



# BARGE "EMS 389"

## 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	- 00-5/8	00-5/8	- 00-7/8	00-7/8	- 01-1/8	01-1/8	- 01-3/8	01-3/8
2 STBD	- 00-1/4	00-1/4	- 00-1/2	00-1/2	- 00-5/8	00-5/8	- 00-7/8	00-7/8	- 01-1/8	01-1/8	- 01-3/8	01-3/8
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	- 00-5/8	00-5/8
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	- 00-5/8	00-5/8

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

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

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

LENGTH BETWEEN DRAFT MARKS: 236'-00"

February 28, 2014

**PRECISION MEASUREMENT  
& ANALYSIS, INC.**

P.O. Box 2092  
 Pearland, Texas 77588

<http://www.pmacorp.net>





# BARGE "EMS 389"

## 1 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 14'-10 3/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	3,179.05	0	3,510.72	0	3,830.35	0	4,129.39	0		0		0		0		0		0	
1/4	3,185.97	1/4	3,517.57	1/4	3,836.79	1/4	4,135.37	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,192.88	1/2	3,524.41	1/2	3,843.22	1/2	4,141.35	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,199.79	3/4	3,531.26	3/4	3,849.66	3/4	4,147.34	3/4		3/4		3/4		3/4		3/4		3/4	
1	3,206.70	1	3,538.11	1	3,856.09	1	4,153.32	1		1		1		1		1		1	
1/4	3,213.62	1/4	3,544.92	1/4	3,862.50	1/4	4,159.27	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,220.53	1/2	3,551.74	1/2	3,868.90	1/2	4,165.22	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,227.44	3/4	3,558.55	3/4	3,875.30	3/4	4,171.17	3/4		3/4		3/4		3/4		3/4		3/4	
2	3,234.35	2	3,565.36	2	3,881.70	2	4,177.11	2		2		2		2		2		2	
1/4	3,241.27	1/4	3,572.14	1/4	3,888.07	1/4	4,183.03	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,248.18	1/2	3,578.92	1/2	3,894.43	1/2	4,188.94	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,255.09	3/4	3,585.70	3/4	3,900.80	3/4	4,194.86	3/4		3/4		3/4		3/4		3/4		3/4	
3	3,262.01	3	3,592.48	3	3,907.17	3	4,200.77	3		3		3		3		3		3	
1/4	3,268.92	1/4	3,599.23	1/4	3,913.50	1/4	4,206.65	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,275.83	1/2	3,605.97	1/2	3,919.83	1/2	4,212.53	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,282.74	3/4	3,612.72	3/4	3,926.16	3/4	4,218.41	3/4		3/4		3/4		3/4		3/4		3/4	
4	3,289.66	4	3,619.46	4	3,932.50	4	4,224.29	4		4		4		4		4		4	
1/4	3,296.57	1/4	3,626.17	1/4	3,938.80	1/4	4,230.66	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,303.48	1/2	3,632.88	1/2	3,945.09	1/2	4,237.03	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,310.39	3/4	3,639.59	3/4	3,951.39	3/4	4,243.39	3/4		3/4		3/4		3/4		3/4		3/4	
5	3,317.31	5	3,646.30	5	3,957.69	5	4,249.76	5		5		5		5		5		5	
1/4	3,324.22	1/4	3,652.98	1/4	3,963.95	1/4	4,256.64	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,331.13	1/2	3,659.66	1/2	3,970.22	1/2	4,263.51	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,338.04	3/4	3,666.33	3/4	3,976.48	3/4	4,270.38	3/4		3/4		3/4		3/4		3/4		3/4	
6	3,344.96	6	3,673.01	6	3,982.74	6	4,277.25	6		6		6		6		6		6	
1/4	3,351.87	1/4	3,679.65	1/4	3,988.97	1/4	4,284.13	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,358.78	1/2	3,686.29	1/2	3,995.20	1/2	4,291.00	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,365.69	3/4	3,692.94	3/4	4,001.43	3/4	4,297.87	3/4		3/4		3/4		3/4		3/4		3/4	
7	3,372.61	7	3,699.58	7	4,007.66	7	4,304.74	7		7		7		7		7		7	
1/4	3,379.52	1/4	3,706.18	1/4	4,013.82	1/4	4,311.54	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,386.43	1/2	3,712.79	1/2	4,019.97	1/2	4,318.34	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,393.34	3/4	3,719.40	3/4	4,026.13	3/4	4,325.14	3/4		3/4		3/4		3/4		3/4		3/4	
8	3,400.26	8	3,726.01	8	4,032.28	8	4,331.94	8		8		8		8		8		8	
1/4	3,407.17	1/4	3,732.58	1/4	4,038.40	1/4	4,338.11	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,414.08	1/2	3,739.15	1/2	4,044.52	1/2	4,344.28	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,421.00	3/4	3,745.73	3/4	4,050.64	3/4	4,350.45	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,427.91	9	3,752.30	9	4,056.76	9	4,356.62	9		9		9		9		9		9	
1/4	3,434.82	1/4	3,758.84	1/4	4,062.85	1/4	4,361.53	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,441.73	1/2	3,765.38	1/2	4,068.94	1/2	4,366.44	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,448.65	3/4	3,771.92	3/4	4,075.02	3/4	4,371.36	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,455.56	10	3,778.45	10	4,081.11	10	=====	10		10		10		10		10		10	
1/4	3,462.47	1/4	3,784.96	1/4	4,087.16	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,469.37	1/2	3,791.46	1/2	4,093.21	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,476.28	3/4	3,797.97	3/4	4,099.26	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
11	3,483.19	11	3,804.47	11	4,105.32	11		11		11		11		11		11		11	
1/4	3,490.07	1/4	3,810.94	1/4	4,111.33	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,496.95	1/2	3,817.41	1/2	4,117.35	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,503.84	3/4	3,823.88	3/4	4,123.37	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 389"

## 1 STBD INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 14'-11 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	3,179.97	0	3,511.57	0	3,831.16	0	4,130.15	0		0		0		0		0		0	
1/4	3,186.88	1/4	3,518.42	1/4	3,837.60	1/4	4,136.13	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,193.79	1/2	3,525.27	1/2	3,844.03	1/2	4,142.11	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,200.70	3/4	3,532.11	3/4	3,850.47	3/4	4,148.10	3/4		3/4		3/4		3/4		3/4		3/4	
1	3,207.61	1	3,538.96	1	3,856.90	1	4,154.08	1		1		1		1		1		1	
1/4	3,214.52	1/4	3,545.77	1/4	3,863.30	1/4	4,160.03	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,221.44	1/2	3,552.59	1/2	3,869.70	1/2	4,165.97	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,228.35	3/4	3,559.40	3/4	3,876.10	3/4	4,171.92	3/4		3/4		3/4		3/4		3/4		3/4	
2	3,235.26	2	3,566.21	2	3,882.50	2	4,177.87	2		2		2		2		2		2	
1/4	3,242.17	1/4	3,572.99	1/4	3,888.87	1/4	4,183.78	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,249.08	1/2	3,579.77	1/2	3,895.23	1/2	4,189.70	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,255.99	3/4	3,586.55	3/4	3,901.60	3/4	4,195.61	3/4		3/4		3/4		3/4		3/4		3/4	
3	3,262.90	3	3,593.33	3	3,907.97	3	4,201.52	3		3		3		3		3		3	
1/4	3,269.82	1/4	3,600.07	1/4	3,914.30	1/4	4,207.40	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,276.73	1/2	3,606.81	1/2	3,920.63	1/2	4,213.28	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,283.64	3/4	3,613.56	3/4	3,926.96	3/4	4,219.16	3/4		3/4		3/4		3/4		3/4		3/4	
4	3,290.55	4	3,620.30	4	3,933.29	4	4,225.04	4		4		4		4		4		4	
1/4	3,297.46	1/4	3,627.01	1/4	3,939.59	1/4	4,231.40	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,304.37	1/2	3,633.72	1/2	3,945.89	1/2	4,237.77	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,311.29	3/4	3,640.43	3/4	3,952.18	3/4	4,244.14	3/4		3/4		3/4		3/4		3/4		3/4	
5	3,318.20	5	3,647.14	5	3,958.48	5	4,250.50	5		5		5		5		5		5	
1/4	3,325.11	1/4	3,653.82	1/4	3,964.74	1/4	4,257.38	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,332.02	1/2	3,660.49	1/2	3,971.01	1/2	4,264.25	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,338.93	3/4	3,667.17	3/4	3,977.27	3/4	4,271.12	3/4		3/4		3/4		3/4		3/4		3/4	
6	3,345.84	6	3,673.84	6	3,983.53	6	4,277.99	6		6		6		6		6		6	
1/4	3,352.75	1/4	3,680.48	1/4	3,989.76	1/4	4,284.86	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,359.67	1/2	3,687.12	1/2	3,995.99	1/2	4,291.74	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,366.58	3/4	3,693.77	3/4	4,002.22	3/4	4,298.61	3/4		3/4		3/4		3/4		3/4		3/4	
7	3,373.49	7	3,700.41	7	4,008.44	7	4,305.48	7		7		7		7		7		7	
1/4	3,380.40	1/4	3,707.01	1/4	4,014.60	1/4	4,312.28	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,387.31	1/2	3,713.62	1/2	4,020.75	1/2	4,319.07	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,394.22	3/4	3,720.23	3/4	4,026.91	3/4	4,325.87	3/4		3/4		3/4		3/4		3/4		3/4	
8	3,401.13	8	3,726.83	8	4,033.06	8	4,332.67	8		8		8		8		8		8	
1/4	3,408.05	1/4	3,733.41	1/4	4,039.18	1/4	4,338.84	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,414.96	1/2	3,739.98	1/2	4,045.30	1/2	4,345.01	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,421.87	3/4	3,746.55	3/4	4,051.42	3/4	4,351.18	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,428.78	9	3,753.12	9	4,057.54	9	4,357.35	9		9		9		9		9		9	
1/4	3,435.69	1/4	3,759.66	1/4	4,063.62	1/4	4,362.26	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,442.60	1/2	3,766.20	1/2	4,069.71	1/2	4,367.18	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,449.52	3/4	3,772.73	3/4	4,075.79	3/4	4,372.09	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,456.43	10	3,779.27	10	4,081.88	10	=====	10		10		10		10		10		10	
1/4	3,463.33	1/4	3,785.78	1/4	4,087.93	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,470.24	1/2	3,792.28	1/2	4,093.98	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,477.14	3/4	3,798.78	3/4	4,100.03	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
11	3,484.05	11	3,805.29	11	4,106.08	11		11		11		11		11		11		11	
1/4	3,490.93	1/4	3,811.76	1/4	4,112.10	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,497.81	1/2	3,818.22	1/2	4,118.12	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,504.69	3/4	3,824.69	3/4	4,124.13	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 389"

