.76
1/4	178.10	1/4	565.85	1/4	953.30	1/4	1,341.09	1/4	1,728.89	1/4	2,116.69	1/4	2,504.48	1/4	2,892.28	1/4	3,280.08	1/4	3,667.84
1/2	186.18	1/2	573.92	1/2	961.37	1/2	1,349.17	1/2	1,736.97	1/2	2,124.77	1/2	2,512.56	1/2	2,900.36	1/2	3,288.16	1/2	3,675.92
3/4	194.26	3/4	581.99	3/4	969.45	3/4	1,357.25	3/4	1,745.05	3/4	2,132.84	3/4	2,520.64	3/4	2,908.44	3/4	3,296.23	3/4	3,684.00
6	202.34	6	590.06	6	977.53	6	1,365.33	6	1,753.13	6	2,140.92	6	2,528.72	6	2,916.52	6	3,304.31	6	3,692.08
1/4	210.41	1/4	598.13	1/4	985.61	1/4	1,373.41	1/4	1,761.21	1/4	2,149.00	1/4	2,536.80	1/4	2,924.60	1/4	3,312.39	1/4	3,700.15
1/2	218.49	1/2	606.20	1/2	993.69	1/2	1,381.49	1/2	1,769.28	1/2	2,157.08	1/2	2,544.88	1/2	2,932.68	1/2	3,320.47	1/2	3,708.23
3/4	226.57	3/4	614.27	3/4	1,001.77	3/4	1,389.57	3/4	1,777.36	3/4	2,165.16	3/4	2,552.96	3/4	2,940.75	3/4	3,328.55	3/4	3,716.31
7	234.65	7	622.34	7	1,009.85	7	1,397.65	7	1,785.44	7	2,173.24	7	2,561.04	7	2,948.83	7	3,336.63	7	3,724.39
1/4	242.73	1/4	630.41	1/4	1,017.93	1/4	1,405.73	1/4	1,793.52	1/4	2,181.32	1/4	2,569.12	1/4	2,956.91	1/4	3,344.71	1/4	3,732.47
1/2	250.81	1/2	638.47	1/2	1,026.01	1/2	1,413.80	1/2	1,801.60	1/2	2,189.40	1/2	2,577.19	1/2	2,964.99	1/2	3,352.79	1/2	3,740.54
3/4	258.88	3/4	646.54	3/4	1,034.09	3/4	1,421.88	3/4	1,809.68	3/4	2,197.48	3/4	2,585.27	3/4	2,973.07	3/4	3,360.87	3/4	3,748.62
8	266.96	8	654.61	8	1,042.17	8	1,429.96	8	1,817.76	8	2,205.56	8	2,593.35	8	2,981.15	8	3,368.95	8	3,756.70
1/4	275.04	1/4	662.68	1/4	1,050.24	1/4	1,438.04	1/4	1,825.84	1/4	2,213.64	1/4	2,601.43	1/4	2,989.23	1/4	3,377.03	1/4	3,764.78
1/2	283.12	1/2	670.74	1/2	1,058.32	1/2	1,446.12	1/2	1,833.92	1/2	2,221.71	1/2	2,609.51	1/2	2,997.31	1/2	3,385.10	1/2	3,772.86
3/4	291.20	3/4	678.81	3/4	1,066.40	3/4	1,454.20	3/4	1,842.00	3/4	2,229.79	3/4	2,617.59	3/4	3,005.39	3/4	3,393.18	3/4	3,780.93
9	299.28	9	686.87	9	1,074.48	9	1,462.28	9	1,850.08	9	2,237.87	9	2,625.67	9	3,013.47	9	3,401.26	9	3,789.01
1/4	307.35	1/4	694.93	1/4	1,082.56	1/4	1,470.36	1/4	1,858.15	1/4	2,245.95	1/4	2,633.75	1/4	3,021.55	1/4	3,409.34	1/4	3,797.09
1/2	315.43	1/2	703.00	1/2	1,090.64	1/2	1,478.44	1/2	1,866.23	1/2	2,254.03	1/2	2,641.83	1/2	3,029.62	1/2	3,417.42	1/2	3,805.17
3/4	323.51	3/4	711.06	3/4	1,098.72	3/4	1,486.52	3/4	1,874.31	3/4	2,262.11	3/4	2,649.91	3/4	3,037.70	3/4	3,425.50	3/4	3,813.25
10	331.59	10	719.13	10	1,106.80	10	1,494.60	10	1,882.39	10	2,270.19	10	2,657.99	10	3,045.78	10	3,433.58	10	3,821.32
1/4	339.67	1/4	727.20	1/4	1,114.88	1/4	1,502.67	1/4	1,890.47	1/4	2,278.27	1/4	2,666.06	1/4	3,053.86	1/4	3,441.66	1/4	3,829.40
1/2	347.75	1/2	735.26	1/2	1,122.96	1/2	1,510.75	1/2	1,898.55	1/2	2,286.35	1/2	2,674.14	1/2	3,061.94	1/2	3,449.74	1/2	3,837.48
3/4	355.82	3/4	743.33	3/4	1,131.04	3/4	1,518.83	3/4	1,906.63	3/4	2,294.43	3/4	2,682.22	3/4	3,070.02	3/4	3,457.81	3/4	3,845.56
11	363.90	11	751.40	11	1,139.11	11	1,526.91	11	1,914.71	11	2,302.51	11	2,690.30	11	3,078.10	11	3,465.89	11	3,853.64
1/4	371.98	1/4	759.47	1/4	1,147.19	1/4	1,534.99	1/4	1,922.79	1/4	2,310.58	1/4	2,698.38	1/4	3,086.18	1/4	3,473.97	1/4	3,861.71
1/2	380.06	1/2	767.54	1/2	1,155.27	1/2	1,543.07	1/2	1,930.87	1/2	2,318.66	1/2	2,706.46	1/2	3,094.26	1/2	3,482.05	1/2	3,869.79
3/4	388.14	3/4	775.61	3/4	1,163.35	3/4	1,551.15	3/4	1,938.95	3/4	2,326.74	3/4	2,714.54	3/4	3,102.34	3/4	3,490.13	3/4	3,877.87

