



BARGE "EMS 394"

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

February 15, 2016

**PRECISION MEASUREMENT
& ANALYSIS, INC.**

P.O. Box 2092
 Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "EMS 394"

3 STBD INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 14'-10 1/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	17.54	0	367.79	0	720.15	0	1,076.29	0	1,436.03	0	1,795.02	0	2,151.99	0	2,511.58	0	2,871.36	0	3,230.82
1/4	22.90	1/4	375.29	1/4	727.41	1/4	1,083.79	1/4	1,443.52	1/4	1,802.44	1/4	2,159.48	1/4	2,519.07	1/4	2,908.85	1/4	3,238.32
1/2	28.27	1/2	382.78	1/2	734.67	1/2	1,091.28	1/2	1,451.01	1/2	1,809.86	1/2	2,166.98	1/2	2,526.56	1/2	2,886.34	1/2	3,245.81
3/4	33.63	3/4	390.28	3/4	741.93	3/4	1,098.78	3/4	1,458.51	3/4	1,817.28	3/4	2,174.48	3/4	2,534.04	3/4	2,893.83	3/4	3,253.31
1	38.99	1	397.78	1	749.20	1	1,106.27	1	1,466.00	1	1,824.70	1	2,181.98	1	2,541.53	1	2,901.32	1	3,260.80
1/4	46.22	1/4	405.28	1/4	756.47	1/4	1,113.77	1/4	1,473.50	1/4	1,832.12	1/4	2,189.48	1/4	2,549.03	1/4	2,908.81	1/4	3,268.30
1/2	53.45	1/2	412.77	1/2	763.74	1/2	1,121.26	1/2	1,480.99	1/2	1,839.54	1/2	2,196.97	1/2	2,556.52	1/2	2,916.30	1/2	3,275.80
3/4	60.68	3/4	420.27	3/4	771.02	3/4	1,128.76	3/4	1,488.49	3/4	1,846.96	3/4	2,204.47	3/4	2,564.02	3/4	2,923.79	3/4	3,283.29
2	67.91	2	427.77	2	778.29	2	1,136.25	2	1,495.98	2	1,854.38	2	2,211.97	2	2,571.52	2	2,931.27	2	3,290.79
1/4	75.40	1/4	435.26	1/4	785.56	1/4	1,143.74	1/4	1,503.48	1/4	1,861.80	1/4	2,219.47	1/4	2,579.01	1/4	2,938.76	1/4	3,298.28
1/2	82.90	1/2	442.76	1/2	792.83	1/2	1,151.24	1/2	1,510.97	1/2	1,869.23	1/2	2,226.96	1/2	2,586.51	1/2	2,946.25	1/2	3,305.78
3/4	90.40	3/4	450.26	3/4	800.11	3/4	1,158.73	3/4	1,518.46	3/4	1,876.65	3/4	2,234.46	3/4	2,594.00	3/4	2,953.74	3/4	3,313.27
3	97.89	3	457.76	3	807.38	3	1,166.23	3	1,525.96	3	1,884.07	3	2,241.96	3	2,601.50	3	2,961.23	3	3,320.77
1/4	105.39	1/4	465.25	1/4	814.65	1/4	1,173.72	1/4	1,533.45	1/4	1,891.49	1/4	2,249.46	1/4	2,609.00	1/4	2,968.72	1/4	3,328.26
1/2	112.89	1/2	472.75	1/2	821.93	1/2	1,181.22	1/2	1,540.95	1/2	1,898.91	1/2	2,256.95	1/2	2,616.49	1/2	2,976.21	1/2	3,335.76
3/4	120.39	3/4	480.25	3/4	829.20	3/4	1,188.71	3/4	1,548.44	3/4	1,906.33	3/4	2,264.45	3/4	2,623.99	3/4	2,983.70	3/4	3,343.25
4	127.88	4	487.74	4	836.47	4	1,196.20	4	1,555.94	4	1,913.75	4	2,271.95	4	2,631.49	4	2,991.19	4	3,350.75
1/4	135.38	1/4	495.02	1/4	843.97	1/4	1,203.70	1/4	1,563.43	1/4	1,921.17	1/4	2,279.45	1/4	2,638.98	1/4	2,998.67	1/4	3,358.24
1/2	142.88	1/2	502.29	1/2	851.46	1/2	1,211.19	1/2	1,570.92	1/2	1,928.59	1/2	2,286.95	1/2	2,646.48	1/2	3,006.16	1/2	3,365.74
3/4	150.37	3/4	509.56	3/4	858.96	3/4	1,218.69	3/4	1,578.42	3/4	1,936.01	3/4	2,294.44	3/4	2,653.97	3/4	3,013.65	3/4	3,373.24
5	157.87	5	516.83	5	866.45	5	1,226.18	5	1,585.91	5	1,943.43	5	2,301.94	5	2,661.47	5	3,021.14	5	3,380.73
1/4	165.37	1/4	524.09	1/4	873.95	1/4	1,233.68	1/4	1,593.41	1/4	1,950.85	1/4	2,309.43	1/4	2,668.97	1/4	3,028.63	1/4	3,388.85
1/2	172.87	1/2	531.35	1/2	881.44	1/2	1,241.17	1/2	1,600.90	1/2	1,958.27	1/2	2,316.92	1/2	2,676.46	1/2	3,036.12	1/2	3,392.97
3/4	180.36	3/4	538.62	3/4	888.93	3/4	1,248.67	3/4	1,608.40	3/4	1,965.70	3/4	2,324.40	3/4	2,683.96	3/4	3,043.61	3/4	3,399.09
6	187.86	6	545.88	6	896.43	6	1,256.16	6	1,615.89	6	1,973.12	6	2,331.89	6	2,691.46	6	3,051.10	6	3,405.21
1/4	195.36	1/4	553.14	1/4	903.92	1/4	1,263.65	1/4	1,623.39	1/4	1,980.54	1/4	2,339.38	1/4	2,698.95	1/4	3,058.58	1/4	3,411.33
1/2	202.85	1/2	560.40	1/2	911.42	1/2	1,271.15	1/2	1,630.88	1/2	1,987.96	1/2	2,346.86	1/2	2,706.45	1/2	3,066.07	1/2	3,417.45
3/4	210.35	3/4	567.67	3/4	918.91	3/4	1,278.64	3/4	1,638.37	3/4	1,995.38	3/4	2,354.35	3/4	2,713.94	3/4	3,073.56	3/4	3,423.57
7	217.85	7	574.93	7	926.41	7	1,286.14	7	1,645.87	7	2,002.80	7	2,361.84	7	2,721.44	7	3,081.05	7	3,429.69
1/4	225.35	1/4	582.19	1/4	933.90	1/4	1,293.63	1/4	1,653.36	1/4	2,010.22	1/4	2,369.33	1/4	2,728.94	1/4	3,088.54	1/4	3,435.81
1/2	232.84	1/2	589.46	1/2	941.40	1/2	1,301.13	1/2	1,660.86	1/2	2,017.64	1/2	2,376.81	1/2	2,736.43	1/2	3,096.03	1/2	3,441.93
3/4	240.34	3/4	596.72	3/4	948.89	3/4	1,308.62	3/4	1,668.35	3/4	2,025.06	3/4	2,384.30	3/4	2,743.93	3/4	3,103.52	3/4	3,448.06
8	247.84	8	603.98	8	956.38	8	1,316.12	8	1,675.85	8	2,032.48	8	2,391.79	8	2,751.43	8	3,111.01	8	3,454.18
1/4	255.33	1/4	611.24	1/4	963.88	1/4	1,323.61	1/4	1,683.34	1/4	2,039.90	1/4	2,399.27	1/4	2,758.92	1/4	3,118.49	1/4	3,460.30
1/2	262.83	1/2	618.50	1/2	971.37	1/2	1,331.10	1/2	1,690.84	1/2	2,047.32	1/2	2,406.76	1/2	2,766.42	1/2	3,125.98	1/2	3,466.42
3/4	270.33	3/4	625.75	3/4	978.87	3/4	1,338.60	3/4	1,698.33	3/4	2,054.75	3/4	2,414.25	3/4	2,773.91	3/4	3,133.47	3/4	3,472.54
9	277.83	9	633.01	9	986.36	9	1,346.09	9	1,705.82	9	2,062.17	9	2,421.74	9	2,781.41	9	3,140.96	9	3,478.66
1/4	285.32	1/4	640.27	1/4	993.86	1/4	1,353.59	1/4	1,713.28	1/4	2,069.63	1/4	2,429.22	1/4	2,788.91	1/4	3,148.45	1/4	3,484.78
1/2	292.82	1/2	647.53	1/2	1,001.35	1/2	1,361.08	1/2	1,720.74	1/2	2,077.09	1/2	2,436.71	1/2	2,796.40	1/2	3,155.94	1/2	3,490.90
3/4	300.32	3/4	654.79	3/4	1,008.84	3/4	1,368.58	3/4	1,728.19	3/4	2,084.55	3/4	2,444.20	3/4	2,803.90	3/4	3,163.43	3/4	3,497.02
10	307.81	10	662.05	10	1,016.34	10	1,376.07	10	1,735.65	10	2,092.01	10	2,451.69	10	2,811.39	10	3,170.92	10	3,503.14
1/4	315.31	1/4	669.31	1/4	1,023.83	1/4	1,383.56	1/4	1,743.07	1/4	2,099.50	1/4	2,459.17	1/4	2,818.89	1/4	3,178.40	1/4	3,509.26
1/2	322.81	1/2	676.57	1/2	1,031.33	1/2	1,391.06	1/2	1,750.49	1/2	2,107.00	1/2	2,466.66	1/2	2,826.39	1/2	3,185.89	1/2	3,515.38
3/4	330.30	3/4	683.83	3/4	1,038.82	3/4	1,398.55	3/4	1,757.91	3/4	2,114.50	3/4	2,474.15	3/4	2,833.88	3/4	3,193.38	3/4	3,521.50
11	337.80	11	691.10	11	1,046.32	11	1,406.05	11	1,765.33	11	2,122.00	11	2,481.63	11	2,841.38	11	3,200.87	11	3,527.62
1/4	345.30	1/4	698.36	1/4	1,053.81	1/4	1,413.54	1/4	1,772.75	1/4	2,129.49	1/4	2,489.12	1/4	2,848.88	1/4	3,208.36	1/4	3,533.74
1/2	352.80	1/2	705.62	1/2	1,061.31	1/2	1,421.04	1/2	1,780.18	1/2	2,136.99	1/2	2,496.61	1/2	2,856.37	1/2	3,215.85	1/2	3,539.86
3/4	360.29	3/4	712.88	3/4	1,068.80	3/4	1,428.53	3/4	1,787.60	3/4	2,144.49	3/4	2,504.10	3/4	2,863.87	3/4	3,223.33	3/4	3,545.98

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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

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



BARGE "EMS 394"

3 STBD INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 14'-10 1/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	3,552.10	0	3,845.72	0	4,126.28	0	4,384.62	0		0		0		0		0		0	
1/4	3,558.22	1/4	3,851.77	1/4	4,131.89	1/4	4,389.74	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,564.34	1/2	3,857.82	1/2	4,137.49	1/2	4,394.86	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,570.46	3/4	3,863.87	3/4	4,143.09	3/4	4,399.97	3/4		3/4		3/4		3/4		3/4		3/4	
1	3,576.58	1	3,869.92	1	4,148.69	1	4,405.09	1		1		1		1		1		1	
1/4	3,582.70	1/4	3,875.94	1/4	4,154.26	1/4	4,410.17	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,588.82	1/2	3,881.95	1/2	4,159.82	1/2	4,415.25	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,594.94	3/4	3,887.96	3/4	4,165.39	3/4	4,420.34	3/4		3/4		3/4		3/4		3/4		3/4	
2	3,601.07	2	3,893.97	2	4,170.95	2	4,425.42	2		2		2		2		2		2	
1/4	3,607.19	1/4	3,899.95	1/4	4,176.48	1/4	4,430.46	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,613.31	1/2	3,905.93	1/2	4,182.01	1/2	4,435.50	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,619.43	3/4	3,911.90	3/4	4,187.54	3/4	4,440.55	3/4		3/4		3/4		3/4		3/4		3/4	
3	3,625.55	3	3,917.88	3	4,193.07	3	4,445.59	3		3		3		3		3		3	
1/4	3,631.67	1/4	3,923.82	1/4	4,198.56	1/4	4,450.60	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,637.79	1/2	3,929.75	1/2	4,204.05	1/2	4,455.60	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,643.91	3/4	3,935.69	3/4	4,209.54	3/4	4,460.61	3/4		3/4		3/4		3/4		3/4		3/4	
4	3,650.03	4	3,941.63	4	4,215.03	4	4,465.62	4		4		4		4		4		4	
1/4	3,656.15	1/4	3,947.53	1/4	4,220.48	1/4	4,471.15	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,662.27	1/2	3,953.43	1/2	4,225.93	1/2	4,476.69	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,668.39	3/4	3,959.33	3/4	4,231.39	3/4	4,482.22	3/4		3/4		3/4		3/4		3/4		3/4	
5	3,674.51	5	3,965.24	5	4,236.84	5	4,487.76	5		5		5		5		5		5	
1/4	3,680.63	1/4	3,971.10	1/4	4,242.26	1/4	4,493.84	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,686.75	1/2	3,976.96	1/2	4,247.67	1/2	4,499.93	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,692.87	3/4	3,982.83	3/4	4,253.09	3/4	4,506.01	3/4		3/4		3/4		3/4		3/4		3/4	
6	3,698.99	6	3,988.69	6	4,258.50	6	4,512.10	6		6		6		6		6		6	
1/4	3,705.11	1/4	3,994.52	1/4	4,263.88	1/4	4,518.18	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,711.23	1/2	4,000.34	1/2	4,269.26	1/2	4,524.26	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,717.35	3/4	4,006.17	3/4	4,274.64	3/4	4,530.35	3/4		3/4		3/4		3/4		3/4		3/4	
7	3,723.47	7	4,012.00	7	4,280.02	7	4,536.43	7		7		7		7		7		7	
1/4	3,729.59	1/4	4,017.78	1/4	4,285.32	1/4	4,543.82	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,735.71	1/2	4,023.57	1/2	4,290.63	1/2	4,551.20	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,741.83	3/4	4,029.36	3/4	4,295.93	3/4	4,558.59	3/4		3/4		3/4		3/4		3/4		3/4	
8	3,747.95	8	4,035.15	8	4,301.24	8	4,565.97	8		8		8		8		8		8	
1/4	3,754.08	1/4	4,040.90	1/4	4,306.50	1/4	4,572.67	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,760.20	1/2	4,046.66	1/2	4,311.77	1/2	4,579.37	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,766.32	3/4	4,052.41	3/4	4,317.04	3/4	4,586.07	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,772.44	9	4,058.16	9	4,322.31	9	4,592.77	9		9		9		9		9		9	
1/4	3,778.56	1/4	4,063.87	1/4	4,327.54	1/4	4,598.11	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,784.68	1/2	4,069.59	1/2	4,332.77	1/2	4,603.44	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,790.80	3/4	4,075.30	3/4	4,338.00	3/4	4,608.78	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,796.92	10	4,081.02	10	4,343.23	10		10		10		10		10		10		10	
1/4	3,803.03	1/4	4,086.69	1/4	4,348.42	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,809.14	1/2	4,092.37	1/2	4,353.61	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,815.26	3/4	4,098.05	3/4	4,358.81	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
11	3,821.37	11	4,103.73	11	4,364.00	11		11		11		11		11		11		11	
1/4	3,827.46	1/4	4,109.36	1/4	4,369.15	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,833.54	1/2	4,115.00	1/2	4,374.31	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,839.63	3/4	4,120.64	3/4	4,379.46	3/4		3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 02/15/2016 SW
CALCULATED: 02/15/2016 CL
PRINTED: 02/15/2016 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 02/2016

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



BARGE "EMS 394"

3 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 14'-10 1/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	17.56	0	368.73	0	720.28	0	1,076.16	0	1,436.80	0	1,797.25	0	2,157.17	0	2,517.97	0	2,878.77	0	3,239.22
1/4	22.93	1/4	376.25	1/4	727.50	1/4	1,083.68	1/4	1,444.31	1/4	1,804.74	1/4	2,164.69	1/4	2,525.49	1/4	2,886.28	1/4	3,246.73
1/2	28.30	1/2	383.77	1/2	734.73	1/2	1,091.19	1/2	1,451.83	1/2	1,812.23	1/2	2,172.21	1/2	2,533.00	1/2	2,893.78	1/2	3,254.25
3/4	33.67	3/4	391.29	3/4	741.96	3/4	1,098.70	3/4	1,459.34	3/4	1,819.73	3/4	2,179.72	3/4	2,540.52	3/4	2,901.29	3/4	3,261.76
1	39.04	1	398.80	1	749.19	1	1,106.22	1	1,466.85	1	1,827.22	1	2,187.24	1	2,548.04	1	2,908.80	1	3,269.28
1/4	46.29	1/4	406.32	1/4	756.42	1/4	1,113.73	1/4	1,474.37	1/4	1,834.72	1/4	2,194.76	1/4	2,555.55	1/4	2,916.31	1/4	3,276.80
1/2	53.54	1/2	413.84	1/2	763.66	1/2	1,121.24	1/2	1,481.88	1/2	1,842.21	1/2	2,202.27	1/2	2,563.07	1/2	2,923.82	1/2	3,284.31
3/4	60.78	3/4	421.36	3/4	770.90	3/4	1,128.76	3/4	1,489.39	3/4	1,849.70	3/4	2,209.79	3/4	2,570.59	3/4	2,931.33	3/4	3,291.83
2	68.03	2	428.87	2	778.14	2	1,136.27	2	1,496.91	2	1,857.20	2	2,217.31	2	2,578.10	2	2,938.84	2	3,299.34
1/4	75.55	1/4	436.39	1/4	785.36	1/4	1,143.78	1/4	1,504.42	1/4	1,864.69	1/4	2,224.82	1/4	2,585.62	1/4	2,946.35	1/4	3,306.86
1/2	83.07	1/2	443.91	1/2	792.59	1/2	1,151.29	1/2	1,511.93	1/2	1,872.18	1/2	2,232.34	1/2	2,593.14	1/2	2,953.86	1/2	3,314.37
3/4	90.59	3/4	451.43	3/4	799.82	3/4	1,158.81	3/4	1,519.45	3/4	1,879.68	3/4	2,239.85	3/4	2,600.65	3/4	2,961.37	3/4	3,321.89
3	98.10	3	458.94	3	807.04	3	1,166.32	3	1,526.96	3	1,887.17	3	2,247.37	3	2,608.17	3	2,968.88	3	3,329.41
1/4	105.62	1/4	466.46	1/4	814.27	1/4	1,173.83	1/4	1,534.47	1/4	1,894.67	1/4	2,254.89	1/4	2,615.68	1/4	2,976.39	1/4	3,336.92
1/2	113.14	1/2	473.98	1/2	821.50	1/2	1,181.35	1/2	1,541.99	1/2	1,902.16	1/2	2,262.40	1/2	2,623.20	1/2	2,983.90	1/2	3,344.44
3/4	120.66	3/4	481.50	3/4	828.72	3/4	1,188.86	3/4	1,549.50	3/4	1,909.65	3/4	2,269.92	3/4	2,630.72	3/4	2,991.41	3/4	3,351.95
4	128.17	4	489.01	4	835.95	4	1,196.37	4	1,557.01	4	1,917.15	4	2,277.44	4	2,638.23	4	2,998.92	4	3,359.47
1/4	135.69	1/4	496.25	1/4	843.45	1/4	1,203.89	1/4	1,564.53	1/4	1,924.64	1/4	2,284.95	1/4	2,645.75	1/4	3,006.43	1/4	3,366.98
1/2	143.21	1/2	503.49	1/2	850.96	1/2	1,211.40	1/2	1,572.04	1/2	1,932.13	1/2	2,292.47	1/2	2,653.27	1/2	3,013.94	1/2	3,374.50
3/4	150.73	3/4	510.72	3/4	858.46	3/4	1,218.91	3/4	1,579.55	3/4	1,939.63	3/4	2,299.99	3/4	2,660.78	3/4	3,021.45	3/4	3,382.02
5	158.24	5	517.96	5	865.97	5	1,226.43	5	1,587.07	5	1,947.12	5	2,307.50	5	2,668.30	5	3,028.96	5	3,389.53
1/4	165.76	1/4	525.19	1/4	873.47	1/4	1,233.94	1/4	1,594.58	1/4	1,954.61	1/4	2,315.02	1/4	2,675.82	1/4	3,036.47	1/4	3,395.66
1/2	173.28	1/2	532.41	1/2	880.98	1/2	1,241.45	1/2	1,602.09	1/2	1,962.11	1/2	2,322.54	1/2	2,683.33	1/2	3,043.97	1/2	3,401.79
3/4	180.80	3/4	539.64	3/4	888.48	3/4	1,248.97	3/4	1,609.61	3/4	1,969.60	3/4	2,330.05	3/4	2,690.85	3/4	3,051.48	3/4	3,407.91
6	188.31	6	546.87	6	895.99	6	1,256.48	6	1,617.12	6	1,977.10	6	2,337.57	6	2,698.37	6	3,058.99	6	3,414.04
1/4	195.83	1/4	554.10	1/4	903.49	1/4	1,263.99	1/4	1,624.63	1/4	1,984.59	1/4	2,345.09	1/4	2,705.88	1/4	3,066.50	1/4	3,420.17
1/2	203.35	1/2	561.32	1/2	910.99	1/2	1,271.51	1/2	1,632.15	1/2	1,992.08	1/2	2,352.60	1/2	2,713.40	1/2	3,074.01	1/2	3,426.30
3/4	210.87	3/4	568.55	3/4	918.50	3/4	1,279.02	3/4	1,639.66	3/4	1,999.58	3/4	2,360.12	3/4	2,720.92	3/4	3,081.52	3/4	3,432.42
7	218.38	7	575.78	7	926.00	7	1,286.53	7	1,647.17	7	2,007.07	7	2,367.64	7	2,728.43	7	3,089.03	7	3,438.55
1/4	225.90	1/4	583.00	1/4	933.51	1/4	1,294.05	1/4	1,654.69	1/4	2,014.56	1/4	2,375.15	1/4	2,735.95	1/4	3,096.54	1/4	3,444.68
1/2	233.42	1/2	590.23	1/2	941.01	1/2	1,301.56	1/2	1,662.20	1/2	2,022.06	1/2	2,382.67	1/2	2,743.47	1/2	3,104.05	1/2	3,450.80
3/4	240.94	3/4	597.46	3/4	948.52	3/4	1,309.07	3/4	1,669.71	3/4	2,029.55	3/4	2,390.19	3/4	2,750.98	3/4	3,111.56	3/4	3,456.93
8	248.45	8	604.68	8	956.02	8	1,316.59	8	1,677.23	8	2,037.05	8	2,397.70	8	2,758.50	8	3,119.07	8	3,463.06
1/4	255.97	1/4	611.91	1/4	963.52	1/4	1,324.10	1/4	1,684.74	1/4	2,044.54	1/4	2,405.22	1/4	2,766.02	1/4	3,126.58	1/4	3,469.19
1/2	263.49	1/2	619.13	1/2	971.03	1/2	1,331.61	1/2	1,692.25	1/2	2,052.03	1/2	2,412.74	1/2	2,773.53	1/2	3,134.09	1/2	3,475.31
3/4	271.01	3/4	626.35	3/4	978.53	3/4	1,339.13	3/4	1,699.77	3/4	2,059.53	3/4	2,420.25	3/4	2,781.05	3/4	3,141.60	3/4	3,481.44
9	278.52	9	633.57	9	986.04	9	1,346.64	9	1,707.28	9	2,067.02	9	2,427.77	9	2,788.57	9	3,149.11	9	3,487.57
1/4	286.04	1/4	640.80	1/4	993.54	1/4	1,354.15	1/4	1,714.78	1/4	2,074.53	1/4	2,435.29	1/4	2,796.08	1/4	3,156.62	1/4	3,493.69
1/2	293.56	1/2	648.02	1/2	1,001.05	1/2	1,361.67	1/2	1,722.29	1/2	2,082.03	1/2	2,442.80	1/2	2,803.60	1/2	3,164.13	1/2	3,499.82
3/4	301.08	3/4	655.24	3/4	1,008.55	3/4	1,369.18	3/4	1,729.79	3/4	2,089.53	3/4	2,450.32	3/4	2,811.12	3/4	3,171.64	3/4	3,505.95
10	308.59	10	662.46	10	1,016.06	10	1,376.69	10	1,737.30	10	2,097.04	10	2,457.84	10	2,818.63	10	3,179.15	10	3,512.08
1/4	316.11	1/4	669.69	1/4	1,023.57	1/4	1,384.21	1/4	1,744.79	1/4	2,104.56	1/4	2,465.35	1/4	2,826.15	1/4	3,186.65	1/4	3,518.20
1/2	323.63	1/2	676.92	1/2	1,031.08	1/2	1,391.72	1/2	1,752.28	1/2	2,112.07	1/2	2,472.87	1/2	2,833.67	1/2	3,194.16	1/2	3,524.33
3/4	331.15	3/4	684.14	3/4	1,038.60	3/4	1,399.23	3/4	1,759.78	3/4	2,119.59	3/4	2,480.39	3/4	2,841.18	3/4	3,201.67	3/4	3,530.46
11	338.66	11	691.37	11	1,046.11	11	1,406.75	11	1,767.27	11	2,127.11	11	2,487.90	11	2,848.70	11	3,209.18	11	3,536.59
1/4	346.18	1/4	698.60	1/4	1,053.62	1/4	1,414.26	1/4	1,774.77	1/4	2,134.62	1/4	2,495.42	1/4	2,856.22	1/4	3,216.69	1/4	3,542.71
1/2	353.70	1/2	705.82	1/2	1,061.14	1/2	1,421.77	1/2	1,782.26	1/2	2,142.14	1/2	2,502.94	1/2	2,863.73	1/2	3,224.20	1/2	3,548.84
3/4	361.22	3/4	713.05	3/4	1,068.65	3/4	1,429.29	3/4	1,789.75	3/4	2,149.66	3/4	2,510.45	3/4	2,871.25	3/4	3,231.71	3/4	3,554.97

