



BARGE "EMS 386"

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	- 00-5/8	00-5/8	- 00-7/8	00-7/8	- 01-1/8	01-1/8	- 01-3/8	01-3/8
1 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
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	- 00-1/8	00-1/8	- 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	- 00-1/8	00-1/8	- 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"

October 19, 2013

PRECISION MEASUREMENT
 & ANALYSIS, INC.

P.O. Box 2092
 Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "EMS 386"

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	3,179.05	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: 10/18/2013 CL
CALCULATED: 10/19/2013 CL
PRINTED: 10/19/2013 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 10/2013

PRECISION MEASUREMENT
& ANALYSIS, INC.
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BARGE "EMS 386"

**1 STBD
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	3,180.38	0	3,512.03	0	3,831.66	0	4,130.69	0		0		0		0		0		0	
1/4	3,187.29	1/4	3,518.88	1/4	3,838.10	1/4	4,136.67	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,194.21	1/2	3,525.73	1/2	3,844.53	1/2	4,142.65	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,201.12	3/4	3,532.57	3/4	3,850.97	3/4	4,148.64	3/4		3/4		3/4		3/4		3/4		3/4	
1	3,208.03	1	3,539.42	1	3,857.40	1	4,154.62	1		1		1		1		1		1	
1/4	3,214.94	1/4	3,546.24	1/4	3,863.80	1/4	4,160.57	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,221.86	1/2	3,553.05	1/2	3,870.21	1/2	4,166.52	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,228.77	3/4	3,559.86	3/4	3,876.61	3/4	4,172.46	3/4		3/4		3/4		3/4		3/4		3/4	
2	3,235.68	2	3,566.68	2	3,883.01	2	4,178.41	2		2		2		2		2		2	
1/4	3,242.59	1/4	3,573.46	1/4	3,889.37	1/4	4,184.33	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,249.51	1/2	3,580.24	1/2	3,895.74	1/2	4,190.24	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,256.42	3/4	3,587.01	3/4	3,902.11	3/4	4,196.15	3/4		3/4		3/4		3/4		3/4		3/4	
3	3,263.33	3	3,593.79	3	3,908.47	3	4,202.07	3		3		3		3		3		3	
1/4	3,270.24	1/4	3,600.54	1/4	3,914.81	1/4	4,207.95	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,277.15	1/2	3,607.28	1/2	3,921.14	1/2	4,213.83	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,284.07	3/4	3,614.03	3/4	3,927.47	3/4	4,219.71	3/4		3/4		3/4		3/4		3/4		3/4	
4	3,290.98	4	3,620.77	4	3,933.80	4	4,225.59	4		4		4		4		4		4	
1/4	3,297.89	1/4	3,627.48	1/4	3,940.10	1/4	4,231.96	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,304.80	1/2	3,634.20	1/2	3,946.40	1/2	4,238.32	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,311.72	3/4	3,640.91	3/4	3,952.70	3/4	4,244.69	3/4		3/4		3/4		3/4		3/4		3/4	
5	3,318.63	5	3,647.62	5	3,959.00	5	4,251.06	5		5		5		5		5		5	
1/4	3,325.54	1/4	3,654.29	1/4	3,965.26	1/4	4,257.93	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,332.45	1/2	3,660.97	1/2	3,971.52	1/2	4,264.80	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,339.37	3/4	3,667.64	3/4	3,977.79	3/4	4,271.68	3/4		3/4		3/4		3/4		3/4		3/4	
6	3,346.28	6	3,674.32	6	3,984.05	6	4,278.55	6		6		6		6		6		6	
1/4	3,353.19	1/4	3,680.96	1/4	3,990.28	1/4	4,285.42	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,360.10	1/2	3,687.60	1/2	3,996.51	1/2	4,292.29	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,367.02	3/4	3,694.25	3/4	4,002.74	3/4	4,299.17	3/4		3/4		3/4		3/4		3/4		3/4	
7	3,373.93	7	3,700.89	7	4,008.97	7	4,306.04	7		7		7		7		7		7	
1/4	3,380.84	1/4	3,707.50	1/4	4,015.12	1/4	4,312.84	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,387.75	1/2	3,714.10	1/2	4,021.28	1/2	4,319.64	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,394.67	3/4	3,720.71	3/4	4,027.43	3/4	4,326.43	3/4		3/4		3/4		3/4		3/4		3/4	
8	3,401.58	8	3,727.32	8	4,033.59	8	4,333.23	8		8		8		8		8		8	
1/4	3,408.49	1/4	3,733.89	1/4	4,039.71	1/4	4,339.40	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,415.40	1/2	3,740.46	1/2	4,045.83	1/2	4,345.58	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,422.32	3/4	3,747.04	3/4	4,051.95	3/4	4,351.75	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,429.23	9	3,753.61	9	4,058.07	9	4,357.92	9		9		9		9		9		9	
1/4	3,436.14	1/4	3,760.15	1/4	4,064.15	1/4	4,364.83	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,443.05	1/2	3,766.69	1/2	4,070.24	1/2	4,367.75	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,449.96	3/4	3,773.23	3/4	4,076.33	3/4	4,372.66	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,456.88	10	3,779.76	10	4,082.41	10		10		10		10		10		10		10	
1/4	3,463.78	1/4	3,786.27	1/4	4,088.46	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,470.69	1/2	3,792.77	1/2	4,094.51	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,477.59	3/4	3,799.28	3/4	4,100.57	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
11	3,484.50	11	3,805.78	11	4,106.62	11		11		11		11		11		11		11	
1/4	3,491.38	1/4	3,812.25	1/4	4,112.64	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,498.26	1/2	3,818.72	1/2	4,118.65	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,505.15	3/4	3,825.19	3/4	4,124.67	3/4		3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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CANCELS AND SUPERCEDES
ALL PRIOR TO 10/2013

PRECISION MEASUREMENT
& ANALYSIS, INC.
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BARGE "EMS 386"

2 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	3,877.56	0	4,265.77	0	4,639.91	0	4,989.92	0		0		0		0		0		0	
1/4	3,885.65	1/4	4,273.79	1/4	4,647.45	1/4	4,996.92	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,893.74	1/2	4,281.81	1/2	4,654.98	1/2	5,003.92	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,901.83	3/4	4,289.82	3/4	4,662.51	3/4	5,010.93	3/4		3/4		3/4		3/4		3/4		3/4	
1	3,909.93	1	4,297.84	1	4,670.05	1	5,017.93	1		1		1		1		1		1	
1/4	3,918.02	1/4	4,305.81	1/4	4,677.54	1/4	5,024.89	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,926.11	1/2	4,313.79	1/2	4,685.03	1/2	5,031.85	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,934.20	3/4	4,321.76	3/4	4,692.52	3/4	5,038.82	3/4		3/4		3/4		3/4		3/4		3/4	
2	3,942.29	2	4,329.74	2	4,700.02	2	5,045.78	2		2		2		2		2		2	
1/4	3,950.38	1/4	4,337.68	1/4	4,707.47	1/4	5,052.70	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,958.47	1/2	4,345.61	1/2	4,714.92	1/2	5,059.62	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,966.57	3/4	4,353.55	3/4	4,722.37	3/4	5,066.54	3/4		3/4		3/4		3/4		3/4		3/4	
3	3,974.66	3	4,361.48	3	4,729.83	3	5,073.47	3		3		3		3		3		3	
1/4	3,982.75	1/4	4,369.38	1/4	4,737.24	1/4	5,080.35	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,990.84	1/2	4,377.27	1/2	4,744.65	1/2	5,087.23	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,998.93	3/4	4,385.17	3/4	4,752.06	3/4	5,094.11	3/4		3/4		3/4		3/4		3/4		3/4	
4	4,007.02	4	4,393.06	4	4,759.47	4	5,100.99	4		4		4		4		4		4	
1/4	4,015.11	1/4	4,400.92	1/4	4,766.85	1/4	5,108.45	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,023.20	1/2	4,408.77	1/2	4,774.22	1/2	5,115.90	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,031.30	3/4	4,416.63	3/4	4,781.59	3/4	5,123.35	3/4		3/4		3/4		3/4		3/4		3/4	
5	4,039.39	5	4,424.48	5	4,788.96	5	5,130.80	5		5		5		5		5		5	
1/4	4,047.48	1/4	4,432.30	1/4	4,796.29	1/4	5,138.85	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,055.57	1/2	4,440.11	1/2	4,803.63	1/2	5,146.89	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,063.66	3/4	4,447.93	3/4	4,810.96	3/4	5,154.94	3/4		3/4		3/4		3/4		3/4		3/4	
6	4,071.75	6	4,455.74	6	4,818.29	6	5,162.98	6		6		6		6		6		6	
1/4	4,079.84	1/4	4,463.52	1/4	4,825.58	1/4	5,171.03	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,087.94	1/2	4,471.29	1/2	4,832.87	1/2	5,179.07	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,096.03	3/4	4,479.07	3/4	4,840.16	3/4	5,187.11	3/4		3/4		3/4		3/4		3/4		3/4	
7	4,104.12	7	4,486.84	7	4,847.45	7	5,195.16	7		7		7		7		7		7	
1/4	4,112.21	1/4	4,494.57	1/4	4,854.66	1/4	5,203.12	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,120.30	1/2	4,502.31	1/2	4,861.86	1/2	5,211.08	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,128.39	3/4	4,510.04	3/4	4,869.07	3/4	5,219.03	3/4		3/4		3/4		3/4		3/4		3/4	
8	4,136.48	8	4,517.78	8	4,876.27	8	5,226.99	8		8		8		8		8		8	
1/4	4,144.58	1/4	4,525.47	1/4	4,883.43	1/4	5,234.22	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,152.67	1/2	4,533.16	1/2	4,890.60	1/2	5,241.44	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,160.76	3/4	4,540.86	3/4	4,897.76	3/4	5,248.67	3/4		3/4		3/4		3/4		3/4		3/4	
9	4,168.85	9	4,548.55	9	4,904.92	9	5,255.89	9		9		9		9		9		9	
1/4	4,176.94	1/4	4,556.21	1/4	4,912.05	1/4	5,261.64	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,185.03	1/2	4,563.86	1/2	4,919.17	1/2	5,267.39	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,193.12	3/4	4,571.51	3/4	4,926.29	3/4	5,273.14	3/4		3/4		3/4		3/4		3/4		3/4	
10	4,201.22	10	4,579.17	10	4,933.42	10		10		10		10		10		10		10	
1/4	4,209.30	1/4	4,586.78	1/4	4,940.50	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,217.38	1/2	4,594.39	1/2	4,947.58	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,225.46	3/4	4,602.01	3/4	4,954.67	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
11	4,233.55	11	4,609.62	11	4,961.75	11		11		11		11		11		11		11	
1/4	4,241.60	1/4	4,617.19	1/4	4,968.79	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,249.66	1/2	4,624.77	1/2	4,975.83	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,257.72	3/4	4,632.34	3/4	4,982.88	3/4		3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 10/18/2013 CL
CALCULATED: 10/19/2013 CL
PRINTED: 10/19/2013 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 10/2013