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.  
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.  
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.  
 CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN TO TOP OF 2" DIAMETER "HERMETIC" VALVE.  
 GAUGE POINT: (HERMETIC) LOCATED 12'-06" OFF CENTERLINE AND 50'-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 388"

## 2 STBD INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 14'-10 1/2"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	3,885.95	0	4,273.52	0	4,647.03	0	4,996.45	0		0		0		0		0		0	
1/4	3,894.03	1/4	4,281.52	1/4	4,654.56	1/4	5,003.44	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,902.10	1/2	4,289.53	1/2	4,662.08	1/2	5,010.44	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,910.18	3/4	4,297.53	3/4	4,669.60	3/4	5,017.43	3/4		3/4		3/4		3/4		3/4		3/4	
1	3,918.26	1	4,305.53	1	4,677.12	1	5,024.42	1		1		1		1		1		1	
1/4	3,926.34	1/4	4,313.49	1/4	4,684.60	1/4	5,031.37	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,934.42	1/2	4,321.45	1/2	4,692.08	1/2	5,038.32	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,942.49	3/4	4,329.42	3/4	4,699.56	3/4	5,045.27	3/4		3/4		3/4		3/4		3/4		3/4	
2	3,950.57	2	4,337.38	2	4,707.04	2	5,052.22	2		2		2		2		2		2	
1/4	3,958.65	1/4	4,345.30	1/4	4,714.48	1/4	5,059.13	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,966.73	1/2	4,353.22	1/2	4,721.92	1/2	5,066.04	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,974.81	3/4	4,361.15	3/4	4,729.36	3/4	5,072.95	3/4		3/4		3/4		3/4		3/4		3/4	
3	3,982.88	3	4,369.07	3	4,736.80	3	5,079.86	3		3		3		3		3		3	
1/4	3,990.96	1/4	4,376.95	1/4	4,744.20	1/4	5,086.73	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,999.04	1/2	4,384.83	1/2	4,751.60	1/2	5,093.60	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,007.12	3/4	4,392.72	3/4	4,759.00	3/4	5,100.47	3/4		3/4		3/4		3/4		3/4		3/4	
4	4,015.20	4	4,400.60	4	4,766.39	4	5,107.34	4		4		4		4		4		4	
1/4	4,023.27	1/4	4,408.44	1/4	4,773.75	1/4	5,114.78	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,031.35	1/2	4,416.28	1/2	4,781.11	1/2	5,122.22	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,039.43	3/4	4,424.12	3/4	4,788.47	3/4	5,129.66	3/4		3/4		3/4		3/4		3/4		3/4	
5	4,047.51	5	4,431.96	5	4,795.83	5	5,137.10	5		5		5		5		5		5	
1/4	4,055.59	1/4	4,439.77	1/4	4,803.15	1/4	5,145.13	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,063.66	1/2	4,447.57	1/2	4,810.47	1/2	5,153.17	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,071.74	3/4	4,455.37	3/4	4,817.79	3/4	5,161.20	3/4		3/4		3/4		3/4		3/4		3/4	
6	4,079.82	6	4,463.17	6	4,825.11	6	5,169.23	6		6		6		6		6		6	
1/4	4,087.90	1/4	4,470.93	1/4	4,832.39	1/4	5,177.26	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,095.98	1/2	4,478.69	1/2	4,839.67	1/2	5,185.29	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,104.05	3/4	4,486.46	3/4	4,846.95	3/4	5,193.32	3/4		3/4		3/4		3/4		3/4		3/4	
7	4,112.13	7	4,494.22	7	4,854.23	7	5,201.35	7		7		7		7		7		7	
1/4	4,120.21	1/4	4,501.94	1/4	4,861.42	1/4	5,209.29	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,128.29	1/2	4,509.66	1/2	4,868.61	1/2	5,217.24	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,136.37	3/4	4,517.38	3/4	4,875.80	3/4	5,225.19	3/4		3/4		3/4		3/4		3/4		3/4	
8	4,144.44	8	4,525.10	8	4,882.99	8	5,233.13	8		8		8		8		8		8	
1/4	4,152.52	1/4	4,532.78	1/4	4,890.15	1/4	5,240.34	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,160.60	1/2	4,540.46	1/2	4,897.30	1/2	5,247.56	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,168.68	3/4	4,548.15	3/4	4,904.45	3/4	5,254.77	3/4		3/4		3/4		3/4		3/4		3/4	
9	4,176.76	9	4,555.83	9	4,911.60	9	5,261.98	9		9		9		9		9		9	
1/4	4,184.83	1/4	4,563.47	1/4	4,918.71	1/4	5,267.72	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,192.91	1/2	4,571.11	1/2	4,925.82	1/2	5,273.46	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,200.99	3/4	4,578.75	3/4	4,932.93	3/4	5,279.20	3/4		3/4		3/4		3/4		3/4		3/4	
10	4,209.07	10	4,586.39	10	4,940.05	10		10		10		10		10		10		10	
1/4	4,217.14	1/4	4,593.99	1/4	4,947.12	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,225.21	1/2	4,601.59	1/2	4,954.19	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,233.28	3/4	4,609.19	3/4	4,961.26	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
11	4,241.35	11	4,616.79	11	4,968.33	11		11		11		11		11		11		11	
1/4	4,249.39	1/4	4,624.35	1/4	4,975.36	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,257.43	1/2	4,631.91	1/2	4,982.39	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,265.48	3/4	4,639.47	3/4	4,989.42	3/4		3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 01/17/2014 CL  
CALCULATED: 01/18/2014 CL  
PRINTED: 01/19/2014 SW