## 2 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 14'-10 3/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	3,875.37	0	4,263.38	0	4,637.31	0	4,987.11	0		0		0		0		0		0	
1/4	3,883.46	1/4	4,271.39	1/4	4,644.83	1/4	4,994.11	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,891.55	1/2	4,279.40	1/2	4,652.36	1/2	5,001.11	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,899.63	3/4	4,287.41	3/4	4,659.89	3/4	5,008.11	3/4		3/4		3/4		3/4		3/4		3/4	
1	3,907.72	1	4,295.42	1	4,667.42	1	5,015.11	1		1		1		1		1		1	
1/4	3,915.81	1/4	4,303.39	1/4	4,674.91	1/4	5,022.07	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,923.89	1/2	4,311.36	1/2	4,682.40	1/2	5,029.03	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,931.98	3/4	4,319.34	3/4	4,689.89	3/4	5,035.98	3/4		3/4		3/4		3/4		3/4		3/4	
2	3,940.07	2	4,327.31	2	4,697.38	2	5,042.94	2		2		2		2		2		2	
1/4	3,948.16	1/4	4,335.24	1/4	4,704.82	1/4	5,049.86	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,956.24	1/2	4,343.17	1/2	4,712.27	1/2	5,056.78	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,964.33	3/4	4,351.10	3/4	4,719.72	3/4	5,063.70	3/4		3/4		3/4		3/4		3/4		3/4	
3	3,972.42	3	4,359.03	3	4,727.17	3	5,070.61	3		3		3		3		3		3	
1/4	3,980.50	1/4	4,366.92	1/4	4,734.58	1/4	5,077.49	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,988.59	1/2	4,374.81	1/2	4,741.98	1/2	5,084.37	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,996.68	3/4	4,382.70	3/4	4,749.39	3/4	5,091.25	3/4		3/4		3/4		3/4		3/4		3/4	
4	4,004.76	4	4,390.59	4	4,756.80	4	5,098.13	4		4		4		4		4		4	
1/4	4,012.85	1/4	4,398.44	1/4	4,764.17	1/4	5,105.57	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,020.94	1/2	4,406.30	1/2	4,771.54	1/2	5,113.02	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,029.03	3/4	4,414.15	3/4	4,778.90	3/4	5,120.47	3/4		3/4		3/4		3/4		3/4		3/4	
5	4,037.11	5	4,422.00	5	4,786.27	5	5,127.92	5		5		5		5		5		5	
1/4	4,045.20	1/4	4,429.81	1/4	4,793.60	1/4	5,135.96	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,053.29	1/2	4,437.62	1/2	4,800.93	1/2	5,144.00	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,061.37	3/4	4,445.43	3/4	4,808.25	3/4	5,152.04	3/4		3/4		3/4		3/4		3/4		3/4	
6	4,069.46	6	4,453.24	6	4,815.58	6	5,160.08	6		6		6		6		6		6	
1/4	4,077.55	1/4	4,461.01	1/4	4,822.87	1/4	5,168.12	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,085.63	1/2	4,468.78	1/2	4,830.15	1/2	5,176.16	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,093.72	3/4	4,476.55	3/4	4,837.44	3/4	5,184.20	3/4		3/4		3/4		3/4		3/4		3/4	
7	4,101.81	7	4,484.32	7	4,844.73	7	5,192.24	7		7		7		7		7		7	
1/4	4,109.90	1/4	4,492.05	1/4	4,851.93	1/4	5,200.19	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,117.98	1/2	4,499.78	1/2	4,859.13	1/2	5,208.15	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,126.07	3/4	4,507.51	3/4	4,866.33	3/4	5,216.10	3/4		3/4		3/4		3/4		3/4		3/4	
8	4,134.16	8	4,515.24	8	4,873.53	8	5,224.06	8		8		8		8		8		8	
1/4	4,142.24	1/4	4,522.93	1/4	4,880.69	1/4	5,231.28	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,150.33	1/2	4,530.62	1/2	4,887.85	1/2	5,238.50	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,158.42	3/4	4,538.31	3/4	4,895.01	3/4	5,245.72	3/4		3/4		3/4		3/4		3/4		3/4	
9	4,166.50	9	4,546.00	9	4,902.17	9	5,252.94	9		9		9		9		9		9	
1/4	4,174.59	1/4	4,553.65	1/4	4,909.29	1/4	5,258.68	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,182.68	1/2	4,561.30	1/2	4,916.40	1/2	5,264.43	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,190.77	3/4	4,568.94	3/4	4,923.52	3/4	5,270.18	3/4		3/4		3/4		3/4		3/4		3/4	
10	4,198.85	10	4,576.59	10	4,930.64	10		10		10		10		10		10		10	
1/4	4,206.93	1/4	4,584.20	1/4	4,937.72	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,215.01	1/2	4,591.81	1/2	4,944.80	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,223.09	3/4	4,599.42	3/4	4,951.88	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
11	4,231.17	11	4,607.03	11	4,958.96	11		11		11		11		11		11		11	
1/4	4,239.22	1/4	4,614.60	1/4	4,966.00	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,247.27	1/2	4,622.17	1/2	4,973.04	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,255.32	3/4	4,629.74	3/4	4,980.08	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 389"

## 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	3,890.72	0	4,278.77	0	4,652.74	0	5,002.59	0		0		0		0		0		0	
1/4	3,898.81	1/4	4,286.78	1/4	4,660.27	1/4	5,009.59	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,906.89	1/2	4,294.79	1/2	4,667.80	1/2	5,016.59	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,914.98	3/4	4,302.81	3/4	4,675.33	3/4	5,023.59	3/4		3/4		3/4		3/4		3/4		3/4	
1	3,923.07	1	4,310.82	1	4,682.86	1	5,030.59	1		1		1		1		1		1	
1/4	3,931.16	1/4	4,318.79	1/4	4,690.35	1/4	5,037.55	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,939.25	1/2	4,326.76	1/2	4,697.84	1/2	5,044.51	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,947.33	3/4	4,334.73	3/4	4,705.33	3/4	5,051.46	3/4		3/4		3/4		3/4		3/4		3/4	
2	3,955.42	2	4,342.71	2	4,712.82	2	5,058.42	2		2		2		2		2		2	
1/4	3,963.51	1/4	4,350.64	1/4	4,720.27	1/4	5,065.34	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,971.60	1/2	4,358.57	1/2	4,727.71	1/2	5,072.26	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,979.69	3/4	4,366.50	3/4	4,735.16	3/4	5,079.18	3/4		3/4		3/4		3/4		3/4		3/4	
3	3,987.77	3	4,374.43	3	4,742.61	3	5,086.10	3		3		3		3		3		3	
1/4	3,995.86	1/4	4,382.33	1/4	4,750.02	1/4	5,092.98	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,003.95	1/2	4,390.22	1/2	4,757.43	1/2	5,099.86	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,012.04	3/4	4,398.11	3/4	4,764.84	3/4	5,106.74	3/4		3/4		3/4		3/4		3/4		3/4	
4	4,020.13	4	4,406.00	4	4,772.25	4	5,113.61	4		4		4		4		4		4	
1/4	4,028.21	1/4	4,413.85	1/4	4,779.62	1/4	5,121.06	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,036.30	1/2	4,421.70	1/2	4,786.99	1/2	5,128.51	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,044.39	3/4	4,429.56	3/4	4,794.35	3/4	5,135.96	3/4		3/4		3/4		3/4		3/4		3/4	
5	4,052.48	5	4,437.41	5	4,801.72	5	5,143.41	5		5		5		5		5		5	
1/4	4,060.57	1/4	4,445.22	1/4	4,809.05	1/4	5,151.45	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,068.65	1/2	4,453.03	1/2	4,816.38	1/2	5,159.49	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,076.74	3/4	4,460.84	3/4	4,823.71	3/4	5,167.53	3/4		3/4		3/4		3/4		3/4		3/4	
6	4,084.83	6	4,468.65	6	4,831.04	6	5,175.57	6		6		6		6		6		6	
1/4	4,092.92	1/4	4,476.42	1/4	4,838.32	1/4	5,183.62	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,101.01	1/2	4,484.19	1/2	4,845.61	1/2	5,191.66	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,109.09	3/4	4,491.97	3/4	4,852.90	3/4	5,199.70	3/4		3/4		3/4		3/4		3/4		3/4	
7	4,117.18	7	4,499.74	7	4,860.19	7	5,207.74	7		7		7		7		7		7	
1/4	4,125.27	1/4	4,507.47	1/4	4,867.39	1/4	5,215.69	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,133.36	1/2	4,515.20	1/2	4,874.59	1/2	5,223.65	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,141.45	3/4	4,522.93	3/4	4,881.79	3/4	5,231.60	3/4		3/4		3/4		3/4		3/4		3/4	
8	4,149.53	8	4,530.66	8	4,888.99	8	5,239.56	8		8		8		8		8		8	
1/4	4,157.62	1/4	4,538.35	1/4	4,896.15	1/4	5,246.78	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,165.71	1/2	4,546.04	1/2	4,903.31	1/2	5,254.00	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,173.80	3/4	4,553.73	3/4	4,910.47	3/4	5,261.22	3/4		3/4		3/4		3/4		3/4		3/4	
9	4,181.89	9	4,561.42	9	4,917.63	9	5,268.44	9		9		9		9		9		9	
1/4	4,189.97	1/4	4,569.07	1/4	4,924.75	1/4	5,274.19	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,198.06	1/2	4,576.72	1/2	4,931.87	1/2	5,279.94	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,206.15	3/4	4,584.37	3/4	4,938.99	3/4	5,285.69	3/4		3/4		3/4		3/4		3/4		3/4	
10	4,214.24	10	4,592.02	10	4,946.11	10		10		10		10		10		10		10	
1/4	4,222.32	1/4	4,599.63	1/4	4,953.19	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,230.40	1/2	4,607.24	1/2	4,960.27	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,238.48	3/4	4,614.85	3/4	4,967.35	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
11	4,246.56	11	4,622.46	11	4,974.43	11		11		11		11		11		11		11	
1/4	4,254.61	1/4	4,630.03	1/4	4,981.47	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,262.66	1/2	4,637.60	1/2	4,988.51	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,270.72	3/4	4,645.17	3/4	4,995.55	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 389"