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



BARGE "EMS 386"

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	3,892.47	0	4,280.68	0	4,654.83	0	5,004.83	0		0		0		0		0		0	
1/4	3,900.56	1/4	4,288.70	1/4	4,662.36	1/4	5,011.83	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,908.65	1/2	4,296.72	1/2	4,669.89	1/2	5,018.84	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,916.75	3/4	4,304.73	3/4	4,677.42	3/4	5,025.84	3/4		3/4		3/4		3/4		3/4		3/4	
1	3,924.84	1	4,312.75	1	4,684.96	1	5,032.84	1		1		1		1		1		1	
1/4	3,932.93	1/4	4,320.72	1/4	4,692.45	1/4	5,039.80	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,941.02	1/2	4,328.70	1/2	4,699.94	1/2	5,046.77	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,949.11	3/4	4,336.68	3/4	4,707.44	3/4	5,053.73	3/4		3/4		3/4		3/4		3/4		3/4	
2	3,957.20	2	4,344.65	2	4,714.93	2	5,060.69	2		2		2		2		2		2	
1/4	3,965.29	1/4	4,352.59	1/4	4,722.38	1/4	5,067.61	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,973.39	1/2	4,360.52	1/2	4,729.83	1/2	5,074.53	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,981.48	3/4	4,368.46	3/4	4,737.29	3/4	5,081.46	3/4		3/4		3/4		3/4		3/4		3/4	
3	3,989.57	3	4,376.39	3	4,744.74	3	5,088.38	3		3		3		3		3		3	
1/4	3,997.66	1/4	4,384.29	1/4	4,752.15	1/4	5,095.26	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,005.75	1/2	4,392.18	1/2	4,759.56	1/2	5,102.14	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,013.84	3/4	4,400.08	3/4	4,766.97	3/4	5,109.02	3/4		3/4		3/4		3/4		3/4		3/4	
4	4,021.93	4	4,407.98	4	4,774.39	4	5,115.91	4		4		4		4		4		4	
1/4	4,030.03	1/4	4,415.83	1/4	4,781.76	1/4	5,123.36	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,038.12	1/2	4,423.69	1/2	4,789.13	1/2	5,130.81	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,046.21	3/4	4,431.54	3/4	4,796.50	3/4	5,138.26	3/4		3/4		3/4		3/4		3/4		3/4	
5	4,054.30	5	4,439.40	5	4,803.87	5	5,145.72	5		5		5		5		5		5	
1/4	4,062.39	1/4	4,447.21	1/4	4,811.21	1/4	5,153.76	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,070.48	1/2	4,455.02	1/2	4,818.54	1/2	5,161.80	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,078.57	3/4	4,462.84	3/4	4,825.87	3/4	5,169.85	3/4		3/4		3/4		3/4		3/4		3/4	
6	4,086.67	6	4,470.65	6	4,833.20	6	5,177.89	6		6		6		6		6		6	
1/4	4,094.76	1/4	4,478.43	1/4	4,840.49	1/4	5,185.94	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,102.85	1/2	4,486.20	1/2	4,847.78	1/2	5,193.98	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,110.94	3/4	4,493.98	3/4	4,855.07	3/4	5,202.03	3/4		3/4		3/4		3/4		3/4		3/4	
7	4,119.03	7	4,501.75	7	4,862.37	7	5,210.07	7		7		7		7		7		7	
1/4	4,127.12	1/4	4,509.49	1/4	4,869.57	1/4	5,218.03	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,135.21	1/2	4,517.22	1/2	4,876.77	1/2	5,225.99	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,143.31	3/4	4,524.95	3/4	4,883.98	3/4	5,233.95	3/4		3/4		3/4		3/4		3/4		3/4	
8	4,151.40	8	4,532.69	8	4,891.18	8	5,241.91	8		8		8		8		8		8	
1/4	4,159.49	1/4	4,540.38	1/4	4,898.34	1/4	5,249.13	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,167.58	1/2	4,548.08	1/2	4,905.51	1/2	5,256.35	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,175.67	3/4	4,555.77	3/4	4,912.67	3/4	5,263.58	3/4		3/4		3/4		3/4		3/4		3/4	
9	4,183.76	9	4,563.46	9	4,919.83	9	5,270.80	9		9		9		9		9		9	
1/4	4,191.85	1/4	4,571.12	1/4	4,926.96	1/4	5,276.55	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,199.95	1/2	4,578.77	1/2	4,934.08	1/2	5,282.30	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,208.04	3/4	4,586.43	3/4	4,941.21	3/4	5,288.06	3/4		3/4		3/4		3/4		3/4		3/4	
10	4,216.13	10	4,594.08	10	4,948.33	10		10		10		10		10		10		10	
1/4	4,224.21	1/4	4,601.69	1/4	4,955.41	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,232.29	1/2	4,609.31	1/2	4,962.49	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,240.38	3/4	4,616.92	3/4	4,969.58	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
11	4,248.46	11	4,624.53	11	4,976.66	11		11		11		11		11		11		11	
1/4	4,256.52	1/4	4,632.11	1/4	4,983.70	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,264.57	1/2	4,639.68	1/2	4,990.75	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,272.63	3/4	4,647.25	3/4	4,997.79	3/4		3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



BARGE "EMS 386"

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	3,561.69	0	3,855.69	0	4,136.61	0	4,395.27	0		0		0		0		0		0	
1/4	3,567.82	1/4	3,861.75	1/4	4,142.22	1/4	4,400.39	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,573.95	1/2	3,867.80	1/2	4,147.83	1/2	4,405.52	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,580.07	3/4	3,873.86	3/4	4,153.44	3/4	4,410.64	3/4		3/4		3/4		3/4		3/4		3/4	
1	3,586.20	1	3,879.92	1	4,159.05	1	4,415.77	1		1		1		1		1		1	
1/4	3,592.33	1/4	3,885.94	1/4	4,164.62	1/4	4,420.86	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,598.46	1/2	3,891.96	1/2	4,170.19	1/2	4,425.94	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,604.59	3/4	3,897.98	3/4	4,175.77	3/4	4,431.03	3/4		3/4		3/4		3/4		3/4		3/4	
2	3,610.72	2	3,904.00	2	4,181.34	2	4,436.12	2		2		2		2		2		2	
1/4	3,616.84	1/4	3,909.99	1/4	4,186.87	1/4	4,441.17	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,622.97	1/2	3,915.97	1/2	4,192.41	1/2	4,446.22	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,629.10	3/4	3,921.95	3/4	4,197.94	3/4	4,451.27	3/4		3/4		3/4		3/4		3/4		3/4	
3	3,635.23	3	3,927.94	3	4,203.48	3	4,456.32	3		3		3		3		3		3	
1/4	3,641.36	1/4	3,933.88	1/4	4,208.97	1/4	4,461.33	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,647.48	1/2	3,939.83	1/2	4,214.47	1/2	4,466.34	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,653.61	3/4	3,945.78	3/4	4,219.97	3/4	4,471.35	3/4		3/4		3/4		3/4		3/4		3/4	
4	3,659.74	4	3,951.72	4	4,225.47	4	4,476.36	4		4		4		4		4		4	
1/4	3,665.87	1/4	3,957.63	1/4	4,230.93	1/4	4,481.91	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,672.00	1/2	3,963.54	1/2	4,236.39	1/2	4,487.45	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,678.13	3/4	3,969.45	3/4	4,241.85	3/4	4,492.99	3/4		3/4		3/4		3/4		3/4		3/4	
5	3,684.25	5	3,975.36	5	4,247.31	5	4,498.54	5		5		5		5		5		5	
1/4	3,690.38	1/4	3,981.23	1/4	4,252.73	1/4	4,504.63	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,696.51	1/2	3,987.10	1/2	4,258.15	1/2	4,510.72	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,702.64	3/4	3,992.97	3/4	4,263.57	3/4	4,516.81	3/4		3/4		3/4		3/4		3/4		3/4	
6	3,708.77	6	3,998.84	6	4,269.00	6	4,522.90	6		6		6		6		6		6	
1/4	3,714.90	1/4	4,004.67	1/4	4,274.38	1/4	4,529.00	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,721.02	1/2	4,010.51	1/2	4,279.77	1/2	4,535.09	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,727.15	3/4	4,016.34	3/4	4,285.15	3/4	4,541.18	3/4		3/4		3/4		3/4		3/4		3/4	
7	3,733.28	7	4,022.18	7	4,290.54	7	4,547.27	7		7		7		7		7		7	
1/4	3,739.41	1/4	4,027.97	1/4	4,295.85	1/4	4,554.67	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,745.54	1/2	4,033.77	1/2	4,301.16	1/2	4,562.06	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,751.67	3/4	4,039.57	3/4	4,306.47	3/4	4,569.46	3/4		3/4		3/4		3/4		3/4		3/4	
8	3,757.79	8	4,045.36	8	4,311.78	8	4,576.85	8		8		8		8		8		8	
1/4	3,763.92	1/4	4,051.12	1/4	4,317.06	1/4	4,583.56	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,770.05	1/2	4,056.88	1/2	4,322.33	1/2	4,590.27	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,776.18	3/4	4,062.64	3/4	4,327.60	3/4	4,596.98	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,782.31	9	4,068.40	9	4,332.88	9	4,603.69	9		9		9		9		9		9	
1/4	3,788.44	1/4	4,074.12	1/4	4,338.12	1/4	4,609.04	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,794.56	1/2	4,079.84	1/2	4,343.35	1/2	4,614.38	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,800.69	3/4	4,085.56	3/4	4,348.59	3/4	4,619.72	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,806.82	10	4,091.29	10	4,353.83	10		10		10		10		10		10		10	
1/4	3,812.94	1/4	4,096.97	1/4	4,359.02	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,819.06	1/2	4,102.65	1/2	4,364.22	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,825.18	3/4	4,108.34	3/4	4,369.42	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
11	3,831.31	11	4,114.02	11	4,374.62	11		11		11		11		11		11		11	
1/4	3,837.40	1/4	4,119.67	1/4	4,379.78	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,843.50	1/2	4,125.32	1/2	4,384.95	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,849.59	3/4	4,130.96	3/4	4,390.11	3/4		3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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BARGE "EMS 386"