CANCELS AND SUPERCEDES  
ALL PRIOR TO 01/2014

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



# BARGE "EMS 388"

## 3 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 14'-10 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	17.55	0	368.42	0	719.67	0	1,075.25	0	1,435.59	0	1,795.74	0	2,155.36	0	2,515.85	0	2,876.35	0	3,236.49
1/4	22.91	1/4	375.94	1/4	726.89	1/4	1,082.76	1/4	1,443.10	1/4	1,803.22	1/4	2,162.87	1/4	2,523.36	1/4	2,883.85	1/4	3,244.00
1/2	28.28	1/2	383.45	1/2	734.11	1/2	1,090.27	1/2	1,450.60	1/2	1,810.71	1/2	2,170.38	1/2	2,530.87	1/2	2,891.35	1/2	3,251.51
3/4	33.64	3/4	390.96	3/4	741.33	3/4	1,097.78	3/4	1,458.11	3/4	1,818.20	3/4	2,177.89	3/4	2,538.38	3/4	2,898.86	3/4	3,259.02
1	39.01	1	398.47	1	748.56	1	1,105.28	1	1,465.62	1	1,825.69	1	2,185.40	1	2,545.89	1	2,906.36	1	3,266.53
1/4	46.25	1/4	405.98	1/4	755.79	1/4	1,112.79	1/4	1,473.13	1/4	1,833.17	1/4	2,192.91	1/4	2,553.40	1/4	2,913.86	1/4	3,274.04
1/2	53.49	1/2	413.49	1/2	763.02	1/2	1,120.30	1/2	1,480.63	1/2	1,840.66	1/2	2,200.42	1/2	2,560.91	1/2	2,921.37	1/2	3,281.55
3/4	60.73	3/4	421.00	3/4	770.25	3/4	1,127.80	3/4	1,488.14	3/4	1,848.15	3/4	2,207.93	3/4	2,568.42	3/4	2,928.87	3/4	3,289.06
2	67.98	2	428.51	2	777.48	2	1,135.31	2	1,495.65	2	1,855.63	2	2,215.44	2	2,575.94	2	2,936.37	2	3,296.57
1/4	75.49	1/4	436.03	1/4	784.70	1/4	1,142.82	1/4	1,503.15	1/4	1,863.12	1/4	2,222.95	1/4	2,583.45	1/4	2,943.88	1/4	3,304.08
1/2	83.00	1/2	443.54	1/2	791.92	1/2	1,150.32	1/2	1,510.66	1/2	1,870.61	1/2	2,230.46	1/2	2,590.96	1/2	2,951.38	1/2	3,311.59
3/4	90.51	3/4	451.05	3/4	799.14	3/4	1,157.83	3/4	1,518.17	3/4	1,878.10	3/4	2,237.97	3/4	2,598.47	3/4	2,958.88	3/4	3,319.10
3	98.02	3	458.56	3	806.36	3	1,165.34	3	1,525.67	3	1,885.58	3	2,245.48	3	2,605.98	3	2,966.39	3	3,326.61
1/4	105.53	1/4	466.07	1/4	813.58	1/4	1,172.85	1/4	1,533.18	1/4	1,893.07	1/4	2,252.99	1/4	2,613.49	1/4	2,973.89	1/4	3,334.12
1/2	113.04	1/2	473.58	1/2	820.81	1/2	1,180.35	1/2	1,540.69	1/2	1,900.56	1/2	2,260.50	1/2	2,621.00	1/2	2,981.39	1/2	3,341.62
3/4	120.55	3/4	481.09	3/4	828.03	3/4	1,187.86	3/4	1,548.20	3/4	1,908.05	3/4	2,268.01	3/4	2,628.51	3/4	2,988.90	3/4	3,349.13
4	128.07	4	488.60	4	835.25	4	1,195.37	4	1,555.70	4	1,915.53	4	2,275.52	4	2,636.02	4	2,996.40	4	3,356.64
1/4	135.58	1/4	495.83	1/4	842.74	1/4	1,202.87	1/4	1,563.21	1/4	1,923.02	1/4	2,283.03	1/4	2,643.53	1/4	3,003.90	1/4	3,364.15
1/2	143.09	1/2	503.06	1/2	850.24	1/2	1,210.38	1/2	1,570.72	1/2	1,930.51	1/2	2,290.54	1/2	2,651.04	1/2	3,011.40	1/2	3,371.66
3/4	150.60	3/4	510.29	3/4	857.74	3/4	1,217.89	3/4	1,578.22	3/4	1,938.00	3/4	2,298.05	3/4	2,658.55	3/4	3,018.91	3/4	3,379.17
5	158.11	5	517.53	5	865.24	5	1,225.39	5	1,585.73	5	1,945.48	5	2,305.56	5	2,666.06	5	3,026.41	5	3,386.68
1/4	165.62	1/4	524.75	1/4	872.74	1/4	1,232.90	1/4	1,593.24	1/4	1,952.97	1/4	2,313.07	1/4	2,673.57	1/4	3,033.91	1/4	3,392.80
1/2	173.13	1/2	531.97	1/2	880.23	1/2	1,240.41	1/2	1,600.74	1/2	1,960.46	1/2	2,320.58	1/2	2,681.08	1/2	3,041.42	1/2	3,398.93