## 3 PORT 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	3,565.55	0	3,859.87	0	4,141.09	0	4,400.03	0		0		0		0		0		0	
1/4	3,571.68	1/4	3,865.93	1/4	4,146.71	1/4	4,405.16	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,577.82	1/2	3,872.00	1/2	4,152.32	1/2	4,410.29	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,583.95	3/4	3,878.06	3/4	4,157.94	3/4	4,415.42	3/4		3/4		3/4		3/4		3/4		3/4	
1	3,590.09	1	3,884.12	1	4,163.55	1	4,420.55	1		1		1		1		1		1	
1/4	3,596.22	1/4	3,890.15	1/4	4,169.13	1/4	4,425.65	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,602.36	1/2	3,896.18	1/2	4,174.71	1/2	4,430.74	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,608.49	3/4	3,902.21	3/4	4,180.29	3/4	4,435.83	3/4		3/4		3/4		3/4		3/4		3/4	
2	3,614.62	2	3,908.23	2	4,185.87	2	4,440.92	2		2		2		2		2		2	
1/4	3,620.76	1/4	3,914.22	1/4	4,191.41	1/4	4,445.98	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,626.89	1/2	3,920.21	1/2	4,196.95	1/2	4,451.03	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,633.03	3/4	3,926.20	3/4	4,202.49	3/4	4,456.09	3/4		3/4		3/4		3/4		3/4		3/4	
3	3,639.16	3	3,932.19	3	4,208.03	3	4,461.14	3		3		3		3		3		3	
1/4	3,645.30	1/4	3,938.15	1/4	4,213.53	1/4	4,466.16	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,651.43	1/2	3,944.10	1/2	4,219.04	1/2	4,471.18	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,657.57	3/4	3,950.05	3/4	4,224.54	3/4	4,476.20	3/4		3/4		3/4		3/4		3/4		3/4	
4	3,663.70	4	3,956.00	4	4,230.04	4	4,481.21	4		4		4		4		4		4	
1/4	3,669.84	1/4	3,961.92	1/4	4,235.51	1/4	4,486.76	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,675.97	1/2	3,967.83	1/2	4,240.98	1/2	4,492.31	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,682.11	3/4	3,973.75	3/4	4,246.44	3/4	4,497.86	3/4		3/4		3/4		3/4		3/4		3/4	
5	3,688.24	5	3,979.66	5	4,251.91	5	4,503.41	5		5		5		5		5		5	
1/4	3,694.38	1/4	3,985.54	1/4	4,257.34	1/4	4,509.51	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,700.51	1/2	3,991.42	1/2	4,262.76	1/2	4,515.61	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,706.65	3/4	3,997.30	3/4	4,268.19	3/4	4,521.71	3/4		3/4		3/4		3/4		3/4		3/4	
6	3,712.78	6	4,003.17	6	4,273.62	6	4,527.80	6		6		6		6		6		6	
1/4	3,718.92	1/4	4,009.01	1/4	4,279.01	1/4	4,533.90	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,725.05	1/2	4,014.85	1/2	4,284.40	1/2	4,540.00	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,731.19	3/4	4,020.69	3/4	4,289.79	3/4	4,546.10	3/4		3/4		3/4		3/4		3/4		3/4	
7	3,737.32	7	4,026.53	7	4,295.18	7	4,552.20	7		7		7		7		7		7	
1/4	3,743.46	1/4	4,032.34	1/4	4,300.50	1/4	4,559.60	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,749.59	1/2	4,038.14	1/2	4,305.82	1/2	4,567.00	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,755.73	3/4	4,043.94	3/4	4,311.14	3/4	4,574.41	3/4		3/4		3/4		3/4		3/4		3/4	
8	3,761.86	8	4,049.75	8	4,316.45	8	4,581.81	8		8		8		8		8		8	
1/4	3,768.00	1/4	4,055.51	1/4	4,321.73	1/4	4,588.53	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,774.13	1/2	4,061.28	1/2	4,327.01	1/2	4,595.25	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,780.27	3/4	4,067.04	3/4	4,332.29	3/4	4,601.96	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,786.40	9	4,072.81	9	4,337.57	9	4,608.68	9		9		9		9		9		9	
1/4	3,792.54	1/4	4,078.53	1/4	4,342.82	1/4	4,614.03	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,798.67	1/2	4,084.26	1/2	4,348.06	1/2	4,619.38	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,804.81	3/4	4,089.99	3/4	4,353.30	3/4	4,624.73	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,810.94	10	4,095.72	10	4,358.54	10	=====	10		10		10		10		10		10	
1/4	3,817.07	1/4	4,101.41	1/4	4,363.75	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,823.20	1/2	4,107.10	1/2	4,368.95	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,829.33	3/4	4,112.79	3/4	4,374.16	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
11	3,835.46	11	4,118.48	11	4,379.36	11		11		11		11		11		11		11	
1/4	3,841.56	1/4	4,124.13	1/4	4,384.53	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,847.66	1/2	4,129.79	1/2	4,389.70	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,853.76	3/4	4,135.44	3/4	4,394.86	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  
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# BARGE "EMS 389"

## 3 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	3,560.74	0	3,855.08	0	4,136.32	0	4,395.29	0		0		0		0		0		0	
1/4	3,566.88	1/4	3,861.14	1/4	4,141.94	1/4	4,400.42	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,573.01	1/2	3,867.21	1/2	4,147.56	1/2	4,405.55	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,579.15	3/4	3,873.27	3/4	4,153.17	3/4	4,410.68	3/4		3/4		3/4		3/4		3/4		3/4	
1	3,585.28	1	3,879.34	1	4,158.79	1	4,415.81	1		1		1		1		1		1	
1/4	3,591.42	1/4	3,885.37	1/4	4,164.37	1/4	4,420.90	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,597.55	1/2	3,891.39	1/2	4,169.94	1/2	4,426.00	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,603.69	3/4	3,897.42	3/4	4,175.52	3/4	4,431.09	3/4		3/4		3/4		3/4		3/4		3/4	
2	3,609.83	2	3,903.45	2	4,181.10	2	4,436.18	2		2		2		2		2		2	
1/4	3,615.96	1/4	3,909.44	1/4	4,186.64	1/4	4,441.24	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,622.10	1/2	3,915.43	1/2	4,192.18	1/2	4,446.29	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,628.23	3/4	3,921.42	3/4	4,197.73	3/4	4,451.35	3/4		3/4		3/4		3/4		3/4		3/4	
3	3,634.37	3	3,927.41	3	4,203.27	3	4,456.41	3		3		3		3		3		3	
1/4	3,640.50	1/4	3,933.36	1/4	4,208.77	1/4	4,461.42	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,646.64	1/2	3,939.32	1/2	4,214.27	1/2	4,466.44	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,652.77	3/4	3,945.27	3/4	4,219.78	3/4	4,471.46	3/4		3/4		3/4		3/4		3/4		3/4	
4	3,658.91	4	3,951.22	4	4,225.28	4	4,476.48	4		4		4		4		4		4	
1/4	3,665.04	1/4	3,957.14	1/4	4,230.75	1/4	4,482.03	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,671.18	1/2	3,963.05	1/2	4,236.21	1/2	4,487.58	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,677.31	3/4	3,968.97	3/4	4,241.68	3/4	4,493.13	3/4		3/4		3/4		3/4		3/4		3/4	
5	3,683.45	5	3,974.88	5	4,247.15	5	4,498.68	5		5		5		5		5		5	
1/4	3,689.58	1/4	3,980.76	1/4	4,252.58	1/4	4,504.78	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,695.72	1/2	3,986.64	1/2	4,258.01	1/2	4,510.87	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,701.85	3/4	3,992.52	3/4	4,263.43	3/4	4,516.97	3/4		3/4		3/4		3/4		3/4		3/4	
6	3,707.99	6	3,998.39	6	4,268.86	6	4,523.07	6		6		6		6		6		6	
1/4	3,714.13	1/4	4,004.23	1/4	4,274.25	1/4	4,529.17	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,720.26	1/2	4,010.08	1/2	4,279.65	1/2	4,535.27	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,726.40	3/4	4,015.92	3/4	4,285.04	3/4	4,541.37	3/4		3/4		3/4		3/4		3/4		3/4	
7	3,732.53	7	4,021.76	7	4,290.43	7	4,547.47	7		7		7		7		7		7	
1/4	3,738.67	1/4	4,027.56	1/4	4,295.75	1/4	4,554.87	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,744.80	1/2	4,033.36	1/2	4,301.06	1/2	4,562.27	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,750.94	3/4	4,039.17	3/4	4,306.38	3/4	4,569.68	3/4		3/4		3/4		3/4		3/4		3/4	
8	3,757.07	8	4,044.97	8	4,311.70	8	4,577.08	8		8		8		8		8		8	
1/4	3,763.21	1/4	4,050.73	1/4	4,316.98	1/4	4,583.80	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,769.34	1/2	4,056.50	1/2	4,322.26	1/2	4,590.51	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,775.48	3/4	4,062.27	3/4	4,327.54	3/4	4,597.23	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,781.61	9	4,068.03	9	4,332.82	9	4,603.94	9		9		9		9		9		9	
1/4	3,787.75	1/4	4,073.76	1/4	4,338.06	1/4	4,609.29	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,793.88	1/2	4,079.49	1/2	4,343.31	1/2	4,614.64	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,800.02	3/4	4,085.22	3/4	4,348.55	3/4	4,619.99	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,806.16	10	4,090.95	10	4,353.79	10	=====	10		10		10		10		10		10	
1/4	3,812.28	1/4	4,096.64	1/4	4,359.00	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,818.41	1/2	4,102.33	1/2	4,364.20	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,824.54	3/4	4,108.02	3/4	4,369.41	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
11	3,830.67	11	4,113.71	11	4,374.62	11		11		11		11		11		11		11	
1/4	3,836.77	1/4	4,119.36	1/4	4,379.78	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,842.87	1/2	4,125.02	1/2	4,384.95	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,848.97	3/4	4,130.67	3/4	4,390.12	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  
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# BARGE "EMS 389"