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	3,556.89	0	3,850.90	0	4,131.85	0	4,390.53	0		0		0		0		0		0	
1/4	3,563.02	1/4	3,856.96	1/4	4,137.46	1/4	4,395.66	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,569.15	1/2	3,863.02	1/2	4,143.07	1/2	4,400.78	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,575.28	3/4	3,869.08	3/4	4,148.68	3/4	4,405.91	3/4		3/4		3/4		3/4		3/4		3/4	
1	3,581.41	1	3,875.14	1	4,154.29	1	4,411.03	1		1		1		1		1		1	
1/4	3,587.53	1/4	3,881.16	1/4	4,159.86	1/4	4,416.12	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,593.66	1/2	3,887.18	1/2	4,165.43	1/2	4,421.21	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,599.79	3/4	3,893.20	3/4	4,171.00	3/4	4,426.29	3/4		3/4		3/4		3/4		3/4		3/4	
2	3,605.92	2	3,899.22	2	4,176.58	2	4,431.38	2		2		2		2		2		2	
1/4	3,612.05	1/4	3,905.21	1/4	4,182.11	1/4	4,436.43	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,618.18	1/2	3,911.19	1/2	4,187.65	1/2	4,441.48	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,624.31	3/4	3,917.17	3/4	4,193.18	3/4	4,446.53	3/4		3/4		3/4		3/4		3/4		3/4	
3	3,630.44	3	3,923.16	3	4,198.72	3	4,451.58	3		3		3		3		3		3	
1/4	3,636.56	1/4	3,929.10	1/4	4,204.22	1/4	4,456.60	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,642.69	1/2	3,935.05	1/2	4,209.71	1/2	4,461.61	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,648.82	3/4	3,941.00	3/4	4,215.21	3/4	4,466.62	3/4		3/4		3/4		3/4		3/4		3/4	
4	3,654.95	4	3,946.94	4	4,220.71	4	4,471.63	4		4		4		4		4		4	
1/4	3,661.08	1/4	3,952.85	1/4	4,226.17	1/4	4,477.18	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,667.21	1/2	3,958.76	1/2	4,231.63	1/2	4,482.72	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,673.34	3/4	3,964.67	3/4	4,237.09	3/4	4,488.26	3/4		3/4		3/4		3/4		3/4		3/4	
5	3,679.47	5	3,970.58	5	4,242.55	5	4,493.81	5		5		5		5		5		5	
1/4	3,685.59	1/4	3,976.45	1/4	4,247.97	1/4	4,499.90	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,691.72	1/2	3,982.32	1/2	4,253.40	1/2	4,505.99	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,697.85	3/4	3,988.19	3/4	4,258.82	3/4	4,512.08	3/4		3/4		3/4		3/4		3/4		3/4	
6	3,703.98	6	3,994.07	6	4,264.24	6	4,518.18	6		6		6		6		6		6	
1/4	3,710.11	1/4	3,999.90	1/4	4,269.63	1/4	4,524.27	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,716.24	1/2	4,005.73	1/2	4,275.01	1/2	4,530.36	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,722.37	3/4	4,011.57	3/4	4,280.40	3/4	4,536.45	3/4		3/4		3/4		3/4		3/4		3/4	
7	3,728.49	7	4,017.40	7	4,285.79	7	4,542.55	7		7		7		7		7		7	
1/4	3,734.62	1/4	4,023.20	1/4	4,291.10	1/4	4,549.94	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,740.75	1/2	4,029.00	1/2	4,296.41	1/2	4,557.34	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,746.88	3/4	4,034.79	3/4	4,301.72	3/4	4,564.73	3/4		3/4		3/4		3/4		3/4		3/4	
8	3,753.01	8	4,040.59	8	4,307.03	8	4,572.12	8		8		8		8		8		8	
1/4	3,759.14	1/4	4,046.35	1/4	4,312.31	1/4	4,578.83	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,765.27	1/2	4,052.11	1/2	4,317.58	1/2	4,585.54	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,771.40	3/4	4,057.87	3/4	4,322.86	3/4	4,592.25	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,777.52	9	4,063.63	9	4,328.13	9	4,598.96	9		9		9		9		9		9	
1/4	3,783.65	1/4	4,069.35	1/4	4,333.37	1/4	4,604.30	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,789.78	1/2	4,075.07	1/2	4,338.61	1/2	4,609.65	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,795.91	3/4	4,080.80	3/4	4,343.84	3/4	4,614.99	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,802.04	10	4,086.52	10	4,349.08	10		10		10		10		10		10		10	
1/4	3,808.16	1/4	4,092.20	1/4	4,354.28	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,814.28	1/2	4,097.89	1/2	4,359.48	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,820.40	3/4	4,103.57	3/4	4,364.68	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
11	3,826.52	11	4,109.26	11	4,369.88	11		11		11		11		11		11		11	
1/4	3,832.62	1/4	4,114.90	1/4	4,375.04	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,838.71	1/2	4,120.55	1/2	4,380.21	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,844.81	3/4	4,126.20	3/4	4,385.37	3/4		3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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BARGE "EMS 386"

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	00-5/8	- 00-5/8	00-7/8	- 00-7/8	01-1/8	- 01-1/8	01-3/8	- 01-3/8
1 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
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	00-1/8	- 00-1/8	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	00-1/8	- 00-1/8	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"

October 19, 2013

PRECISION MEASUREMENT
 & ANALYSIS, INC.

P.O. Box 2092
 Pearland, Texas 77588

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BARGE "EMS 386"

1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-04 1/2"