3/4	180.64	3/4	539.19	3/4	887.73	3/4	1,247.92	3/4	1,608.25	3/4	1,967.95	3/4	2,328.10	3/4	2,688.59	3/4	3,048.92	3/4	3,405.05
6	188.16	6	546.41	6	895.23	6	1,255.42	6	1,615.76	6	1,975.43	6	2,335.61	6	2,696.10	6	3,056.42	6	3,411.17
1/4	195.67	1/4	553.63	1/4	902.73	1/4	1,262.93	1/4	1,623.27	1/4	1,982.92	1/4	2,343.12	1/4	2,703.61	1/4	3,063.93	1/4	3,417.29
1/2	203.18	1/2	560.85	1/2	910.23	1/2	1,270.44	1/2	1,630.77	1/2	1,990.41	1/2	2,350.63	1/2	2,711.12	1/2	3,071.43	1/2	3,423.41
3/4	210.69	3/4	568.07	3/4	917.72	3/4	1,277.94	3/4	1,638.28	3/4	1,997.90	3/4	2,358.14	3/4	2,718.63	3/4	3,078.93	3/4	3,429.54
7	218.20	7	575.29	7	925.22	7	1,285.45	7	1,645.79	7	2,005.38	7	2,365.65	7	2,726.14	7	3,086.44	7	3,435.66
1/4	225.71	1/4	582.51	1/4	932.72	1/4	1,292.96	1/4	1,653.29	1/4	2,012.87	1/4	2,373.16	1/4	2,733.65	1/4	3,093.94	1/4	3,441.78
1/2	233.22	1/2	589.73	1/2	940.22	1/2	1,300.46	1/2	1,660.80	1/2	2,020.36	1/2	2,380.67	1/2	2,741.16	1/2	3,101.44	1/2	3,447.90
3/4	240.73	3/4	596.95	3/4	947.72	3/4	1,307.97	3/4	1,668.31	3/4	2,027.84	3/4	2,388.18	3/4	2,748.67	3/4	3,108.95	3/4	3,454.03
8	248.25	8	604.17	8	955.21	8	1,315.48	8	1,675.81	8	2,035.33	8	2,395.69	8	2,756.18	8	3,116.45	8	3,460.15
1/4	255.76	1/4	611.39	1/4	962.71	1/4	1,322.99	1/4	1,683.32	1/4	2,042.82	1/4	2,403.20	1/4	2,763.69	1/4	3,123.95	1/4	3,466.27
1/2	263.27	1/2	618.61	1/2	970.21	1/2	1,330.49	1/2	1,690.83	1/2	2,050.31	1/2	2,410.71	1/2	2,771.20	1/2	3,131.46	1/2	3,472.39
3/4	270.78	3/4	625.82	3/4	977.71	3/4	1,338.00	3/4	1,698.34	3/4	2,057.79	3/4	2,418.22	3/4	2,778.71	3/4	3,138.96	3/4	3,478.51
9	278.29	9	633.04	9	985.21	9	1,345.51	9	1,705.84	9	2,065.28	9	2,425.73	9	2,786.22	9	3,146.46	9	3,484.64
1/4	285.80	1/4	640.26	1/4	992.70	1/4	1,353.01	1/4	1,713.34	1/4	2,072.78	1/4	2,433.24	1/4	2,793.73	1/4	3,153.97	1/4	3,490.76
1/2	293.31	1/2	647.47	1/2	1,000.20	1/2	1,360.52	1/2	1,720.84	1/2	2,080.28	1/2	2,440.75	1/2	2,801.24	1/2	3,161.47	1/2	3,496.88
3/4	300.82	3/4	654.69	3/4	1,007.70	3/4	1,368.03	3/4	1,728.34	3/4	2,087.78	3/4	2,448.26	3/4	2,808.75	3/4	3,168.97	3/4	3,503.00
10	308.33	10	661.91	10	1,015.20	10	1,375.53	10	1,735.84	10	2,095.28	10	2,455.77	10	2,816.26	10	3,176.48	10	3,509.12
1/4	315.85	1/4	669.13	1/4	1,022.71	1/4	1,383.04	1/4	1,743.32	1/4	2,102.79	1/4	2,463.28	1/4	2,823.78	1/4	3,183.98	1/4	3,515.25
1/2	323.36	1/2	676.35	1/2	1,030.21	1/2	1,390.55	1/2	1,750.81	1/2	2,110.30	1/2	2,470.79	1/2	2,831.29	1/2	3,191.48	1/2	3,521.37
3/4	330.87	3/4	683.57	3/4	1,037.72	3/4	1,398.06	3/4	1,758.30	3/4	2,117.81	3/4	2,478.30	3/4	2,838.80	3/4	3,198.98	3/4	3,527.49
11	338.38	11	690.79	11	1,045.23	11	1,405.56	11	1,765.79	11	2,125.32	11	2,485.81	11	2,846.31	11	3,206.48	11	3,533.61
1/4	345.89	1/4	698.01	1/4	1,052.73	1/4	1,413.07	1/4	1,773.27	1/4	2,132.83	1/4	2,493.32	1/4	2,853.82	1/4	3,213.99	1/4	3,539.73
1/2	353.40	1/2	705.23	1/2	1,060.24	1/2	1,420.58	1/2	1,780.76	1/2	2,140.34	1/2	2,500.83	1/2	2,861.33	1/2	3,221.49	1/2	3,545.86
3/4	360.91	3/4	712.45	3/4	1,067.75	3/4	1,428.08	3/4	1,788.25	3/4	2,147.85	3/4	2,508.34	3/4	2,868.84	3/4	3,228.99	3/4	3,551.98