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092
 Pearland, Texas 77588
<http://www.pmacorp.net>



BARGE "EMS 394"

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	3,561.09	0	3,855.05	0	4,135.92	0	4,394.54	0		0		0		0		0		0	
1/4	3,567.22	1/4	3,861.10	1/4	4,141.53	1/4	4,399.66	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,573.35	1/2	3,867.16	1/2	4,147.14	1/2	4,404.79	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,579.48	3/4	3,873.22	3/4	4,152.75	3/4	4,409.91	3/4		3/4		3/4		3/4		3/4		3/4	
1	3,585.60	1	3,879.28	1	4,158.36	1	4,415.03	1		1		1		1		1		1	
1/4	3,591.73	1/4	3,885.30	1/4	4,163.93	1/4	4,420.12	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,597.86	1/2	3,891.32	1/2	4,169.50	1/2	4,425.21	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,603.98	3/4	3,897.34	3/4	4,175.07	3/4	4,430.29	3/4		3/4		3/4		3/4		3/4		3/4	
2	3,610.11	2	3,903.36	2	4,180.64	2	4,435.38	2		2		2		2		2		2	
1/4	3,616.24	1/4	3,909.34	1/4	4,186.18	1/4	4,440.43	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,622.37	1/2	3,915.32	1/2	4,191.71	1/2	4,445.48	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,628.49	3/4	3,921.30	3/4	4,197.24	3/4	4,450.53	3/4		3/4		3/4		3/4		3/4		3/4	
3	3,634.62	3	3,927.28	3	4,202.78	3	4,455.58	3		3		3		3		3		3	
1/4	3,640.75	1/4	3,933.23	1/4	4,208.27	1/4	4,460.59	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,646.87	1/2	3,939.17	1/2	4,213.77	1/2	4,465.60	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,653.00	3/4	3,945.12	3/4	4,219.27	3/4	4,470.61	3/4		3/4		3/4		3/4		3/4		3/4	
4	3,659.13	4	3,951.07	4	4,224.76	4	4,475.62	4		4		4		4		4		4	
1/4	3,665.26	1/4	3,956.97	1/4	4,230.22	1/4	4,481.16	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,671.38	1/2	3,962.88	1/2	4,235.68	1/2	4,486.70	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,677.51	3/4	3,968.79	3/4	4,241.14	3/4	4,492.25	3/4		3/4		3/4		3/4		3/4		3/4	
5	3,683.64	5	3,974.70	5	4,246.60	5	4,497.79	5		5		5		5		5		5	
1/4	3,689.77	1/4	3,980.57	1/4	4,252.02	1/4	4,503.88	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,695.89	1/2	3,986.44	1/2	4,257.44	1/2	4,509.97	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,702.02	3/4	3,992.31	3/4	4,262.86	3/4	4,516.06	3/4		3/4		3/4		3/4		3/4		3/4	
6	3,708.15	6	3,998.18	6	4,268.29	6	4,522.15	6		6		6		6		6		6	
1/4	3,714.27	1/4	4,004.01	1/4	4,273.67	1/4	4,528.24	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,720.40	1/2	4,009.84	1/2	4,279.05	1/2	4,534.33	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,726.53	3/4	4,015.68	3/4	4,284.44	3/4	4,540.43	3/4		3/4		3/4		3/4		3/4		3/4	
7	3,732.66	7	4,021.51	7	4,289.82	7	4,546.52	7		7		7		7		7		7	
1/4	3,738.78	1/4	4,027.30	1/4	4,295.13	1/4	4,553.91	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,744.91	1/2	4,033.10	1/2	4,300.44	1/2	4,561.30	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,751.04	3/4	4,038.89	3/4	4,305.75	3/4	4,568.70	3/4		3/4		3/4		3/4		3/4		3/4	
8	3,757.16	8	4,044.69	8	4,311.07	8	4,576.09	8		8		8		8		8		8	
1/4	3,763.29	1/4	4,050.45	1/4	4,316.34	1/4	4,582.80	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,769.42	1/2	4,056.21	1/2	4,321.61	1/2	4,589.51	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,775.55	3/4	4,061.96	3/4	4,326.89	3/4	4,596.22	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,781.67	9	4,067.72	9	4,332.16	9	4,602.93	9		9		9		9		9		9	
1/4	3,787.80	1/4	4,073.44	1/4	4,337.39	1/4	4,608.27	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,793.93	1/2	4,079.16	1/2	4,342.63	1/2	4,613.61	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,800.05	3/4	4,084.89	3/4	4,347.87	3/4	4,618.96	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,806.18	10	4,090.61	10	4,353.10	10		10		10		10		10		10		10	
1/4	3,812.30	1/4	4,096.29	1/4	4,358.30	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,818.43	1/2	4,101.97	1/2	4,363.50	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,824.55	3/4	4,107.66	3/4	4,368.70	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
11	3,830.67	11	4,113.34	11	4,373.90	11		11		11		11		11		11		11	
1/4	3,836.76	1/4	4,118.99	1/4	4,379.06	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,842.86	1/2	4,124.63	1/2	4,384.22	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,848.95	3/4	4,130.28	3/4	4,389.38	3/4		3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 02/15/2016 SW
CALCULATED: 02/15/2016 CL
PRINTED: 02/15/2016 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 02/2016

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



BARGE "EMS 394"

2 STBD INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 14'-10"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	18.82	0	395.65	0	782.55	0	1,169.74	0	1,556.98	0	1,944.22	0	2,331.46	0	2,718.70	0	3,105.94	0	3,493.17
1/4	24.58	1/4	403.71	1/4	790.60	1/4	1,177.81	1/4	1,565.05	1/4	1,952.29	1/4	2,339.53	1/4	2,726.77	1/4	3,114.01	1/4	3,501.24
1/2	30.34	1/2	411.78	1/2	798.66	1/2	1,185.88	1/2	1,573.12	1/2	1,960.36	1/2	2,347.60	1/2	2,734.84	1/2	3,122.08	1/2	3,509.31
3/4	36.10	3/4	419.85	3/4	806.72	3/4	1,193.95	3/4	1,581.19	3/4	1,968.43	3/4	2,355.67	3/4	2,742.91	3/4	3,130.15	3/4	3,517.37
1	41.86	1	427.91	1	814.77	1	1,202.01	1	1,589.25	1	1,976.49	1	2,363.73	1	2,750.97	1	3,138.21	1	3,525.44
1/4	49.64	1/4	435.98	1/4	822.84	1/4	1,210.08	1/4	1,597.32	1/4	1,984.56	1/4	2,371.80	1/4	2,759.04	1/4	3,146.28	1/4	3,533.51
1/2	57.42	1/2	444.05	1/2	830.91	1/2	1,218.15	1/2	1,605.39	1/2	1,992.63	1/2	2,379.87	1/2	2,767.11	1/2	3,154.35	1/2	3,541.57
3/4	65.20	3/4	452.11	3/4	838.98	3/4	1,226.22	3/4	1,613.46	3/4	2,000.70	3/4	2,387.94	3/4	2,775.18	3/4	3,162.42	3/4	3,549.64
2	72.98	2	460.18	2	847.04	2	1,234.28	2	1,621.52	2	2,008.76	2	2,396.00	2	2,783.24	2	3,170.48	2	3,557.70
1/4	81.04	1/4	468.25	1/4	855.11	1/4	1,242.35	1/4	1,629.59	1/4	2,016.83	1/4	2,404.07	1/4	2,791.31	1/4	3,178.55	1/4	3,565.77
1/2	89.11	1/2	476.32	1/2	863.18	1/2	1,250.42	1/2	1,637.66	1/2	2,024.90	1/2	2,412.14	1/2	2,799.38	1/2	3,186.62	1/2	3,573.84
3/4	97.18	3/4	484.38	3/4	871.25	3/4	1,258.49	3/4	1,645.73	3/4	2,032.97	3/4	2,420.21	3/4	2,807.45	3/4	3,194.69	3/4	3,581.90
3	105.24	3	492.45	3	879.31	3	1,266.55	3	1,653.79	3	2,041.03	3	2,428.27	3	2,815.51	3	3,202.75	3	3,589.97
1/4	113.31	1/4	500.52	1/4	887.38	1/4	1,274.62	1/4	1,661.86	1/4	2,049.10	1/4	2,436.34	1/4	2,823.58	1/4	3,210.82	1/4	3,598.03
1/2	121.38	1/2	508.58	1/2	895.45	1/2	1,282.69	1/2	1,669.93	1/2	2,057.17	1/2	2,444.41	1/2	2,831.65	1/2	3,218.89	1/2	3,606.10
3/4	129.44	3/4	516.65	3/4	903.52	3/4	1,290.76	3/4	1,678.00	3/4	2,065.24	3/4	2,452.48	3/4	2,839.72	3/4	3,226.96	3/4	3,614.17
4	137.51	4	524.72	4	911.58	4	1,298.82	4	1,686.06	4	2,073.30	4	2,460.54	4	2,847.78	4	3,235.02	4	3,622.23
1/4	145.58	1/4	532.78	1/4	919.65	1/4	1,306.89	1/4	1,694.13	1/4	2,081.37	1/4	2,468.61	1/4	2,855.85	1/4	3,243.09	1/4	3,630.30
1/2	153.64	1/2	540.85	1/2	927.72	1/2	1,314.96	1/2	1,702.20	1/2	2,089.44	1/2	2,476.68	1/2	2,863.92	1/2	3,251.16	1/2	3,638.37
3/4	161.71	3/4	548.92	3/4	935.79	3/4	1,323.03	3/4	1,710.27	3/4	2,097.51	3/4	2,484.75	3/4	2,871.99	3/4	3,259.23	3/4	3,646.43
5	169.78	5	556.98	5	943.85	5	1,331.09	5	1,718.33	5	2,105.57	5	2,492.81	5	2,880.05	5	3,267.29	5	3,654.50
1/4	177.84	1/4	565.04	1/4	951.92	1/4	1,339.16	1/4	1,726.40	1/4	2,113.64	1/4	2,500.88	1/4	2,888.12	1/4	3,275.36	1/4	3,662.56
1/2	185.91	1/2	573.10	1/2	959.99	1/2	1,347.23	1/2	1,734.47	1/2	2,121.71	1/2	2,508.95	1/2	2,896.19	1/2	3,283.43	1/2	3,670.63
3/4	193.98	3/4	581.15	3/4	968.06	3/4	1,355.30	3/4	1,742.54	3/4	2,129.78	3/4	2,517.02	3/4	2,904.26	3/4	3,291.50	3/4	3,678.70
6	202.04	6	589.21	6	976.12	6	1,363.36	6	1,750.60	6	2,137.84	6	2,525.08	6	2,912.32	6	3,299.56	6	3,686.76
1/4	210.11	1/4	597.27	1/4	984.19	1/4	1,371.43	1/4	1,758.67	1/4	2,145.91	1/4	2,533.15	1/4	2,920.39	1/4	3,307.63	1/4	3,694.83
1/2	218.18	1/2	605.33	1/2	992.26	1/2	1,379.50	1/2	1,766.74	1/2	2,153.98	1/2	2,541.22	1/2	2,928.46	1/2	3,315.70	1/2	3,702.90
3/4	226.24	3/4	613.38	3/4	1,000.33	3/4	1,387.57	3/4	1,774.81	3/4	2,162.05	3/4	2,549.29	3/4	2,936.53	3/4	3,323.77	3/4	3,710.96
7	234.31	7	621.44	7	1,008.39	7	1,395.63	7	1,782.87	7	2,170.11	7	2,557.35	7	2,944.59	7	3,331.83	7	3,719.03
1/4	242.38	1/4	629.50	1/4	1,016.46	1/4	1,403.70	1/4	1,790.94	1/4	2,178.18	1/4	2,565.42	1/4	2,952.66	1/4	3,339.90	1/4	3,727.09
1/2	250.44	1/2	637.56	1/2	1,024.53	1/2	1,411.77	1/2	1,799.01	1/2	2,186.25	1/2	2,573.49	1/2	2,960.73	1/2	3,347.97	1/2	3,735.16
3/4	258.51	3/4	645.61	3/4	1,032.60	3/4	1,419.84	3/4	1,807.08	3/4	2,194.32	3/4	2,581.56	3/4	2,968.80	3/4	3,356.04	3/4	3,743.23
8	266.58	8	653.67	8	1,040.66	8	1,427.90	8	1,815.14	8	2,202.38	8	2,589.62	8	2,976.86	8	3,364.10	8	3,751.29
1/4	274.65	1/4	661.72	1/4	1,048.73	1/4	1,435.97	1/4	1,823.21	1/4	2,210.45	1/4	2,597.69	1/4	2,984.93	1/4	3,372.17	1/4	3,759.36
1/2	282.71	1/2	669.77	1/2	1,056.80	1/2	1,444.04	1/2	1,831.28	1/2	2,218.52	1/2	2,605.76	1/2	2,993.00	1/2	3,380.24	1/2	3,767.42
3/4	290.78	3/4	677.83	3/4	1,064.87	3/4	1,452.11	3/4	1,839.35	3/4	2,226.59	3/4	2,613.83	3/4	3,001.07	3/4	3,388.31	3/4	3,775.49
9	298.85	9	685.88	9	1,072.93	9	1,460.17	9	1,847.41	9	2,234.65	9	2,621.89	9	3,009.13	9	3,396.37	9	3,783.56
1/4	306.91	1/4	693.93	1/4	1,081.00	1/4	1,468.24	1/4	1,855.48	1/4	2,242.72	1/4	2,629.96	1/4	3,017.20	1/4	3,404.44	1/4	3,791.62
1/2	314.98	1/2	701.99	1/2	1,089.07	1/2	1,476.31	1/2	1,863.55	1/2	2,250.79	1/2	2,638.03	1/2	3,025.27	1/2	3,412.51	1/2	3,799.69
3/4	323.05	3/4	710.04	3/4	1,097.14	3/4	1,484.38	3/4	1,871.62	3/4	2,258.86	3/4	2,646.10	3/4	3,033.34	3/4	3,420.58	3/4	3,807.76
10	331.11	10	718.09	10	1,105.20	10	1,492.44	10	1,879.68	10	2,266.92	10	2,654.16	10	3,041.40	10	3,428.64	10	3,815.82
1/4	339.18	1/4	726.15	1/4	1,113.27	1/4	1,500.51	1/4	1,887.75	1/4	2,274.99	1/4	2,662.23	1/4	3,049.47	1/4	3,436.71	1/4	3,823.89
1/2	347.25	1/2	734.20	1/2	1,121.34	1/2	1,508.58	1/2	1,895.82	1/2	2,283.06	1/2	2,670.30	1/2	3,057.54	1/2	3,444.78	1/2	3,831.95
3/4	355.31	3/4	742.26	3/4	1,129.41	3/4	1,516.65	3/4	1,903.89	3/4	2,291.13	3/4	2,678.37	3/4	3,065.61	3/4	3,452.84	3/4	3,840.02
11	363.38	11	750.32	11	1,137.47	11	1,524.71	11	1,911.95	11	2,299.19	11	2,686.43	11	3,073.67	11	3,460.91	11	3,848.09
1/4	371.45	1/4	758.38	1/4	1,145.54	1/4	1,532.78	1/4	1,920.02	1/4	2,307.26	1/4	2,694.50	1/4	3,081.74	1/4	3,468.98	1/4	3,856.15
1/2	379.51	1/2	766.43	1/2	1,153.61	1/2	1,540.85	1/2	1,928.09	1/2	2,315.33	1/2	2,702.57	1/2	3,089.81	1/2	3,477.04	1/2	3,864.22
3/4	387.58	3/4	774.49	3/4	1,161.68	3/4	1,548.92	3/4	1,936.16	3/4	2,323.40	3/4	2,710.64	3/4	3,097.88	3/4	3,485.11	3/4	3,872.29

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK
 CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN TO TOP OF 2" DIAMETER "HERMETIC" VALVE
 GAUGE POINT: (HERMETIC) LOCATED 12'-06" OFF CENTERLINE AND 51'-03" FORWARD OF AFT BULKHEAD

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



BARGE "EMS 394"

2 STBD 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	3,880.35	0	4,267.36	0	4,640.34	0	4,989.25	0		0		0		0		0		0	
1/4	3,888.42	1/4	4,275.35	1/4	4,647.85	1/4	4,996.23	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,896.48	1/2	4,283.34	1/2	4,655.35	1/2	5,003.21	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,904.55	3/4	4,291.33	3/4	4,662.86	3/4	5,010.19	3/4		3/4		3/4		3/4		3/4		3/4	
1	3,912.62	1	4,299.32	1	4,670.37	1	5,017.17	1		1		1		1		1		1	
1/4	3,920.68	1/4	4,307.27	1/4	4,677.84	1/4	5,024.11	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,928.75	1/2	4,315.23	1/2	4,685.31	1/2	5,031.06	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,936.82	3/4	4,323.18	3/4	4,692.78	3/4	5,038.00	3/4		3/4		3/4		3/4		3/4		3/4	
2	3,944.88	2	4,331.13	2	4,700.25	2	5,044.94	2		2		2		2		2		2	
1/4	3,952.95	1/4	4,339.04	1/4	4,707.68	1/4	5,051.84	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,961.01	1/2	4,346.95	1/2	4,715.11	1/2	5,058.74	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,969.08	3/4	4,354.86	3/4	4,722.54	3/4	5,065.64	3/4		3/4		3/4		3/4		3/4		3/4	
3	3,977.15	3	4,362.77	3	4,729.97	3	5,072.54	3		3		3		3		3		3	
1/4	3,985.21	1/4	4,370.64	1/4	4,737.36	1/4	5,079.40	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,993.28	1/2	4,378.51	1/2	4,744.75	1/2	5,086.26	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,001.34	3/4	4,386.38	3/4	4,752.13	3/4	5,093.12	3/4		3/4		3/4		3/4		3/4		3/4	
4	4,009.41	4	4,394.25	4	4,759.52	4	5,099.98	4		4		4		4		4		4	
1/4	4,017.48	1/4	4,402.08	1/4	4,766.87	1/4	5,107.41	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,025.54	1/2	4,409.91	1/2	4,774.22	1/2	5,114.84	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,033.61	3/4	4,417.75	3/4	4,781.57	3/4	5,122.27	3/4		3/4		3/4		3/4		3/4		3/4	
5	4,041.68	5	4,425.58	5	4,788.92	5	5,129.70	5		5		5		5		5		5	
1/4	4,049.74	1/4	4,433.37	1/4	4,796.23	1/4	5,137.72	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,057.81	1/2	4,441.16	1/2	4,803.54	1/2	5,145.74	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,065.87	3/4	4,448.95	3/4	4,810.85	3/4	5,153.76	3/4		3/4		3/4		3/4		3/4		3/4	
6	4,073.94	6	4,456.74	6	4,818.15	6	5,161.77	6		6		6		6		6		6	
1/4	4,082.01	1/4	4,464.49	1/4	4,825.42	1/4	5,169.79	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,090.07	1/2	4,472.24	1/2	4,832.69	1/2	5,177.81	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,098.14	3/4	4,479.99	3/4	4,839.96	3/4	5,185.83	3/4		3/4		3/4		3/4		3/4		3/4	
7	4,106.21	7	4,487.74	7	4,847.23	7	5,193.85	7		7		7		7		7		7	
1/4	4,114.27	1/4	4,495.45	1/4	4,854.41	1/4	5,201.79	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,122.34	1/2	4,503.16	1/2	4,861.59	1/2	5,209.72	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,130.40	3/4	4,510.87	3/4	4,868.77	3/4	5,217.65	3/4		3/4		3/4		3/4		3/4		3/4	
8	4,138.47	8	4,518.58	8	4,875.95	8	5,225.59	8		8		8		8		8		8	
1/4	4,146.54	1/4	4,526.25	1/4	4,883.10	1/4	5,232.79	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,154.60	1/2	4,533.92	1/2	4,890.24	1/2	5,239.99	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,162.67	3/4	4,541.59	3/4	4,897.38	3/4	5,247.19	3/4		3/4		3/4		3/4		3/4		3/4	
9	4,170.73	9	4,549.26	9	4,904.52	9	5,254.39	9		9		9		9		9		9	
1/4	4,178.80	1/4	4,556.89	1/4	4,911.62	1/4	5,260.13	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,186.87	1/2	4,564.52	1/2	4,918.72	1/2	5,265.86	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,194.93	3/4	4,572.15	3/4	4,925.82	3/4	5,271.59	3/4		3/4		3/4		3/4		3/4		3/4	
10	4,203.00	10	4,579.78	10	4,932.92	10		10		10		10		10		10		10	
1/4	4,211.06	1/4	4,587.37	1/4	4,939.99	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,219.12	1/2	4,594.96	1/2	4,947.05	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,227.18	3/4	4,602.55	3/4	4,954.11	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
11	4,235.23	11	4,610.14	11	4,961.17	11		11		11		11		11		11		11	
1/4	4,243.27	1/4	4,617.69	1/4	4,968.19	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,251.30	1/2	4,625.24	1/2	4,975.21	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,259.33	3/4	4,632.79	3/4	4,982.23	3/4		3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 02/15/2016 SW
CALCULATED: 02/15/2016 CL
PRINTED: 02/15/2016 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 02/2016