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.	
IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0
1/4	1,969.24	1/4	1,637.39	1/4	1,305.55	1/4	974.04	1/4	659.20	1/4	366.29	1/4	97.02	1/4		1/4		1/4	
1/2	1,962.33	1/2	1,630.48	1/2	1,298.63	1/2	967.21	1/2	652.84	1/2	360.42	1/2	91.64	1/2		1/2		1/2	
3/4	1,955.41	3/4	1,623.57	3/4	1,291.72	3/4	960.42	3/4	646.53	3/4	354.59	3/4	86.31	3/4		3/4		3/4	
1	1,948.50	1	1,616.65	1	1,284.81	1	953.64	1	640.21	1	348.77	1	80.98	1		1		1	
1/4	1,941.59	1/4	1,609.74	1/4	1,277.89	1/4	946.85	1/4	633.89	1/4	342.94	1/4	75.65	1/4		1/4		1/4	
1/2	1,934.67	1/2	1,602.83	1/2	1,270.98	1/2	940.07	1/2	627.57	1/2	337.12	1/2	70.31	1/2		1/2		1/2	
3/4	1,927.76	3/4	1,595.91	3/4	1,264.06	3/4	933.34	3/4	621.29	3/4	331.33	3/4	65.02	3/4		3/4		3/4	
2	1,920.85	2	1,589.00	2	1,257.15	2	926.61	2	615.02	2	325.55	2	59.73	2		2		2	
1/4	1,913.93	1/4	1,582.09	1/4	1,250.24	1/4	919.88	1/4	608.74	1/4	319.77	1/4	54.44	1/4		1/4		1/4	
1/2	1,907.02	1/2	1,575.17	1/2	1,243.32	1/2	913.16	1/2	602.46	1/2	313.98	1/2	49.15	1/2		1/2		1/2	
3/4	1,900.11	3/4	1,568.26	3/4	1,236.41	3/4	906.47	3/4	596.23	3/4	308.24	3/4	44.14	3/4		3/4		3/4	
3	1,893.19	3	1,561.35	3	1,229.50	3	899.78	3	589.99	3	302.49	3	39.14	3		3		3	
1/4	1,886.28	1/4	1,554.43	1/4	1,222.58	1/4	893.10	1/4	583.76	1/4	296.75	1/4	34.14	1/4		1/4		1/4	
1/2	1,879.37	1/2	1,547.52	1/2	1,215.67	1/2	886.41	1/2	577.52	1/2	291.01	1/2	29.13	1/2		1/2		1/2	
3/4	1,872.45	3/4	1,540.60	3/4	1,208.76	3/4	879.76	3/4	571.33	3/4	285.31	3/4	25.90	3/4		3/4		3/4	
4	1,865.54	4	1,533.69	4	1,201.84	4	873.12	4	565.13	4	279.60	4	22.67	4		4		4	
1/4	1,858.63	1/4	1,526.78	1/4	1,194.93	1/4	866.47	1/4	558.94	1/4	273.90	1/4	19.43	1/4		1/4		1/4	
1/2	1,851.71	1/2	1,519.86	1/2	1,188.02	1/2	859.83	1/2	552.74	1/2	268.20	1/2	16.20	1/2		1/2		1/2	
3/4	1,844.80	3/4	1,512.95	3/4	1,181.10	3/4	853.23	3/4	546.59	3/4	262.54	3/4		3/4		3/4		3/4	
5	1,837.89	5	1,506.04	5	1,174.19	5	846.63	5	540.43	5	256.88	5		5		5		5	
1/4	1,830.97	1/4	1,499.12	1/4	1,167.28	1/4	840.03	1/4	534.28	1/4	251.22	1/4		1/4		1/4		1/4	
1/2	1,824.06	1/2	1,492.21	1/2	1,160.36	1/2	833.43	1/2	528.13	1/2	245.56	1/2		1/2		1/2		1/2	
3/4	1,817.14	3/4	1,485.30	3/4	1,153.45	3/4	826.87	3/4	522.01	3/4	239.94	3/4		3/4		3/4		3/4	
6	1,810.23	6	1,478.38	6	1,146.54	6	820.31	6	515.90	6	234.32	6		6		6		6	
1/4	1,803.32	1/4	1,471.47	1/4	1,139.62	1/4	813.75	1/4	509.79	1/4	228.70	1/4		1/4		1/4		1/4	
1/2	1,796.40	1/2	1,464.56	1/2	1,132.71	1/2	807.19	1/2	503.68	1/2	223.08	1/2		1/2		1/2		1/2	
3/4	1,789.49	3/4	1,457.64	3/4	1,125.79	3/4	800.67	3/4	497.60	3/4	217.50	3/4		3/4		3/4		3/4	
7	1,782.58	7	1,450.73	7	1,118.88	7	794.15	7	491.53	7	211.92	7		7		7		7	
1/4	1,775.66	1/4	1,443.82	1/4	1,111.97	1/4	787.62	1/4	485.46	1/4	206.34	1/4		1/4		1/4		1/4	
1/2	1,768.75	1/2	1,436.90	1/2	1,105.05	1/2	781.10	1/2	479.39	1/2	200.76	1/2		1/2		1/2		1/2	
3/4	1,761.84	3/4	1,429.99	3/4	1,098.14	3/4	774.62	3/4	473.36	3/4	195.22	3/4		3/4		3/4		3/4	
8	1,754.92	8	1,423.08	8	1,091.23	8	768.14	8	467.33	8	189.68	8		8		8		8	
1/4	1,748.01	1/4	1,416.16	1/4	1,084.31	1/4	761.66	1/4	461.30	1/4	184.15	1/4		1/4		1/4		1/4	
1/2	1,741.10	1/2	1,409.25	1/2	1,077.40	1/2	755.18	1/2	455.27	1/2	178.61	1/2		1/2		1/2		1/2	
3/4	1,734.18	3/4	1,402.33	3/4	1,070.49	3/4	748.73	3/4	449.28	3/4	173.11	3/4		3/4		3/4		3/4	
9	1,727.27	9	1,395.42	9	1,063.57	9	742.29	9	443.29	9	167.61	9		9		9		9	
1/4	1,720.36	1/4	1,388.51	1/4	1,056.66	1/4	735.85	1/4	437.30	1/4	162.12	1/4		1/4		1/4		1/4	
1/2	1,713.44	1/2	1,381.59	1/2	1,049.75	1/2	729.41	1/2	431.31	1/2	156.62	1/2		1/2		1/2		1/2	
3/4	1,706.53	3/4	1,374.68	3/4	1,042.83	3/4	723.00	3/4	425.36	3/4	151.16	3/4		3/4		3/4		3/4	
10	1,699.62	10	1,367.77	10	1,035.92	10	716.59	10	419.41	10	145.71	10		10		10		10	
1/4	1,692.70	1/4	1,360.85	1/4	1,029.01	1/4	710.18	1/4	413.46	1/4	140.25	1/4		1/4		1/4		1/4	
1/2	1,685.79	1/2	1,353.94	1/2	1,022.09	1/2	703.76	1/2	407.51	1/2	134.80	1/2		1/2		1/2		1/2	
3/4	1,678.87	3/4	1,347.03	3/4	1,015.20	3/4	697.39	3/4	401.61	3/4	129.38	3/4		3/4		3/4		3/4	
11	1,671.96	11	1,340.11	11	1,008.31	11	691.02	11	395.70	11	123.97	11		11		11		11	
1/4	1,665.05	1/4	1,333.20	1/4	1,001.41	1/4	684.65	1/4	389.79	1/4	118.55	1/4		1/4		1/4		1/4	
1/2	1,658.13	1/2	1,326.29	1/2	994.52	1/2	678.28	1/2	383.88	1/2	113.14	1/2		1/2		1/2		1/2	
3/4	1,651.22	3/4	1,319.37	3/4	987.69	3/4	671.92	3/4	378.02	3/4	107.77	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 10/18/2013 CL
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CANCELS AND SUPERCEDES
ALL PRIOR TO 10/2013

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



BARGE "EMS 386"

**1 STBD
ULLAGE TABLE**

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-05 1/4"

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.	
0	1,998.22	0	1,666.37	0	1,334.52	0	1,002.73	0	684.64	0	389.77	0	118.54	0		0		0	
1/4	1,991.31	1/4	1,659.46	1/4	1,327.60	1/4	995.83	1/4	678.24	1/4	383.86	1/4	113.13	1/4	1/4		1/4		1/4
1/2	1,984.40	1/2	1,652.54	1/2	1,320.69	1/2	988.98	1/2	671.89	1/2	377.99	1/2	107.76	1/2	1/2		1/2		1/2
3/4	1,977.48	3/4	1,645.63	3/4	1,313.78	3/4	982.13	3/4	665.53	3/4	372.13	3/4	102.38	3/4	3/4		3/4		3/4
1	1,970.57	1	1,638.72	1	1,306.86	1	975.28	1	659.17	1	366.26	1	97.01	1	1		1		1
1/4	1,963.65	1/4	1,631.80	1/4	1,299.95	1/4	968.43	1/4	652.81	1/4	360.40	1/4	91.64	1/4	1/4		1/4		1/4
1/2	1,956.74	1/2	1,624.89	1/2	1,293.04	1/2	961.61	1/2	646.49	1/2	354.57	1/2	86.30	1/2	1/2		1/2		1/2
3/4	1,949.83	3/4	1,617.97	3/4	1,286.12	3/4	954.80	3/4	640.17	3/4	348.75	3/4	80.97	3/4	3/4		3/4		3/4
2	1,942.91	2	1,611.06	2	1,279.21	2	947.99	2	633.86	2	342.92	2	75.64	2	2		2		2
1/4	1,936.00	1/4	1,604.15	1/4	1,272.29	1/4	941.18	1/4	627.54	1/4	337.10	1/4	70.31	1/4	1/4		1/4		1/4
1/2	1,929.09	1/2	1,597.23	1/2	1,265.38	1/2	934.43	1/2	621.26	1/2	331.31	1/2	65.02	1/2	1/2		1/2		1/2
3/4	1,922.17	3/4	1,590.32	3/4	1,258.47	3/4	927.67	3/4	614.98	3/4	325.53	3/4	59.73	3/4	3/4		3/4		3/4
3	1,915.26	3	1,583.41	3	1,251.55	3	920.91	3	608.71	3	319.74	3	54.43	3	3		3		3
1/4	1,908.35	1/4	1,576.49	1/4	1,244.64	1/4	914.16	1/4	602.43	1/4	313.96	1/4	49.14	1/4	1/4		1/4		1/4
1/2	1,901.43	1/2	1,569.58	1/2	1,237.73	1/2	907.44	1/2	596.20	1/2	308.22	1/2	44.14	1/2	1/2		1/2		1/2
3/4	1,894.52	3/4	1,562.67	3/4	1,230.81	3/4	900.73	3/4	589.96	3/4	302.47	3/4	39.14	3/4	3/4		3/4		3/4
4	1,887.61	4	1,555.75	4	1,223.90	4	894.01	4	583.72	4	296.73	4	34.13	4	4		4		4
1/4	1,880.69	1/4	1,548.84	1/4	1,216.99	1/4	887.29	1/4	577.49	1/4	290.99	1/4	29.13	1/4	1/4		1/4		1/4
1/2	1,873.78	1/2	1,541.93	1/2	1,210.07	1/2	880.62	1/2	571.29	1/2	285.29	1/2	25.90	1/2	1/2		1/2		1/2
3/4	1,866.86	3/4	1,535.01	3/4	1,203.16	3/4	873.95	3/4	565.10	3/4	279.58	3/4	22.66	3/4	3/4		3/4		3/4
5	1,859.95	5	1,528.10	5	1,196.24	5	867.27	5	558.90	5	273.88	5	19.43	5	5		5		5
1/4	1,853.04	1/4	1,521.18	1/4	1,189.33	1/4	860.60	1/4	552.71	1/4	268.18	1/4	16.20	1/4	1/4		1/4		1/4
1/2	1,846.12	1/2	1,514.27	1/2	1,182.42	1/2	853.97	1/2	546.56	1/2	262.52	1/2		1/2	1/2		1/2		1/2
3/4	1,839.21	3/4	1,507.36	3/4	1,175.50	3/4	847.34	3/4	540.40	3/4	256.86	3/4		3/4	3/4		3/4		3/4
6	1,832.30	6	1,500.44	6	1,168.59	6	840.71	6	534.25	6	251.20	6		6	6		6		6
1/4	1,825.38	1/4	1,493.53	1/4	1,161.68	1/4	834.08	1/4	528.10	1/4	245.54	1/4		1/4	1/4		1/4		1/4
1/2	1,818.47	1/2	1,486.62	1/2	1,154.76	1/2	827.49	1/2	521.98	1/2	239.92	1/2		1/2	1/2		1/2		1/2
3/4	1,811.56	3/4	1,479.70	3/4	1,147.85	3/4	820.91	3/4	515.87	3/4	234.30	3/4		3/4	3/4		3/4		3/4
7	1,804.64	7	1,472.79	7	1,140.94	7	814.32	7	509.76	7	228.68	7		7	7		7		7
1/4	1,797.73	1/4	1,465.88	1/4	1,134.02	1/4	807.73	1/4	503.65	1/4	223.06	1/4		1/4	1/4		1/4		1/4
1/2	1,790.81	1/2	1,458.96	1/2	1,127.11	1/2	801.18	1/2	497.57	1/2	217.48	1/2		1/2	1/2		1/2		1/2
3/4	1,783.90	3/4	1,452.05	3/4	1,120.20	3/4	794.63	3/4	491.50	3/4	211.90	3/4		3/4	3/4		3/4		3/4
8	1,776.99	8	1,445.13	8	1,113.28	8	788.08	8	485.43	8	206.32	8		8	8		8		8
1/4	1,770.07	1/4	1,438.22	1/4	1,106.37	1/4	781.53	1/4	479.36	1/4	200.75	1/4		1/4	1/4		1/4		1/4
1/2	1,763.16	1/2	1,431.31	1/2	1,099.45	1/2	775.02	1/2	473.33	1/2	195.21	1/2		1/2	1/2		1/2		1/2
3/4	1,756.25	3/4	1,424.39	3/4	1,092.54	3/4	768.51	3/4	467.30	3/4	189.67	3/4		3/4	3/4		3/4		3/4
9	1,749.33	9	1,417.48	9	1,085.63	9	762.00	9	461.27	9	184.13	9		9	9		9		9
1/4	1,742.42	1/4	1,410.57	1/4	1,078.71	1/4	755.48	1/4	455.24	1/4	178.59	1/4		1/4	1/4		1/4		1/4
1/2	1,735.51	1/2	1,403.65	1/2	1,071.80	1/2	749.02	1/2	449.25	1/2	173.10	1/2		1/2	1/2		1/2		1/2
3/4	1,728.59	3/4	1,396.74	3/4	1,064.89	3/4	742.55	3/4	443.26	3/4	167.60	3/4		3/4	3/4		3/4		3/4
10	1,721.68	10	1,389.83	10	1,057.97	10	736.08	10	437.27	10	162.11	10		10	10		10		10
1/4	1,714.77	1/4	1,382.91	1/4	1,051.06	1/4	729.61	1/4	431.28	1/4	156.61	1/4		1/4	1/4		1/4		1/4
1/2	1,707.85	1/2	1,376.00	1/2	1,044.15	1/2	723.17	1/2	425.33	1/2	151.15	1/2		1/2	1/2		1/2		1/2
3/4	1,700.94	3/4	1,369.09	3/4	1,037.23	3/4	716.73	3/4	419.38	3/4	145.70	3/4		3/4	3/4		3/4		3/4
11	1,694.02	11	1,362.17	11	1,030.32	11	710.29	11	413.44	11	140.24	11		11	11		11		11
1/4	1,687.11	1/4	1,355.26	1/4	1,023.40	1/4	703.84	1/4	407.49	1/4	134.79	1/4		1/4	1/4		1/4		1/4
1/2	1,680.20	1/2	1,348.34	1/2	1,016.51	1/2	697.44	1/2	401.58	1/2	129.37	1/2		1/2	1/2		1/2		1/2
3/4	1,673.28	3/4	1,341.43	3/4	1,009.62	3/4	691.04	3/4	395.67	3/4	123.96	3/4		3/4	3/4		3/4		3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 10/18/2013 CL
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CANCELS AND SUPERCEDES
ALL PRIOR TO 10/2013