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.  
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.  
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.  
 CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN TO TOP OF 2" DIAMETER "HERMETIC" VALVE.  
 GAUGE POINT: (HERMETIC) LOCATED 12'-06" OFF CENTERLINE AND 45'-00" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT  
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmacorp.net>



# BARGE "EMS 388"

## 3 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 14'-10 1/2"

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.	
IN		IN		IN		IN		IN		IN		IN		IN		IN		IN	
0	3,558.10	0	3,851.80	0	4,132.44	0	4,390.84	0		0		0		0		0		0	
1/4	3,564.22	1/4	3,857.86	1/4	4,138.05	1/4	4,395.96	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,570.34	1/2	3,863.91	1/2	4,143.65	1/2	4,401.08	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,576.47	3/4	3,869.96	3/4	4,149.26	3/4	4,406.20	3/4		3/4		3/4		3/4		3/4		3/4	
1	3,582.59	1	3,876.01	1	4,154.86	1	4,411.32	1		1		1		1		1		1	
1/4	3,588.71	1/4	3,882.03	1/4	4,160.43	1/4	4,416.40	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,594.83	1/2	3,888.04	1/2	4,165.99	1/2	4,421.48	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,600.96	3/4	3,894.06	3/4	4,171.56	3/4	4,426.57	3/4		3/4		3/4		3/4		3/4		3/4	
2	3,607.08	2	3,900.07	2	4,177.13	2	4,431.65	2		2		2		2		2		2	
1/4	3,613.20	1/4	3,906.05	1/4	4,182.66	1/4	4,436.69	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,619.32	1/2	3,912.03	1/2	4,188.18	1/2	4,441.74	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,625.44	3/4	3,918.00	3/4	4,193.71	3/4	4,446.78	3/4		3/4		3/4		3/4		3/4		3/4	
3	3,631.57	3	3,923.98	3	4,199.24	3	4,451.83	3		3		3		3		3		3	
1/4	3,637.69	1/4	3,929.92	1/4	4,204.73	1/4	4,456.83	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,643.81	1/2	3,935.86	1/2	4,210.23	1/2	4,461.84	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,649.93	3/4	3,941.80	3/4	4,215.72	3/4	4,466.85	3/4		3/4		3/4		3/4		3/4		3/4	
4	3,656.05	4	3,947.74	4	4,221.21	4	4,471.86	4		4		4		4		4		4	
1/4	3,662.18	1/4	3,953.64	1/4	4,226.66	1/4	4,477.39	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,668.30	1/2	3,959.55	1/2	4,232.12	1/2	4,482.93	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,674.42	3/4	3,965.45	3/4	4,237.57	3/4	4,488.47	3/4		3/4		3/4		3/4		3/4		3/4	
5	3,680.54	5	3,971.35	5	4,243.03	5	4,494.01	5		5		5		5		5		5	
1/4	3,686.66	1/4	3,977.22	1/4	4,248.44	1/4	4,500.09	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,692.79	1/2	3,983.08	1/2	4,253.86	1/2	4,506.18	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,698.91	3/4	3,988.95	3/4	4,259.28	3/4	4,512.26	3/4		3/4		3/4		3/4		3/4		3/4	
6	3,705.03	6	3,994.81	6	4,264.70	6	4,518.35	6		6		6		6		6		6	
1/4	3,711.15	1/4	4,000.64	1/4	4,270.08	1/4	4,524.44	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,717.28	1/2	4,006.47	1/2	4,275.46	1/2	4,530.52	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,723.40	3/4	4,012.30	3/4	4,280.84	3/4	4,536.61	3/4		3/4		3/4		3/4		3/4		3/4	
7	3,729.52	7	4,018.13	7	4,286.22	7	4,542.69	7		7		7		7		7		7	
1/4	3,735.64	1/4	4,023.92	1/4	4,291.52	1/4	4,550.08	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,741.76	1/2	4,029.71	1/2	4,296.83	1/2	4,557.47	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,747.89	3/4	4,035.50	3/4	4,302.13	3/4	4,564.85	3/4		3/4		3/4		3/4		3/4		3/4	
8	3,754.01	8	4,041.29	8	4,307.44	8	4,572.24	8		8		8		8		8		8	
1/4	3,760.13	1/4	4,047.04	1/4	4,312.71	1/4	4,578.95	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,766.25	1/2	4,052.80	1/2	4,317.98	1/2	4,585.65	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,772.37	3/4	4,058.55	3/4	4,323.25	3/4	4,592.35	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,778.50	9	4,064.30	9	4,328.51	9	4,599.06	9		9		9		9		9		9	
1/4	3,784.62	1/4	4,070.02	1/4	4,333.75	1/4	4,604.39	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,790.74	1/2	4,075.73	1/2	4,338.98	1/2	4,609.73	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,796.86	3/4	4,081.45	3/4	4,344.21	3/4	4,615.07	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,802.98	10	4,087.17	10	4,349.44	10		10		10		10		10		10		10	
1/4	3,809.10	1/4	4,092.84	1/4	4,354.63	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,815.22	1/2	4,098.52	1/2	4,359.83	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,821.33	3/4	4,104.20	3/4	4,365.02	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
11	3,827.45	11	4,109.88	11	4,370.22	11		11		11		11		11		11		11	
1/4	3,833.54	1/4	4,115.52	1/4	4,375.37	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,839.63	1/2	4,121.16	1/2	4,380.53	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,845.72	3/4	4,126.80	3/4	4,385.69	3/4		3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 01/17/2014 CL  
CALCULATED: 01/18/2014 CL  
PRINTED: 01/19/2014 SW