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



BARGE "EMS 394"

2 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 14'-10"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	18.85	0	396.31	0	773.90	0	1,156.81	0	1,544.70	0	1,932.58	0	2,320.47	0	2,708.36	0	3,096.25	0	3,484.12
1/4	24.62	1/4	404.39	1/4	781.66	1/4	1,164.89	1/4	1,552.78	1/4	1,940.66	1/4	2,328.55	1/4	2,716.44	1/4	3,104.33	1/4	3,492.20
1/2	30.39	1/2	412.47	1/2	789.41	1/2	1,172.97	1/2	1,560.86	1/2	1,948.75	1/2	2,336.63	1/2	2,724.52	1/2	3,112.41	1/2	3,500.28
3/4	36.16	3/4	420.55	3/4	797.17	3/4	1,181.05	3/4	1,568.94	3/4	1,956.83	3/4	2,344.71	3/4	2,732.60	3/4	3,120.49	3/4	3,508.36
1	41.93	1	428.63	1	804.93	1	1,189.13	1	1,577.02	1	1,964.91	1	2,352.80	1	2,740.68	1	3,128.57	1	3,516.44
1/4	49.72	1/4	436.71	1/4	812.70	1/4	1,197.21	1/4	1,585.10	1/4	1,972.99	1/4	2,360.88	1/4	2,748.76	1/4	3,136.65	1/4	3,524.52
1/2	57.51	1/2	444.79	1/2	820.47	1/2	1,205.29	1/2	1,593.18	1/2	1,981.07	1/2	2,368.96	1/2	2,756.85	1/2	3,144.73	1/2	3,532.60
3/4	65.31	3/4	452.87	3/4	828.24	3/4	1,213.37	3/4	1,601.26	3/4	1,989.15	3/4	2,377.04	3/4	2,764.93	3/4	3,152.81	3/4	3,540.68
2	73.10	2	460.95	2	836.01	2	1,221.46	2	1,609.34	2	1,997.23	2	2,385.12	2	2,773.01	2	3,160.90	2	3,548.76
1/4	81.18	1/4	469.03	1/4	843.79	1/4	1,229.54	1/4	1,617.42	1/4	2,005.31	1/4	2,393.20	1/4	2,781.09	1/4	3,168.98	1/4	3,556.84
1/2	89.26	1/2	477.11	1/2	851.56	1/2	1,237.62	1/2	1,625.51	1/2	2,013.39	1/2	2,401.28	1/2	2,789.17	1/2	3,177.06	1/2	3,564.92
3/4	97.34	3/4	485.19	3/4	859.34	3/4	1,245.70	3/4	1,633.59	3/4	2,021.47	3/4	2,409.36	3/4	2,797.25	3/4	3,185.14	3/4	3,573.00
3	105.42	3	493.27	3	867.11	3	1,253.78	3	1,641.67	3	2,029.56	3	2,417.44	3	2,805.33	3	3,193.22	3	3,581.08
1/4	113.50	1/4	501.35	1/4	874.89	1/4	1,261.86	1/4	1,649.75	1/4	2,037.64	1/4	2,425.52	1/4	2,813.41	1/4	3,201.30	1/4	3,589.16
1/2	121.58	1/2	509.43	1/2	882.67	1/2	1,269.94	1/2	1,657.83	1/2	2,045.72	1/2	2,433.61	1/2	2,821.49	1/2	3,209.38	1/2	3,597.24
3/4	129.66	3/4	517.51	3/4	890.44	3/4	1,278.02	3/4	1,665.91	3/4	2,053.80	3/4	2,441.69	3/4	2,829.57	3/4	3,217.46	3/4	3,605.32
4	137.74	4	525.59	4	898.22	4	1,286.10	4	1,673.99	4	2,061.88	4	2,449.77	4	2,837.66	4	3,225.54	4	3,613.40
1/4	145.82	1/4	533.36	1/4	906.30	1/4	1,294.18	1/4	1,682.07	1/4	2,069.96	1/4	2,457.85	1/4	2,845.74	1/4	3,233.62	1/4	3,621.48
1/2	153.90	1/2	541.13	1/2	914.38	1/2	1,302.27	1/2	1,690.15	1/2	2,078.04	1/2	2,465.93	1/2	2,853.82	1/2	3,241.71	1/2	3,629.56
3/4	161.98	3/4	548.90	3/4	922.46	3/4	1,310.35	3/4	1,698.23	3/4	2,086.12	3/4	2,474.01	3/4	2,861.90	3/4	3,249.79	3/4	3,637.64
5	170.06	5	556.67	5	930.54	5	1,318.43	5	1,706.32	5	2,094.20	5	2,482.09	5	2,869.98	5	3,257.87	5	3,645.72
1/4	178.14	1/4	564.43	1/4	938.62	1/4	1,326.51	1/4	1,714.40	1/4	2,102.28	1/4	2,490.17	1/4	2,878.06	1/4	3,265.95	1/4	3,653.80
1/2	186.22	1/2	572.19	1/2	946.70	1/2	1,334.59	1/2	1,722.48	1/2	2,110.37	1/2	2,498.25	1/2	2,886.14	1/2	3,274.03	1/2	3,661.88
3/4	194.30	3/4	579.95	3/4	954.78	3/4	1,342.67	3/4	1,730.56	3/4	2,118.45	3/4	2,506.33	3/4	2,894.22	3/4	3,282.11	3/4	3,669.96
6	202.38	6	587.71	6	962.86	6	1,350.75	6	1,738.64	6	2,126.53	6	2,514.42	6	2,902.30	6	3,290.19	6	3,678.04
1/4	210.46	1/4	595.47	1/4	970.94	1/4	1,358.83	1/4	1,746.72	1/4	2,134.61	1/4	2,522.50	1/4	2,910.38	1/4	3,298.27	1/4	3,686.11
1/2	218.54	1/2	603.23	1/2	979.03	1/2	1,366.91	1/2	1,754.80	1/2	2,142.69	1/2	2,530.58	1/2	2,918.47	1/2	3,306.35	1/2	3,694.19
3/4	226.62	3/4	610.98	3/4	987.11	3/4	1,374.99	3/4	1,762.88	3/4	2,150.77	3/4	2,538.66	3/4	2,926.55	3/4	3,314.43	3/4	3,702.27
7	234.70	7	618.74	7	995.19	7	1,383.08	7	1,770.96	7	2,158.85	7	2,546.74	7	2,934.63	7	3,322.52	7	3,710.35
1/4	242.78	1/4	626.50	1/4	1,003.27	1/4	1,391.16	1/4	1,779.04	1/4	2,166.93	1/4	2,554.82	1/4	2,942.71	1/4	3,330.60	1/4	3,718.43
1/2	250.86	1/2	634.26	1/2	1,011.35	1/2	1,399.24	1/2	1,787.13	1/2	2,175.01	1/2	2,562.90	1/2	2,950.79	1/2	3,338.68	1/2	3,726.51
3/4	258.94	3/4	642.02	3/4	1,019.43	3/4	1,407.32	3/4	1,795.21	3/4	2,183.09	3/4	2,570.98	3/4	2,958.87	3/4	3,346.76	3/4	3,734.59
8	267.02	8	649.78	8	1,027.51	8	1,415.40	8	1,803.29	8	2,191.18	8	2,579.06	8	2,966.95	8	3,354.84	8	3,742.67
1/4	275.11	1/4	657.54	1/4	1,035.59	1/4	1,423.48	1/4	1,811.37	1/4	2,199.26	1/4	2,587.14	1/4	2,975.03	1/4	3,362.92	1/4	3,750.75
1/2	283.19	1/2	665.29	1/2	1,043.67	1/2	1,431.56	1/2	1,819.45	1/2	2,207.34	1/2	2,595.23	1/2	2,983.11	1/2	3,371.00	1/2	3,758.83
3/4	291.27	3/4	673.05	3/4	1,051.75	3/4	1,439.64	3/4	1,827.53	3/4	2,215.42	3/4	2,603.31	3/4	2,991.19	3/4	3,379.08	3/4	3,766.91
9	299.35	9	680.80	9	1,059.84	9	1,447.72	9	1,835.61	9	2,223.50	9	2,611.39	9	2,999.28	9	3,387.16	9	3,774.99
1/4	307.43	1/4	688.56	1/4	1,067.92	1/4	1,455.80	1/4	1,843.69	1/4	2,231.58	1/4	2,619.47	1/4	3,007.36	1/4	3,395.24	1/4	3,783.07
1/2	315.51	1/2	696.31	1/2	1,076.00	1/2	1,463.89	1/2	1,851.77	1/2	2,239.66	1/2	2,627.55	1/2	3,015.44	1/2	3,403.33	1/2	3,791.15
3/4	323.59	3/4	704.07	3/4	1,084.08	3/4	1,471.97	3/4	1,859.85	3/4	2,247.74	3/4	2,635.63	3/4	3,023.52	3/4	3,411.41	3/4	3,799.23
10	331.67	10	711.82	10	1,092.16	10	1,480.05	10	1,867.94	10	2,255.82	10	2,643.71	10	3,031.60	10	3,419.49	10	3,807.31
1/4	339.75	1/4	719.58	1/4	1,100.24	1/4	1,488.13	1/4	1,876.02	1/4	2,263.90	1/4	2,651.79	1/4	3,039.68	1/4	3,427.57	1/4	3,815.39
1/2	347.83	1/2	727.34	1/2	1,108.32	1/2	1,496.21	1/2	1,884.10	1/2	2,271.99	1/2	2,659.87	1/2	3,047.76	1/2	3,435.65	1/2	3,823.47
3/4	355.91	3/4	735.10	3/4	1,116.40	3/4	1,504.29	3/4	1,892.18	3/4	2,280.07	3/4	2,667.95	3/4	3,055.84	3/4	3,443.73	3/4	3,831.55
11	363.99	11	742.86	11	1,124.48	11	1,512.37	11	1,900.26	11	2,288.15	11	2,676.04	11	3,063.92	11	3,451.81	11	3,839.63
1/4	372.07	1/4	750.62	1/4	1,132.56	1/4	1,520.45	1/4	1,908.34	1/4	2,296.23	1/4	2,684.12	1/4	3,072.00	1/4	3,459.89	1/4	3,847.71
1/2	380.15	1/2	758.38	1/2	1,140.65	1/2	1,528.53	1/2	1,916.42	1/2	2,304.31	1/2	2,692.20	1/2	3,080.09	1/2	3,467.97	1/2	3,855.79
3/4	388.23	3/4	766.14	3/4	1,148.73	3/4	1,536.61	3/4	1,924.50	3/4	2,312.39	3/4	2,700.28	3/4	3,088.17	3/4	3,476.05	3/4	3,863.87

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK
 CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN TO TOP OF 2" DIAMETER "HERMETIC" VALVE
 GAUGE POINT: (HERMETIC) LOCATED 12'-06" OFF CENTERLINE AND 51'-03" FORWARD OF AFT BULKHEAD

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



BARGE "EMS 394"

2 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 14'-10"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	3,871.95	0	4,259.59	0	4,633.19	0	4,982.69	0		0		0		0		0		0	
1/4	3,880.03	1/4	4,267.60	1/4	4,640.72	1/4	4,989.68	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,888.10	1/2	4,275.60	1/2	4,648.24	1/2	4,996.68	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,896.18	3/4	4,283.61	3/4	4,655.76	3/4	5,003.67	3/4		3/4		3/4		3/4		3/4		3/4	
1	3,904.26	1	4,291.61	1	4,663.28	1	5,010.66	1		1		1		1		1		1	
1/4	3,912.34	1/4	4,299.58	1/4	4,670.76	1/4	5,017.61	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,920.42	1/2	4,307.54	1/2	4,678.25	1/2	5,024.57	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,928.50	3/4	4,315.50	3/4	4,685.73	3/4	5,031.52	3/4		3/4		3/4		3/4		3/4		3/4	
2	3,936.58	2	4,323.47	2	4,693.21	2	5,038.47	2		2		2		2		2		2	
1/4	3,944.66	1/4	4,331.39	1/4	4,700.65	1/4	5,045.38	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,952.74	1/2	4,339.32	1/2	4,708.09	1/2	5,052.29	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,960.82	3/4	4,347.24	3/4	4,715.53	3/4	5,059.21	3/4		3/4		3/4		3/4		3/4		3/4	
3	3,968.90	3	4,355.17	3	4,722.98	3	5,066.12	3		3		3		3		3		3	
1/4	3,976.98	1/4	4,363.05	1/4	4,730.38	1/4	5,072.99	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,985.06	1/2	4,370.93	1/2	4,737.78	1/2	5,079.86	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,993.14	3/4	4,378.82	3/4	4,745.18	3/4	5,086.73	3/4		3/4		3/4		3/4		3/4		3/4	
4	4,001.22	4	4,386.70	4	4,752.58	4	5,093.60	4		4		4		4		4		4	
1/4	4,009.30	1/4	4,394.54	1/4	4,759.94	1/4	5,101.05	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,017.38	1/2	4,402.39	1/2	4,767.30	1/2	5,108.49	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,025.46	3/4	4,410.23	3/4	4,774.66	3/4	5,115.93	3/4		3/4		3/4		3/4		3/4		3/4	
5	4,033.54	5	4,418.07	5	4,782.03	5	5,123.37	5		5		5		5		5		5	
1/4	4,041.62	1/4	4,425.88	1/4	4,789.35	1/4	5,131.41	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,049.70	1/2	4,433.68	1/2	4,796.67	1/2	5,139.44	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,057.78	3/4	4,441.49	3/4	4,803.99	3/4	5,147.47	3/4		3/4		3/4		3/4		3/4		3/4	
6	4,065.86	6	4,449.29	6	4,811.31	6	5,155.50	6		6		6		6		6		6	
1/4	4,073.94	1/4	4,457.05	1/4	4,818.59	1/4	5,163.54	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,082.02	1/2	4,464.82	1/2	4,825.87	1/2	5,171.57	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,090.09	3/4	4,472.58	3/4	4,833.15	3/4	5,179.60	3/4		3/4		3/4		3/4		3/4		3/4	
7	4,098.17	7	4,480.34	7	4,840.43	7	5,187.63	7		7		7		7		7		7	
1/4	4,106.25	1/4	4,488.06	1/4	4,847.63	1/4	5,195.58	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,114.33	1/2	4,495.79	1/2	4,854.82	1/2	5,203.53	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,122.41	3/4	4,503.51	3/4	4,862.01	3/4	5,211.48	3/4		3/4		3/4		3/4		3/4		3/4	
8	4,130.49	8	4,511.23	8	4,869.21	8	5,219.42	8		8		8		8		8		8	
1/4	4,138.57	1/4	4,518.92	1/4	4,876.36	1/4	5,226.64	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,146.65	1/2	4,526.60	1/2	4,883.51	1/2	5,233.85	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,154.73	3/4	4,534.28	3/4	4,890.67	3/4	5,241.06	3/4		3/4		3/4		3/4		3/4		3/4	
9	4,162.81	9	4,541.96	9	4,897.82	9	5,248.28	9		9		9		9		9		9	
1/4	4,170.89	1/4	4,549.61	1/4	4,904.93	1/4	5,254.02	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,178.97	1/2	4,557.25	1/2	4,912.04	1/2	5,259.76	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,187.05	3/4	4,564.89	3/4	4,919.16	3/4	5,265.51	3/4		3/4		3/4		3/4		3/4		3/4	
10	4,195.13	10	4,572.54	10	4,926.27	10		10		10		10		10		10		10	
1/4	4,203.20	1/4	4,580.14	1/4	4,933.34	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,211.27	1/2	4,587.74	1/2	4,940.42	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,219.34	3/4	4,595.34	3/4	4,947.49	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
11	4,227.42	11	4,602.94	11	4,954.56	11		11		11		11		11		11		11	
1/4	4,235.46	1/4	4,610.51	1/4	4,961.59	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,243.51	1/2	4,618.07	1/2	4,968.63	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,251.55	3/4	4,625.63	3/4	4,975.66	3/4		3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 02/15/2016 SW
CALCULATED: 02/15/2016 CL
PRINTED: 02/15/2016 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 02/2016

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



BARGE "EMS 394"

1 STBD INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 14'-10"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	16.16	0	267.54	0	551.38	0	858.53	0	1,186.47	0	1,517.52	0	1,848.57	0	2,179.62	0	2,510.67	0	2,841.72
1/4	19.39	1/4	273.22	1/4	557.56	1/4	865.19	1/4	1,193.37	1/4	1,524.42	1/4	1,855.47	1/4	2,186.52	1/4	2,517.57	1/4	2,848.61
1/2	22.61	1/2	278.91	1/2	563.74	1/2	871.84	1/2	1,200.26	1/2	1,531.32	1/2	1,862.37	1/2	2,193.42	1/2	2,524.47	1/2	2,855.51
3/4	25.84	3/4	284.60	3/4	569.92	3/4	878.50	3/4	1,207.16	3/4	1,538.21	3/4	1,869.26	3/4	2,200.31	3/4	2,531.37	3/4	2,862.41
1	29.06	1	290.29	1	576.10	1	885.16	1	1,214.06	1	1,545.11	1	1,876.16	1	2,207.21	1	2,538.26	1	2,869.30
1/4	34.05	1/4	296.02	1/4	582.32	1/4	891.86	1/4	1,220.95	1/4	1,552.01	1/4	1,883.06	1/4	2,214.11	1/4	2,545.16	1/4	2,876.20
1/2	39.04	1/2	301.75	1/2	588.54	1/2	898.56	1/2	1,227.85	1/2	1,558.90	1/2	1,889.95	1/2	2,221.01	1/2	2,552.06	1/2	2,883.09
3/4	44.03	3/4	307.48	3/4	594.76	3/4	905.26	3/4	1,234.75	3/4	1,565.80	3/4	1,896.85	3/4	2,227.90	3/4	2,558.95	3/4	2,889.99
2	49.03	2	313.20	2	600.98	2	911.96	2	1,241.65	2	1,572.70	2	1,903.75	2	2,234.80	2	2,565.85	2	2,896.89
1/4	54.30	1/4	318.98	1/4	607.24	1/4	918.70	1/4	1,248.54	1/4	1,579.59	1/4	1,910.64	1/4	2,241.70	1/4	2,572.75	1/4	2,903.78
1/2	59.58	1/2	324.75	1/2	613.51	1/2	925.44	1/2	1,255.44	1/2	1,586.49	1/2	1,917.54	1/2	2,248.59	1/2	2,579.64	1/2	2,910.68
3/4	64.86	3/4	330.52	3/4	619.77	3/4	932.18	3/4	1,262.34	3/4	1,593.39	3/4	1,924.44	3/4	2,255.49	3/4	2,586.54	3/4	2,917.57
3	70.14	3	336.29	3	626.03	3	938.92	3	1,269.23	3	1,600.28	3	1,931.34	3	2,262.39	3	2,593.44	3	2,924.47
1/4	75.46	1/4	342.10	1/4	632.33	1/4	945.71	1/4	1,276.13	1/4	1,607.18	1/4	1,938.23	1/4	2,269.28	1/4	2,600.33	1/4	2,931.37
1/2	80.78	1/2	347.91	1/2	638.63	1/2	952.51	1/2	1,283.03	1/2	1,614.08	1/2	1,945.13	1/2	2,276.18	1/2	2,607.23	1/2	2,938.26
3/4	86.10	3/4	353.72	3/4	644.94	3/4	959.30	3/4	1,289.92	3/4	1,620.97	3/4	1,952.03	3/4	2,283.08	3/4	2,614.13	3/4	2,945.16
4	91.42	4	359.53	4	651.24	4	966.10	4	1,296.82	4	1,627.87	4	1,958.92	4	2,289.97	4	2,621.03	4	2,952.05
1/4	96.78	1/4	365.38	1/4	657.58	1/4	972.93	1/4	1,303.72	1/4	1,634.77	1/4	1,965.82	1/4	2,296.87	1/4	2,627.92	1/4	2,958.95
1/2	102.14	1/2	371.23	1/2	663.93	1/2	979.77	1/2	1,310.61	1/2	1,641.67	1/2	1,972.72	1/2	2,303.77	1/2	2,634.82	1/2	2,965.85
3/4	107.50	3/4	377.09	3/4	670.27	3/4	986.60	3/4	1,317.51	3/4	1,648.56	3/4	1,979.61	3/4	2,310.66	3/4	2,641.72	3/4	2,972.74
5	112.86	5	382.94	5	676.61	5	993.44	5	1,324.41	5	1,655.46	5	1,986.51	5	2,317.56	5	2,648.61	5	2,979.64
1/4	118.26	1/4	388.83	1/4	683.00	1/4	1,000.32	1/4	1,331.31	1/4	1,662.36	1/4	1,993.41	1/4	2,324.46	1/4	2,655.51	1/4	2,986.53
1/2	123.66	1/2	394.72	1/2	689.38	1/2	1,007.19	1/2	1,338.20	1/2	1,669.25	1/2	2,000.30	1/2	2,331.36	1/2	2,662.41	1/2	2,993.43
3/4	129.06	3/4	400.62	3/4	695.77	3/4	1,014.07	3/4	1,345.10	3/4	1,676.15	3/4	2,007.20	3/4	2,338.25	3/4	2,669.30	3/4	3,000.33
6	134.46	6	406.51	6	702.15	6	1,020.94	6	1,352.00	6	1,683.05	6	2,014.10	6	2,345.15	6	2,676.20	6	3,007.22
1/4	139.91	1/4	412.44	1/4	708.58	1/4	1,027.84	1/4	1,358.89	1/4	1,689.94	1/4	2,020.99	1/4	2,352.05	1/4	2,683.10	1/4	3,014.12
1/2	145.35	1/2	418.38	1/2	715.00	1/2	1,034.74	1/2	1,365.79	1/2	1,696.84	1/2	2,027.89	1/2	2,358.94	1/2	2,689.99	1/2	3,021.01
3/4	150.79	3/4	424.31	3/4	721.43	3/4	1,041.64	3/4	1,372.69	3/4	1,703.74	3/4	2,034.79	3/4	2,365.84	3/4	2,696.89	3/4	3,027.91
7	156.23	7	430.24	7	727.85	7	1,048.53	7	1,379.58	7	1,710.63	7	2,041.69	7	2,372.74	7	2,703.79	7	3,034.81
1/4	161.72	1/4	436.22	1/4	734.31	1/4	1,055.43	1/4	1,386.48	1/4	1,717.53	1/4	2,048.58	1/4	2,379.63	1/4	2,710.69	1/4	3,041.70
1/2	167.20	1/2	442.19	1/2	740.76	1/2	1,062.33	1/2	1,393.38	1/2	1,724.43	1/2	2,055.48	1/2	2,386.53	1/2	2,717.58	1/2	3,048.60
3/4	172.68	3/4	448.17	3/4	747.22	3/4	1,069.22	3/4	1,400.27	3/4	1,731.33	3/4	2,062.38	3/4	2,393.43	3/4	2,724.48	3/4	3,055.49
8	178.17	8	454.14	8	753.67	8	1,076.12	8	1,407.17	8	1,738.22	8	2,069.27	8	2,400.32	8	2,731.38	8	3,062.39
1/4	183.69	1/4	460.16	1/4	760.16	1/4	1,083.02	1/4	1,414.07	1/4	1,745.12	1/4	2,076.17	1/4	2,407.22	1/4	2,738.27	1/4	3,069.29
1/2	189.21	1/2	466.18	1/2	766.66	1/2	1,089.91	1/2	1,420.96	1/2	1,752.02	1/2	2,083.07	1/2	2,414.12	1/2	2,745.17	1/2	3,076.18
3/4	194.74	3/4	472.19	3/4	773.15	3/4	1,096.81	3/4	1,427.86	3/4	1,758.91	3/4	2,089.96	3/4	2,421.02	3/4	2,752.07	3/4	3,083.08
9	200.26	9	478.21	9	779.65	9	1,103.71	9	1,434.76	9	1,765.81	9	2,096.86	9	2,427.91	9	2,758.96	9	3,089.97
1/4	205.83	1/4	484.26	1/4	786.18	1/4	1,110.60	1/4	1,441.66	1/4	1,772.71	1/4	2,103.76	1/4	2,434.81	1/4	2,765.86	1/4	3,096.87
1/2	211.39	1/2	490.32	1/2	792.72	1/2	1,117.50	1/2	1,448.55	1/2	1,779.60	1/2	2,110.65	1/2	2,441.71	1/2	2,772.76	1/2	3,103.77
3/4	216.96	3/4	496.38	3/4	799.25	3/4	1,124.40	3/4	1,455.45	3/4	1,786.50	3/4	2,117.55	3/4	2,448.60	3/4	2,779.65	3/4	3,110.66
10	222.52	10	502.44	10	805.79	10	1,131.29	10	1,462.35	10	1,793.40	10	2,124.45	10	2,455.50	10	2,786.55	10	3,117.56
1/4	228.13	1/4	508.53	1/4	812.36	1/4	1,138.19	1/4	1,469.24	1/4	1,800.29	1/4	2,131.35	1/4	2,462.40	1/4	2,793.45	1/4	3,124.45
1/2	233.74	1/2	514.63	1/2	818.93	1/2	1,145.09	1/2	1,476.14	1/2	1,807.19	1/2	2,138.24	1/2	2,469.29	1/2	2,800.34	1/2	3,131.35
3/4	239.34	3/4	520.73	3/4	825.50	3/4	1,151.99	3/4	1,483.04	3/4	1,814.09	3/4	2,145.14	3/4	2,476.19	3/4	2,807.24	3/4	3,138.25
11	244.95	11	526.83	11	832.08	11	1,158.88	11	1,489.93	11	1,820.98	11	2,152.04	11	2,483.09	11	2,814.13	11	3,145.14
1/4	250.60	1/4	532.96	1/4	838.69	1/4	1,165.78	1/4	1,496.83	1/4	1,827.88	1/4	2,158.93	1/4	2,489.98	1/4	2,821.03	1/4	3,152.04
1/2	256.24	1/2	539.10	1/2	845.30	1/2	1,172.68	1/2	1,503.73	1/2	1,834.78	1/2	2,165.83	1/2	2,496.88	1/2	2,827.93	1/2	3,158.93
3/4	261.89	3/4	545.24	3/4	851.91	3/4	1,179.57	3/4	1,510.62	3/4	1,841.68	3/4	2,172.73	3/4	2,503.78	3/4	2,834.82	3/4	3,165.83