## 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	00-5/8	- 00-5/8	00-7/8	- 00-7/8	01-1/8	- 01-1/8	01-3/8	- 01-3/8
2 STBD	00-1/4	- 00-1/4	00-1/2	- 00-1/2	00-5/8	- 00-5/8	00-7/8	- 00-7/8	01-1/8	- 01-1/8	01-3/8	- 01-3/8
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	00-5/8	- 00-5/8
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	00-5/8	- 00-5/8

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

**EXAMPLE FOR ABOVE TRIM CORRECTIONS:**

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

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

LENGTH BETWEEN DRAFT MARKS: 236'-00"

February 28, 2014

**PRECISION MEASUREMENT  
& ANALYSIS, INC.**

P.O. Box 2092  
 Pearland, Texas 77588

<http://www.pmacorp.net>



# BARGE "EMS 389"

## 1 PORT 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	0	0	0	4,256.64	0	3,963.95	0	3,652.98	0	3,324.22	0	2,992.41	0	2,660.59	0	2,328.74
1/4		1/4		1/4		1/4	4,249.76	1/4	3,957.69	1/4	3,646.30	1/4	3,317.31	1/4	2,985.50	1/4	2,653.68	1/4	2,321.83
1/2		1/2		1/2		1/2	4,243.39	1/2	3,951.39	1/2	3,639.59	1/2	3,310.39	1/2	2,978.59	1/2	2,646.76	1/2	2,314.92
3/4		3/4		3/4		3/4	4,237.03	3/4	3,945.09	3/4	3,632.88	3/4	3,303.48	3/4	2,971.68	3/4	2,639.85	3/4	2,308.00
1	1	1	1	1	1	1	4,230.66	1	3,938.80	1	3,626.17	1	3,296.57	1	2,964.76	1	2,632.94	1	2,301.09
1/4		1/4		1/4		1/4	4,224.29	1/4	3,932.50	1/4	3,619.46	1/4	3,289.66	1/4	2,957.85	1/4	2,626.02	1/4	2,294.18
1/2		1/2		1/2		1/2	4,218.41	1/2	3,926.16	1/2	3,612.72	1/2	3,282.74	1/2	2,950.94	1/2	2,619.11	1/2	2,287.26
3/4		3/4		3/4		3/4	4,212.53	3/4	3,919.83	3/4	3,605.97	3/4	3,275.83	3/4	2,944.03	3/4	2,612.20	3/4	2,280.35
2	2	2	2	2	2	2	4,206.65	2	3,913.50	2	3,599.23	2	3,268.92	2	2,937.11	2	2,605.28	2	2,273.44
1/4		1/4		1/4		1/4	4,200.77	1/4	3,907.17	1/4	3,592.48	1/4	3,262.01	1/4	2,930.20	1/4	2,598.37	1/4	2,266.52
1/2		1/2		1/2		1/2	4,194.86	1/2	3,900.80	1/2	3,585.70	1/2	3,255.09	1/2	2,923.29	1/2	2,591.46	1/2	2,259.61
3/4		3/4		3/4		3/4	4,188.94	3/4	3,894.43	3/4	3,578.92	3/4	3,248.18	3/4	2,916.38	3/4	2,584.54	3/4	2,252.70
3	3	3	3	3	3	3	4,183.03	3	3,888.07	3	3,572.14	3	3,241.27	3	2,909.46	3	2,577.63	3	2,245.78
1/4		1/4		1/4		1/4	4,177.11	1/4	3,881.70	1/4	3,565.36	1/4	3,234.35	1/4	2,902.55	1/4	2,570.72	1/4	2,238.87
1/2		1/2		1/2		1/2	4,171.17	1/2	3,875.30	1/2	3,558.55	1/2	3,227.44	1/2	2,895.64	1/2	2,563.80	1/2	2,231.95
3/4		3/4		3/4		3/4	4,165.22	3/4	3,868.90	3/4	3,551.74	3/4	3,220.53	3/4	2,888.72	3/4	2,556.89	3/4	2,225.04
4	4	4	4	4	4	4	4,159.27	4	3,862.50	4	3,544.92	4	3,213.62	4	2,881.81	4	2,549.98	4	2,218.13
1/4		1/4		1/4		1/4	4,153.32	1/4	3,856.09	1/4	3,538.11	1/4	3,206.70	1/4	2,874.90	1/4	2,543.06	1/4	2,211.21
1/2		1/2		1/2		1/2	4,147.34	1/2	3,849.66	1/2	3,531.26	1/2	3,199.79	1/2	2,867.99	1/2	2,536.15	1/2	2,204.30
3/4		3/4		3/4		3/4	4,141.35	3/4	3,843.22	3/4	3,524.41	3/4	3,192.88	3/4	2,861.07	3/4	2,529.24	3/4	2,197.39
5	5	5	5	5	5	5	4,135.37	5	3,836.79	5	3,517.57	5	3,185.97	5	2,854.16	5	2,522.32	5	2,190.47
1/4		1/4		1/4		1/4	4,129.39	1/4	3,830.35	1/4	3,510.72	1/4	3,179.05	1/4	2,847.25	1/4	2,515.41	1/4	2,183.56
1/2		1/2		1/2		1/2	4,123.37	1/2	3,823.88	1/2	3,503.84	1/2	3,172.14	1/2	2,840.34	1/2	2,508.49	1/2	2,176.65
3/4		3/4		3/4		3/4	4,117.35	3/4	3,817.41	3/4	3,496.95	3/4	3,165.23	3/4	2,833.42	3/4	2,501.58	3/4	2,169.73
6	6	6	6	6	6	6	4,111.33	6	3,810.94	6	3,490.07	6	3,158.32	6	2,826.51	6	2,494.67	6	2,162.82
1/4		1/4		1/4		1/4	4,105.32	1/4	3,804.47	1/4	3,483.19	1/4	3,151.40	1/4	2,819.60	1/4	2,487.75	1/4	2,155.91
1/2		1/2		1/2		1/2	4,099.26	1/2	3,797.97	1/2	3,476.28	1/2	3,144.49	1/2	2,812.69	1/2	2,480.84	1/2	2,148.99
3/4		3/4		3/4		3/4	4,093.21	3/4	3,791.46	3/4	3,469.37	3/4	3,137.58	3/4	2,805.77	3/4	2,473.93	3/4	2,142.08
7	7	7	7	7	7	7	4,087.16	7	3,784.96	7	3,462.47	7	3,130.67	7	2,798.86	7	2,467.01	7	2,135.17
1/4		1/4		1/4		1/4	4,081.11	1/4	3,778.45	1/4	3,455.56	1/4	3,123.75	1/4	2,791.95	1/4	2,460.10	1/4	2,128.25
1/2		1/2		1/2		1/2	4,371.36	1/2	4,075.02	1/2	3,771.92	1/2	3,448.65	1/2	3,116.84	1/2	2,785.03	1/2	2,453.19
3/4		3/4		3/4		3/4	4,366.44	3/4	4,068.94	3/4	3,765.38	3/4	3,441.73	3/4	3,109.93	3/4	2,778.12	3/4	2,446.27
8	8	8	8	8	8	8	4,361.53	8	4,062.85	8	3,758.84	8	3,434.82	8	3,103.02	8	2,771.21	8	2,439.36
1/4		1/4		1/4		1/4	4,356.62	1/4	4,056.76	1/4	3,752.30	1/4	3,427.91	1/4	3,096.10	1/4	2,764.29	1/4	2,432.45
1/2		1/2		1/2		1/2	4,350.45	1/2	4,050.64	1/2	3,745.73	1/2	3,421.00	1/2	3,089.19	1/2	2,757.38	1/2	2,425.53
3/4		3/4		3/4		3/4	4,344.28	3/4	4,044.52	3/4	3,739.15	3/4	3,414.08	3/4	3,082.28	3/4	2,750.47	3/4	2,418.62
9	9	9	9	9	9	9	4,338.11	9	4,038.40	9	3,732.58	9	3,407.17	9	3,075.36	9	2,743.55	9	2,411.71
1/4		1/4		1/4		1/4	4,331.94	1/4	4,032.28	1/4	3,726.01	1/4	3,400.26	1/4	3,068.45	1/4	2,736.64	1/4	2,404.79
1/2		1/2		1/2		1/2	4,325.14	1/2	4,026.13	1/2	3,719.40	1/2	3,393.34	1/2	3,061.54	1/2	2,729.73	1/2	2,397.88
3/4		3/4		3/4		3/4	4,318.34	3/4	4,019.97	3/4	3,712.79	3/4	3,386.43	3/4	3,054.63	3/4	2,722.81	3/4	2,390.97
10	10	10	10	10	10	10	4,311.54	10	4,013.82	10	3,706.18	10	3,379.52	10	3,047.71	10	2,715.90	10	2,384.05
1/4		1/4		1/4		1/4	4,304.74	1/4	4,007.66	1/4	3,699.58	1/4	3,372.61	1/4	3,040.80	1/4	2,708.99	1/4	2,377.14
1/2		1/2		1/2		1/2	4,297.87	1/2	4,001.43	1/2	3,692.94	1/2	3,365.69	1/2	3,033.89	1/2	2,702.07	1/2	2,370.22
3/4		3/4		3/4		3/4	4,291.00	3/4	3,995.20	3/4	3,686.29	3/4	3,358.78	3/4	3,026.98	3/4	2,695.16	3/4	2,363.31
11	11	11	11	11	11	11	4,284.13	11	3,988.97	11	3,679.65	11	3,351.87	11	3,020.06	11	2,688.25	11	2,356.40
1/4		1/4		1/4		1/4	4,277.25	1/4	3,982.74	1/4	3,673.01	1/4	3,344.96	1/4	3,013.15	1/4	2,681.33	1/4	2,349.48
1/2		1/2		1/2		1/2	4,270.38	1/2	3,976.48	1/2	3,666.33	1/2	3,338.04	1/2	3,006.24	1/2	2,674.42	1/2	2,342.57
3/4		3/4		3/4		3/4	4,263.51	3/4	3,970.22	3/4	3,659.66	3/4	3,331.13	3/4	2,999.33	3/4	2,667.51	3/4	2,335.66