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



BARGE "EMS 386"

2 PORT 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	2,477.60	0	2,089.15	0	1,700.70	0	1,312.25	0	923.80	0	549.70	0	162.22	0		0		0	
1/4	2,469.50	1/4	2,081.05	1/4	1,692.60	1/4	1,304.15	1/4	915.70	1/4	541.92	1/4	154.12	1/4	1/4		1/4		1/4
1/2	2,461.41	1/2	2,072.96	1/2	1,684.51	1/2	1,296.06	1/2	907.61	1/2	534.14	1/2	146.03	1/2	1/2		1/2		1/2
3/4	2,453.32	3/4	2,064.87	3/4	1,676.42	3/4	1,287.97	3/4	899.52	3/4	526.36	3/4	137.94	3/4	3/4		3/4		3/4
1	2,445.22	1	2,056.78	1	1,668.33	1	1,279.88	1	891.73	1	518.26	1	129.85	1	1		1		1
1/4	2,437.13	1/4	2,048.68	1/4	1,660.23	1/4	1,271.78	1/4	883.95	1/4	510.17	1/4	121.76	1/4	1/4		1/4		1/4
1/2	2,429.04	1/2	2,040.59	1/2	1,652.14	1/2	1,263.69	1/2	876.16	1/2	502.08	1/2	113.66	1/2	1/2		1/2		1/2
3/4	2,420.95	3/4	2,032.50	3/4	1,644.05	3/4	1,255.60	3/4	868.37	3/4	493.99	3/4	105.57	3/4	3/4		3/4		3/4
2	2,412.85	2	2,024.40	2	1,635.95	2	1,247.51	2	860.59	2	485.90	2	97.48	2	2		2		2
1/4	2,404.76	1/4	2,016.31	1/4	1,627.86	1/4	1,239.41	1/4	852.80	1/4	477.80	1/4	89.39	1/4	1/4		1/4		1/4
1/2	2,396.67	1/2	2,008.22	1/2	1,619.77	1/2	1,231.32	1/2	845.01	1/2	469.71	1/2	81.30	1/2	1/2		1/2		1/2
3/4	2,388.58	3/4	2,000.13	3/4	1,611.68	3/4	1,223.23	3/4	837.23	3/4	461.62	3/4	73.20	3/4	3/4		3/4		3/4
3	2,380.48	3	1,992.03	3	1,603.58	3	1,215.13	3	829.44	3	453.53	3	65.40	3	3		3		3
1/4	2,372.39	1/4	1,983.94	1/4	1,595.49	1/4	1,207.04	1/4	821.66	1/4	445.44	1/4	57.60	1/4	1/4		1/4		1/4
1/2	2,364.30	1/2	1,975.85	1/2	1,587.40	1/2	1,198.95	1/2	813.88	1/2	437.34	1/2	49.79	1/2	1/2		1/2		1/2
3/4	2,356.20	3/4	1,967.76	3/4	1,579.31	3/4	1,190.86	3/4	806.10	3/4	429.25	3/4	41.99	3/4	3/4		3/4		3/4
4	2,348.11	4	1,959.66	4	1,571.21	4	1,182.76	4	798.33	4	421.16	4	36.21	4	4		4		4
1/4	2,340.02	1/4	1,951.57	1/4	1,563.12	1/4	1,174.67	1/4	790.56	1/4	413.07	1/4	30.43	1/4	1/4		1/4		1/4
1/2	2,331.93	1/2	1,943.48	1/2	1,555.03	1/2	1,166.58	1/2	782.79	1/2	404.98	1/2	24.65	1/2	1/2		1/2		1/2
3/4	2,323.83	3/4	1,935.38	3/4	1,546.93	3/4	1,158.49	3/4	775.02	3/4	396.88	3/4	18.88	3/4	3/4		3/4		3/4
5	2,315.74	5	1,927.29	5	1,538.84	5	1,150.39	5	767.25	5	388.79	5		5	5		5		5
1/4	2,307.65	1/4	1,919.20	1/4	1,530.75	1/4	1,142.30	1/4	759.48	1/4	380.70	1/4		1/4	1/4		1/4		1/4
1/2	2,299.56	1/2	1,911.11	1/2	1,522.66	1/2	1,134.21	1/2	751.71	1/2	372.61	1/2		1/2	1/2		1/2		1/2
3/4	2,291.46	3/4	1,903.01	3/4	1,514.56	3/4	1,126.11	3/4	743.94	3/4	364.52	3/4		3/4	3/4		3/4		3/4
6	2,283.37	6	1,894.92	6	1,506.47	6	1,118.02	6	736.17	6	356.42	6		6	6		6		6
1/4	2,275.28	1/4	1,886.83	1/4	1,498.38	1/4	1,109.93	1/4	728.39	1/4	348.33	1/4		1/4	1/4		1/4		1/4
1/2	2,267.19	1/2	1,878.74	1/2	1,490.29	1/2	1,101.84	1/2	720.62	1/2	340.24	1/2		1/2	1/2		1/2		1/2
3/4	2,259.09	3/4	1,870.64	3/4	1,482.19	3/4	1,093.74	3/4	712.85	3/4	332.15	3/4		3/4	3/4		3/4		3/4
7	2,251.00	7	1,862.55	7	1,474.10	7	1,085.65	7	705.09	7	324.06	7		7	7		7		7
1/4	2,242.91	1/4	1,854.46	1/4	1,466.01	1/4	1,077.56	1/4	697.32	1/4	315.96	1/4		1/4	1/4		1/4		1/4
1/2	2,234.81	1/2	1,846.36	1/2	1,457.92	1/2	1,069.47	1/2	689.56	1/2	307.87	1/2		1/2	1/2		1/2		1/2
3/4	2,226.72	3/4	1,838.27	3/4	1,449.82	3/4	1,061.37	3/4	681.79	3/4	299.78	3/4		3/4	3/4		3/4		3/4
8	2,218.63	8	1,830.18	8	1,441.73	8	1,053.28	8	674.02	8	291.69	8		8	8		8		8
1/4	2,210.54	1/4	1,822.09	1/4	1,433.64	1/4	1,045.19	1/4	666.26	1/4	283.60	1/4		1/4	1/4		1/4		1/4
1/2	2,202.44	1/2	1,813.99	1/2	1,425.54	1/2	1,037.09	1/2	658.49	1/2	275.50	1/2		1/2	1/2		1/2		1/2
3/4	2,194.35	3/4	1,805.90	3/4	1,417.45	3/4	1,029.00	3/4	650.72	3/4	267.41	3/4		3/4	3/4		3/4		3/4
9	2,186.26	9	1,797.81	9	1,409.36	9	1,020.91	9	642.95	9	259.32	9		9	9		9		9
1/4	2,178.17	1/4	1,789.72	1/4	1,401.27	1/4	1,012.82	1/4	635.18	1/4	251.23	1/4		1/4	1/4		1/4		1/4
1/2	2,170.07	1/2	1,781.62	1/2	1,393.17	1/2	1,004.72	1/2	627.41	1/2	243.14	1/2		1/2	1/2		1/2		1/2
3/4	2,161.98	3/4	1,773.53	3/4	1,385.08	3/4	996.63	3/4	619.64	3/4	235.04	3/4		3/4	3/4		3/4		3/4
10	2,153.89	10	1,765.44	10	1,376.99	10	988.54	10	611.87	10	226.95	10		10	10		10		10
1/4	2,145.79	1/4	1,757.35	1/4	1,368.90	1/4	980.45	1/4	604.10	1/4	218.86	1/4		1/4	1/4		1/4		1/4
1/2	2,137.70	1/2	1,749.25	1/2	1,360.80	1/2	972.35	1/2	596.33	1/2	210.77	1/2		1/2	1/2		1/2		1/2
3/4	2,129.61	3/4	1,741.16	3/4	1,352.71	3/4	964.26	3/4	588.56	3/4	202.68	3/4		3/4	3/4		3/4		3/4
11	2,121.52	11	1,733.07	11	1,344.62	11	956.17	11	580.79	11	194.58	11		11	11		11		11
1/4	2,113.42	1/4	1,724.97	1/4	1,336.52	1/4	948.08	1/4	573.02	1/4	186.49	1/4		1/4	1/4		1/4		1/4
1/2	2,105.33	1/2	1,716.88	1/2	1,328.43	1/2	939.98	1/2	565.25	1/2	178.40	1/2		1/2	1/2		1/2		1/2
3/4	2,097.24	3/4	1,708.79	3/4	1,320.34	3/4	931.89	3/4	557.48	3/4	170.31	3/4		3/4	3/4		3/4		3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 10/18/2013 CL
CALCULATED: 10/19/2013 CL
PRINTED: 10/19/2013 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 10/2013