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL

CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK

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

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

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "EMS 394"

1 STBD 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	3,172.73	0	3,503.59	0	3,822.45	0	4,120.76	0		0		0		0		0		0	
1/4	3,179.62	1/4	3,510.42	1/4	3,828.87	1/4	4,126.73	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,186.52	1/2	3,517.25	1/2	3,835.29	1/2	4,132.69	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,193.41	3/4	3,524.08	3/4	3,841.71	3/4	4,138.66	3/4		3/4		3/4		3/4		3/4		3/4	
1	3,200.31	1	3,530.91	1	3,848.13	1	4,144.63	1		1		1		1		1		1	
1/4	3,207.21	1/4	3,537.71	1/4	3,854.52	1/4	4,150.57	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,214.10	1/2	3,544.51	1/2	3,860.90	1/2	4,156.50	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,221.00	3/4	3,551.31	3/4	3,867.29	3/4	4,162.43	3/4		3/4		3/4		3/4		3/4		3/4	
2	3,227.89	2	3,558.10	2	3,873.67	2	4,168.37	2		2		2		2		2		2	
1/4	3,234.79	1/4	3,564.87	1/4	3,880.02	1/4	4,174.27	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,241.69	1/2	3,571.63	1/2	3,886.38	1/2	4,180.17	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,248.58	3/4	3,578.39	3/4	3,892.73	3/4	4,186.07	3/4		3/4		3/4		3/4		3/4		3/4	
3	3,255.48	3	3,585.15	3	3,899.08	3	4,191.97	3		3		3		3		3		3	
1/4	3,262.37	1/4	3,591.88	1/4	3,905.40	1/4	4,197.83	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,269.27	1/2	3,598.61	1/2	3,911.71	1/2	4,203.70	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,276.17	3/4	3,605.34	3/4	3,918.03	3/4	4,209.56	3/4		3/4		3/4		3/4		3/4		3/4	
4	3,283.06	4	3,612.07	4	3,924.35	4	4,215.43	4		4		4		4		4		4	
1/4	3,289.96	1/4	3,618.76	1/4	3,930.63	1/4	4,221.78	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,296.85	1/2	3,625.46	1/2	3,936.91	1/2	4,228.13	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,303.75	3/4	3,632.15	3/4	3,943.20	3/4	4,234.49	3/4		3/4		3/4		3/4		3/4		3/4	
5	3,310.65	5	3,638.85	5	3,949.48	5	4,240.84	5		5		5		5		5		5	
1/4	3,317.54	1/4	3,645.51	1/4	3,955.73	1/4	4,247.69	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,324.44	1/2	3,652.17	1/2	3,961.98	1/2	4,254.55	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,331.33	3/4	3,658.83	3/4	3,968.22	3/4	4,261.41	3/4		3/4		3/4		3/4		3/4		3/4	
6	3,338.23	6	3,665.49	6	3,974.47	6	4,268.26	6		6		6		6		6		6	
1/4	3,345.13	1/4	3,672.11	1/4	3,980.69	1/4	4,275.12	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,352.02	1/2	3,678.74	1/2	3,986.90	1/2	4,281.97	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,358.92	3/4	3,685.37	3/4	3,993.11	3/4	4,288.83	3/4		3/4		3/4		3/4		3/4		3/4	
7	3,365.81	7	3,691.99	7	3,999.33	7	4,295.69	7		7		7		7		7		7	
1/4	3,372.71	1/4	3,698.58	1/4	4,005.47	1/4	4,302.47	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,379.61	1/2	3,705.17	1/2	4,011.61	1/2	4,309.25	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,386.50	3/4	3,711.77	3/4	4,017.75	3/4	4,316.03	3/4		3/4		3/4		3/4		3/4		3/4	
8	3,393.40	8	3,718.36	8	4,023.89	8	4,322.82	8		8		8		8		8		8	
1/4	3,400.29	1/4	3,724.91	1/4	4,029.99	1/4	4,328.97	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,407.19	1/2	3,731.47	1/2	4,036.10	1/2	4,335.13	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,414.09	3/4	3,738.03	3/4	4,042.21	3/4	4,341.29	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,420.98	9	3,744.59	9	4,048.31	9	4,347.44	9		9		9		9		9		9	
1/4	3,427.88	1/4	3,751.11	1/4	4,054.38	1/4	4,352.34	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,434.77	1/2	3,757.63	1/2	4,060.45	1/2	4,357.25	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,441.67	3/4	3,764.16	3/4	4,066.53	3/4	4,362.15	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,448.57	10	3,770.68	10	4,072.60	10		10		10		10		10		10		10	
1/4	3,455.46	1/4	3,777.17	1/4	4,078.63	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,462.35	1/2	3,783.66	1/2	4,084.67	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,469.23	3/4	3,790.14	3/4	4,090.71	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
11	3,476.12	11	3,796.63	11	4,096.75	11		11		11		11		11		11		11	
1/4	3,482.99	1/4	3,803.09	1/4	4,102.75	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,489.86	1/2	3,809.54	1/2	4,108.75	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,496.72	3/4	3,816.00	3/4	4,114.75	3/4		3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 02/15/2016 SW
CALCULATED: 02/15/2016 CL
PRINTED: 02/15/2016 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 02/2016

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



BARGE "EMS 394"

1 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 14'-10"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	16.20	0	268.24	0	552.83	0	859.96	0	1,188.21	0	1,520.11	0	1,852.01	0	2,183.91	0	2,515.81	0	2,847.70
1/4	19.44	1/4	273.95	1/4	559.02	1/4	866.61	1/4	1,195.12	1/4	1,527.02	1/4	1,858.92	1/4	2,190.82	1/4	2,522.72	1/4	2,854.62
1/2	22.67	1/2	279.65	1/2	565.22	1/2	873.26	1/2	1,202.03	1/2	1,533.94	1/2	1,865.84	1/2	2,197.74	1/2	2,529.64	1/2	2,861.53
3/4	25.90	3/4	285.35	3/4	571.42	3/4	879.90	3/4	1,208.95	3/4	1,540.85	3/4	1,872.75	3/4	2,204.65	3/4	2,536.55	3/4	2,868.44
1	29.14	1	291.05	1	577.61	1	886.55	1	1,215.86	1	1,547.76	1	1,879.67	1	2,211.57	1	2,543.47	1	2,875.36
1/4	34.14	1/4	296.80	1/4	583.85	1/4	893.24	1/4	1,222.78	1/4	1,554.68	1/4	1,886.58	1/4	2,218.48	1/4	2,550.38	1/4	2,882.27
1/2	39.15	1/2	302.54	1/2	590.09	1/2	899.93	1/2	1,229.69	1/2	1,561.59	1/2	1,893.49	1/2	2,225.40	1/2	2,557.30	1/2	2,889.18
3/4	44.15	3/4	308.29	3/4	596.32	3/4	906.61	3/4	1,236.61	3/4	1,568.51	3/4	1,900.41	3/4	2,232.31	3/4	2,564.21	3/4	2,896.10
2	49.16	2	314.03	2	602.56	2	913.30	2	1,243.52	2	1,575.42	2	1,907.32	2	2,239.22	2	2,571.13	2	2,903.01
1/4	54.45	1/4	319.82	1/4	608.84	1/4	920.03	1/4	1,250.44	1/4	1,582.34	1/4	1,914.24	1/4	2,246.14	1/4	2,578.04	1/4	2,909.93
1/2	59.74	1/2	325.60	1/2	615.12	1/2	926.76	1/2	1,257.35	1/2	1,589.25	1/2	1,921.15	1/2	2,253.05	1/2	2,584.95	1/2	2,916.84
3/4	65.03	3/4	331.39	3/4	621.39	3/4	933.49	3/4	1,264.27	3/4	1,596.17	3/4	1,928.07	3/4	2,259.97	3/4	2,591.87	3/4	2,923.75
3	70.32	3	337.17	3	627.67	3	940.22	3	1,271.18	3	1,603.08	3	1,934.98	3	2,266.88	3	2,598.78	3	2,930.67
1/4	75.66	1/4	343.00	1/4	633.99	1/4	947.00	1/4	1,278.10	1/4	1,610.00	1/4	1,941.90	1/4	2,273.80	1/4	2,605.70	1/4	2,937.58
1/2	80.99	1/2	348.82	1/2	640.31	1/2	953.79	1/2	1,285.01	1/2	1,616.91	1/2	1,948.81	1/2	2,280.71	1/2	2,612.61	1/2	2,944.49
3/4	86.32	3/4	354.65	3/4	646.63	3/4	960.58	3/4	1,291.92	3/4	1,623.83	3/4	1,955.73	3/4	2,287.63	3/4	2,619.53	3/4	2,951.41
4	91.66	4	360.48	4	652.95	4	967.37	4	1,298.84	4	1,630.74	4	1,962.64	4	2,294.54	4	2,626.44	4	2,958.32
1/4	97.03	1/4	366.34	1/4	659.31	1/4	974.19	1/4	1,305.75	1/4	1,637.65	1/4	1,969.56	1/4	2,301.46	1/4	2,633.36	1/4	2,965.24
1/2	102.41	1/2	372.21	1/2	665.67	1/2	981.02	1/2	1,312.67	1/2	1,644.57	1/2	1,976.47	1/2	2,308.37	1/2	2,640.27	1/2	2,972.15
3/4	107.78	3/4	378.08	3/4	672.03	3/4	987.85	3/4	1,319.58	3/4	1,651.48	3/4	1,983.38	3/4	2,315.29	3/4	2,647.19	3/4	2,979.06
5	113.16	5	383.95	5	678.39	5	994.68	5	1,326.50	5	1,658.40	5	1,990.30	5	2,322.20	5	2,654.10	5	2,985.98
1/4	118.57	1/4	389.85	1/4	684.76	1/4	1,001.57	1/4	1,333.41	1/4	1,665.31	1/4	1,997.21	1/4	2,329.11	1/4	2,661.02	1/4	2,992.89
1/2	123.99	1/2	395.76	1/2	691.13	1/2	1,008.47	1/2	1,340.33	1/2	1,672.23	1/2	2,004.13	1/2	2,336.03	1/2	2,667.93	1/2	2,999.80
3/4	129.40	3/4	401.67	3/4	697.50	3/4	1,015.36	3/4	1,347.24	3/4	1,679.14	3/4	2,011.04	3/4	2,342.94	3/4	2,674.84	3/4	3,006.72
6	134.82	6	407.58	6	703.88	6	1,022.26	6	1,354.16	6	1,686.06	6	2,017.96	6	2,349.86	6	2,681.76	6	3,013.63
1/4	140.28	1/4	413.53	1/4	710.29	1/4	1,029.17	1/4	1,361.07	1/4	1,692.97	1/4	2,024.87	1/4	2,356.77	1/4	2,688.67	1/4	3,020.54
1/2	145.73	1/2	419.48	1/2	716.70	1/2	1,036.08	1/2	1,367.99	1/2	1,699.89	1/2	2,031.79	1/2	2,363.69	1/2	2,695.59	1/2	3,027.46
3/4	151.19	3/4	425.43	3/4	723.12	3/4	1,043.00	3/4	1,374.90	3/4	1,706.80	3/4	2,038.70	3/4	2,370.60	3/4	2,702.50	3/4	3,034.37
7	156.65	7	431.38	7	729.53	7	1,049.91	7	1,381.81	7	1,713.72	7	2,045.62	7	2,377.52	7	2,709.42	7	3,041.29
1/4	162.14	1/4	437.37	1/4	735.97	1/4	1,056.83	1/4	1,388.73	1/4	1,720.63	1/4	2,052.53	1/4	2,384.43	1/4	2,716.33	1/4	3,048.20
1/2	167.64	1/2	443.36	1/2	742.41	1/2	1,063.74	1/2	1,395.64	1/2	1,727.54	1/2	2,059.45	1/2	2,391.35	1/2	2,723.25	1/2	3,055.11
3/4	173.14	3/4	449.35	3/4	748.85	3/4	1,070.66	3/4	1,402.56	3/4	1,734.46	3/4	2,066.36	3/4	2,398.26	3/4	2,730.16	3/4	3,062.03
8	178.64	8	455.34	8	755.30	8	1,077.57	8	1,409.47	8	1,741.37	8	2,073.27	8	2,405.18	8	2,737.08	8	3,068.94
1/4	184.18	1/4	461.37	1/4	761.78	1/4	1,084.49	1/4	1,416.39	1/4	1,748.29	1/4	2,080.19	1/4	2,412.09	1/4	2,743.99	1/4	3,075.85
1/2	189.71	1/2	467.40	1/2	768.26	1/2	1,091.40	1/2	1,423.30	1/2	1,755.20	1/2	2,087.10	1/2	2,419.00	1/2	2,750.91	1/2	3,082.77
3/4	195.25	3/4	473.43	3/4	774.74	3/4	1,098.32	3/4	1,430.22	3/4	1,762.12	3/4	2,094.02	3/4	2,425.92	3/4	2,757.82	3/4	3,089.68
9	200.79	9	479.47	9	781.22	9	1,105.23	9	1,437.13	9	1,769.03	9	2,100.93	9	2,432.83	9	2,764.73	9	3,096.60
1/4	206.37	1/4	485.54	1/4	787.75	1/4	1,112.14	1/4	1,444.05	1/4	1,775.95	1/4	2,107.85	1/4	2,439.75	1/4	2,771.65	1/4	3,103.51
1/2	211.95	1/2	491.61	1/2	794.27	1/2	1,119.06	1/2	1,450.96	1/2	1,782.86	1/2	2,114.76	1/2	2,446.66	1/2	2,778.56	1/2	3,110.42
3/4	217.53	3/4	497.68	3/4	800.80	3/4	1,125.97	3/4	1,457.87	3/4	1,789.78	3/4	2,121.68	3/4	2,453.58	3/4	2,785.48	3/4	3,117.34
10	223.11	10	503.76	10	807.32	10	1,132.89	10	1,464.79	10	1,796.69	10	2,128.59	10	2,460.49	10	2,792.39	10	3,124.25
1/4	228.73	1/4	509.87	1/4	813.88	1/4	1,139.80	1/4	1,471.70	1/4	1,803.60	1/4	2,135.51	1/4	2,467.41	1/4	2,799.31	1/4	3,131.16
1/2	234.35	1/2	515.98	1/2	820.44	1/2	1,146.72	1/2	1,478.62	1/2	1,810.52	1/2	2,142.42	1/2	2,474.32	1/2	2,806.22	1/2	3,138.08
3/4	239.97	3/4	522.10	3/4	827.00	3/4	1,153.63	3/4	1,485.53	3/4	1,817.43	3/4	2,149.33	3/4	2,481.24	3/4	2,813.13	3/4	3,144.99
11	245.59	11	528.21	11	833.56	11	1,160.55	11	1,492.45	11	1,824.35	11	2,156.25	11	2,488.15	11	2,820.05	11	3,151.91
1/4	251.26	1/4	534.36	1/4	840.16	1/4	1,167.46	1/4	1,499.36	1/4	1,831.26	1/4	2,163.16	1/4	2,495.06	1/4	2,826.96	1/4	3,158.82
1/2	256.92	1/2	540.52	1/2	846.76	1/2	1,174.38	1/2	1,506.28	1/2	1,838.18	1/2	2,170.08	1/2	2,501.98	1/2	2,833.87	1/2	3,165.73
3/4	262.58	3/4	546.67	3/4	853.36	3/4	1,181.29	3/4	1,513.19	3/4	1,845.09	3/4	2,176.99	3/4	2,508.89	3/4	2,840.79	3/4	3,172.65

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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

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



BARGE "EMS 394"

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	3,179.56	0	3,511.28	0	3,830.96	0	4,130.04	0		0		0		0		0		0	
1/4	3,186.47	1/4	3,518.13	1/4	3,837.40	1/4	4,136.03	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,193.39	1/2	3,524.97	1/2	3,843.83	1/2	4,142.01	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,200.30	3/4	3,531.82	3/4	3,850.27	3/4	4,148.00	3/4		3/4		3/4		3/4		3/4		3/4	
1	3,207.21	1	3,538.67	1	3,856.71	1	4,153.98	1		1		1		1		1		1	
1/4	3,214.13	1/4	3,545.49	1/4	3,863.11	1/4	4,159.93	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,221.04	1/2	3,552.30	1/2	3,869.51	1/2	4,165.88	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,227.96	3/4	3,559.12	3/4	3,875.91	3/4	4,171.83	3/4		3/4		3/4		3/4		3/4		3/4	
2	3,234.87	2	3,565.93	2	3,882.32	2	4,177.78	2		2		2		2		2		2	
1/4	3,241.78	1/4	3,572.71	1/4	3,888.68	1/4	4,183.69	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,248.70	1/2	3,579.49	1/2	3,895.05	1/2	4,189.61	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,255.61	3/4	3,586.27	3/4	3,901.42	3/4	4,195.52	3/4		3/4		3/4		3/4		3/4		3/4	
3	3,262.52	3	3,593.05	3	3,907.79	3	4,201.44	3		3		3		3		3		3	
1/4	3,269.44	1/4	3,599.80	1/4	3,914.12	1/4	4,207.32	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,276.35	1/2	3,606.55	1/2	3,920.46	1/2	4,213.20	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,283.27	3/4	3,613.29	3/4	3,926.79	3/4	4,219.08	3/4		3/4		3/4		3/4		3/4		3/4	
4	3,290.18	4	3,620.04	4	3,933.12	4	4,224.96	4		4		4		4		4		4	
1/4	3,297.09	1/4	3,626.75	1/4	3,939.42	1/4	4,231.33	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,304.01	1/2	3,633.46	1/2	3,945.72	1/2	4,237.70	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,310.92	3/4	3,640.17	3/4	3,952.02	3/4	4,244.07	3/4		3/4		3/4		3/4		3/4		3/4	
5	3,317.83	5	3,646.88	5	3,958.32	5	4,250.44	5		5		5		5		5		5	
1/4	3,324.75	1/4	3,653.56	1/4	3,964.58	1/4	4,257.31	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,331.66	1/2	3,660.24	1/2	3,970.85	1/2	4,264.19	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,338.57	3/4	3,666.92	3/4	3,977.11	3/4	4,271.06	3/4		3/4		3/4		3/4		3/4		3/4	
6	3,345.49	6	3,673.59	6	3,983.38	6	4,277.93	6		6		6		6		6		6	
1/4	3,352.40	1/4	3,680.24	1/4	3,989.61	1/4	4,284.81	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,359.32	1/2	3,686.88	1/2	3,995.84	1/2	4,291.68	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,366.23	3/4	3,693.52	3/4	4,002.07	3/4	4,298.55	3/4		3/4		3/4		3/4		3/4		3/4	
7	3,373.14	7	3,700.17	7	4,008.30	7	4,305.43	7		7		7		7		7		7	
1/4	3,380.06	1/4	3,706.77	1/4	4,014.46	1/4	4,312.23	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,386.97	1/2	3,713.38	1/2	4,020.61	1/2	4,319.03	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,393.88	3/4	3,719.99	3/4	4,026.77	3/4	4,325.83	3/4		3/4		3/4		3/4		3/4		3/4	
8	3,400.80	8	3,726.60	8	4,032.92	8	4,332.63	8		8		8		8		8		8	
1/4	3,407.71	1/4	3,733.17	1/4	4,039.04	1/4	4,338.80	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,414.63	1/2	3,739.75	1/2	4,045.17	1/2	4,344.97	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,421.54	3/4	3,746.32	3/4	4,051.29	3/4	4,351.14	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,428.45	9	3,752.90	9	4,057.41	9	4,357.31	9		9		9		9		9		9	
1/4	3,435.37	1/4	3,759.44	1/4	4,063.50	1/4	4,362.22	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,442.28	1/2	3,765.98	1/2	4,069.58	1/2	4,367.14	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,449.19	3/4	3,772.52	3/4	4,075.67	3/4	4,372.05	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,456.11	10	3,779.06	10	4,081.76	10		10		10		10		10		10		10	
1/4	3,463.02	1/4	3,785.56	1/4	4,087.81	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,469.92	1/2	3,792.07	1/2	4,093.86	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,476.83	3/4	3,798.57	3/4	4,099.92	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
11	3,483.74	11	3,805.08	11	4,105.97	11		11		11		11		11		11		11	
1/4	3,490.63	1/4	3,811.55	1/4	4,111.99	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,497.51	1/2	3,818.02	1/2	4,118.01	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,504.39	3/4	3,824.49	3/4	4,124.03	3/4		3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 02/15/2016 SW
CALCULATED: 02/15/2016 CL
PRINTED: 02/15/2016 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 02/2016