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 DEVICES  
 GAUGE POINT: (HERMETIC) LOCATED 12'-06" OFF CENTERLINE AND 44'-09" FORWARD OF AFT BULKHEAD

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



# BARGE "EMS 389"

## 1 PORT 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	1,996.90	0	1,665.05	0	1,333.20	0	1,001.41	0	684.65	0	389.79	0	118.55	0		0		0	
1/4	1,989.98	1/4	1,658.13	1/4	1,326.29	1/4	994.52	1/4	678.28	1/4	383.88	1/4	113.14	1/4		1/4		1/4	
1/2	1,983.07	1/2	1,651.22	1/2	1,319.37	1/2	987.69	1/2	671.92	1/2	378.02	1/2	107.77	1/2		1/2		1/2	
3/4	1,976.16	3/4	1,644.31	3/4	1,312.46	3/4	980.87	3/4	665.56	3/4	372.15	3/4	102.39	3/4		3/4		3/4	
1	1,969.24	1	1,637.39	1	1,305.55	1	974.04	1	659.20	1	366.29	1	97.02	1		1		1	
1/4	1,962.33	1/4	1,630.48	1/4	1,298.63	1/4	967.21	1/4	652.84	1/4	360.42	1/4	91.64	1/4		1/4		1/4	
1/2	1,955.41	1/2	1,623.57	1/2	1,291.72	1/2	960.42	1/2	646.53	1/2	354.59	1/2	86.31	1/2		1/2		1/2	
3/4	1,948.50	3/4	1,616.65	3/4	1,284.81	3/4	953.64	3/4	640.21	3/4	348.77	3/4	80.98	3/4		3/4		3/4	
2	1,941.59	2	1,609.74	2	1,277.89	2	946.85	2	633.89	2	342.94	2	75.65	2		2		2	
1/4	1,934.67	1/4	1,602.83	1/4	1,270.98	1/4	940.07	1/4	627.57	1/4	337.12	1/4	70.31	1/4		1/4		1/4	
1/2	1,927.76	1/2	1,595.91	1/2	1,264.06	1/2	933.34	1/2	621.29	1/2	331.33	1/2	65.02	1/2		1/2		1/2	
3/4	1,920.85	3/4	1,589.00	3/4	1,257.15	3/4	926.61	3/4	615.02	3/4	325.55	3/4	59.73	3/4		3/4		3/4	
3	1,913.93	3	1,582.09	3	1,250.24	3	919.88	3	608.74	3	319.77	3	54.44	3		3		3	
1/4	1,907.02	1/4	1,575.17	1/4	1,243.32	1/4	913.16	1/4	602.46	1/4	313.98	1/4	49.15	1/4		1/4		1/4	
1/2	1,900.11	1/2	1,568.26	1/2	1,236.41	1/2	906.47	1/2	596.23	1/2	308.24	1/2	44.14	1/2		1/2		1/2	
3/4	1,893.19	3/4	1,561.35	3/4	1,229.50	3/4	899.78	3/4	589.99	3/4	302.49	3/4	39.14	3/4		3/4		3/4	
4	1,886.28	4	1,554.43	4	1,222.58	4	893.10	4	583.76	4	296.75	4	34.14	4		4		4	
1/4	1,879.37	1/4	1,547.52	1/4	1,215.67	1/4	886.41	1/4	577.52	1/4	291.01	1/4	29.13	1/4		1/4		1/4	
1/2	1,872.45	1/2	1,540.60	1/2	1,208.76	1/2	879.76	1/2	571.33	1/2	285.31	1/2	25.90	1/2		1/2		1/2	
3/4	1,865.54	3/4	1,533.69	3/4	1,201.84	3/4	873.12	3/4	565.13	3/4	279.60	3/4	22.67	3/4		3/4		3/4	
5	1,858.63	5	1,526.78	5	1,194.93	5	866.47	5	558.94	5	273.90	5	19.43	5		5		5	
1/4	1,851.71	1/4	1,519.86	1/4	1,188.02	1/4	859.83	1/4	552.74	1/4	268.20	1/4	16.20	1/4		1/4		1/4	
1/2	1,844.80	1/2	1,512.95	1/2	1,181.10	1/2	853.23	1/2	546.59	1/2	262.54	1/2		1/2		1/2		1/2	
3/4	1,837.89	3/4	1,506.04	3/4	1,174.19	3/4	846.63	3/4	540.43	3/4	256.88	3/4		3/4		3/4		3/4	
6	1,830.97	6	1,499.12	6	1,167.28	6	840.03	6	534.28	6	251.22	6		6		6		6	
1/4	1,824.06	1/4	1,492.21	1/4	1,160.36	1/4	833.43	1/4	528.13	1/4	245.56	1/4		1/4		1/4		1/4	
1/2	1,817.14	1/2	1,485.30	1/2	1,153.45	1/2	826.87	1/2	522.01	1/2	239.94	1/2		1/2		1/2		1/2	
3/4	1,810.23	3/4	1,478.38	3/4	1,146.54	3/4	820.31	3/4	515.90	3/4	234.32	3/4		3/4		3/4		3/4	
7	1,803.32	7	1,471.47	7	1,139.62	7	813.75	7	509.79	7	228.70	7		7		7		7	
1/4	1,796.40	1/4	1,464.56	1/4	1,132.71	1/4	807.19	1/4	503.68	1/4	223.08	1/4		1/4		1/4		1/4	
1/2	1,789.49	1/2	1,457.64	1/2	1,125.79	1/2	800.67	1/2	497.60	1/2	217.50	1/2		1/2		1/2		1/2	
3/4	1,782.58	3/4	1,450.73	3/4	1,118.88	3/4	794.15	3/4	491.53	3/4	211.92	3/4		3/4		3/4		3/4	
8	1,775.66	8	1,443.82	8	1,111.97	8	787.62	8	485.46	8	206.34	8		8		8		8	
1/4	1,768.75	1/4	1,436.90	1/4	1,105.05	1/4	781.10	1/4	479.39	1/4	200.76	1/4		1/4		1/4		1/4	
1/2	1,761.84	1/2	1,429.99	1/2	1,098.14	1/2	774.62	1/2	473.36	1/2	195.22	1/2		1/2		1/2		1/2	
3/4	1,754.92	3/4	1,423.08	3/4	1,091.23	3/4	768.14	3/4	467.33	3/4	189.68	3/4		3/4		3/4		3/4	
9	1,748.01	9	1,416.16	9	1,084.31	9	761.66	9	461.30	9	184.15	9		9		9		9	
1/4	1,741.10	1/4	1,409.25	1/4	1,077.40	1/4	755.18	1/4	455.27	1/4	178.61	1/4		1/4		1/4		1/4	
1/2	1,734.18	1/2	1,402.33	1/2	1,070.49	1/2	748.73	1/2	449.28	1/2	173.11	1/2		1/2		1/2		1/2	
3/4	1,727.27	3/4	1,395.42	3/4	1,063.57	3/4	742.29	3/4	443.29	3/4	167.61	3/4		3/4		3/4		3/4	
10	1,720.36	10	1,388.51	10	1,056.66	10	735.85	10	437.30	10	162.12	10		10		10		10	
1/4	1,713.44	1/4	1,381.59	1/4	1,049.75	1/4	729.41	1/4	431.31	1/4	156.62	1/4		1/4		1/4		1/4	
1/2	1,706.53	1/2	1,374.68	1/2	1,042.83	1/2	723.00	1/2	425.36	1/2	151.16	1/2		1/2		1/2		1/2	
3/4	1,699.62	3/4	1,367.77	3/4	1,035.92	3/4	716.59	3/4	419.41	3/4	145.71	3/4		3/4		3/4		3/4	
11	1,692.70	11	1,360.85	11	1,029.01	11	710.18	11	413.46	11	140.25	11		11		11		11	
1/4	1,685.79	1/4	1,353.94	1/4	1,022.09	1/4	703.76	1/4	407.51	1/4	134.80	1/4		1/4		1/4		1/4	
1/2	1,678.87	1/2	1,347.03	1/2	1,015.20	1/2	697.39	1/2	401.61	1/2	129.38	1/2		1/2		1/2		1/2	
3/4	1,671.96	3/4	1,340.11	3/4	1,008.31	3/4	691.02	3/4	395.70	3/4	123.97	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 02/27/2014 CL - SW  
CALCULATED: 02/28/2014 CL  
PRINTED: 02/28/2014 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 02/2014