CANCELS AND SUPERCEDES  
ALL PRIOR TO 01/2014

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





# BARGE "EMS 388"

## 3 STBD INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 14'-10 1/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	17.55	0	368.05	0	720.65	0	1,077.04	0	1,437.03	0	1,796.27	0	2,153.49	0	2,513.34	0	2,873.37	0	3,233.08
1/4	22.92	1/4	375.55	1/4	727.92	1/4	1,084.54	1/4	1,444.52	1/4	1,803.70	1/4	2,160.99	1/4	2,520.83	1/4	2,880.86	1/4	3,240.58
1/2	28.29	1/2	383.05	1/2	735.18	1/2	1,092.04	1/2	1,452.02	1/2	1,811.12	1/2	2,168.50	1/2	2,528.32	1/2	2,888.36	1/2	3,248.08
3/4	33.65	3/4	390.55	3/4	742.45	3/4	1,099.54	3/4	1,459.52	3/4	1,818.55	3/4	2,176.00	3/4	2,535.81	3/4	2,895.85	3/4	3,255.58
1	39.02	1	398.06	1	749.72	1	1,107.04	1	1,467.02	1	1,825.98	1	2,183.50	1	2,543.31	1	2,903.34	1	3,263.08
1/4	46.25	1/4	405.56	1/4	757.00	1/4	1,114.54	1/4	1,474.52	1/4	1,833.40	1/4	2,191.01	1/4	2,550.81	1/4	2,910.84	1/4	3,270.58
1/2	53.49	1/2	413.06	1/2	764.28	1/2	1,122.04	1/2	1,482.02	1/2	1,840.83	1/2	2,198.51	1/2	2,558.31	1/2	2,918.33	1/2	3,278.08
3/4	60.72	3/4	420.56	3/4	771.55	3/4	1,129.54	3/4	1,489.52	3/4	1,848.25	3/4	2,206.01	3/4	2,565.81	3/4	2,925.83	3/4	3,285.59
2	67.95	2	428.06	2	778.83	2	1,137.04	2	1,497.02	2	1,855.68	2	2,213.51	2	2,573.31	2	2,933.32	2	3,293.09
1/4	75.46	1/4	435.57	1/4	786.11	1/4	1,144.54	1/4	1,504.52	1/4	1,863.11	1/4	2,221.02	1/4	2,580.81	1/4	2,940.82	1/4	3,300.59
1/2	82.96	1/2	443.07	1/2	793.39	1/2	1,152.04	1/2	1,512.02	1/2	1,870.53	1/2	2,228.52	1/2	2,588.31	1/2	2,948.31	1/2	3,308.09
3/4	90.46	3/4	450.57	3/4	800.67	3/4	1,159.54	3/4	1,519.52	3/4	1,877.96	3/4	2,236.02	3/4	2,595.82	3/4	2,955.80	3/4	3,315.59
3	97.96	3	458.07	3	807.94	3	1,167.04	3	1,527.02	3	1,885.38	3	2,243.53	3	2,603.32	3	2,963.30	3	3,323.09
1/4	105.47	1/4	465.58	1/4	815.22	1/4	1,174.54	1/4	1,534.52	1/4	1,892.81	1/4	2,251.03	1/4	2,610.82	1/4	2,970.79	1/4	3,330.59
1/2	112.97	1/2	473.08	1/2	822.50	1/2	1,182.04	1/2	1,542.02	1/2	1,900.24	1/2	2,258.53	1/2	2,618.32	1/2	2,978.29	1/2	3,338.09
3/4	120.47	3/4	480.58	3/4	829.78	3/4	1,189.54	3/4	1,549.52	3/4	1,907.66	3/4	2,266.03	3/4	2,625.82	3/4	2,985.78	3/4	3,345.59
4	127.97	4	488.08	4	837.06	4	1,197.04	4	1,557.02	4	1,915.09	4	2,273.54	4	2,633.32	4	2,993.27	4	3,353.09
1/4	135.47	1/4	495.36	1/4	844.56	1/4	1,204.54	1/4	1,564.52	1/4	1,922.51	1/4	2,281.04	1/4	2,640.82	1/4	3,000.77	1/4	3,360.59
1/2	142.98	1/2	502.64	1/2	852.06	1/2	1,212.04	1/2	1,572.02	1/2	1,929.94	1/2	2,288.54	1/2	2,648.33	1/2	3,008.26	1/2	3,368.09
3/4	150.48	3/4	509.91	3/4	859.56	3/4	1,219.54	3/4	1,579.52	3/4	1,937.37	3/4	2,296.05	3/4	2,655.83	3/4	3,015.76	3/4	3,375.59
5	157.98	5	517.19	5	867.06	5	1,227.04	5	1,587.02	5	1,944.79	5	2,303.55	5	2,663.33	5	3,023.25	5	3,383.09
1/4	165.48	1/4	524.46	1/4	874.56	1/4	1,234.54	1/4	1,594.52	1/4	1,952.22	1/4	2,311.04	1/4	2,670.83	1/4	3,030.75	1/4	3,389.22
1/2	172.99	1/2	531.73	1/2	882.05	1/2	1,242.04	1/2	1,602.02	1/2	1,959.64	1/2	2,318.53	1/2	2,678.33	1/2	3,038.24	1/2	3,395.34