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



BARGE "EMS 394"

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

February 15, 2016

**PRECISION MEASUREMENT
& ANALYSIS, INC.**

P.O. Box 2092
 Pearland, Texas 77588

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BARGE "EMS 394"

3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-04 3/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.		
0	0	0	0	0	0	0	4,482.22	0	4,231.39	0	3,959.33	0	3,668.39	0	3,373.24	0	3,013.65	0	2,653.97		
1/4		1/4		1/4		1/4	4,476.69	1/4	4,225.93	1/4	3,953.43	1/4	3,662.27	1/4	3,365.74	1/4	3,006.16	1/4	2,646.48		
1/2		1/2		1/2		1/2	4,471.15	1/2	4,220.48	1/2	3,947.53	1/2	3,656.15	1/2	3,358.24	1/2	2,998.67	1/2	2,638.98		
3/4		3/4		3/4		3/4	4,465.62	3/4	4,215.03	3/4	3,941.63	3/4	3,650.03	3/4	3,350.75	3/4	2,991.19	3/4	2,631.49		
1	1	1	1	1	1	1	4,460.61	1	4,209.54	1	3,935.69	1	3,643.91	1	3,343.25	1	2,983.70	1	2,623.99		
1/4		1/4		1/4		1/4	4,455.60	1/4	4,204.05	1/4	3,929.75	1/4	3,637.79	1/4	3,335.76	1/4	2,976.21	1/4	2,616.49		
1/2		1/2		1/2		1/2	4,450.60	1/2	4,198.56	1/2	3,923.82	1/2	3,631.67	1/2	3,328.26	1/2	2,968.72	1/2	2,609.00		
3/4		3/4		3/4		3/4	4,445.59	3/4	4,193.07	3/4	3,917.88	3/4	3,625.55	3/4	3,320.77	3/4	2,961.23	3/4	2,601.50		
2	2	2	2	2	2	2	4,440.55	2	4,187.54	2	3,911.90	2	3,619.43	2	3,313.27	2	2,953.74	2	2,594.00		
1/4		1/4		1/4		1/4	4,435.50	1/4	4,182.01	1/4	3,905.93	1/4	3,613.31	1/4	3,305.78	1/4	2,946.25	1/4	2,586.51		
1/2		1/2		1/2		1/2	4,430.46	1/2	4,176.48	1/2	3,899.95	1/2	3,607.19	1/2	3,298.28	1/2	2,938.76	1/2	2,579.01		
3/4		3/4		3/4		3/4	4,425.42	3/4	4,170.95	3/4	3,893.97	3/4	3,601.07	3/4	3,290.79	3/4	2,931.27	3/4	2,571.52		
3	3	3	3	3	3	3	4,420.34	3	4,165.39	3	3,887.96	3	3,594.94	3	3,283.29	3	2,923.79	3	2,564.02		
1/4		1/4		1/4		1/4	4,415.25	1/4	4,159.82	1/4	3,881.95	1/4	3,588.82	1/4	3,275.80	1/4	2,916.30	1/4	2,556.52		
1/2		1/2		1/2		1/2	4,410.17	1/2	4,154.26	1/2	3,875.94	1/2	3,582.70	1/2	3,268.30	1/2	2,908.81	1/2	2,549.03		
3/4		3/4		3/4		3/4	4,405.09	3/4	4,148.69	3/4	3,869.92	3/4	3,576.58	3/4	3,260.80	3/4	2,901.32	3/4	2,541.53		
4	4	4	4	4	4	4	4,399.97	4	4,143.09	4	3,863.87	4	3,570.46	4	3,253.31	4	2,893.83	4	2,534.04		
1/4		1/4		1/4		1/4	4,394.86	1/4	4,137.49	1/4	3,857.82	1/4	3,564.34	1/4	3,245.81	1/4	2,886.34	1/4	2,526.56		
1/2		1/2		1/2		1/2	4,389.74	1/2	4,131.89	1/2	3,851.77	1/2	3,558.22	1/2	3,238.32	1/2	2,878.85	1/2	2,519.07		
3/4		3/4		3/4		3/4	4,384.62	3/4	4,126.28	3/4	3,845.72	3/4	3,552.10	3/4	3,230.82	3/4	2,871.36	3/4	2,511.58		
5	5	5	5	5	5	5	4,379.46	5	4,120.64	5	3,839.63	5	3,545.98	5	3,223.33	5	2,863.87	5	2,504.10		
1/4		1/4		1/4		1/4	4,374.31	1/4	4,115.00	1/4	3,833.54	1/4	3,539.86	1/4	3,215.85	1/4	2,856.37	1/4	2,496.61		
1/2		1/2		1/2		1/2	4,369.15	1/2	4,109.36	1/2	3,827.46	1/2	3,533.74	1/2	3,208.36	1/2	2,848.88	1/2	2,489.12		
3/4		3/4		3/4		3/4	4,364.00	3/4	4,103.73	3/4	3,821.37	3/4	3,527.62	3/4	3,200.87	3/4	2,841.38	3/4	2,481.63		
6	6	6	6	6	6	6	4,358.81	6	4,098.05	6	3,815.26	6	3,521.50	6	3,193.38	6	2,833.88	6	2,474.15		
1/4		1/4		1/4		1/4	4,353.61	1/4	4,092.37	1/4	3,809.14	1/4	3,515.38	1/4	3,185.89	1/4	2,826.39	1/4	2,466.66		
1/2		1/2		1/2		1/2	4,348.42	1/2	4,086.69	1/2	3,803.03	1/2	3,509.26	1/2	3,178.40	1/2	2,818.89	1/2	2,459.17		
3/4		3/4		3/4		3/4	4,343.23	3/4	4,081.02	3/4	3,796.92	3/4	3,503.14	3/4	3,170.92	3/4	2,811.39	3/4	2,451.69		
7	7	7	7	7	7	7	4,608.78	7	4,338.00	7	4,075.30	7	3,790.80	7	3,497.02	7	3,163.43	7	2,803.90	7	2,444.20
1/4		1/4		1/4		1/4	4,603.44	1/4	4,332.77	1/4	4,069.59	1/4	3,784.68	1/4	3,490.90	1/4	3,155.94	1/4	2,796.40	1/4	2,436.71
1/2		1/2		1/2		1/2	4,598.11	1/2	4,327.54	1/2	4,063.87	1/2	3,778.56	1/2	3,484.78	1/2	3,148.45	1/2	2,788.91	1/2	2,429.22
3/4		3/4		3/4		3/4	4,592.77	3/4	4,322.31	3/4	4,058.16	3/4	3,772.44	3/4	3,478.66	3/4	3,140.96	3/4	2,781.41	3/4	2,421.74
8	8	8	8	8	8	8	4,586.07	8	4,317.04	8	4,052.41	8	3,766.32	8	3,472.54	8	3,133.47	8	2,773.91	8	2,414.25
1/4		1/4		1/4		1/4	4,579.37	1/4	4,311.77	1/4	4,046.66	1/4	3,760.20	1/4	3,466.42	1/4	3,125.98	1/4	2,766.42	1/4	2,406.76
1/2		1/2		1/2		1/2	4,572.67	1/2	4,306.50	1/2	4,040.90	1/2	3,754.08	1/2	3,460.30	1/2	3,118.49	1/2	2,758.92	1/2	2,399.27
3/4		3/4		3/4		3/4	4,565.97	3/4	4,301.24	3/4	4,035.15	3/4	3,747.95	3/4	3,454.18	3/4	3,111.01	3/4	2,751.43	3/4	2,391.79
9	9	9	9	9	9	9	4,558.59	9	4,295.93	9	4,029.36	9	3,741.83	9	3,448.06	9	3,103.52	9	2,743.93	9	2,384.30
1/4		1/4		1/4		1/4	4,551.20	1/4	4,290.63	1/4	4,023.57	1/4	3,735.71	1/4	3,441.93	1/4	3,096.03	1/4	2,736.43	1/4	2,376.81
1/2		1/2		1/2		1/2	4,543.82	1/2	4,285.32	1/2	4,017.78	1/2	3,729.59	1/2	3,435.81	1/2	3,088.54	1/2	2,728.94	1/2	2,369.33
3/4		3/4		3/4		3/4	4,536.43	3/4	4,280.02	3/4	4,012.00	3/4	3,723.47	3/4	3,429.69	3/4	3,081.05	3/4	2,721.44	3/4	2,361.84
10	10	10	10	10	10	10	4,530.35	10	4,274.64	10	4,006.17	10	3,717.35	10	3,423.57	10	3,073.56	10	2,713.94	10	2,354.35
1/4		1/4		1/4		1/4	4,524.26	1/4	4,269.26	1/4	4,000.34	1/4	3,711.23	1/4	3,417.45	1/4	3,066.07	1/4	2,706.45	1/4	2,346.86
1/2		1/2		1/2		1/2	4,518.18	1/2	4,263.88	1/2	3,994.52	1/2	3,705.11	1/2	3,411.33	1/2	3,058.58	1/2	2,698.95	1/2	2,339.38
3/4		3/4		3/4		3/4	4,512.10	3/4	4,258.50	3/4	3,988.69	3/4	3,698.99	3/4	3,405.21	3/4	3,051.10	3/4	2,691.46	3/4	2,331.89
11	11	11	11	11	11	11	4,506.01	11	4,253.09	11	3,982.83	11	3,692.87	11	3,399.09	11	3,043.61	11	2,683.96	11	2,324.40
1/4		1/4		1/4		1/4	4,499.93	1/4	4,247.67	1/4	3,976.96	1/4	3,686.75	1/4	3,392.97	1/4	3,036.12	1/4	2,676.46	1/4	2,316.92
1/2		1/2		1/2		1/2	4,493.84	1/2	4,242.26	1/2	3,971.10	1/2	3,680.63	1/2	3,386.85	1/2	3,028.63	1/2	2,668.97	1/2	2,309.43
3/4		3/4		3/4		3/4	4,487.76	3/4	4,236.84	3/4	3,965.24	3/4	3,674.51	3/4	3,380.73	3/4	3,021.14	3/4	2,661.47	3/4	2,301.94

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'-00" FORWARD OF AFT BULKHEAD

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092
 Pearland, Texas 77588
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BARGE "EMS 394"

3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-04 3/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,294.44	0	1,936.01	0	1,578.42	0	1,218.69	0	858.96	0	509.56	0	150.37	0		0		0	
1/4	2,286.95	1/4	1,928.59	1/4	1,570.92	1/4	1,211.19	1/4	851.46	1/4	502.29	1/4	142.88	1/4		1/4		1/4	
1/2	2,279.45	1/2	1,921.17	1/2	1,563.43	1/2	1,203.70	1/2	843.97	1/2	495.02	1/2	135.38	1/2		1/2		1/2	
3/4	2,271.95	3/4	1,913.75	3/4	1,555.94	3/4	1,196.20	3/4	836.47	3/4	487.74	3/4	127.88	3/4		3/4		3/4	
1	2,264.45	1	1,906.33	1	1,548.44	1	1,188.71	1	829.20	1	480.25	1	120.39	1		1		1	
1/4	2,256.95	1/4	1,898.91	1/4	1,540.95	1/4	1,181.22	1/4	821.93	1/4	472.75	1/4	112.89	1/4		1/4		1/4	
1/2	2,249.46	1/2	1,891.49	1/2	1,533.45	1/2	1,173.72	1/2	814.65	1/2	465.25	1/2	105.39	1/2		1/2		1/2	
3/4	2,241.96	3/4	1,884.07	3/4	1,525.96	3/4	1,166.23	3/4	807.38	3/4	457.76	3/4	97.89	3/4		3/4		3/4	
2	2,234.46	2	1,876.65	2	1,518.46	2	1,158.73	2	800.11	2	450.26	2	90.40	2		2		2	
1/4	2,226.96	1/4	1,869.23	1/4	1,510.97	1/4	1,151.24	1/4	792.83	1/4	442.76	1/4	82.90	1/4		1/4		1/4	
1/2	2,219.47	1/2	1,861.80	1/2	1,503.48	1/2	1,143.74	1/2	785.56	1/2	435.26	1/2	75.40	1/2		1/2		1/2	
3/4	2,211.97	3/4	1,854.38	3/4	1,495.98	3/4	1,136.25	3/4	778.29	3/4	427.77	3/4	67.91	3/4		3/4		3/4	
3	2,204.47	3	1,846.96	3	1,488.49	3	1,128.76	3	771.02	3	420.27	3	60.68	3		3		3	
1/4	2,196.97	1/4	1,839.54	1/4	1,480.99	1/4	1,121.26	1/4	763.74	1/4	412.77	1/4	53.45	1/4		1/4		1/4	
1/2	2,189.48	1/2	1,832.12	1/2	1,473.50	1/2	1,113.77	1/2	756.47	1/2	405.28	1/2	46.22	1/2		1/2		1/2	
3/4	2,181.98	3/4	1,824.70	3/4	1,466.00	3/4	1,106.27	3/4	749.20	3/4	397.78	3/4	38.99	3/4		3/4		3/4	
4	2,174.48	4	1,817.28	4	1,458.51	4	1,098.78	4	741.93	4	390.28	4	33.63	4		4		4	
1/4	2,166.98	1/4	1,809.86	1/4	1,451.01	1/4	1,091.28	1/4	734.67	1/4	382.78	1/4	28.27	1/4		1/4		1/4	
1/2	2,159.48	1/2	1,802.44	1/2	1,443.52	1/2	1,083.79	1/2	727.41	1/2	375.29	1/2	22.90	1/2		1/2		1/2	
3/4	2,151.99	3/4	1,795.02	3/4	1,436.03	3/4	1,076.29	3/4	720.15	3/4	367.79	3/4	17.54	3/4		3/4		3/4	
5	2,144.49	5	1,787.60	5	1,428.53	5	1,068.80	5	712.88	5	360.29	5		5		5		5	
1/4	2,136.99	1/4	1,780.18	1/4	1,421.04	1/4	1,061.31	1/4	705.62	1/4	352.80	1/4		1/4		1/4		1/4	
1/2	2,129.49	1/2	1,772.75	1/2	1,413.54	1/2	1,053.81	1/2	698.36	1/2	345.30	1/2		1/2		1/2		1/2	
3/4	2,122.00	3/4	1,765.33	3/4	1,406.05	3/4	1,046.32	3/4	691.10	3/4	337.80	3/4		3/4		3/4		3/4	
6	2,114.50	6	1,757.91	6	1,398.55	6	1,038.82	6	683.83	6	330.30	6		6		6		6	
1/4	2,107.00	1/4	1,750.49	1/4	1,391.06	1/4	1,031.33	1/4	676.57	1/4	322.81	1/4		1/4		1/4		1/4	
1/2	2,099.50	1/2	1,743.07	1/2	1,383.56	1/2	1,023.83	1/2	669.31	1/2	315.31	1/2		1/2		1/2		1/2	
3/4	2,092.01	3/4	1,735.65	3/4	1,376.07	3/4	1,016.34	3/4	662.05	3/4	307.81	3/4		3/4		3/4		3/4	
7	2,084.55	7	1,728.19	7	1,368.58	7	1,008.84	7	654.79	7	300.32	7		7		7		7	
1/4	2,077.09	1/4	1,720.74	1/4	1,361.08	1/4	1,001.35	1/4	647.53	1/4	292.82	1/4		1/4		1/4		1/4	
1/2	2,069.63	1/2	1,713.28	1/2	1,353.59	1/2	993.86	1/2	640.27	1/2	285.32	1/2		1/2		1/2		1/2	
3/4	2,062.17	3/4	1,705.82	3/4	1,346.09	3/4	986.36	3/4	633.01	3/4	277.83	3/4		3/4		3/4		3/4	
8	2,054.75	8	1,698.33	8	1,338.60	8	978.87	8	625.75	8	270.33	8		8		8		8	
1/4	2,047.32	1/4	1,690.84	1/4	1,331.10	1/4	971.37	1/4	618.50	1/4	262.83	1/4		1/4		1/4		1/4	
1/2	2,039.90	1/2	1,683.34	1/2	1,323.61	1/2	963.88	1/2	611.24	1/2	255.33	1/2		1/2		1/2		1/2	
3/4	2,032.48	3/4	1,675.85	3/4	1,316.12	3/4	956.38	3/4	603.98	3/4	247.84	3/4		3/4		3/4		3/4	
9	2,025.06	9	1,668.35	9	1,308.62	9	948.89	9	596.72	9	240.34	9		9		9		9	
1/4	2,017.64	1/4	1,660.86	1/4	1,301.13	1/4	941.40	1/4	589.46	1/4	232.84	1/4		1/4		1/4		1/4	
1/2	2,010.22	1/2	1,653.36	1/2	1,293.63	1/2	933.90	1/2	582.19	1/2	225.35	1/2		1/2		1/2		1/2	
3/4	2,002.80	3/4	1,645.87	3/4	1,286.14	3/4	926.41	3/4	574.93	3/4	217.85	3/4		3/4		3/4		3/4	
10	1,995.38	10	1,638.37	10	1,278.64	10	918.91	10	567.67	10	210.35	10		10		10		10	
1/4	1,987.96	1/4	1,630.88	1/4	1,271.15	1/4	911.42	1/4	560.40	1/4	202.85	1/4		1/4		1/4		1/4	
1/2	1,980.54	1/2	1,623.39	1/2	1,263.65	1/2	903.92	1/2	553.14	1/2	195.36	1/2		1/2		1/2		1/2	
3/4	1,973.12	3/4	1,615.89	3/4	1,256.16	3/4	896.43	3/4	545.88	3/4	187.86	3/4		3/4		3/4		3/4	
11	1,965.70	11	1,608.40	11	1,248.67	11	888.93	11	538.62	11	180.36	11		11		11		11	
1/4	1,958.27	1/4	1,600.90	1/4	1,241.17	1/4	881.44	1/4	531.35	1/4	172.87	1/4		1/4		1/4		1/4	
1/2	1,950.85	1/2	1,593.41	1/2	1,233.68	1/2	873.95	1/2	524.09	1/2	165.37	1/2		1/2		1/2		1/2	
3/4	1,943.43	3/4	1,585.91	3/4	1,226.18	3/4	866.45	3/4	516.83	3/4	157.87	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 02/15/2016 SW
CALCULATED: 02/15/2016 CL
PRINTED: 02/15/2016 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 02/2016

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



BARGE "EMS 394"