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







# BARGE "EMS 389"

## 1 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-05 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	2,011.79	0	1,679.98	0	1,348.17	0	1,016.38	0	697.35	0	401.53	0	129.36	0		0		0	
1/4	2,004.88	1/4	1,673.07	1/4	1,341.26	1/4	1,009.49	1/4	690.95	1/4	395.62	1/4	123.94	1/4		1/4		1/4	
1/2	1,997.96	1/2	1,666.15	1/2	1,334.34	1/2	1,002.60	1/2	684.56	1/2	389.72	1/2	118.53	1/2		1/2		1/2	
3/4	1,991.05	3/4	1,659.24	3/4	1,327.43	3/4	995.70	3/4	678.16	3/4	383.81	3/4	113.12	3/4		3/4		3/4	
1	1,984.14	1	1,652.33	1	1,320.52	1	988.85	1	671.80	1	377.94	1	107.74	1		1		1	
1/4	1,977.22	1/4	1,645.41	1/4	1,313.61	1/4	982.00	1/4	665.44	1/4	372.08	1/4	102.37	1/4		1/4		1/4	
1/2	1,970.31	1/2	1,638.50	1/2	1,306.69	1/2	975.15	1/2	659.08	1/2	366.21	1/2	97.00	1/2		1/2		1/2	
3/4	1,963.40	3/4	1,631.59	3/4	1,299.78	3/4	968.30	3/4	652.72	3/4	360.35	3/4	91.63	3/4		3/4		3/4	
2	1,956.49	2	1,624.68	2	1,292.87	2	961.49	2	646.41	2	354.52	2	86.29	2		2		2	
1/4	1,949.57	1/4	1,617.76	1/4	1,285.95	1/4	954.68	1/4	640.09	1/4	348.70	1/4	80.96	1/4		1/4		1/4	
1/2	1,942.66	1/2	1,610.85	1/2	1,279.04	1/2	947.87	1/2	633.77	1/2	342.88	1/2	75.63	1/2		1/2		1/2	
3/4	1,935.75	3/4	1,603.94	3/4	1,272.13	3/4	941.06	3/4	627.46	3/4	337.05	3/4	70.30	3/4		3/4		3/4	
3	1,928.84	3	1,597.03	3	1,265.22	3	934.30	3	621.18	3	331.27	3	65.01	3		3		3	
1/4	1,921.92	1/4	1,590.11	1/4	1,258.30	1/4	927.55	1/4	614.90	1/4	325.49	1/4	59.72	1/4		1/4		1/4	
1/2	1,915.01	1/2	1,583.20	1/2	1,251.39	1/2	920.79	1/2	608.63	1/2	319.70	1/2	54.43	1/2		1/2		1/2	
3/4	1,908.10	3/4	1,576.29	3/4	1,244.48	3/4	914.04	3/4	602.35	3/4	313.92	3/4	49.14	3/4		3/4		3/4	
4	1,901.18	4	1,569.38	4	1,237.57	4	907.32	4	596.12	4	308.18	4	44.13	4		4		4	
1/4	1,894.27	1/4	1,562.46	1/4	1,230.65	1/4	900.61	1/4	589.88	1/4	302.43	1/4	39.13	1/4		1/4		1/4	
1/2	1,887.36	1/2	1,555.55	1/2	1,223.74	1/2	893.89	1/2	583.65	1/2	296.69	1/2	34.13	1/2		1/2		1/2	
3/4	1,880.45	3/4	1,548.64	3/4	1,216.83	3/4	887.18	3/4	577.41	3/4	290.95	3/4	29.13	3/4		3/4		3/4	
5	1,873.53	5	1,541.72	5	1,209.91	5	880.51	5	571.22	5	285.25	5	25.89	5		5		5	
1/4	1,866.62	1/4	1,534.81	1/4	1,203.00	1/4	873.83	1/4	565.03	1/4	279.55	1/4	22.66	1/4		1/4		1/4	
1/2	1,859.71	1/2	1,527.90	1/2	1,196.09	1/2	867.16	1/2	558.83	1/2	273.85	1/2	19.43	1/2		1/2		1/2	
3/4	1,852.80	3/4	1,520.99	3/4	1,189.18	3/4	860.48	3/4	552.64	3/4	268.15	3/4	16.20	3/4		3/4		3/4	
6	1,845.88	6	1,514.07	6	1,182.26	6	853.86	6	546.49	6	262.49	6		6		6		6	
1/4	1,838.97	1/4	1,507.16	1/4	1,175.35	1/4	847.23	1/4	540.33	1/4	256.83	1/4		1/4		1/4		1/4	
1/2	1,832.06	1/2	1,500.25	1/2	1,168.44	1/2	840.60	1/2	534.18	1/2	251.17	1/2		1/2		1/2		1/2	
3/4	1,825.14	3/4	1,493.34	3/4	1,161.53	3/4	833.97	3/4	528.03	3/4	245.51	3/4		3/4		3/4		3/4	
7	1,818.23	7	1,486.42	7	1,154.61	7	827.39	7	521.92	7	239.89	7		7		7		7	
1/4	1,811.32	1/4	1,479.51	1/4	1,147.70	1/4	820.80	1/4	515.80	1/4	234.27	1/4		1/4		1/4		1/4	
1/2	1,804.41	1/2	1,472.60	1/2	1,140.79	1/2	814.21	1/2	509.69	1/2	228.65	1/2		1/2		1/2		1/2	
3/4	1,797.49	3/4	1,465.68	3/4	1,133.87	3/4	807.62	3/4	503.58	3/4	223.03	3/4		3/4		3/4		3/4	
8	1,790.58	8	1,458.77	8	1,126.96	8	801.07	8	497.51	8	217.45	8		8		8		8	
1/4	1,783.67	1/4	1,451.86	1/4	1,120.05	1/4	794.52	1/4	491.44	1/4	211.87	1/4		1/4		1/4		1/4	
1/2	1,776.76	1/2	1,444.95	1/2	1,113.14	1/2	787.97	1/2	485.37	1/2	206.30	1/2		1/2		1/2		1/2	
3/4	1,769.84	3/4	1,438.03	3/4	1,106.22	3/4	781.42	3/4	479.30	3/4	200.72	3/4		3/4		3/4		3/4	
9	1,762.93	9	1,431.12	9	1,099.31	9	774.91	9	473.27	9	195.18	9		9		9		9	
1/4	1,756.02	1/4	1,424.21	1/4	1,092.40	1/4	768.41	1/4	467.24	1/4	189.65	1/4		1/4		1/4		1/4	
1/2	1,749.11	1/2	1,417.30	1/2	1,085.49	1/2	761.90	1/2	461.21	1/2	184.11	1/2		1/2		1/2		1/2	
3/4	1,742.19	3/4	1,410.38	3/4	1,078.57	3/4	755.39	3/4	455.18	3/4	178.57	3/4		3/4		3/4		3/4	
10	1,735.28	10	1,403.47	10	1,071.66	10	748.92	10	449.19	10	173.08	10		10		10		10	
1/4	1,728.37	1/4	1,396.56	1/4	1,064.75	1/4	742.45	1/4	443.20	1/4	167.58	1/4		1/4		1/4		1/4	
1/2	1,721.45	1/2	1,389.64	1/2	1,057.84	1/2	735.98	1/2	437.21	1/2	162.08	1/2		1/2		1/2		1/2	
3/4	1,714.54	3/4	1,382.73	3/4	1,050.92	3/4	729.51	3/4	431.23	3/4	156.59	3/4		3/4		3/4		3/4	
11	1,707.63	11	1,375.82	11	1,044.01	11	723.07	11	425.28	11	151.13	11		11		11		11	
1/4	1,700.72	1/4	1,368.91	1/4	1,037.10	1/4	716.63	1/4	419.33	1/4	145.68	1/4		1/4		1/4		1/4	
1/2	1,693.80	1/2	1,361.99	1/2	1,030.18	1/2	710.19	1/2	413.38	1/2	140.22	1/2		1/2		1/2		1/2	
3/4	1,686.89	3/4	1,355.08	3/4	1,023.27	3/4	703.75	3/4	407.44	3/4	134.77	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 02/27/2014 CL - SW  
CALCULATED: 02/28/2014 CL  
PRINTED: 02/28/2014 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 02/2014