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



BARGE "EMS 386"

2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-05"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
IN		IN		IN		IN		IN		IN		IN		IN		IN		IN	
0		0		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	
1/2		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	
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	
1/2		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	
2		2		2		2		2		2		2		2		2		2	
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	
3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
3		3		3		3		3		3		3		3		3		3	
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	
3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
4		4		4		4		4		4		4		4		4		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	
3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
5		5		5		5		5		5		5		5		5		5	
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	
3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
6		6		6		6		6		6		6		6		6		6	
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	
3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
7		7		7		7		7		7		7		7		7		7	
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	
3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
8		8		8		8		8		8		8		8		8		8	
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	
3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
9		9		9		9		9		9		9		9		9		9	
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	
3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
10		10		10		10		10		10		10		10		10		10	
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	
3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
11		11		11		11		11		11		11		11		11		11	
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	
3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
12		12		12		12		12		12		12		12		12		12	
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	
3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN WITH "HERMETIC" CLOSED GAUGING DEVICE.
 GAUGE POINT: (HERMETIC) LOCATED 12'-06" OFF CENTERLINE AND 51'-00" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT
 & ANALYSIS, INC.
 P.O. Box 2092
 Pearland, Texas 77588
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BARGE "EMS 386"

2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-05"

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.	
IN		IN		IN		IN		IN		IN		IN		IN		IN		IN	
0	2,500.60	0	2,112.15	0	1,723.70	0	1,335.25	0	946.80	0	558.72	0	170.31	0		0		0	
1/4	2,492.51	1/4	2,104.06	1/4	1,715.61	1/4	1,327.16	1/4	938.71	1/4	550.63	1/4	162.22	1/4		1/4		1/4	
1/2	2,484.42	1/2	2,095.97	1/2	1,707.52	1/2	1,319.07	1/2	930.62	1/2	542.54	1/2	154.12	1/2		1/2		1/2	
3/4	2,476.32	3/4	2,087.87	3/4	1,699.42	3/4	1,310.97	3/4	922.52	3/4	534.45	3/4	146.03	3/4		3/4		3/4	
1	2,468.23	1	2,079.78	1	1,691.33	1	1,302.88	1	914.43	1	526.36	1	137.94	1		1		1	
1/4	2,460.14	1/4	2,071.69	1/4	1,683.24	1/4	1,294.79	1/4	906.34	1/4	518.26	1/4	129.85	1/4		1/4		1/4	
1/2	2,452.04	1/2	2,063.59	1/2	1,675.15	1/2	1,286.70	1/2	898.25	1/2	510.17	1/2	121.76	1/2		1/2		1/2	
3/4	2,443.95	3/4	2,055.50	3/4	1,667.05	3/4	1,278.60	3/4	890.15	3/4	502.08	3/4	113.66	3/4		3/4		3/4	
2	2,435.86	2	2,047.41	2	1,658.96	2	1,270.51	2	882.06	2	493.99	2	105.57	2		2		2	
1/4	2,427.77	1/4	2,039.32	1/4	1,650.87	1/4	1,262.42	1/4	873.97	1/4	485.90	1/4	97.48	1/4		1/4		1/4	
1/2	2,419.67	1/2	2,031.22	1/2	1,642.77	1/2	1,254.32	1/2	865.88	1/2	477.80	1/2	89.39	1/2		1/2		1/2	
3/4	2,411.58	3/4	2,023.13	3/4	1,634.68	3/4	1,246.23	3/4	857.78	3/4	469.71	3/4	81.30	3/4		3/4		3/4	
3	2,403.49	3	2,015.04	3	1,626.59	3	1,238.14	3	849.69	3	461.62	3	73.20	3		3		3	
1/4	2,395.40	1/4	2,006.95	1/4	1,618.50	1/4	1,230.05	1/4	841.60	1/4	453.53	1/4	65.40	1/4		1/4		1/4	
1/2	2,387.30	1/2	1,998.85	1/2	1,610.40	1/2	1,221.95	1/2	833.50	1/2	445.44	1/2	57.60	1/2		1/2		1/2	
3/4	2,379.21	3/4	1,990.76	3/4	1,602.31	3/4	1,213.86	3/4	825.41	3/4	437.34	3/4	49.79	3/4		3/4		3/4	
4	2,371.12	4	1,982.67	4	1,594.22	4	1,205.77	4	817.32	4	429.25	4	41.99	4		4		4	
1/4	2,363.02	1/4	1,974.57	1/4	1,586.13	1/4	1,197.68	1/4	809.24	1/4	421.16	1/4	36.21	1/4		1/4		1/4	
1/2	2,354.93	1/2	1,966.48	1/2	1,578.03	1/2	1,189.58	1/2	801.15	1/2	413.07	1/2	30.43	1/2		1/2		1/2	
3/4	2,346.84	3/4	1,958.39	3/4	1,569.94	3/4	1,181.49	3/4	793.07	3/4	404.98	3/4	24.65	3/4		3/4		3/4	
5	2,338.75	5	1,950.30	5	1,561.85	5	1,173.40	5	784.99	5	396.88	5	18.88	5		5		5	
1/4	2,330.65	1/4	1,942.20	1/4	1,553.75	1/4	1,165.31	1/4	776.91	1/4	388.79	1/4		1/4		1/4		1/4	
1/2	2,322.56	1/2	1,934.11	1/2	1,545.66	1/2	1,157.21	1/2	768.83	1/2	380.70	1/2		1/2		1/2		1/2	
3/4	2,314.47	3/4	1,926.02	3/4	1,537.57	3/4	1,149.12	3/4	760.74	3/4	372.61	3/4		3/4		3/4		3/4	
6	2,306.38	6	1,917.93	6	1,529.48	6	1,141.03	6	752.66	6	364.52	6		6		6		6	
1/4	2,298.28	1/4	1,909.83	1/4	1,521.38	1/4	1,132.93	1/4	744.58	1/4	356.42	1/4		1/4		1/4		1/4	
1/2	2,290.19	1/2	1,901.74	1/2	1,513.29	1/2	1,124.84	1/2	736.50	1/2	348.33	1/2		1/2		1/2		1/2	
3/4	2,282.10	3/4	1,893.65	3/4	1,505.20	3/4	1,116.75	3/4	728.41	3/4	340.24	3/4		3/4		3/4		3/4	
7	2,274.00	7	1,885.56	7	1,497.11	7	1,108.66	7	720.33	7	332.15	7		7		7		7	
1/4	2,265.91	1/4	1,877.46	1/4	1,489.01	1/4	1,100.56	1/4	712.25	1/4	324.06	1/4		1/4		1/4		1/4	
1/2	2,257.82	1/2	1,869.37	1/2	1,480.92	1/2	1,092.47	1/2	704.18	1/2	315.96	1/2		1/2		1/2		1/2	
3/4	2,249.73	3/4	1,861.28	3/4	1,472.83	3/4	1,084.38	3/4	696.10	3/4	307.87	3/4		3/4		3/4		3/4	
8	2,241.63	8	1,853.18	8	1,464.73	8	1,076.29	8	688.02	8	299.78	8		8		8		8	
1/4	2,233.54	1/4	1,845.09	1/4	1,456.64	1/4	1,068.19	1/4	679.94	1/4	291.69	1/4		1/4		1/4		1/4	
1/2	2,225.45	1/2	1,837.00	1/2	1,448.55	1/2	1,060.10	1/2	671.87	1/2	283.60	1/2		1/2		1/2		1/2	
3/4	2,217.36	3/4	1,828.91	3/4	1,440.46	3/4	1,052.01	3/4	663.79	3/4	275.50	3/4		3/4		3/4		3/4	
9	2,209.26	9	1,820.81	9	1,432.36	9	1,043.91	9	655.71	9	267.41	9		9		9		9	
1/4	2,201.17	1/4	1,812.72	1/4	1,424.27	1/4	1,035.82	1/4	647.63	1/4	259.32	1/4		1/4		1/4		1/4	
1/2	2,193.08	1/2	1,804.63	1/2	1,416.18	1/2	1,027.73	1/2	639.55	1/2	251.23	1/2		1/2		1/2		1/2	
3/4	2,184.99	3/4	1,796.54	3/4	1,408.09	3/4	1,019.64	3/4	631.46	3/4	243.14	3/4		3/4		3/4		3/4	
10	2,176.89	10	1,788.44	10	1,399.99	10	1,011.54	10	623.38	10	235.04	10		10		10		10	
1/4	2,168.80	1/4	1,780.35	1/4	1,391.90	1/4	1,003.45	1/4	615.30	1/4	226.95	1/4		1/4		1/4		1/4	
1/2	2,160.71	1/2	1,772.26	1/2	1,383.81	1/2	995.36	1/2	607.22	1/2	218.86	1/2		1/2		1/2		1/2	
3/4	2,152.61	3/4	1,764.16	3/4	1,375.72	3/4	987.27	3/4	599.13	3/4	210.77	3/4		3/4		3/4		3/4	
11	2,144.52	11	1,756.07	11	1,367.62	11	979.17	11	591.05	11	202.68	11		11		11		11	
1/4	2,136.43	1/4	1,747.98	1/4	1,359.53	1/4	971.08	1/4	582.97	1/4	194.58	1/4		1/4		1/4		1/4	
1/2	2,128.34	1/2	1,739.89	1/2	1,351.44	1/2	962.99	1/2	574.89	1/2	186.49	1/2		1/2		1/2		1/2	
3/4	2,120.24	3/4	1,731.79	3/4	1,343.34	3/4	954.89	3/4	566.81	3/4	178.40	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 10/18/2013 CL
CALCULATED: 10/19/2013 CL
PRINTED: 10/19/2013 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 10/2013