3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-04 3/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.		
0	0	0	0	0	0	0	4,492.25	0	4,241.14	0	3,968.79	0	3,677.51	0	3,382.02	0	3,021.45	0	2,660.78		
1/4		1/4		1/4		1/4	4,486.70	1/4	4,235.68	1/4	3,962.88	1/4	3,671.38	1/4	3,374.50	1/4	3,013.94	1/4	2,653.27		
1/2		1/2		1/2		1/2	4,481.16	1/2	4,230.22	1/2	3,956.97	1/2	3,665.26	1/2	3,366.98	1/2	3,006.43	1/2	2,645.75		
3/4		3/4		3/4		3/4	4,475.62	3/4	4,224.76	3/4	3,951.07	3/4	3,659.13	3/4	3,359.47	3/4	2,998.92	3/4	2,638.23		
1	1	1	1	1	1	1	4,470.61	1	4,219.27	1	3,945.12	1	3,653.00	1	3,351.95	1	2,991.41	1	2,630.72		
1/4		1/4		1/4		1/4	4,465.60	1/4	4,213.77	1/4	3,939.17	1/4	3,646.87	1/4	3,344.44	1/4	2,983.90	1/4	2,623.20		
1/2		1/2		1/2		1/2	4,460.59	1/2	4,208.27	1/2	3,933.23	1/2	3,640.75	1/2	3,336.92	1/2	2,976.39	1/2	2,615.68		
3/4		3/4		3/4		3/4	4,455.58	3/4	4,202.78	3/4	3,927.28	3/4	3,634.62	3/4	3,329.41	3/4	2,968.88	3/4	2,608.17		
2	2	2	2	2	2	2	4,450.53	2	4,197.24	2	3,921.30	2	3,628.49	2	3,321.89	2	2,961.37	2	2,600.65		
1/4		1/4		1/4		1/4	4,445.48	1/4	4,191.71	1/4	3,915.32	1/4	3,622.37	1/4	3,314.37	1/4	2,953.86	1/4	2,593.14		
1/2		1/2		1/2		1/2	4,440.43	1/2	4,186.18	1/2	3,909.34	1/2	3,616.24	1/2	3,306.86	1/2	2,946.35	1/2	2,585.62		
3/4		3/4		3/4		3/4	4,435.38	3/4	4,180.64	3/4	3,903.36	3/4	3,610.11	3/4	3,299.34	3/4	2,938.84	3/4	2,578.10		
3	3	3	3	3	3	3	4,430.29	3	4,175.07	3	3,897.34	3	3,603.98	3	3,291.83	3	2,931.33	3	2,570.59		
1/4		1/4		1/4		1/4	4,425.21	1/4	4,169.50	1/4	3,891.32	1/4	3,597.86	1/4	3,284.31	1/4	2,923.82	1/4	2,563.07		
1/2		1/2		1/2		1/2	4,420.12	1/2	4,163.93	1/2	3,885.30	1/2	3,591.73	1/2	3,276.80	1/2	2,916.31	1/2	2,555.55		
3/4		3/4		3/4		3/4	4,415.03	3/4	4,158.36	3/4	3,879.28	3/4	3,585.60	3/4	3,269.28	3/4	2,908.80	3/4	2,548.04		
4	4	4	4	4	4	4	4,409.91	4	4,152.75	4	3,873.22	4	3,579.48	4	3,261.76	4	2,901.29	4	2,540.52		
1/4		1/4		1/4		1/4	4,404.79	1/4	4,147.14	1/4	3,867.16	1/4	3,573.35	1/4	3,254.25	1/4	2,893.78	1/4	2,533.00		
1/2		1/2		1/2		1/2	4,399.66	1/2	4,141.53	1/2	3,861.10	1/2	3,567.22	1/2	3,246.73	1/2	2,886.28	1/2	2,525.49		
3/4		3/4		3/4		3/4	4,394.54	3/4	4,135.92	3/4	3,855.05	3/4	3,561.09	3/4	3,239.22	3/4	2,878.77	3/4	2,517.97		
5	5	5	5	5	5	5	4,389.38	5	4,130.28	5	3,848.95	5	3,554.97	5	3,231.71	5	2,871.25	5	2,510.45		
1/4		1/4		1/4		1/4	4,384.22	1/4	4,124.63	1/4	3,842.86	1/4	3,548.84	1/4	3,224.20	1/4	2,863.73	1/4	2,502.94		
1/2		1/2		1/2		1/2	4,379.06	1/2	4,118.99	1/2	3,836.76	1/2	3,542.71	1/2	3,216.69	1/2	2,856.22	1/2	2,495.42		
3/4		3/4		3/4		3/4	4,373.90	3/4	4,113.34	3/4	3,830.67	3/4	3,536.59	3/4	3,209.18	3/4	2,848.70	3/4	2,487.90		
6	6	6	6	6	6	6	4,368.70	6	4,107.66	6	3,824.55	6	3,530.46	6	3,201.67	6	2,841.18	6	2,480.39		
1/4		1/4		1/4		1/4	4,363.50	1/4	4,101.97	1/4	3,818.43	1/4	3,524.33	1/4	3,194.16	1/4	2,833.67	1/4	2,472.87		
1/2		1/2		1/2		1/2	4,358.30	1/2	4,096.29	1/2	3,812.30	1/2	3,518.20	1/2	3,186.65	1/2	2,826.15	1/2	2,465.35		
3/4		3/4		3/4		3/4	4,353.10	3/4	4,090.61	3/4	3,806.18	3/4	3,512.08	3/4	3,179.15	3/4	2,818.63	3/4	2,457.84		
7	7	7	7	7	7	7	4,618.96	7	4,347.87	7	4,084.89	7	3,800.05	7	3,505.95	7	3,171.64	7	2,450.32		
1/4		1/4		1/4		1/4	4,613.61	1/4	4,342.63	1/4	4,079.16	1/4	3,793.93	1/4	3,499.82	1/4	3,164.13	1/4	2,803.60	1/4	2,442.80
1/2		1/2		1/2		1/2	4,608.27	1/2	4,337.39	1/2	4,073.44	1/2	3,787.80	1/2	3,493.69	1/2	3,156.62	1/2	2,796.08	1/2	2,435.29
3/4		3/4		3/4		3/4	4,602.93	3/4	4,332.16	3/4	4,067.72	3/4	3,781.67	3/4	3,487.57	3/4	3,149.11	3/4	2,788.57	3/4	2,427.77
8	8	8	8	8	8	8	4,596.22	8	4,326.89	8	4,061.96	8	3,775.55	8	3,481.44	8	3,141.60	8	2,781.05	8	2,420.25
1/4		1/4		1/4		1/4	4,589.51	1/4	4,321.61	1/4	4,056.21	1/4	3,769.42	1/4	3,475.31	1/4	3,134.09	1/4	2,773.53	1/4	2,412.74
1/2		1/2		1/2		1/2	4,582.80	1/2	4,316.34	1/2	4,050.45	1/2	3,763.29	1/2	3,469.19	1/2	3,126.58	1/2	2,766.02	1/2	2,405.22
3/4		3/4		3/4		3/4	4,576.09	3/4	4,311.07	3/4	4,044.69	3/4	3,757.16	3/4	3,463.06	3/4	3,119.07	3/4	2,758.50	3/4	2,397.70
9	9	9	9	9	9	9	4,568.70	9	4,305.75	9	4,038.89	9	3,751.04	9	3,456.93	9	3,111.56	9	2,750.98	9	2,390.19
1/4		1/4		1/4		1/4	4,561.30	1/4	4,300.44	1/4	4,033.10	1/4	3,744.91	1/4	3,450.80	1/4	3,104.05	1/4	2,743.47	1/4	2,382.67
1/2		1/2		1/2		1/2	4,553.91	1/2	4,295.13	1/2	4,027.30	1/2	3,738.78	1/2	3,444.68	1/2	3,096.54	1/2	2,735.95	1/2	2,375.15
3/4		3/4		3/4		3/4	4,546.52	3/4	4,289.82	3/4	4,021.51	3/4	3,732.66	3/4	3,438.55	3/4	3,089.03	3/4	2,728.43	3/4	2,367.64
10	10	10	10	10	10	10	4,540.43	10	4,284.44	10	4,015.68	10	3,726.53	10	3,432.42	10	3,081.52	10	2,720.92	10	2,360.12
1/4		1/4		1/4		1/4	4,534.33	1/4	4,279.05	1/4	4,009.84	1/4	3,720.40	1/4	3,426.30	1/4	3,074.01	1/4	2,713.40	1/4	2,352.60
1/2		1/2		1/2		1/2	4,528.24	1/2	4,273.67	1/2	4,004.01	1/2	3,714.27	1/2	3,420.17	1/2	3,066.50	1/2	2,705.88	1/2	2,345.09
3/4		3/4		3/4		3/4	4,522.15	3/4	4,268.29	3/4	3,998.18	3/4	3,708.15	3/4	3,414.04	3/4	3,058.99	3/4	2,698.37	3/4	2,337.57
11	11	11	11	11	11	11	4,516.06	11	4,262.86	11	3,992.31	11	3,702.02	11	3,407.91	11	3,051.48	11	2,690.85	11	2,330.05
1/4		1/4		1/4		1/4	4,509.97	1/4	4,257.44	1/4	3,986.44	1/4	3,695.89	1/4	3,401.79	1/4	3,043.97	1/4	2,683.33	1/4	2,322.54
1/2		1/2		1/2		1/2	4,503.88	1/2	4,252.02	1/2	3,980.57	1/2	3,689.77	1/2	3,395.66	1/2	3,036.47	1/2	2,675.82	1/2	2,315.02
3/4		3/4		3/4		3/4	4,497.79	3/4	4,246.60	3/4	3,974.70	3/4	3,683.64	3/4	3,389.53	3/4	3,028.96	3/4	2,668.30	3/4	2,307.50

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'-00" FORWARD OF AFT BULKHEAD

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



BARGE "EMS 394"

3 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	2,299.99	0	1,939.63	0	1,579.55	0	1,218.91	0	858.46	0	510.72	0	150.73	0		0		0	
1/4	2,292.47	1/4	1,932.13	1/4	1,572.04	1/4	1,211.40	1/4	850.96	1/4	503.49	1/4	143.21	1/4		1/4		1/4	
1/2	2,284.95	1/2	1,924.64	1/2	1,564.53	1/2	1,203.89	1/2	843.45	1/2	496.25	1/2	135.69	1/2		1/2		1/2	
3/4	2,277.44	3/4	1,917.15	3/4	1,557.01	3/4	1,196.37	3/4	835.95	3/4	489.01	3/4	128.17	3/4		3/4		3/4	
1	2,269.92	1	1,909.65	1	1,549.50	1	1,188.86	1	828.72	1	481.50	1	120.66	1		1		1	
1/4	2,262.40	1/4	1,902.16	1/4	1,541.99	1/4	1,181.35	1/4	821.50	1/4	473.98	1/4	113.14	1/4		1/4		1/4	
1/2	2,254.89	1/2	1,894.67	1/2	1,534.47	1/2	1,173.83	1/2	814.27	1/2	466.46	1/2	105.62	1/2		1/2		1/2	
3/4	2,247.37	3/4	1,887.17	3/4	1,526.96	3/4	1,166.32	3/4	807.04	3/4	458.94	3/4	98.10	3/4		3/4		3/4	
2	2,239.85	2	1,879.68	2	1,519.45	2	1,158.81	2	799.82	2	451.43	2	90.59	2		2		2	
1/4	2,232.34	1/4	1,872.18	1/4	1,511.93	1/4	1,151.29	1/4	792.59	1/4	443.91	1/4	83.07	1/4		1/4		1/4	
1/2	2,224.82	1/2	1,864.69	1/2	1,504.42	1/2	1,143.78	1/2	785.36	1/2	436.39	1/2	75.55	1/2		1/2		1/2	
3/4	2,217.31	3/4	1,857.20	3/4	1,496.91	3/4	1,136.27	3/4	778.14	3/4	428.87	3/4	68.03	3/4		3/4		3/4	
3	2,209.79	3	1,849.70	3	1,489.39	3	1,128.76	3	770.90	3	421.36	3	60.78	3		3		3	
1/4	2,202.27	1/4	1,842.21	1/4	1,481.88	1/4	1,121.24	1/4	763.66	1/4	413.84	1/4	53.54	1/4		1/4		1/4	
1/2	2,194.76	1/2	1,834.72	1/2	1,474.37	1/2	1,113.73	1/2	756.42	1/2	406.32	1/2	46.29	1/2		1/2		1/2	
3/4	2,187.24	3/4	1,827.22	3/4	1,466.85	3/4	1,106.22	3/4	749.19	3/4	398.80	3/4	39.04	3/4		3/4		3/4	
4	2,179.72	4	1,819.73	4	1,459.34	4	1,098.70	4	741.96	4	391.29	4	33.67	4		4		4	
1/4	2,172.21	1/4	1,812.23	1/4	1,451.83	1/4	1,091.19	1/4	734.73	1/4	383.77	1/4	28.30	1/4		1/4		1/4	
1/2	2,164.69	1/2	1,804.74	1/2	1,444.31	1/2	1,083.68	1/2	727.50	1/2	376.25	1/2	22.93	1/2		1/2		1/2	
3/4	2,157.17	3/4	1,797.25	3/4	1,436.80	3/4	1,076.16	3/4	720.28	3/4	368.73	3/4	17.56	3/4		3/4		3/4	
5	2,149.66	5	1,789.75	5	1,429.29	5	1,068.65	5	713.05	5	361.22	5		5		5		5	
1/4	2,142.14	1/4	1,782.26	1/4	1,421.77	1/4	1,061.14	1/4	705.82	1/4	353.70	1/4		1/4		1/4		1/4	
1/2	2,134.62	1/2	1,774.77	1/2	1,414.26	1/2	1,053.62	1/2	698.60	1/2	346.18	1/2		1/2		1/2		1/2	
3/4	2,127.11	3/4	1,767.27	3/4	1,406.75	3/4	1,046.11	3/4	691.37	3/4	338.66	3/4		3/4		3/4		3/4	
6	2,119.59	6	1,759.78	6	1,399.23	6	1,038.60	6	684.14	6	331.15	6		6		6		6	
1/4	2,112.07	1/4	1,752.28	1/4	1,391.72	1/4	1,031.08	1/4	676.92	1/4	323.63	1/4		1/4		1/4		1/4	
1/2	2,104.56	1/2	1,744.79	1/2	1,384.21	1/2	1,023.57	1/2	669.69	1/2	316.11	1/2		1/2		1/2		1/2	
3/4	2,097.04	3/4	1,737.30	3/4	1,376.69	3/4	1,016.06	3/4	662.46	3/4	308.59	3/4		3/4		3/4		3/4	
7	2,089.53	7	1,729.79	7	1,369.18	7	1,008.55	7	655.24	7	301.08	7		7		7		7	
1/4	2,082.03	1/4	1,722.29	1/4	1,361.67	1/4	1,001.05	1/4	648.02	1/4	293.56	1/4		1/4		1/4		1/4	
1/2	2,074.53	1/2	1,714.78	1/2	1,354.15	1/2	993.54	1/2	640.80	1/2	286.04	1/2		1/2		1/2		1/2	
3/4	2,067.02	3/4	1,707.28	3/4	1,346.64	3/4	986.04	3/4	633.57	3/4	278.52	3/4		3/4		3/4		3/4	
8	2,059.53	8	1,699.77	8	1,339.13	8	978.53	8	626.35	8	271.01	8		8		8		8	
1/4	2,052.03	1/4	1,692.25	1/4	1,331.61	1/4	971.03	1/4	619.13	1/4	263.49	1/4		1/4		1/4		1/4	
1/2	2,044.54	1/2	1,684.74	1/2	1,324.10	1/2	963.52	1/2	611.91	1/2	255.97	1/2		1/2		1/2		1/2	
3/4	2,037.05	3/4	1,677.23	3/4	1,316.59	3/4	956.02	3/4	604.68	3/4	248.45	3/4		3/4		3/4		3/4	
9	2,029.55	9	1,669.71	9	1,309.07	9	948.52	9	597.46	9	240.94	9		9		9		9	
1/4	2,022.06	1/4	1,662.20	1/4	1,301.56	1/4	941.01	1/4	590.23	1/4	233.42	1/4		1/4		1/4		1/4	
1/2	2,014.56	1/2	1,654.69	1/2	1,294.05	1/2	933.51	1/2	583.00	1/2	225.90	1/2		1/2		1/2		1/2	
3/4	2,007.07	3/4	1,647.17	3/4	1,286.53	3/4	926.00	3/4	575.78	3/4	218.38	3/4		3/4		3/4		3/4	
10	1,999.58	10	1,639.66	10	1,279.02	10	918.50	10	568.55	10	210.87	10		10		10		10	
1/4	1,992.08	1/4	1,632.15	1/4	1,271.51	1/4	910.99	1/4	561.32	1/4	203.35	1/4		1/4		1/4		1/4	
1/2	1,984.59	1/2	1,624.63	1/2	1,263.99	1/2	903.49	1/2	554.10	1/2	195.83	1/2		1/2		1/2		1/2	
3/4	1,977.10	3/4	1,617.12	3/4	1,256.48	3/4	895.99	3/4	546.87	3/4	188.31	3/4		3/4		3/4		3/4	
11	1,969.60	11	1,609.61	11	1,248.97	11	888.48	11	539.64	11	180.80	11		11		11		11	
1/4	1,962.11	1/4	1,602.09	1/4	1,241.45	1/4	880.98	1/4	532.41	1/4	173.28	1/4		1/4		1/4		1/4	
1/2	1,954.61	1/2	1,594.58	1/2	1,233.94	1/2	873.47	1/2	525.19	1/2	165.76	1/2		1/2		1/2		1/2	
3/4	1,947.12	3/4	1,587.07	3/4	1,226.43	3/4	865.97	3/4	517.96	3/4	158.24	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 02/15/2016 SW
CALCULATED: 02/15/2016 CL
PRINTED: 02/15/2016 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 02/2016

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



BARGE "EMS 394"

2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-04 1/2"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	0	0	0	0	0	0	5,114.84	0	4,774.22	0	4,409.91	0	4,025.54	0	3,638.37	0	3,251.16	0	2,863.92
1/4		1/4		1/4		1/4	5,107.41	1/4	4,766.87	1/4	4,402.08	1/4	4,017.48	1/4	3,630.30	1/4	3,243.09	1/4	2,855.85
1/2		1/2		1/2		1/2	5,099.98	1/2	4,759.52	1/2	4,394.25	1/2	4,009.41	1/2	3,622.23	1/2	3,235.02	1/2	2,847.78
3/4		3/4		3/4		3/4	5,093.12	3/4	4,752.13	3/4	4,386.38	3/4	4,001.34	3/4	3,614.17	3/4	3,226.96	3/4	2,839.72
1	1	1	1	1	1	1	5,086.26	1	4,744.75	1	4,378.51	1	3,993.28	1	3,606.10	1	3,218.89	1	2,831.65
1/4		1/4		1/4		1/4	5,079.40	1/4	4,737.36	1/4	4,370.64	1/4	3,985.21	1/4	3,598.03	1/4	3,210.82	1/4	2,823.58
1/2		1/2		1/2		1/2	5,072.54	1/2	4,729.97	1/2	4,362.77	1/2	3,977.15	1/2	3,589.97	1/2	3,202.75	1/2	2,815.51
3/4		3/4		3/4		3/4	5,065.64	3/4	4,722.54	3/4	4,354.86	3/4	3,969.08	3/4	3,581.90	3/4	3,194.69	3/4	2,807.45
2	2	2	2	2	2	2	5,058.74	2	4,715.11	2	4,346.95	2	3,961.01	2	3,573.84	2	3,186.62	2	2,799.38
1/4		1/4		1/4		1/4	5,051.84	1/4	4,707.68	1/4	4,339.04	1/4	3,952.95	1/4	3,565.77	1/4	3,178.55	1/4	2,791.31
1/2		1/2		1/2		1/2	5,044.94	1/2	4,700.25	1/2	4,331.13	1/2	3,944.88	1/2	3,557.70	1/2	3,170.48	1/2	2,783.24
3/4		3/4		3/4		3/4	5,038.00	3/4	4,692.78	3/4	4,323.18	3/4	3,936.82	3/4	3,549.64	3/4	3,162.42	3/4	2,775.18
3	3	3	3	3	3	3	5,031.06	3	4,685.31	3	4,315.23	3	3,928.75	3	3,541.57	3	3,154.35	3	2,767.11
1/4		1/4		1/4		1/4	5,024.11	1/4	4,677.84	1/4	4,307.27	1/4	3,920.68	1/4	3,533.51	1/4	3,146.28	1/4	2,759.04
1/2		1/2		1/2		1/2	5,017.17	1/2	4,670.37	1/2	4,299.32	1/2	3,912.62	1/2	3,525.44	1/2	3,138.21	1/2	2,750.97
3/4		3/4		3/4		3/4	5,010.19	3/4	4,662.86	3/4	4,291.33	3/4	3,904.55	3/4	3,517.37	3/4	3,130.15	3/4	2,742.91
4	4	4	4	4	4	4	5,003.21	4	4,655.35	4	4,283.34	4	3,896.48	4	3,509.31	4	3,122.08	4	2,734.84
1/4		1/4		1/4		1/4	4,996.23	1/4	4,647.85	1/4	4,275.35	1/4	3,888.42	1/4	3,501.24	1/4	3,114.01	1/4	2,726.77
1/2		1/2		1/2		1/2	4,989.25	1/2	4,640.34	1/2	4,267.36	1/2	3,880.35	1/2	3,493.17	1/2	3,105.94	1/2	2,718.70
3/4		3/4		3/4		3/4	4,982.23	3/4	4,632.79	3/4	4,259.33	3/4	3,872.29	3/4	3,485.11	3/4	3,097.88	3/4	2,710.64
5	5	5	5	5	5	5	4,975.21	5	4,625.24	5	4,251.30	5	3,864.22	5	3,477.04	5	3,089.81	5	2,702.57
1/4		1/4		1/4		1/4	4,968.19	1/4	4,617.69	1/4	4,243.27	1/4	3,856.15	1/4	3,468.98	1/4	3,081.74	1/4	2,694.50
1/2		1/2		1/2		1/2	4,961.17	1/2	4,610.14	1/2	4,235.23	1/2	3,848.09	1/2	3,460.91	1/2	3,073.67	1/2	2,686.43
3/4		3/4		3/4		3/4	4,954.11	3/4	4,602.55	3/4	4,227.18	3/4	3,840.02	3/4	3,452.84	3/4	3,065.61	3/4	2,678.37
6	6	6	6	6	6	6	4,947.05	6	4,594.96	6	4,219.12	6	3,831.95	6	3,444.78	6	3,057.54	6	2,670.30
1/4		1/4		1/4		1/4	4,939.99	1/4	4,587.37	1/4	4,211.06	1/4	3,823.89	1/4	3,436.71	1/4	3,049.47	1/4	2,662.23
1/2		1/2		1/2		1/2	4,932.92	1/2	4,579.78	1/2	4,203.00	1/2	3,815.82	1/2	3,428.64	1/2	3,041.40	1/2	2,654.16
3/4		3/4		3/4		3/4	5,271.59	3/4	4,925.82	3/4	4,572.15	3/4	4,194.93	3/4	3,807.76	3/4	3,420.58	3/4	3,033.34
7	7	7	7	7	7	7	5,265.86	7	4,918.72	7	4,564.52	7	4,186.87	7	3,799.69	7	3,412.51	7	3,025.27
1/4		1/4		1/4		1/4	5,260.13	1/4	4,911.62	1/4	4,556.89	1/4	4,178.80	1/4	3,791.62	1/4	3,404.44	1/4	3,017.20
1/2		1/2		1/2		1/2	5,254.39	1/2	4,904.52	1/2	4,549.26	1/2	4,170.73	1/2	3,783.56	1/2	3,396.37	1/2	3,009.13
3/4		3/4		3/4		3/4	5,247.19	3/4	4,897.38	3/4	4,541.59	3/4	4,162.67	3/4	3,775.49	3/4	3,388.31	3/4	3,001.07
8	8	8	8	8	8	8	5,239.99	8	4,890.24	8	4,533.92	8	4,154.60	8	3,767.42	8	3,380.24	8	2,993.00
1/4		1/4		1/4		1/4	5,232.79	1/4	4,883.10	1/4	4,526.25	1/4	4,146.54	1/4	3,759.36	1/4	3,372.17	1/4	2,984.93
1/2		1/2		1/2		1/2	5,225.59	1/2	4,875.95	1/2	4,518.58	1/2	4,138.47	1/2	3,751.29	1/2	3,364.10	1/2	2,976.86
3/4		3/4		3/4		3/4	5,217.65	3/4	4,868.77	3/4	4,510.87	3/4	4,130.40	3/4	3,743.23	3/4	3,356.04	3/4	2,968.80
9	9	9	9	9	9	9	5,209.72	9	4,861.59	9	4,503.16	9	4,122.34	9	3,735.16	9	3,347.97	9	2,960.73
1/4		1/4		1/4		1/4	5,201.79	1/4	4,854.41	1/4	4,495.45	1/4	4,114.27	1/4	3,727.09	1/4	3,339.90	1/4	2,952.66
1/2		1/2		1/2		1/2	5,193.85	1/2	4,847.23	1/2	4,487.74	1/2	4,106.21	1/2	3,719.03	1/2	3,331.83	1/2	2,944.59
3/4		3/4		3/4		3/4	5,185.83	3/4	4,839.96	3/4	4,479.99	3/4	4,098.14	3/4	3,710.96	3/4	3,323.77	3/4	2,936.53
10	10	10	10	10	10	10	5,177.81	10	4,832.69	10	4,472.24	10	4,090.07	10	3,702.90	10	3,315.70	10	2,928.46
1/4		1/4		1/4		1/4	5,169.79	1/4	4,825.42	1/4	4,464.49	1/4	4,082.01	1/4	3,694.83	1/4	3,307.63	1/4	2,920.39
1/2		1/2		1/2		1/2	5,161.77	1/2	4,818.15	1/2	4,456.74	1/2	4,073.94	1/2	3,686.76	1/2	3,299.56	1/2	2,912.32
3/4		3/4		3/4		3/4	5,153.76	3/4	4,810.85	3/4	4,448.95	3/4	4,065.87	3/4	3,678.70	3/4	3,291.50	3/4	2,904.26
11	11	11	11	11	11	11	5,145.74	11	4,803.54	11	4,441.16	11	4,057.81	11	3,670.63	11	3,283.43	11	2,896.19
1/4		1/4		1/4		1/4	5,137.72	1/4	4,796.23	1/4	4,433.37	1/4	4,049.74	1/4	3,662.56	1/4	3,275.36	1/4	2,888.12
1/2		1/2		1/2		1/2	5,129.70	1/2	4,788.92	1/2	4,425.58	1/2	4,041.68	1/2	3,654.50	1/2	3,267.29	1/2	2,880.05
3/4		3/4		3/4		3/4	5,122.27	3/4	4,781.57	3/4	4,417.75	3/4	4,033.61	3/4	3,646.43	3/4	3,259.23	3/4	2,871.99

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'-03" FORWARD OF AFT BULKHEAD

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092
Pearland, Texas 77588
<http://www.pmacorp.net>



BARGE "EMS 394"