PRECISION MEASUREMENT  
& ANALYSIS, INC.  
P.O. Box 2092  
Pearland, Texas 77588  
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# BARGE "EMS 389"

## 2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GUAGE HEIGHT 16'-05 1/4"

0 FT.			1 FT.			2 FT.			3 FT.			4 FT.			5 FT.			6 FT.			7 FT.			8 FT.			9 FT.					
IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN			
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4

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 DEVICES  
 GAUGE POINT: (HERMETIC) LOCATED 12'-06" OFF CENTERLINE AND 51'-00" FORWARD OF AFT BULKHEAD

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# BARGE "EMS 389"

## 3 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	0	0	0	4,498.68	0	4,247.15	0	3,974.88	0	3,683.45	0	3,388.95	0	3,028.49	0	2,667.94
1/4		1/4		1/4		1/4	4,493.13	1/4	4,241.68	1/4	3,968.97	1/4	3,677.31	1/4	3,381.44	1/4	3,020.98	1/4	2,660.43
1/2		1/2		1/2		1/2	4,487.58	1/2	4,236.21	1/2	3,963.05	1/2	3,671.18	1/2	3,373.93	1/2	3,013.47	1/2	2,652.91
3/4		3/4		3/4		3/4	4,482.03	3/4	4,230.75	3/4	3,957.14	3/4	3,665.04	3/4	3,366.41	3/4	3,005.97	3/4	2,645.40
1	1	1	1	1	1	1	4,476.48	1	4,225.28	1	3,951.22	1	3,658.91	1	3,358.90	1	2,998.46	1	2,637.89
1/4		1/4		1/4		1/4	4,471.46	1/4	4,219.78	1/4	3,945.27	1/4	3,652.77	1/4	3,351.39	1/4	2,990.95	1/4	2,630.37
1/2		1/2		1/2		1/2	4,466.44	1/2	4,214.27	1/2	3,939.32	1/2	3,646.64	1/2	3,343.87	1/2	2,983.45	1/2	2,622.86
3/4		3/4		3/4		3/4	4,461.42	3/4	4,208.77	3/4	3,933.36	3/4	3,640.50	3/4	3,336.36	3/4	2,975.94	3/4	2,615.34
2	2	2	2	2	2	2	4,456.41	2	4,203.27	2	3,927.41	2	3,634.37	2	3,328.85	2	2,968.43	2	2,607.83
1/4		1/4		1/4		1/4	4,451.35	1/4	4,197.73	1/4	3,921.42	1/4	3,628.23	1/4	3,321.33	1/4	2,960.92	1/4	2,600.31
1/2		1/2		1/2		1/2	4,446.29	1/2	4,192.18	1/2	3,915.43	1/2	3,622.10	1/2	3,313.82	1/2	2,953.42	1/2	2,592.80
3/4		3/4		3/4		3/4	4,441.24	3/4	4,186.64	3/4	3,909.44	3/4	3,615.96	3/4	3,306.31	3/4	2,945.91	3/4	2,585.29
3	3	3	3	3	3	3	4,436.18	3	4,181.10	3	3,903.45	3	3,609.83	3	3,298.79	3	2,938.40	3	2,577.77
1/4		1/4		1/4		1/4	4,431.09	1/4	4,175.52	1/4	3,897.42	1/4	3,603.69	1/4	3,291.28	1/4	2,930.90	1/4	2,570.26
1/2		1/2		1/2		1/2	4,426.00	1/2	4,169.94	1/2	3,891.39	1/2	3,597.55	1/2	3,283.76	1/2	2,923.39	1/2	2,562.74
3/4		3/4		3/4		3/4	4,420.90	3/4	4,164.37	3/4	3,885.37	3/4	3,591.42	3/4	3,276.25	3/4	2,915.88	3/4	2,555.23
4	4	4	4	4	4	4	4,415.81	4	4,158.79	4	3,879.34	4	3,585.28	4	3,268.74	4	2,908.38	4	2,547.71
1/4		1/4		1/4		1/4	4,410.68	1/4	4,153.17	1/4	3,873.27	1/4	3,579.15	1/4	3,261.22	1/4	2,900.87	1/4	2,540.21
1/2		1/2		1/2		1/2	4,405.55	1/2	4,147.56	1/2	3,867.21	1/2	3,573.01	1/2	3,253.71	1/2	2,893.36	1/2	2,532.70
3/4		3/4		3/4		3/4	4,400.42	3/4	4,141.94	3/4	3,861.14	3/4	3,566.88	3/4	3,246.20	3/4	2,885.85	3/4	2,525.20
5	5	5	5	5	5	5	4,395.29	5	4,136.32	5	3,855.08	5	3,560.74	5	3,238.68	5	2,878.35	5	2,517.69
1/4		1/4		1/4		1/4	4,390.12	1/4	4,130.67	1/4	3,848.97	1/4	3,554.61	1/4	3,231.18	1/4	2,870.83	1/4	2,510.19
1/2		1/2		1/2		1/2	4,384.95	1/2	4,125.02	1/2	3,842.87	1/2	3,548.47	1/2	3,223.67	1/2	2,863.32	1/2	2,502.68
3/4		3/4		3/4		3/4	4,379.78	3/4	4,119.36	3/4	3,836.77	3/4	3,542.34	3/4	3,216.16	3/4	2,855.80	3/4	2,495.18
6	6	6	6	6	6	6	4,374.62	6	4,113.71	6	3,830.67	6	3,536.20	6	3,208.66	6	2,848.29	6	2,487.67
1/4		1/4		1/4		1/4	4,369.41	1/4	4,108.02	1/4	3,824.54	1/4	3,530.07	1/4	3,201.15	1/4	2,840.77	1/4	2,480.16
1/2		1/2		1/2		1/2	4,364.20	1/2	4,102.33	1/2	3,818.41	1/2	3,523.93	1/2	3,193.64	1/2	2,833.26	1/2	2,472.66
3/4		3/4		3/4		3/4	4,359.00	3/4	4,096.64	3/4	3,812.28	3/4	3,517.80	3/4	3,186.14	3/4	2,825.75	3/4	2,465.15
7	7	7	7	7	7	7	4,353.79	7	4,090.95	7	3,806.16	7	3,511.66	7	3,178.63	7	2,818.23	7	2,457.65
1/4		1/4		1/4	4,619.99	1/4	4,348.55	1/4	4,085.22	1/4	3,800.02	1/4	3,505.53	1/4	3,171.12	1/4	2,810.72	1/4	2,450.14
1/2		1/2		1/2	4,614.64	1/2	4,343.31	1/2	4,079.49	1/2	3,793.88	1/2	3,499.39	1/2	3,163.62	1/2	2,803.20	1/2	2,442.64
3/4		3/4		3/4	4,609.29	3/4	4,338.06	3/4	4,073.76	3/4	3,787.75	3/4	3,493.25	3/4	3,156.11	3/4	2,795.69	3/4	2,435.13
8	8	8	8	8	8	8	4,603.94	8	4,068.03	8	3,781.61	8	3,487.12	8	3,148.60	8	2,788.17	8	2,427.63
1/4		1/4		1/4	4,597.23	1/4	4,327.54	1/4	4,062.27	1/4	3,775.48	1/4	3,480.98	1/4	3,141.10	1/4	2,780.66	1/4	2,420.12
1/2		1/2		1/2	4,590.51	1/2	4,322.26	1/2	4,056.50	1/2	3,769.34	1/2	3,474.85	1/2	3,133.59	1/2	2,773.15	1/2	2,412.62
3/4		3/4		3/4	4,583.80	3/4	4,316.98	3/4	4,050.73	3/4	3,763.21	3/4	3,468.71	3/4	3,126.08	3/4	2,765.63	3/4	2,405.11
9	9	9	9	9	9	9	4,577.08	9	4,044.97	9	3,757.07	9	3,462.58	9	3,118.57	9	2,758.12	9	2,397.61
1/4		1/4		1/4	4,569.68	1/4	4,306.38	1/4	4,039.17	1/4	3,750.94	1/4	3,456.44	1/4	3,111.07	1/4	2,750.60	1/4	2,390.10
1/2		1/2		1/2	4,562.27	1/2	4,301.06	1/2	4,033.36	1/2	3,744.80	1/2	3,450.31	1/2	3,103.56	1/2	2,743.09	1/2	2,382.59
3/4		3/4		3/4	4,554.87	3/4	4,295.75	3/4	4,027.56	3/4	3,738.67	3/4	3,444.17	3/4	3,096.05	3/4	2,735.57	3/4	2,375.09
10	10	10	10	10	10	10	4,547.47	10	4,021.76	10	3,732.53	10	3,438.04	10	3,088.55	10	2,728.06	10	2,367.58
1/4		1/4		1/4	4,541.37	1/4	4,285.04	1/4	4,015.92	1/4	3,726.40	1/4	3,431.90	1/4	3,081.04	1/4	2,720.54	1/4	2,360.08
1/2		1/2		1/2	4,535.27	1/2	4,279.65	1/2	4,010.08	1/2	3,720.26	1/2	3,425.77	1/2	3,073.53	1/2	2,713.03	1/2	2,352.57
3/4		3/4		3/4	4,529.17	3/4	4,274.25	3/4	4,004.23	3/4	3,714.13	3/4	3,419.63	3/4	3,066.02	3/4	2,705.52	3/4	2,345.07
11	11	11	11	11	11	11	4,523.07	11	4,268.86	11	3,998.39	11	3,707.99	11	3,413.50	11	3,058.52	11	2,698.00
1/4		1/4		1/4	4,516.97	1/4	4,263.43	1/4	3,992.52	1/4	3,701.85	1/4	3,407.36	1/4	3,051.01	1/4	2,690.49	1/4	2,330.06
1/2		1/2		1/2	4,510.87	1/2	4,258.01	1/2	3,986.64	1/2	3,695.72	1/2	3,401.23	1/2	3,043.50	1/2	2,682.97	1/2	2,322.55
3/4		3/4		3/4	4,504.78	3/4	4,252.58	3/4	3,980.76	3/4	3,689.58	3/4	3,395.09	3/4	3,036.00	3/4	2,675.46	3/4	2,315.05