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



BARGE "EMS 386"

**3 PORT
ULLAGE TABLE**

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-04 3/4"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0
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	
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
1/4		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	
3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
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	
3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
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	
3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	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	
3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
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	
3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
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	
3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
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	
3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
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	
3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
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	
3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
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	
3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11
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	
3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	

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

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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BARGE "EMS 386"

3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-05"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
IN		IN		IN		IN		IN		IN		IN		IN		IN		IN	
0		0		0		0	4,493.81	0	4,242.55	0	3,970.58	0	3,679.47	0	3,385.29	0	3,025.21	0	2,665.06
1/4		1/4		1/4		1/4	4,488.26	1/4	4,237.09	1/4	3,964.67	1/4	3,673.34	1/4	3,377.78	1/4	3,017.71	1/4	2,657.55
1/2		1/2		1/2		1/2	4,482.72	1/2	4,231.63	1/2	3,958.76	1/2	3,667.21	1/2	3,370.28	1/2	3,010.21	1/2	2,650.05
3/4		3/4		3/4		3/4	4,477.18	3/4	4,226.17	3/4	3,952.85	3/4	3,661.08	3/4	3,362.77	3/4	3,002.72	3/4	2,642.54
1		1		1		1	4,471.63	1	4,220.71	1	3,946.94	1	3,654.95	1	3,355.27	1	2,995.22	1	2,635.03
1/4		1/4		1/4		1/4	4,466.62	1/4	4,215.21	1/4	3,941.00	1/4	3,648.82	1/4	3,347.76	1/4	2,987.72	1/4	2,627.53
1/2		1/2		1/2		1/2	4,461.61	1/2	4,209.71	1/2	3,935.05	1/2	3,642.69	1/2	3,340.25	1/2	2,980.22	1/2	2,620.02
3/4		3/4		3/4		3/4	4,456.60	3/4	4,204.22	3/4	3,929.10	3/4	3,636.56	3/4	3,332.75	3/4	2,972.72	3/4	2,612.51
2		2		2		2	4,451.58	2	4,198.72	2	3,923.16	2	3,630.44	2	3,325.24	2	2,965.22	2	2,605.01
1/4		1/4		1/4		1/4	4,446.53	1/4	4,193.18	1/4	3,917.17	1/4	3,624.31	1/4	3,317.74	1/4	2,957.72	1/4	2,597.50
1/2		1/2		1/2		1/2	4,441.48	1/2	4,187.65	1/2	3,911.19	1/2	3,618.18	1/2	3,310.23	1/2	2,950.22	1/2	2,589.99
3/4		3/4		3/4		3/4	4,436.43	3/4	4,182.11	3/4	3,905.21	3/4	3,612.05	3/4	3,302.73	3/4	2,942.72	3/4	2,582.49
3		3		3		3	4,431.38	3	4,176.58	3	3,899.22	3	3,605.92	3	3,295.22	3	2,935.23	3	2,574.98
1/4		1/4		1/4		1/4	4,426.29	1/4	4,171.00	1/4	3,893.20	1/4	3,599.79	1/4	3,287.72	1/4	2,927.73	1/4	2,567.48
1/2		1/2		1/2		1/2	4,421.21	1/2	4,165.43	1/2	3,887.18	1/2	3,593.66	1/2	3,280.21	1/2	2,920.23	1/2	2,559.97
3/4		3/4		3/4		3/4	4,416.12	3/4	4,159.86	3/4	3,881.16	3/4	3,587.53	3/4	3,272.70	3/4	2,912.73	3/4	2,552.46
4		4		4		4	4,411.03	4	4,154.29	4	3,875.14	4	3,581.41	4	3,265.20	4	2,905.23	4	2,544.96
1/4		1/4		1/4		1/4	4,405.91	1/4	4,148.68	1/4	3,869.08	1/4	3,575.28	1/4	3,257.69	1/4	2,897.73	1/4	2,537.46
1/2		1/2		1/2		1/2	4,400.78	1/2	4,143.07	1/2	3,863.02	1/2	3,569.15	1/2	3,250.19	1/2	2,890.23	1/2	2,529.96
3/4		3/4		3/4		3/4	4,395.66	3/4	4,137.46	3/4	3,856.96	3/4	3,563.02	3/4	3,242.68	3/4	2,882.73	3/4	2,522.47
5		5		5		5	4,390.53	5	4,131.85	5	3,850.90	5	3,556.89	5	3,235.18	5	2,875.23	5	2,514.97
1/4		1/4		1/4		1/4	4,385.37	1/4	4,126.20	1/4	3,844.81	1/4	3,550.76	1/4	3,227.68	1/4	2,867.73	1/4	2,507.47
1/2		1/2		1/2		1/2	4,380.21	1/2	4,120.55	1/2	3,838.71	1/2	3,544.63	1/2	3,220.18	1/2	2,860.22	1/2	2,499.97
3/4		3/4		3/4		3/4	4,375.04	3/4	4,114.90	3/4	3,832.62	3/4	3,538.50	3/4	3,212.68	3/4	2,852.72	3/4	2,492.48
6		6		6		6	4,369.88	6	4,109.26	6	3,826.52	6	3,532.38	6	3,205.18	6	2,845.21	6	2,484.98
1/4		1/4		1/4		1/4	4,364.68	1/4	4,103.57	1/4	3,820.40	1/4	3,526.25	1/4	3,197.69	1/4	2,837.70	1/4	2,477.48
1/2		1/2		1/2		1/2	4,359.48	1/2	4,097.89	1/2	3,814.28	1/2	3,520.12	1/2	3,190.19	1/2	2,830.20	1/2	2,469.98
3/4		3/4		3/4		3/4	4,354.28	3/4	4,092.20	3/4	3,808.16	3/4	3,513.99	3/4	3,182.69	3/4	2,822.69	3/4	2,462.49
7		7		7		7	4,349.08	7	4,086.52	7	3,802.04	7	3,507.86	7	3,175.19	7	2,815.18	7	2,454.99
1/4		1/4		1/4	4,614.99	1/4	4,343.84	1/4	4,080.80	1/4	3,795.91	1/4	3,501.73	1/4	3,167.69	1/4	2,807.68	1/4	2,447.49
1/2		1/2		1/2	4,609.65	1/2	4,338.61	1/2	4,075.07	1/2	3,789.78	1/2	3,495.60	1/2	3,160.19	1/2	2,800.17	1/2	2,439.99
3/4		3/4		3/4	4,604.30	3/4	4,333.37	3/4	4,069.35	3/4	3,783.65	3/4	3,489.48	3/4	3,152.69	3/4	2,792.66	3/4	2,432.50
8		8		8	4,598.96	8	4,328.13	8	4,063.63	8	3,777.52	8	3,483.35	8	3,145.19	8	2,785.16	8	2,425.00
1/4		1/4		1/4	4,592.25	1/4	4,322.86	1/4	4,057.87	1/4	3,771.40	1/4	3,477.22	1/4	3,137.70	1/4	2,777.65	1/4	2,417.50
1/2		1/2		1/2	4,585.54	1/2	4,317.58	1/2	4,052.11	1/2	3,765.27	1/2	3,471.09	1/2	3,130.20	1/2	2,770.15	1/2	2,410.01
3/4		3/4		3/4	4,578.83	3/4	4,312.31	3/4	4,046.35	3/4	3,759.14	3/4	3,464.96	3/4	3,122.70	3/4	2,762.64	3/4	2,402.51
9		9		9	4,572.12	9	4,307.03	9	4,040.59	9	3,753.01	9	3,458.83	9	3,115.20	9	2,755.13	9	2,395.01
1/4		1/4		1/4	4,564.73	1/4	4,301.72	1/4	4,034.79	1/4	3,746.88	1/4	3,452.70	1/4	3,107.70	1/4	2,747.63	1/4	2,387.51
1/2		1/2		1/2	4,557.34	1/2	4,296.41	1/2	4,029.00	1/2	3,740.75	1/2	3,446.57	1/2	3,100.20	1/2	2,740.12	1/2	2,380.02
3/4		3/4		3/4	4,549.94	3/4	4,291.10	3/4	4,023.20	3/4	3,734.62	3/4	3,440.45	3/4	3,092.70	3/4	2,732.61	3/4	2,372.52
10		10		10	4,542.55	10	4,285.79	10	4,017.40	10	3,728.49	10	3,434.32	10	3,085.20	10	2,725.11	10	2,365.02
1/4		1/4		1/4	4,536.45	1/4	4,280.40	1/4	4,011.57	1/4	3,722.37	1/4	3,428.19	1/4	3,077.70	1/4	2,717.60	1/4	2,357.52
1/2		1/2		1/2	4,530.36	1/2	4,275.01	1/2	4,005.73	1/2	3,716.24	1/2	3,422.06	1/2	3,070.21	1/2	2,710.10	1/2	2,350.03
3/4		3/4		3/4	4,524.27	3/4	4,269.63	3/4	3,999.90	3/4	3,710.11	3/4	3,415.93	3/4	3,062.71	3/4	2,702.59	3/4	2,342.53
11		11		11	4,518.18	11	4,264.24	11	3,994.07	11	3,703.98	11	3,409.80	11	3,055.21	11	2,695.08	11	2,335.03
1/4		1/4		1/4	4,512.08	1/4	4,258.82	1/4	3,988.19	1/4	3,697.85	1/4	3,403.67	1/4	3,047.71	1/4	2,687.58	1/4	2,327.54
1/2		1/2		1/2	4,505.99	1/2	4,253.40	1/2	3,982.32	1/2	3,691.72	1/2	3,397.54	1/2	3,040.21	1/2	2,680.07	1/2	2,320.04
3/4		3/4		3/4	4,499.90	3/4	4,247.97	3/4	3,976.45	3/4	3,685.59	3/4	3,391.42	3/4	3,032.71	3/4	2,672.56	3/4	2,312.54