2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-04 1/2"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,476.68	0	2,089.44	0	1,702.20	0	1,314.96	0	927.72	0	540.85	0	153.64	0		0		0	
1/4	2,468.61	1/4	2,081.37	1/4	1,694.13	1/4	1,306.89	1/4	919.65	1/4	532.78	1/4	145.58	1/4		1/4		1/4	
1/2	2,460.54	1/2	2,073.30	1/2	1,686.06	1/2	1,298.82	1/2	911.58	1/2	524.72	1/2	137.51	1/2		1/2		1/2	
3/4	2,452.48	3/4	2,065.24	3/4	1,678.00	3/4	1,290.76	3/4	903.52	3/4	516.65	3/4	129.44	3/4		3/4		3/4	
1	2,444.41	1	2,057.17	1	1,669.93	1	1,282.69	1	895.45	1	508.58	1	121.38	1		1		1	
1/4	2,436.34	1/4	2,049.10	1/4	1,661.86	1/4	1,274.62	1/4	887.38	1/4	500.52	1/4	113.31	1/4		1/4		1/4	
1/2	2,428.27	1/2	2,041.03	1/2	1,653.79	1/2	1,266.55	1/2	879.31	1/2	492.45	1/2	105.24	1/2		1/2		1/2	
3/4	2,420.21	3/4	2,032.97	3/4	1,645.73	3/4	1,258.49	3/4	871.25	3/4	484.38	3/4	97.18	3/4		3/4		3/4	
2	2,412.14	2	2,024.90	2	1,637.66	2	1,250.42	2	863.18	2	476.32	2	89.11	2		2		2	
1/4	2,404.07	1/4	2,016.83	1/4	1,629.59	1/4	1,242.35	1/4	855.11	1/4	468.25	1/4	81.04	1/4		1/4		1/4	
1/2	2,396.00	1/2	2,008.76	1/2	1,621.52	1/2	1,234.28	1/2	847.04	1/2	460.18	1/2	72.98	1/2		1/2		1/2	
3/4	2,387.94	3/4	2,000.70	3/4	1,613.46	3/4	1,226.22	3/4	838.98	3/4	452.11	3/4	65.20	3/4		3/4		3/4	
3	2,379.87	3	1,992.63	3	1,605.39	3	1,218.15	3	830.91	3	444.05	3	57.42	3		3		3	
1/4	2,371.80	1/4	1,984.56	1/4	1,597.32	1/4	1,210.08	1/4	822.84	1/4	435.98	1/4	49.64	1/4		1/4		1/4	
1/2	2,363.73	1/2	1,976.49	1/2	1,589.25	1/2	1,202.01	1/2	814.77	1/2	427.91	1/2	41.86	1/2		1/2		1/2	
3/4	2,355.67	3/4	1,968.43	3/4	1,581.19	3/4	1,193.95	3/4	806.72	3/4	419.85	3/4	36.10	3/4		3/4		3/4	
4	2,347.60	4	1,960.36	4	1,573.12	4	1,185.88	4	798.66	4	411.78	4	30.34	4		4		4	
1/4	2,339.53	1/4	1,952.29	1/4	1,565.05	1/4	1,177.81	1/4	790.60	1/4	403.71	1/4	24.58	1/4		1/4		1/4	
1/2	2,331.46	1/2	1,944.22	1/2	1,556.98	1/2	1,169.74	1/2	782.55	1/2	395.65	1/2	18.82	1/2		1/2		1/2	
3/4	2,323.40	3/4	1,936.16	3/4	1,548.92	3/4	1,161.68	3/4	774.49	3/4	387.58	3/4		3/4		3/4		3/4	
5	2,315.33	5	1,928.09	5	1,540.85	5	1,153.61	5	766.43	5	379.51	5		5		5		5	
1/4	2,307.26	1/4	1,920.02	1/4	1,532.78	1/4	1,145.54	1/4	758.38	1/4	371.45	1/4		1/4		1/4		1/4	
1/2	2,299.19	1/2	1,911.95	1/2	1,524.71	1/2	1,137.47	1/2	750.32	1/2	363.38	1/2		1/2		1/2		1/2	
3/4	2,291.13	3/4	1,903.89	3/4	1,516.65	3/4	1,129.41	3/4	742.26	3/4	355.31	3/4		3/4		3/4		3/4	
6	2,283.06	6	1,895.82	6	1,508.58	6	1,121.34	6	734.20	6	347.25	6		6		6		6	
1/4	2,274.99	1/4	1,887.75	1/4	1,500.51	1/4	1,113.27	1/4	726.15	1/4	339.18	1/4		1/4		1/4		1/4	
1/2	2,266.92	1/2	1,879.68	1/2	1,492.44	1/2	1,105.20	1/2	718.09	1/2	331.11	1/2		1/2		1/2		1/2	
3/4	2,258.86	3/4	1,871.62	3/4	1,484.38	3/4	1,097.14	3/4	710.04	3/4	323.05	3/4		3/4		3/4		3/4	
7	2,250.79	7	1,863.55	7	1,476.31	7	1,089.07	7	701.99	7	314.98	7		7		7		7	
1/4	2,242.72	1/4	1,855.48	1/4	1,468.24	1/4	1,081.00	1/4	693.93	1/4	306.91	1/4		1/4		1/4		1/4	
1/2	2,234.65	1/2	1,847.41	1/2	1,460.17	1/2	1,072.93	1/2	685.88	1/2	298.85	1/2		1/2		1/2		1/2	
3/4	2,226.59	3/4	1,839.35	3/4	1,452.11	3/4	1,064.87	3/4	677.83	3/4	290.78	3/4		3/4		3/4		3/4	
8	2,218.52	8	1,831.28	8	1,444.04	8	1,056.80	8	669.77	8	282.71	8		8		8		8	
1/4	2,210.45	1/4	1,823.21	1/4	1,435.97	1/4	1,048.73	1/4	661.72	1/4	274.65	1/4		1/4		1/4		1/4	
1/2	2,202.38	1/2	1,815.14	1/2	1,427.90	1/2	1,040.66	1/2	653.67	1/2	266.58	1/2		1/2		1/2		1/2	
3/4	2,194.32	3/4	1,807.08	3/4	1,419.84	3/4	1,032.60	3/4	645.61	3/4	258.51	3/4		3/4		3/4		3/4	
9	2,186.25	9	1,799.01	9	1,411.77	9	1,024.53	9	637.56	9	250.44	9		9		9		9	
1/4	2,178.18	1/4	1,790.94	1/4	1,403.70	1/4	1,016.46	1/4	629.50	1/4	242.38	1/4		1/4		1/4		1/4	
1/2	2,170.11	1/2	1,782.87	1/2	1,395.63	1/2	1,008.39	1/2	621.44	1/2	234.31	1/2		1/2		1/2		1/2	
3/4	2,162.05	3/4	1,774.81	3/4	1,387.57	3/4	1,000.33	3/4	613.38	3/4	226.24	3/4		3/4		3/4		3/4	
10	2,153.98	10	1,766.74	10	1,379.50	10	992.26	10	605.33	10	218.18	10		10		10		10	
1/4	2,145.91	1/4	1,758.67	1/4	1,371.43	1/4	984.19	1/4	597.27	1/4	210.11	1/4		1/4		1/4		1/4	
1/2	2,137.84	1/2	1,750.60	1/2	1,363.36	1/2	976.12	1/2	589.21	1/2	202.04	1/2		1/2		1/2		1/2	
3/4	2,129.78	3/4	1,742.54	3/4	1,355.30	3/4	968.06	3/4	581.15	3/4	193.98	3/4		3/4		3/4		3/4	
11	2,121.71	11	1,734.47	11	1,347.23	11	959.99	11	573.10	11	185.91	11		11		11		11	
1/4	2,113.64	1/4	1,726.40	1/4	1,339.16	1/4	951.92	1/4	565.04	1/4	177.84	1/4		1/4		1/4		1/4	
1/2	2,105.57	1/2	1,718.33	1/2	1,331.09	1/2	943.85	1/2	556.98	1/2	169.78	1/2		1/2		1/2		1/2	
3/4	2,097.51	3/4	1,710.27	3/4	1,323.03	3/4	935.79	3/4	548.92	3/4	161.71	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 02/15/2016 SW
CALCULATED: 02/15/2016 CL
PRINTED: 02/15/2016 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 02/2016

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



BARGE "EMS 394"

2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-04 1/2"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0		0		0	5,108.49	0	4,767.30	0	4,402.39	0	4,017.38	0	3,629.56	0	3,241.71	0	2,853.82
1/4		1/4		1/4		1/4	5,101.05	1/4	4,759.94	1/4	4,394.54	1/4	4,009.30	1/4	3,621.48	1/4	3,233.62	1/4	2,845.74
1/2		1/2		1/2		1/2	5,093.60	1/2	4,752.58	1/2	4,386.70	1/2	4,001.22	1/2	3,613.40	1/2	3,225.54	1/2	2,837.66
3/4		3/4		3/4		3/4	5,086.73	3/4	4,745.18	3/4	4,378.82	3/4	3,993.14	3/4	3,605.32	3/4	3,217.46	3/4	2,829.57
1		1		1		1	5,079.86	1	4,737.78	1	4,370.93	1	3,985.06	1	3,597.24	1	3,209.38	1	2,821.49
1/4		1/4		1/4		1/4	5,072.99	1/4	4,730.38	1/4	4,363.05	1/4	3,976.98	1/4	3,589.16	1/4	3,201.30	1/4	2,813.41
1/2		1/2		1/2		1/2	5,066.12	1/2	4,722.98	1/2	4,355.17	1/2	3,968.90	1/2	3,581.08	1/2	3,193.22	1/2	2,805.33
3/4		3/4		3/4		3/4	5,059.21	3/4	4,715.53	3/4	4,347.24	3/4	3,960.82	3/4	3,573.00	3/4	3,185.14	3/4	2,797.25
2		2		2		2	5,052.29	2	4,708.09	2	4,339.32	2	3,952.74	2	3,564.92	2	3,177.06	2	2,789.17
1/4		1/4		1/4		1/4	5,045.38	1/4	4,700.65	1/4	4,331.39	1/4	3,944.66	1/4	3,556.84	1/4	3,168.98	1/4	2,781.09
1/2		1/2		1/2		1/2	5,038.47	1/2	4,693.21	1/2	4,323.47	1/2	3,936.58	1/2	3,548.76	1/2	3,160.90	1/2	2,773.01
3/4		3/4		3/4		3/4	5,031.52	3/4	4,685.73	3/4	4,315.50	3/4	3,928.50	3/4	3,540.68	3/4	3,152.81	3/4	2,764.93
3		3		3		3	5,024.57	3	4,678.25	3	4,307.54	3	3,920.42	3	3,532.60	3	3,144.73	3	2,756.85
1/4		1/4		1/4		1/4	5,017.61	1/4	4,670.76	1/4	4,299.58	1/4	3,912.34	1/4	3,524.52	1/4	3,136.65	1/4	2,748.76
1/2		1/2		1/2		1/2	5,010.66	1/2	4,663.28	1/2	4,291.61	1/2	3,904.26	1/2	3,516.44	1/2	3,128.57	1/2	2,740.68
3/4		3/4		3/4		3/4	5,003.67	3/4	4,655.76	3/4	4,283.61	3/4	3,896.18	3/4	3,508.36	3/4	3,120.49	3/4	2,732.60
4		4		4		4	4,996.68	4	4,648.24	4	4,275.60	4	3,888.10	4	3,500.28	4	3,112.41	4	2,724.52
1/4		1/4		1/4		1/4	4,989.68	1/4	4,640.72	1/4	4,267.60	1/4	3,880.03	1/4	3,492.20	1/4	3,104.33	1/4	2,716.44
1/2		1/2		1/2		1/2	4,982.69	1/2	4,633.19	1/2	4,259.59	1/2	3,871.95	1/2	3,484.12	1/2	3,096.25	1/2	2,708.36
3/4		3/4		3/4		3/4	4,975.66	3/4	4,625.63	3/4	4,251.55	3/4	3,863.87	3/4	3,476.05	3/4	3,088.17	3/4	2,700.28
5		5		5		5	4,968.63	5	4,618.07	5	4,243.51	5	3,855.79	5	3,467.97	5	3,080.09	5	2,692.20
1/4		1/4		1/4		1/4	4,961.59	1/4	4,610.51	1/4	4,235.46	1/4	3,847.71	1/4	3,459.89	1/4	3,072.00	1/4	2,684.12
1/2		1/2		1/2		1/2	4,954.56	1/2	4,602.94	1/2	4,227.42	1/2	3,839.63	1/2	3,451.81	1/2	3,063.92	1/2	2,676.04
3/4		3/4		3/4		3/4	4,947.49	3/4	4,595.34	3/4	4,219.34	3/4	3,831.55	3/4	3,443.73	3/4	3,055.84	3/4	2,667.95
6		6		6		6	4,940.42	6	4,587.74	6	4,211.27	6	3,823.47	6	3,435.65	6	3,047.76	6	2,659.87
1/4		1/4		1/4		1/4	4,933.34	1/4	4,580.14	1/4	4,203.20	1/4	3,815.39	1/4	3,427.57	1/4	3,039.68	1/4	2,651.79
1/2		1/2		1/2		1/2	4,926.27	1/2	4,572.54	1/2	4,195.13	1/2	3,807.31	1/2	3,419.49	1/2	3,031.60	1/2	2,643.71
3/4		3/4		3/4		3/4	5,265.51	3/4	4,919.16	3/4	4,564.89	3/4	4,187.05	3/4	3,799.23	3/4	3,411.41	3/4	3,023.52
7		7		7		7	5,259.76	7	4,912.04	7	4,557.25	7	4,178.97	7	3,791.15	7	3,403.33	7	3,015.44
1/4		1/4		1/4		1/4	5,254.02	1/4	4,904.93	1/4	4,549.61	1/4	4,170.89	1/4	3,783.07	1/4	3,395.24	1/4	3,007.36
1/2		1/2		1/2		1/2	5,248.28	1/2	4,897.82	1/2	4,541.96	1/2	4,162.81	1/2	3,774.99	1/2	3,387.16	1/2	2,999.28
3/4		3/4		3/4		3/4	5,241.06	3/4	4,890.67	3/4	4,534.28	3/4	4,154.73	3/4	3,766.91	3/4	3,379.08	3/4	2,991.19
8		8		8		8	5,233.85	8	4,883.51	8	4,526.60	8	4,146.65	8	3,758.83	8	3,371.00	8	2,983.11
1/4		1/4		1/4		1/4	5,226.64	1/4	4,876.36	1/4	4,518.92	1/4	4,138.57	1/4	3,750.75	1/4	3,362.92	1/4	2,975.03
1/2		1/2		1/2		1/2	5,219.42	1/2	4,869.21	1/2	4,511.23	1/2	4,130.49	1/2	3,742.67	1/2	3,354.84	1/2	2,966.95
3/4		3/4		3/4		3/4	5,211.48	3/4	4,862.01	3/4	4,503.51	3/4	4,122.41	3/4	3,734.59	3/4	3,346.76	3/4	2,958.87
9		9		9		9	5,203.53	9	4,854.82	9	4,495.79	9	4,114.33	9	3,726.51	9	3,338.68	9	2,950.79
1/4		1/4		1/4		1/4	5,195.58	1/4	4,847.63	1/4	4,488.06	1/4	4,106.25	1/4	3,718.43	1/4	3,330.60	1/4	2,942.71
1/2		1/2		1/2		1/2	5,187.63	1/2	4,840.43	1/2	4,480.34	1/2	4,098.17	1/2	3,710.35	1/2	3,322.52	1/2	2,934.63
3/4		3/4		3/4		3/4	5,179.60	3/4	4,833.15	3/4	4,472.58	3/4	4,090.09	3/4	3,702.27	3/4	3,314.43	3/4	2,926.55
10		10		10		10	5,171.57	10	4,825.87	10	4,464.82	10	4,082.02	10	3,694.19	10	3,306.35	10	2,918.47
1/4		1/4		1/4		1/4	5,163.54	1/4	4,818.59	1/4	4,457.05	1/4	4,073.94	1/4	3,686.11	1/4	3,298.27	1/4	2,910.38
1/2		1/2		1/2		1/2	5,155.50	1/2	4,811.31	1/2	4,449.29	1/2	4,065.86	1/2	3,678.04	1/2	3,290.19	1/2	2,902.30
3/4		3/4		3/4		3/4	5,147.47	3/4	4,803.99	3/4	4,441.49	3/4	4,057.78	3/4	3,669.96	3/4	3,282.11	3/4	2,894.22
11		11		11		11	5,139.44	11	4,796.67	11	4,433.68	11	4,049.70	11	3,661.88	11	3,274.03	11	2,886.14
1/4		1/4		1/4		1/4	5,131.41	1/4	4,789.35	1/4	4,425.88	1/4	4,041.62	1/4	3,653.80	1/4	3,265.95	1/4	2,878.06
1/2		1/2		1/2		1/2	5,123.37	1/2	4,782.03	1/2	4,418.07	1/2	4,033.54	1/2	3,645.72	1/2	3,257.87	1/2	2,869.98
3/4		3/4		3/4		3/4	5,115.93	3/4	4,774.66	3/4	4,410.23	3/4	4,025.46	3/4	3,637.64	3/4	3,249.79	3/4	2,861.90

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN WITH "HERMETIC" CLOSED GAUGING DEVICES
 GAUGE POINT: (HERMETIC) LOCATED 12'-06" OFF CENTERLINE AND 51'-03" FORWARD OF AFT BULKHEAD

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092
 Pearland, Texas 77588
<http://www.pmacorp.net>



BARGE "EMS 394"

2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-04 1/2"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,465.93	0	2,078.04	0	1,690.15	0	1,302.27	0	914.38	0	541.13	0	153.90	0		0		0	
1/4	2,457.85	1/4	2,069.96	1/4	1,682.07	1/4	1,294.18	1/4	906.30	1/4	533.36	1/4	145.82	1/4		1/4		1/4	
1/2	2,449.77	1/2	2,061.88	1/2	1,673.99	1/2	1,286.10	1/2	898.22	1/2	525.59	1/2	137.74	1/2		1/2		1/2	
3/4	2,441.69	3/4	2,053.80	3/4	1,665.91	3/4	1,278.02	3/4	890.44	3/4	517.51	3/4	129.66	3/4		3/4		3/4	
1	2,433.61	1	2,045.72	1	1,657.83	1	1,269.94	1	882.67	1	509.43	1	121.58	1		1		1	
1/4	2,425.52	1/4	2,037.64	1/4	1,649.75	1/4	1,261.86	1/4	874.89	1/4	501.35	1/4	113.50	1/4		1/4		1/4	
1/2	2,417.44	1/2	2,029.56	1/2	1,641.67	1/2	1,253.78	1/2	867.11	1/2	493.27	1/2	105.42	1/2		1/2		1/2	
3/4	2,409.36	3/4	2,021.47	3/4	1,633.59	3/4	1,245.70	3/4	859.34	3/4	485.19	3/4	97.34	3/4		3/4		3/4	
2	2,401.28	2	2,013.39	2	1,625.51	2	1,237.62	2	851.56	2	477.11	2	89.26	2		2		2	
1/4	2,393.20	1/4	2,005.31	1/4	1,617.42	1/4	1,229.54	1/4	843.79	1/4	469.03	1/4	81.18	1/4		1/4		1/4	
1/2	2,385.12	1/2	1,997.23	1/2	1,609.34	1/2	1,221.46	1/2	836.01	1/2	460.95	1/2	73.10	1/2		1/2		1/2	
3/4	2,377.04	3/4	1,989.15	3/4	1,601.26	3/4	1,213.37	3/4	828.24	3/4	452.87	3/4	65.31	3/4		3/4		3/4	
3	2,368.96	3	1,981.07	3	1,593.18	3	1,205.29	3	820.47	3	444.79	3	57.51	3		3		3	
1/4	2,360.88	1/4	1,972.99	1/4	1,585.10	1/4	1,197.21	1/4	812.70	1/4	436.71	1/4	49.72	1/4		1/4		1/4	
1/2	2,352.80	1/2	1,964.91	1/2	1,577.02	1/2	1,189.13	1/2	804.93	1/2	428.63	1/2	41.93	1/2		1/2		1/2	
3/4	2,344.71	3/4	1,956.83	3/4	1,568.94	3/4	1,181.05	3/4	797.17	3/4	420.55	3/4	36.16	3/4		3/4		3/4	
4	2,336.63	4	1,948.75	4	1,560.86	4	1,172.97	4	789.41	4	412.47	4	30.39	4		4		4	
1/4	2,328.55	1/4	1,940.66	1/4	1,552.78	1/4	1,164.89	1/4	781.66	1/4	404.39	1/4	24.62	1/4		1/4		1/4	
1/2	2,320.47	1/2	1,932.58	1/2	1,544.70	1/2	1,156.81	1/2	773.90	1/2	396.31	1/2	18.85	1/2		1/2		1/2	
3/4	2,312.39	3/4	1,924.50	3/4	1,536.61	3/4	1,148.73	3/4	766.14	3/4	388.23	3/4		3/4		3/4		3/4	
5	2,304.31	5	1,916.42	5	1,528.53	5	1,140.65	5	758.38	5	380.15	5		5		5		5	
1/4	2,296.23	1/4	1,908.34	1/4	1,520.45	1/4	1,132.56	1/4	750.62	1/4	372.07	1/4		1/4		1/4		1/4	
1/2	2,288.15	1/2	1,900.26	1/2	1,512.37	1/2	1,124.48	1/2	742.86	1/2	363.99	1/2		1/2		1/2		1/2	
3/4	2,280.07	3/4	1,892.18	3/4	1,504.29	3/4	1,116.40	3/4	735.10	3/4	355.91	3/4		3/4		3/4		3/4	
6	2,271.99	6	1,884.10	6	1,496.21	6	1,108.32	6	727.34	6	347.83	6		6		6		6	
1/4	2,263.90	1/4	1,876.02	1/4	1,488.13	1/4	1,100.24	1/4	719.58	1/4	339.75	1/4		1/4		1/4		1/4	
1/2	2,255.82	1/2	1,867.94	1/2	1,480.05	1/2	1,092.16	1/2	711.82	1/2	331.67	1/2		1/2		1/2		1/2	
3/4	2,247.74	3/4	1,859.85	3/4	1,471.97	3/4	1,084.08	3/4	704.07	3/4	323.59	3/4		3/4		3/4		3/4	
7	2,239.66	7	1,851.77	7	1,463.89	7	1,076.00	7	696.31	7	315.51	7		7		7		7	
1/4	2,231.58	1/4	1,843.69	1/4	1,455.80	1/4	1,067.92	1/4	688.56	1/4	307.43	1/4		1/4		1/4		1/4	
1/2	2,223.50	1/2	1,835.61	1/2	1,447.72	1/2	1,059.84	1/2	680.80	1/2	299.35	1/2		1/2		1/2		1/2	
3/4	2,215.42	3/4	1,827.53	3/4	1,439.64	3/4	1,051.75	3/4	673.05	3/4	291.27	3/4		3/4		3/4		3/4	
8	2,207.34	8	1,819.45	8	1,431.56	8	1,043.67	8	665.29	8	283.19	8		8		8		8	
1/4	2,199.26	1/4	1,811.37	1/4	1,423.48	1/4	1,035.59	1/4	657.54	1/4	275.10	1/4		1/4		1/4		1/4	
1/2	2,191.18	1/2	1,803.29	1/2	1,415.40	1/2	1,027.51	1/2	649.78	1/2	267.02	1/2		1/2		1/2		1/2	
3/4	2,183.09	3/4	1,795.21	3/4	1,407.32	3/4	1,019.43	3/4	642.02	3/4	258.94	3/4		3/4		3/4		3/4	
9	2,175.01	9	1,787.13	9	1,399.24	9	1,011.35	9	634.26	9	250.86	9		9		9		9	
1/4	2,166.93	1/4	1,779.04	1/4	1,391.16	1/4	1,003.27	1/4	626.50	1/4	242.78	1/4		1/4		1/4		1/4	
1/2	2,158.85	1/2	1,770.96	1/2	1,383.08	1/2	995.19	1/2	618.74	1/2	234.70	1/2		1/2		1/2		1/2	
3/4	2,150.77	3/4	1,762.88	3/4	1,374.99	3/4	987.11	3/4	610.98	3/4	226.62	3/4		3/4		3/4		3/4	
10	2,142.69	10	1,754.80	10	1,366.91	10	979.03	10	603.23	10	218.54	10		10		10		10	
1/4	2,134.61	1/4	1,746.72	1/4	1,358.83	1/4	970.94	1/4	595.47	1/4	210.46	1/4		1/4		1/4		1/4	
1/2	2,126.53	1/2	1,738.64	1/2	1,350.75	1/2	962.86	1/2	587.71	1/2	202.38	1/2		1/2		1/2		1/2	
3/4	2,118.45	3/4	1,730.56	3/4	1,342.67	3/4	954.78	3/4	579.95	3/4	194.30	3/4		3/4		3/4		3/4	
11	2,110.37	11	1,722.48	11	1,334.59	11	946.70	11	572.19	11	186.22	11		11		11		11	
1/4	2,102.28	1/4	1,714.40	1/4	1,326.51	1/4	938.62	1/4	564.43	1/4	178.14	1/4		1/4		1/4		1/4	
1/2	2,094.20	1/2	1,706.32	1/2	1,318.43	1/2	930.54	1/2	556.67	1/2	170.06	1/2		1/2		1/2		1/2	
3/4	2,086.12	3/4	1,698.23	3/4	1,310.35	3/4	922.46	3/4	548.90	3/4	161.98	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 02/15/2016 SW
CALCULATED: 02/15/2016 CL
PRINTED: 02/15/2016 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 02/2016