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 DEVICES  
 GAUGE POINT: (HERMETIC) LOCATED 12'-06" OFF CENTERLINE AND 45'-03" FORWARD OF AFT BULKHEAD

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# BARGE "EMS 389"

## 3 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	2,307.54	0	1,948.16	0	1,589.77	0	1,229.16	0	868.56	0	518.09	0	158.26	0		0		0	
1/4	2,300.02	1/4	1,940.72	1/4	1,582.26	1/4	1,221.65	1/4	861.05	1/4	510.80	1/4	150.74	1/4		1/4		1/4	
1/2	2,292.51	1/2	1,933.28	1/2	1,574.74	1/2	1,214.14	1/2	853.53	1/2	503.51	1/2	143.22	1/2		1/2		1/2	
3/4	2,284.99	3/4	1,925.85	3/4	1,567.23	3/4	1,206.63	3/4	846.02	3/4	496.22	3/4	135.71	3/4		3/4		3/4	
1	2,277.48	1	1,918.41	1	1,559.72	1	1,199.11	1	838.51	1	488.93	1	128.19	1		1		1	
1/4	2,269.96	1/4	1,910.97	1/4	1,552.20	1/4	1,191.60	1/4	831.22	1/4	481.41	1/4	120.68	1/4		1/4		1/4	
1/2	2,262.44	1/2	1,903.53	1/2	1,544.69	1/2	1,184.09	1/2	823.93	1/2	473.90	1/2	113.16	1/2		1/2		1/2	
3/4	2,254.93	3/4	1,896.09	3/4	1,537.18	3/4	1,176.57	3/4	816.64	3/4	466.38	3/4	105.65	3/4		3/4		3/4	
2	2,247.41	2	1,888.65	2	1,529.67	2	1,169.06	2	809.35	2	458.87	2	98.13	2		2		2	
1/4	2,239.90	1/4	1,881.21	1/4	1,522.15	1/4	1,161.55	1/4	802.05	1/4	451.35	1/4	90.62	1/4		1/4		1/4	
1/2	2,232.38	1/2	1,873.77	1/2	1,514.64	1/2	1,154.04	1/2	794.76	1/2	443.84	1/2	83.10	1/2		1/2		1/2	
3/4	2,224.87	3/4	1,866.33	3/4	1,507.13	3/4	1,146.52	3/4	787.47	3/4	436.32	3/4	75.59	3/4		3/4		3/4	
3	2,217.35	3	1,858.90	3	1,499.62	3	1,139.01	3	780.18	3	428.81	3	68.07	3		3		3	
1/4	2,209.83	1/4	1,851.46	1/4	1,492.10	1/4	1,131.50	1/4	772.89	1/4	421.29	1/4	60.83	1/4		1/4		1/4	
1/2	2,202.32	1/2	1,844.02	1/2	1,484.59	1/2	1,123.99	1/2	765.60	1/2	413.78	1/2	53.58	1/2		1/2		1/2	
3/4	2,194.80	3/4	1,836.58	3/4	1,477.08	3/4	1,116.47	3/4	758.31	3/4	406.26	3/4	46.33	3/4		3/4		3/4	
4	2,187.29	4	1,829.14	4	1,469.57	4	1,108.96	4	751.02	4	398.75	4	39.09	4		4		4	
1/4	2,179.77	1/4	1,821.70	1/4	1,462.05	1/4	1,101.45	1/4	743.74	1/4	391.23	1/4	33.71	1/4		1/4		1/4	
1/2	2,172.25	1/2	1,814.26	1/2	1,454.54	1/2	1,093.94	1/2	736.46	1/2	383.71	1/2	28.34	1/2		1/2		1/2	
3/4	2,164.74	3/4	1,806.82	3/4	1,447.03	3/4	1,086.42	3/4	729.18	3/4	376.20	3/4	22.96	3/4		3/4		3/4	
5	2,157.22	5	1,799.38	5	1,439.52	5	1,078.91	5	721.90	5	368.68	5	17.58	5		5		5	
1/4	2,149.71	1/4	1,791.95	1/4	1,432.00	1/4	1,071.40	1/4	714.62	1/4	361.17	1/4		1/4		1/4		1/4	
1/2	2,142.19	1/2	1,784.51	1/2	1,424.49	1/2	1,063.89	1/2	707.34	1/2	353.65	1/2		1/2		1/2		1/2	
3/4	2,134.67	3/4	1,777.07	3/4	1,416.98	3/4	1,056.37	3/4	700.06	3/4	346.14	3/4		3/4		3/4		3/4	
6	2,127.16	6	1,769.63	6	1,409.47	6	1,048.86	6	692.78	6	338.62	6		6		6		6	
1/4	2,119.64	1/4	1,762.19	1/4	1,401.95	1/4	1,041.35	1/4	685.50	1/4	331.11	1/4		1/4		1/4		1/4	
1/2	2,112.13	1/2	1,754.75	1/2	1,394.44	1/2	1,033.84	1/2	678.22	1/2	323.59	1/2		1/2		1/2		1/2	
3/4	2,104.61	3/4	1,747.31	3/4	1,386.93	3/4	1,026.32	3/4	670.94	3/4	316.08	3/4		3/4		3/4		3/4	
7	2,097.10	7	1,739.87	7	1,379.42	7	1,018.81	7	663.66	7	308.56	7		7		7		7	
1/4	2,089.62	1/4	1,732.40	1/4	1,371.90	1/4	1,011.30	1/4	656.38	1/4	301.05	1/4		1/4		1/4		1/4	
1/2	2,082.14	1/2	1,724.92	1/2	1,364.39	1/2	1,003.79	1/2	649.10	1/2	293.53	1/2		1/2		1/2		1/2	
3/4	2,074.66	3/4	1,717.45	3/4	1,356.88	3/4	996.27	3/4	641.83	3/4	286.02	3/4		3/4		3/4		3/4	
8	2,067.19	8	1,709.97	8	1,349.36	8	988.76	8	634.55	8	278.50	8		8		8		8	
1/4	2,059.75	1/4	1,702.46	1/4	1,341.85	1/4	981.25	1/4	627.28	1/4	270.98	1/4		1/4		1/4		1/4	
1/2	2,052.31	1/2	1,694.94	1/2	1,334.34	1/2	973.73	1/2	620.00	1/2	263.47	1/2		1/2		1/2		1/2	
3/4	2,044.87	3/4	1,687.43	3/4	1,326.83	3/4	966.22	3/4	612.73	3/4	255.95	3/4		3/4		3/4		3/4	
9	2,037.43	9	1,679.92	9	1,319.31	9	958.71	9	605.45	9	248.44	9		9		9		9	
1/4	2,029.99	1/4	1,672.41	1/4	1,311.80	1/4	951.20	1/4	598.17	1/4	240.92	1/4		1/4		1/4		1/4	
1/2	2,022.55	1/2	1,664.89	1/2	1,304.29	1/2	943.68	1/2	590.89	1/2	233.41	1/2		1/2		1/2		1/2	
3/4	2,015.11	3/4	1,657.38	3/4	1,296.78	3/4	936.17	3/4	583.61	3/4	225.89	3/4		3/4		3/4		3/4	
10	2,007.67	10	1,649.87	10	1,289.26	10	928.66	10	576.33	10	218.38	10		10		10		10	
1/4	2,000.23	1/4	1,642.36	1/4	1,281.75	1/4	921.15	1/4	569.05	1/4	210.86	1/4		1/4		1/4		1/4	
1/2	1,992.80	1/2	1,634.84	1/2	1,274.24	1/2	913.63	1/2	561.77	1/2	203.35	1/2		1/2		1/2		1/2	
3/4	1,985.36	3/4	1,627.33	3/4	1,266.73	3/4	906.12	3/4	554.49	3/4	195.83	3/4		3/4		3/4		3/4	
11	1,977.92	11	1,619.82	11	1,259.21	11	898.61	11	547.21	11	188.32	11		11		11		11	
1/4	1,970.48	1/4	1,612.31	1/4	1,251.70	1/4	891.10	1/4	539.93	1/4	180.80	1/4		1/4		1/4		1/4	
1/2	1,963.04	1/2	1,604.79	1/2	1,244.19	1/2	883.58	1/2	532.65	1/2	173.29	1/2		1/2		1/2		1/2	
3/4	1,955.60	3/4	1,597.28	3/4	1,236.68	3/4	876.07	3/4	525.37	3/4	165.77	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 02/27/2014 CL - SW  
CALCULATED: 02/28/2014 CL  
PRINTED: 02/28/2014 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 02/2014

PRECISION MEASUREMENT  
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