3/4	180.49	3/4	538.99	3/4	889.55	3/4	1,249.54	3/4	1,609.52	3/4	1,967.07	3/4	2,326.03	3/4	2,685.83	3/4	3,045.73	3/4	3,401.47
6	187.99	6	546.26	6	897.05	6	1,257.03	6	1,617.02	6	1,974.50	6	2,333.52	6	2,693.33	6	3,053.23	6	3,407.59
1/4	195.49	1/4	553.53	1/4	904.55	1/4	1,264.53	1/4	1,624.52	1/4	1,981.92	1/4	2,341.01	1/4	2,700.84	1/4	3,060.72	1/4	3,413.72
1/2	203.00	1/2	560.80	1/2	912.05	1/2	1,272.03	1/2	1,632.01	1/2	1,989.35	1/2	2,348.50	1/2	2,708.34	1/2	3,068.22	1/2	3,419.84
3/4	210.50	3/4	568.06	3/4	919.55	3/4	1,279.53	3/4	1,639.51	3/4	1,996.77	3/4	2,356.00	3/4	2,715.84	3/4	3,075.71	3/4	3,425.97
7	218.00	7	575.33	7	927.05	7	1,287.03	7	1,647.01	7	2,004.20	7	2,363.49	7	2,723.34	7	3,083.20	7	3,432.09
1/4	225.50	1/4	582.60	1/4	934.55	1/4	1,294.53	1/4	1,654.51	1/4	2,011.63	1/4	2,370.98	1/4	2,730.84	1/4	3,090.70	1/4	3,438.22
1/2	233.00	1/2	589.87	1/2	942.05	1/2	1,302.03	1/2	1,662.01	1/2	2,019.05	1/2	2,378.47	1/2	2,738.34	1/2	3,098.19	1/2	3,444.34
3/4	240.51	3/4	597.14	3/4	949.55	3/4	1,309.53	3/4	1,669.51	3/4	2,026.48	3/4	2,385.97	3/4	2,745.84	3/4	3,105.69	3/4	3,450.46
8	248.01	8	604.40	8	957.05	8	1,317.03	8	1,677.01	8	2,033.90	8	2,393.46	8	2,753.34	8	3,113.18	8	3,456.59
1/4	255.51	1/4	611.67	1/4	964.55	1/4	1,324.53	1/4	1,684.51	1/4	2,041.33	1/4	2,400.95	1/4	2,760.85	1/4	3,120.68	1/4	3,462.71
1/2	263.01	1/2	618.93	1/2	972.05	1/2	1,332.03	1/2	1,692.01	1/2	2,048.76	1/2	2,408.44	1/2	2,768.35	1/2	3,128.17	1/2	3,468.84
3/4	270.52	3/4	626.19	3/4	979.55	3/4	1,339.53	3/4	1,699.51	3/4	2,056.18	3/4	2,415.93	3/4	2,775.85	3/4	3,135.66	3/4	3,474.96
9	278.02	9	633.46	9	987.05	9	1,347.03	9	1,707.01	9	2,063.61	9	2,423.43	9	2,783.35	9	3,143.16	9	3,481.09
1/4	285.52	1/4	640.72	1/4	994.55	1/4	1,354.53	1/4	1,714.47	1/4	2,071.07	1/4	2,430.92	1/4	2,790.85	1/4	3,150.65	1/4	3,487.21
1/2	293.02	1/2	647.98	1/2	1,002.05	1/2	1,362.03	1/2	1,721.94	1/2	2,078.54	1/2	2,438.41	1/2	2,798.35	1/2	3,158.15	1/2	3,493.34
3/4	300.53	3/4	655.24	3/4	1,009.55	3/4	1,369.53	3/4	1,729.40	3/4	2,086.00	3/4	2,445.90	3/4	2,805.85	3/4	3,165.64	3/4	3,499.46
10	308.03	10	662.51	10	1,017.05	10	1,377.03	10	1,736.86	10	2,093.47	10	2,453.40	10	2,813.36	10	3,173.14	10	3,505.59
1/4	315.53	1/4	669.78	1/4	1,024.55	1/4	1,384.53	1/4	1,744.29	1/4	2,100.97	1/4	2,460.89	1/4	2,820.86	1/4	3,180.63	1/4	3,511.71
1/2	323.03	1/2	677.04	1/2	1,032.05	1/2	1,392.03	1/2	1,751.72	1/2	2,108.47	1/2	2,468.38	1/2	2,828.36	1/2	3,188.12	1/2	3,517.84
3/4	330.53	3/4	684.31	3/4	1,039.55	3/4	1,399.53	3/4	1,759.14	3/4	2,115.98	3/4	2,475.87	3/4	2,835.86	3/4	3,195.61	3/4	3,523.96
11	338.04	11	691.58	11	1,047.05	11	1,407.03	11	1,766.57	11	2,123.48	11	2,483.37	11	2,843.36	11	3,203.11	11	3,530.09
1/4	345.54	1/4	698.85	1/4	1,054.55	1/4	1,414.53	1/4	1,773.99	1/4	2,130.98	1/4	2,490.86	1/4	2,850.86	1/4	3,210.60	1/4	3,536.21
1/2	353.04	1/2	706.11	1/2	1,062.05	1/2	1,422.03	1/2	1,781.42	1/2	2,138.49	1/2	2,498.35	1/2	2,858.36	1/2	3,218.09	1/2	3,542.34
3/4	360.54	3/4	713.38	3/4	1,069.54	3/4	1,429.53	3/4	1,788.85	3/4	2,145.99	3/4	2,505.84	3/4	2,865.87	3/4	3,225.59	3/4	3,548.46