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BARGE "EMS 386"

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	2,305.04	0	1,946.05	0	1,588.05	0	1,227.83	0	867.62	0	517.53	0	158.08	0		0		0	
1/4	2,297.54	1/4	1,938.62	1/4	1,580.55	1/4	1,220.33	1/4	860.11	1/4	510.24	1/4	150.58	1/4	1/4		1/4		1/4
1/2	2,290.03	1/2	1,931.19	1/2	1,573.04	1/2	1,212.83	1/2	852.61	1/2	502.96	1/2	143.07	1/2	1/2		1/2		1/2
3/4	2,282.52	3/4	1,923.76	3/4	1,565.54	3/4	1,205.32	3/4	845.11	3/4	495.68	3/4	135.56	3/4	3/4		3/4		3/4
1	2,275.01	1	1,916.33	1	1,558.03	1	1,197.82	1	837.60	1	488.40	1	128.06	1	1		1		1
1/4	2,267.50	1/4	1,908.90	1/4	1,550.53	1/4	1,190.31	1/4	830.32	1/4	480.89	1/4	120.55	1/4	1/4		1/4		1/4
1/2	2,260.00	1/2	1,901.47	1/2	1,543.02	1/2	1,182.81	1/2	823.03	1/2	473.39	1/2	113.04	1/2	1/2		1/2		1/2
3/4	2,252.49	3/4	1,894.04	3/4	1,535.52	3/4	1,175.30	3/4	815.75	3/4	465.88	3/4	105.53	3/4	3/4		3/4		3/4
2	2,244.98	2	1,886.61	2	1,528.01	2	1,167.80	2	808.47	2	458.37	2	98.03	2	2		2		2
1/4	2,237.47	1/4	1,879.18	1/4	1,520.51	1/4	1,160.29	1/4	801.19	1/4	450.87	1/4	90.52	1/4	1/4		1/4		1/4
1/2	2,229.97	1/2	1,871.74	1/2	1,513.01	1/2	1,152.79	1/2	793.90	1/2	443.36	1/2	83.01	1/2	1/2		1/2		1/2
3/4	2,222.46	3/4	1,864.31	3/4	1,505.50	3/4	1,145.29	3/4	786.62	3/4	435.85	3/4	75.51	3/4	3/4		3/4		3/4
3	2,214.95	3	1,856.88	3	1,498.00	3	1,137.78	3	779.34	3	428.34	3	68.00	3	3		3		3
1/4	2,207.44	1/4	1,849.45	1/4	1,490.49	1/4	1,130.28	1/4	772.05	1/4	420.84	1/4	60.76	1/4	1/4		1/4		1/4
1/2	2,199.93	1/2	1,842.02	1/2	1,482.99	1/2	1,122.77	1/2	764.77	1/2	413.33	1/2	53.25	1/2	1/2		1/2		1/2
3/4	2,192.43	3/4	1,834.59	3/4	1,475.48	3/4	1,115.27	3/4	757.49	3/4	405.82	3/4	46.28	3/4	3/4		3/4		3/4
4	2,184.92	4	1,827.16	4	1,467.98	4	1,107.76	4	750.21	4	398.31	4	39.04	4	4		4		4
1/4	2,177.41	1/4	1,819.73	1/4	1,460.47	1/4	1,100.26	1/4	742.93	1/4	390.81	1/4	33.67	1/4	1/4		1/4		1/4
1/2	2,169.90	1/2	1,812.30	1/2	1,452.97	1/2	1,092.75	1/2	735.66	1/2	383.30	1/2	28.30	1/2	1/2		1/2		1/2
3/4	2,162.40	3/4	1,804.87	3/4	1,445.47	3/4	1,085.25	3/4	728.39	3/4	375.79	3/4	22.94	3/4	3/4		3/4		3/4
5	2,154.89	5	1,797.44	5	1,437.96	5	1,077.74	5	721.12	5	368.29	5	17.57	5	5		5		5
1/4	2,147.38	1/4	1,790.01	1/4	1,430.46	1/4	1,070.24	1/4	713.84	1/4	360.78	1/4		1/4	1/4		1/4		1/4
1/2	2,139.87	1/2	1,782.58	1/2	1,422.95	1/2	1,062.74	1/2	706.57	1/2	353.27	1/2		1/2	1/2		1/2		1/2
3/4	2,132.36	3/4	1,775.14	3/4	1,415.45	3/4	1,055.23	3/4	699.30	3/4	345.76	3/4		3/4	3/4		3/4		3/4
6	2,124.86	6	1,767.71	6	1,407.94	6	1,047.73	6	692.03	6	338.26	6		6	6		6		6
1/4	2,117.35	1/4	1,760.28	1/4	1,400.44	1/4	1,040.22	1/4	684.75	1/4	330.75	1/4		1/4	1/4		1/4		1/4
1/2	2,109.84	1/2	1,752.85	1/2	1,392.93	1/2	1,032.72	1/2	677.48	1/2	323.24	1/2		1/2	1/2		1/2		1/2
3/4	2,102.33	3/4	1,745.42	3/4	1,385.43	3/4	1,025.21	3/4	670.21	3/4	315.74	3/4		3/4	3/4		3/4		3/4
7	2,094.83	7	1,737.99	7	1,377.92	7	1,017.71	7	662.94	7	308.23	7		7	7		7		7
1/4	2,087.36	1/4	1,730.52	1/4	1,370.42	1/4	1,010.20	1/4	655.67	1/4	300.72	1/4		1/4	1/4		1/4		1/4
1/2	2,079.89	1/2	1,723.06	1/2	1,362.92	1/2	1,002.70	1/2	648.40	1/2	293.21	1/2		1/2	1/2		1/2		1/2
3/4	2,072.42	3/4	1,715.59	3/4	1,355.41	3/4	995.20	3/4	641.13	3/4	285.71	3/4		3/4	3/4		3/4		3/4
8	2,064.95	8	1,708.12	8	1,347.91	8	987.69	8	633.87	8	278.20	8		8	8		8		8
1/4	2,057.51	1/4	1,700.62	1/4	1,340.40	1/4	980.19	1/4	626.60	1/4	270.69	1/4		1/4	1/4		1/4		1/4
1/2	2,050.08	1/2	1,693.11	1/2	1,332.90	1/2	972.68	1/2	619.33	1/2	263.19	1/2		1/2	1/2		1/2		1/2
3/4	2,042.65	3/4	1,685.61	3/4	1,325.39	3/4	965.18	3/4	612.06	3/4	255.68	3/4		3/4	3/4		3/4		3/4
9	2,035.22	9	1,678.10	9	1,317.89	9	957.67	9	604.79	9	248.17	9		9	9		9		9
1/4	2,027.79	1/4	1,670.60	1/4	1,310.38	1/4	950.17	1/4	597.52	1/4	240.66	1/4		1/4	1/4		1/4		1/4
1/2	2,020.36	1/2	1,663.10	1/2	1,302.88	1/2	942.66	1/2	590.25	1/2	233.16	1/2		1/2	1/2		1/2		1/2
3/4	2,012.93	3/4	1,655.59	3/4	1,295.38	3/4	935.16	3/4	582.98	3/4	225.65	3/4		3/4	3/4		3/4		3/4
10	2,005.50	10	1,648.09	10	1,287.87	10	927.65	10	575.71	10	218.14	10		10	10		10		10
1/4	1,998.07	1/4	1,640.58	1/4	1,280.37	1/4	920.15	1/4	568.43	1/4	210.63	1/4		1/4	1/4		1/4		1/4
1/2	1,990.64	1/2	1,633.08	1/2	1,272.86	1/2	912.65	1/2	561.16	1/2	203.13	1/2		1/2	1/2		1/2		1/2
3/4	1,983.21	3/4	1,625.57	3/4	1,265.36	3/4	905.14	3/4	553.89	3/4	195.62	3/4		3/4	3/4		3/4		3/4
11	1,975.78	11	1,618.07	11	1,257.85	11	897.64	11	546.62	11	188.11	11		11	11		11		11
1/4	1,968.35	1/4	1,610.56	1/4	1,250.35	1/4	890.13	1/4	539.34	1/4	180.61	1/4		1/4	1/4		1/4		1/4
1/2	1,960.91	1/2	1,603.06	1/2	1,242.84	1/2	882.63	1/2	532.07	1/2	173.10	1/2		1/2	1/2		1/2		1/2
3/4	1,953.48	3/4	1,595.56	3/4	1,235.34	3/4	875.12	3/4	524.80	3/4	165.59	3/4		3/4	3/4		3/4		3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 10/18/2013 CL
CALCULATED: 10/19/2013 CL
PRINTED: 10/19/2013 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 10/2013

PRECISION MEASUREMENT
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