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.  
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.  
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.  
 CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN TO TOP OF 2" DIAMETER "HERMETIC" VALVE.  
 GAUGE POINT: (HERMETIC) LOCATED 12'-06" OFF CENTERLINE AND 45'-00" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT  
 & ANALYSIS, INC.  
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# BARGE "EMS 388"

## 3 STBD INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 14'-10 1/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	3,554.58	0	3,848.41	0	4,129.17	0	4,387.68	0		0		0		0		0		0	
1/4	3,560.71	1/4	3,854.46	1/4	4,134.77	1/4	4,392.81	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,566.83	1/2	3,860.52	1/2	4,140.38	1/2	4,397.93	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,572.96	3/4	3,866.57	3/4	4,145.99	3/4	4,403.05	3/4		3/4		3/4		3/4		3/4		3/4	
1	3,579.08	1	3,872.63	1	4,151.59	1	4,408.17	1		1		1		1		1		1	
1/4	3,585.21	1/4	3,878.64	1/4	4,157.16	1/4	4,413.26	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,591.33	1/2	3,884.66	1/2	4,162.73	1/2	4,418.34	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,597.46	3/4	3,890.68	3/4	4,168.30	3/4	4,423.42	3/4		3/4		3/4		3/4		3/4		3/4	
2	3,603.58	2	3,896.70	2	4,173.87	2	4,428.51	2		2		2		2		2		2	
1/4	3,609.71	1/4	3,902.68	1/4	4,179.40	1/4	4,433.56	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,615.83	1/2	3,908.66	1/2	4,184.93	1/2	4,438.60	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,621.96	3/4	3,914.64	3/4	4,190.46	3/4	4,443.65	3/4		3/4		3/4		3/4		3/4		3/4	
3	3,628.08	3	3,920.62	3	4,196.00	3	4,448.70	3		3		3		3		3		3	
1/4	3,634.21	1/4	3,926.56	1/4	4,201.49	1/4	4,453.71	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,640.33	1/2	3,932.50	1/2	4,206.98	1/2	4,458.72	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,646.46	3/4	3,938.44	3/4	4,212.48	3/4	4,463.73	3/4		3/4		3/4		3/4		3/4		3/4	
4	3,652.58	4	3,944.39	4	4,217.97	4	4,468.74	4		4		4		4		4		4	
1/4	3,658.70	1/4	3,950.29	1/4	4,223.43	1/4	4,474.28	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,664.83	1/2	3,956.20	1/2	4,228.89	1/2	4,479.82	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,670.95	3/4	3,962.10	3/4	4,234.34	3/4	4,485.36	3/4		3/4		3/4		3/4		3/4		3/4	
5	3,677.08	5	3,968.01	5	4,239.80	5	4,490.90	5		5		5		5		5		5	
1/4	3,683.20	1/4	3,973.87	1/4	4,245.22	1/4	4,496.98	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,689.33	1/2	3,979.74	1/2	4,250.64	1/2	4,503.07	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,695.45	3/4	3,985.61	3/4	4,256.06	3/4	4,509.16	3/4		3/4		3/4		3/4		3/4		3/4	
6	3,701.58	6	3,991.48	6	4,261.48	6	4,515.25	6		6		6		6		6		6	
1/4	3,707.70	1/4	3,997.31	1/4	4,266.86	1/4	4,521.34	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,713.83	1/2	4,003.14	1/2	4,272.24	1/2	4,527.43	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,719.95	3/4	4,008.97	3/4	4,277.63	3/4	4,533.51	3/4		3/4		3/4		3/4		3/4		3/4	
7	3,726.08	7	4,014.80	7	4,283.01	7	4,539.60	7		7		7		7		7		7	
1/4	3,732.20	1/4	4,020.59	1/4	4,288.32	1/4	4,546.99	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,738.33	1/2	4,026.39	1/2	4,293.63	1/2	4,554.38	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,744.45	3/4	4,032.18	3/4	4,298.93	3/4	4,561.77	3/4		3/4		3/4		3/4		3/4		3/4	
8	3,750.57	8	4,037.97	8	4,304.24	8	4,569.16	8		8		8		8		8		8	
1/4	3,756.70	1/4	4,043.73	1/4	4,309.51	1/4	4,575.87	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,762.82	1/2	4,049.48	1/2	4,314.78	1/2	4,582.57	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,768.95	3/4	4,055.24	3/4	4,320.06	3/4	4,589.28	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,775.07	9	4,061.00	9	4,325.33	9	4,595.98	9		9		9		9		9		9	
1/4	3,781.20	1/4	4,066.71	1/4	4,330.56	1/4	4,601.32	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,787.32	1/2	4,072.43	1/2	4,335.79	1/2	4,606.66	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,793.45	3/4	4,078.15	3/4	4,341.03	3/4	4,612.00	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,799.57	10	4,083.87	10	4,346.26	10		10		10		10		10		10		10	
1/4	3,805.69	1/4	4,089.55	1/4	4,351.46	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,811.81	1/2	4,095.23	1/2	4,356.66	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,817.92	3/4	4,100.91	3/4	4,361.85	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
11	3,824.04	11	4,106.59	11	4,367.05	11		11		11		11		11		11		11	
1/4	3,830.13	1/4	4,112.24	1/4	4,372.21	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,836.22	1/2	4,117.88	1/2	4,377.37	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,842.32	3/4	4,123.52	3/4	4,382.53	3/4		3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 01/17/2014 CL  
CALCULATED: 01/18/2014 CL  
PRINTED: 01/19/2014 SW

CANCELS AND SUPERCEDES  
ALL PRIOR TO 01/2014

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