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



BARGE "EMS 394"

1 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-04 1/2"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	0	0	0	0	0	0	4,228.13	0	3,936.91	0	3,625.46	0	3,296.85	0	2,965.85	0	2,634.82	0	2,303.77
1/4		1/4		1/4		1/4	4,221.78	1/4	3,930.63	1/4	3,618.76	1/4	3,289.96	1/4	2,958.95	1/4	2,627.92	1/4	2,296.87
1/2		1/2		1/2		1/2	4,215.43	1/2	3,924.35	1/2	3,612.07	1/2	3,283.06	1/2	2,952.05	1/2	2,621.03	1/2	2,289.97
3/4		3/4		3/4		3/4	4,209.56	3/4	3,918.03	3/4	3,605.34	3/4	3,276.17	3/4	2,945.16	3/4	2,614.13	3/4	2,283.08
1	1	1	1	1	1	1	4,203.70	1	3,911.71	1	3,598.61	1	3,269.27	1	2,938.26	1	2,607.23	1	2,276.18
1/4		1/4		1/4		1/4	4,197.83	1/4	3,905.40	1/4	3,591.88	1/4	3,262.37	1/4	2,931.37	1/4	2,600.33	1/4	2,269.28
1/2		1/2		1/2		1/2	4,191.97	1/2	3,899.08	1/2	3,585.15	1/2	3,255.48	1/2	2,924.47	1/2	2,593.44	1/2	2,262.39
3/4		3/4		3/4		3/4	4,186.07	3/4	3,892.73	3/4	3,578.39	3/4	3,248.58	3/4	2,917.57	3/4	2,586.54	3/4	2,255.49
2	2	2	2	2	2	2	4,180.17	2	3,886.38	2	3,571.63	2	3,241.69	2	2,910.68	2	2,579.64	2	2,248.59
1/4		1/4		1/4		1/4	4,174.27	1/4	3,880.02	1/4	3,564.87	1/4	3,234.79	1/4	2,903.78	1/4	2,572.75	1/4	2,241.70
1/2		1/2		1/2		1/2	4,168.37	1/2	3,873.67	1/2	3,558.10	1/2	3,227.89	1/2	2,896.89	1/2	2,565.85	1/2	2,234.80
3/4		3/4		3/4		3/4	4,162.43	3/4	3,867.29	3/4	3,551.31	3/4	3,221.00	3/4	2,889.99	3/4	2,558.95	3/4	2,227.90
3	3	3	3	3	3	3	4,156.50	3	3,860.90	3	3,544.51	3	3,214.10	3	2,883.09	3	2,552.06	3	2,221.01
1/4		1/4		1/4		1/4	4,150.57	1/4	3,854.52	1/4	3,537.71	1/4	3,207.21	1/4	2,876.20	1/4	2,545.16	1/4	2,214.11
1/2		1/2		1/2		1/2	4,144.63	1/2	3,848.13	1/2	3,530.91	1/2	3,200.31	1/2	2,869.30	1/2	2,538.26	1/2	2,207.21
3/4		3/4		3/4		3/4	4,138.66	3/4	3,841.71	3/4	3,524.08	3/4	3,193.41	3/4	2,862.41	3/4	2,531.37	3/4	2,200.31
4	4	4	4	4	4	4	4,132.69	4	3,835.29	4	3,517.25	4	3,186.52	4	2,855.51	4	2,524.47	4	2,193.42
1/4		1/4		1/4		1/4	4,126.73	1/4	3,828.87	1/4	3,510.42	1/4	3,179.62	1/4	2,848.61	1/4	2,517.57	1/4	2,186.52
1/2		1/2		1/2		1/2	4,120.76	1/2	3,822.45	1/2	3,503.59	1/2	3,172.73	1/2	2,841.72	1/2	2,510.67	1/2	2,179.62
3/4		3/4		3/4		3/4	4,114.75	3/4	3,816.00	3/4	3,496.72	3/4	3,165.83	3/4	2,834.82	3/4	2,503.78	3/4	2,172.73
5	5	5	5	5	5	5	4,108.75	5	3,809.54	5	3,489.86	5	3,158.93	5	2,827.93	5	2,496.88	5	2,165.83
1/4		1/4		1/4		1/4	4,102.75	1/4	3,803.09	1/4	3,482.99	1/4	3,152.04	1/4	2,821.03	1/4	2,489.98	1/4	2,158.93
1/2		1/2		1/2		1/2	4,096.75	1/2	3,796.63	1/2	3,476.12	1/2	3,145.14	1/2	2,814.13	1/2	2,483.09	1/2	2,152.04
3/4		3/4		3/4		3/4	4,090.71	3/4	3,790.14	3/4	3,469.23	3/4	3,138.25	3/4	2,807.24	3/4	2,476.19	3/4	2,145.14
6	6	6	6	6	6	6	4,084.67	6	3,783.66	6	3,462.35	6	3,131.35	6	2,800.34	6	2,469.29	6	2,138.24
1/4		1/4		1/4		1/4	4,078.63	1/4	3,777.17	1/4	3,455.46	1/4	3,124.45	1/4	2,793.45	1/4	2,462.40	1/4	2,131.35
1/2		1/2		1/2		1/2	4,072.60	1/2	3,770.68	1/2	3,448.57	1/2	3,117.56	1/2	2,786.55	1/2	2,455.50	1/2	2,124.45
3/4		3/4		3/4		3/4	4,066.53	3/4	3,764.16	3/4	3,441.67	3/4	3,110.66	3/4	2,779.65	3/4	2,448.60	3/4	2,117.55
7	7	7	7	7	7	7	4,362.15	7	4,060.45	7	3,757.63	7	3,434.77	7	3,103.77	7	2,772.76	7	2,441.71
1/4		1/4		1/4		1/4	4,352.34	1/4	4,054.38	1/4	3,751.11	1/4	3,427.88	1/4	3,096.87	1/4	2,765.86	1/4	2,434.81
1/2		1/2		1/2		1/2	4,347.44	1/2	4,048.31	1/2	3,744.59	1/2	3,420.98	1/2	3,089.97	1/2	2,758.96	1/2	2,427.91
3/4		3/4		3/4		3/4	4,341.29	3/4	4,042.21	3/4	3,738.03	3/4	3,414.09	3/4	3,083.08	3/4	2,752.07	3/4	2,421.02
8	8	8	8	8	8	8	4,335.13	8	4,036.10	8	3,731.47	8	3,407.19	8	3,076.18	8	2,745.17	8	2,414.12
1/4		1/4		1/4		1/4	4,328.97	1/4	4,029.99	1/4	3,724.91	1/4	3,400.29	1/4	3,069.29	1/4	2,738.27	1/4	2,407.22
1/2		1/2		1/2		1/2	4,322.82	1/2	4,023.89	1/2	3,718.36	1/2	3,393.40	1/2	3,062.39	1/2	2,731.38	1/2	2,400.32
3/4		3/4		3/4		3/4	4,316.03	3/4	4,017.75	3/4	3,711.77	3/4	3,386.50	3/4	3,055.49	3/4	2,724.48	3/4	2,393.43
9	9	9	9	9	9	9	4,309.25	9	4,011.61	9	3,705.17	9	3,379.61	9	3,048.60	9	2,717.58	9	2,386.53
1/4		1/4		1/4		1/4	4,302.47	1/4	4,005.47	1/4	3,698.58	1/4	3,372.71	1/4	3,041.70	1/4	2,710.68	1/4	2,379.63
1/2		1/2		1/2		1/2	4,295.69	1/2	3,999.33	1/2	3,691.99	1/2	3,365.81	1/2	3,034.81	1/2	2,703.79	1/2	2,372.74
3/4		3/4		3/4		3/4	4,288.83	3/4	3,993.11	3/4	3,685.37	3/4	3,358.92	3/4	3,027.91	3/4	2,696.89	3/4	2,365.84
10	10	10	10	10	10	10	4,281.97	10	3,986.90	10	3,678.74	10	3,352.02	10	3,021.01	10	2,689.99	10	2,358.94
1/4		1/4		1/4		1/4	4,275.12	1/4	3,980.69	1/4	3,672.11	1/4	3,345.13	1/4	3,014.12	1/4	2,683.10	1/4	2,352.05
1/2		1/2		1/2		1/2	4,268.26	1/2	3,974.47	1/2	3,665.49	1/2	3,338.23	1/2	3,007.22	1/2	2,676.20	1/2	2,345.15
3/4		3/4		3/4		3/4	4,261.41	3/4	3,968.22	3/4	3,658.83	3/4	3,331.33	3/4	3,000.33	3/4	2,669.30	3/4	2,338.25
11	11	11	11	11	11	11	4,254.55	11	3,961.98	11	3,652.17	11	3,324.44	11	2,993.43	11	2,662.41	11	2,331.36
1/4		1/4		1/4		1/4	4,247.69	1/4	3,955.73	1/4	3,645.51	1/4	3,317.54	1/4	2,986.53	1/4	2,655.51	1/4	2,324.46
1/2		1/2		1/2		1/2	4,240.84	1/2	3,949.48	1/2	3,638.85	1/2	3,310.65	1/2	2,979.64	1/2	2,648.61	1/2	2,317.56
3/4		3/4		3/4		3/4	4,234.49	3/4	3,943.20	3/4	3,632.15	3/4	3,303.75	3/4	2,972.74	3/4	2,641.72	3/4	2,310.66

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'-06" FORWARD OF AFT BULKHEAD

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



BARGE "EMS 394"

1 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-04 1/2"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	1,972.72	0	1,641.67	0	1,310.61	0	979.77	0	663.93	0	371.23	0	102.14	0		0		0	
1/4	1,965.82	1/4	1,634.77	1/4	1,303.72	1/4	972.93	1/4	657.58	1/4	365.38	1/4	96.78	1/4		1/4		1/4	
1/2	1,958.92	1/2	1,627.87	1/2	1,296.82	1/2	966.10	1/2	651.24	1/2	359.53	1/2	91.42	1/2		1/2		1/2	
3/4	1,952.03	3/4	1,620.97	3/4	1,289.92	3/4	959.30	3/4	644.94	3/4	353.72	3/4	86.10	3/4		3/4		3/4	
1	1,945.13	1	1,614.08	1	1,283.03	1	952.51	1	638.63	1	347.91	1	80.78	1		1		1	
1/4	1,938.23	1/4	1,607.18	1/4	1,276.13	1/4	945.71	1/4	632.33	1/4	342.10	1/4	75.46	1/4		1/4		1/4	
1/2	1,931.34	1/2	1,600.28	1/2	1,269.23	1/2	938.92	1/2	626.03	1/2	336.29	1/2	70.14	1/2		1/2		1/2	
3/4	1,924.44	3/4	1,593.39	3/4	1,262.34	3/4	932.18	3/4	619.77	3/4	330.52	3/4	64.86	3/4		3/4		3/4	
2	1,917.54	2	1,586.49	2	1,255.44	2	925.44	2	613.51	2	324.75	2	59.58	2		2		2	
1/4	1,910.64	1/4	1,579.59	1/4	1,248.54	1/4	918.70	1/4	607.24	1/4	318.97	1/4	54.30	1/4		1/4		1/4	
1/2	1,903.75	1/2	1,572.70	1/2	1,241.65	1/2	911.96	1/2	600.98	1/2	313.20	1/2	49.03	1/2		1/2		1/2	
3/4	1,896.85	3/4	1,565.80	3/4	1,234.75	3/4	905.26	3/4	594.76	3/4	307.48	3/4	44.03	3/4		3/4		3/4	
3	1,889.95	3	1,558.90	3	1,227.85	3	898.56	3	588.54	3	301.75	3	39.04	3		3		3	
1/4	1,883.06	1/4	1,552.01	1/4	1,220.95	1/4	891.86	1/4	582.32	1/4	296.02	1/4	34.05	1/4		1/4		1/4	
1/2	1,876.16	1/2	1,545.11	1/2	1,214.06	1/2	885.16	1/2	576.10	1/2	290.29	1/2	29.06	1/2		1/2		1/2	
3/4	1,869.26	3/4	1,538.21	3/4	1,207.16	3/4	878.50	3/4	569.92	3/4	284.60	3/4	25.84	3/4		3/4		3/4	
4	1,862.37	4	1,531.32	4	1,200.26	4	871.84	4	563.74	4	278.91	4	22.61	4		4		4	
1/4	1,855.47	1/4	1,524.42	1/4	1,193.37	1/4	865.19	1/4	557.56	1/4	273.22	1/4	19.39	1/4		1/4		1/4	
1/2	1,848.57	1/2	1,517.52	1/2	1,186.47	1/2	858.53	1/2	551.38	1/2	267.54	1/2	16.16	1/2		1/2		1/2	
3/4	1,841.68	3/4	1,510.62	3/4	1,179.57	3/4	851.91	3/4	545.24	3/4	261.89	3/4		3/4		3/4		3/4	
5	1,834.78	5	1,503.73	5	1,172.68	5	845.30	5	539.10	5	256.24	5		5		5		5	
1/4	1,827.88	1/4	1,496.83	1/4	1,165.78	1/4	838.69	1/4	532.96	1/4	250.60	1/4		1/4		1/4		1/4	
1/2	1,820.98	1/2	1,489.93	1/2	1,158.88	1/2	832.08	1/2	526.83	1/2	244.95	1/2		1/2		1/2		1/2	
3/4	1,814.09	3/4	1,483.04	3/4	1,151.99	3/4	825.50	3/4	520.73	3/4	239.34	3/4		3/4		3/4		3/4	
6	1,807.19	6	1,476.14	6	1,145.09	6	818.93	6	514.63	6	233.74	6		6		6		6	
1/4	1,800.29	1/4	1,469.24	1/4	1,138.19	1/4	812.36	1/4	508.53	1/4	228.13	1/4		1/4		1/4		1/4	
1/2	1,793.40	1/2	1,462.35	1/2	1,131.29	1/2	805.79	1/2	502.44	1/2	222.52	1/2		1/2		1/2		1/2	
3/4	1,786.50	3/4	1,455.45	3/4	1,124.40	3/4	799.25	3/4	496.38	3/4	216.96	3/4		3/4		3/4		3/4	
7	1,779.60	7	1,448.55	7	1,117.50	7	792.72	7	490.32	7	211.39	7		7		7		7	
1/4	1,772.71	1/4	1,441.66	1/4	1,110.60	1/4	786.18	1/4	484.26	1/4	205.83	1/4		1/4		1/4		1/4	
1/2	1,765.81	1/2	1,434.76	1/2	1,103.71	1/2	779.65	1/2	478.21	1/2	200.26	1/2		1/2		1/2		1/2	
3/4	1,758.91	3/4	1,427.86	3/4	1,096.81	3/4	773.15	3/4	472.19	3/4	194.74	3/4		3/4		3/4		3/4	
8	1,752.02	8	1,420.96	8	1,089.91	8	766.66	8	466.18	8	189.21	8		8		8		8	
1/4	1,745.12	1/4	1,414.07	1/4	1,083.02	1/4	760.16	1/4	460.16	1/4	183.69	1/4		1/4		1/4		1/4	
1/2	1,738.22	1/2	1,407.17	1/2	1,076.12	1/2	753.67	1/2	454.14	1/2	178.17	1/2		1/2		1/2		1/2	
3/4	1,731.33	3/4	1,400.27	3/4	1,069.22	3/4	747.22	3/4	448.17	3/4	172.68	3/4		3/4		3/4		3/4	
9	1,724.43	9	1,393.38	9	1,062.33	9	740.76	9	442.19	9	167.20	9		9		9		9	
1/4	1,717.53	1/4	1,386.48	1/4	1,055.43	1/4	734.31	1/4	436.22	1/4	161.72	1/4		1/4		1/4		1/4	
1/2	1,710.63	1/2	1,379.58	1/2	1,048.53	1/2	727.85	1/2	430.24	1/2	156.23	1/2		1/2		1/2		1/2	
3/4	1,703.74	3/4	1,372.69	3/4	1,041.64	3/4	721.43	3/4	424.31	3/4	150.79	3/4		3/4		3/4		3/4	
10	1,696.84	10	1,365.79	10	1,034.74	10	715.00	10	418.38	10	145.35	10		10		10		10	
1/4	1,689.94	1/4	1,358.89	1/4	1,027.84	1/4	708.58	1/4	412.44	1/4	139.91	1/4		1/4		1/4		1/4	
1/2	1,683.05	1/2	1,352.00	1/2	1,020.94	1/2	702.15	1/2	406.51	1/2	134.46	1/2		1/2		1/2		1/2	
3/4	1,676.15	3/4	1,345.10	3/4	1,014.07	3/4	695.77	3/4	400.62	3/4	129.06	3/4		3/4		3/4		3/4	
11	1,669.25	11	1,338.20	11	1,007.19	11	689.38	11	394.72	11	123.66	11		11		11		11	
1/4	1,662.36	1/4	1,331.30	1/4	1,000.32	1/4	683.00	1/4	388.83	1/4	118.26	1/4		1/4		1/4		1/4	
1/2	1,655.46	1/2	1,324.41	1/2	993.44	1/2	676.61	1/2	382.94	1/2	112.86	1/2		1/2		1/2		1/2	
3/4	1,648.56	3/4	1,317.51	3/4	986.60	3/4	670.27	3/4	377.09	3/4	107.50	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 02/15/2016 SW
CALCULATED: 02/15/2016 CL
PRINTED: 02/15/2016 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 02/2016

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



BARGE "EMS 394"

1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-04 1/2"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	0	0	0	0	0	0	4,237.70	0	3,945.72	0	3,633.46	0	3,304.01	0	2,972.15	0	2,640.27	0	2,308.37
1/4		1/4		1/4		1/4	4,231.33	1/4	3,939.42	1/4	3,626.75	1/4	3,297.09	1/4	2,965.24	1/4	2,633.36	1/4	2,301.46
1/2		1/2		1/2		1/2	4,224.96	1/2	3,933.12	1/2	3,620.04	1/2	3,290.18	1/2	2,958.32	1/2	2,626.44	1/2	2,294.54
3/4		3/4		3/4		3/4	4,219.08	3/4	3,926.79	3/4	3,613.29	3/4	3,283.27	3/4	2,951.41	3/4	2,619.53	3/4	2,287.63
1	1	1	1	1	1	1	4,213.20	1	3,920.46	1	3,606.55	1	3,276.35	1	2,944.49	1	2,612.61	1	2,280.71
1/4		1/4		1/4		1/4	4,207.32	1/4	3,914.12	1/4	3,599.80	1/4	3,269.44	1/4	2,937.58	1/4	2,605.70	1/4	2,273.80
1/2		1/2		1/2		1/2	4,201.44	1/2	3,907.79	1/2	3,593.05	1/2	3,262.52	1/2	2,930.67	1/2	2,598.78	1/2	2,266.88
3/4		3/4		3/4		3/4	4,195.52	3/4	3,901.42	3/4	3,586.27	3/4	3,255.61	3/4	2,923.75	3/4	2,591.87	3/4	2,259.97
2	2	2	2	2	2	2	4,189.61	2	3,895.05	2	3,579.49	2	3,248.70	2	2,916.84	2	2,584.95	2	2,253.05
1/4		1/4		1/4		1/4	4,183.69	1/4	3,888.68	1/4	3,572.71	1/4	3,241.78	1/4	2,909.93	1/4	2,578.04	1/4	2,246.14
1/2		1/2		1/2		1/2	4,177.78	1/2	3,882.32	1/2	3,565.93	1/2	3,234.87	1/2	2,903.01	1/2	2,571.13	1/2	2,239.22
3/4		3/4		3/4		3/4	4,171.83	3/4	3,875.91	3/4	3,559.12	3/4	3,227.96	3/4	2,896.10	3/4	2,564.21	3/4	2,232.31
3	3	3	3	3	3	3	4,165.88	3	3,869.51	3	3,552.30	3	3,221.04	3	2,889.18	3	2,557.30	3	2,225.40
1/4		1/4		1/4		1/4	4,159.93	1/4	3,863.11	1/4	3,545.49	1/4	3,214.13	1/4	2,882.27	1/4	2,550.38	1/4	2,218.48
1/2		1/2		1/2		1/2	4,153.98	1/2	3,856.71	1/2	3,538.67	1/2	3,207.21	1/2	2,875.36	1/2	2,543.47	1/2	2,211.57
3/4		3/4		3/4		3/4	4,148.00	3/4	3,850.27	3/4	3,531.82	3/4	3,200.30	3/4	2,868.44	3/4	2,536.55	3/4	2,204.65
4	4	4	4	4	4	4	4,142.01	4	3,843.83	4	3,524.97	4	3,193.39	4	2,861.53	4	2,529.64	4	2,197.74
1/4		1/4		1/4		1/4	4,136.03	1/4	3,837.40	1/4	3,518.12	1/4	3,186.47	1/4	2,854.62	1/4	2,522.72	1/4	2,190.82
1/2		1/2		1/2		1/2	4,130.04	1/2	3,830.96	1/2	3,511.28	1/2	3,179.56	1/2	2,847.70	1/2	2,515.81	1/2	2,183.91
3/4		3/4		3/4		3/4	4,124.03	3/4	3,824.49	3/4	3,504.39	3/4	3,172.65	3/4	2,840.79	3/4	2,508.89	3/4	2,176.99
5	5	5	5	5	5	5	4,118.01	5	3,818.02	5	3,497.51	5	3,165.73	5	2,833.87	5	2,501.98	5	2,170.08
1/4		1/4		1/4		1/4	4,111.99	1/4	3,811.55	1/4	3,490.63	1/4	3,158.82	1/4	2,826.96	1/4	2,495.06	1/4	2,163.16
1/2		1/2		1/2		1/2	4,105.97	1/2	3,805.08	1/2	3,483.74	1/2	3,151.90	1/2	2,820.05	1/2	2,488.15	1/2	2,156.25
3/4		3/4		3/4		3/4	4,099.92	3/4	3,798.57	3/4	3,476.83	3/4	3,144.99	3/4	2,813.13	3/4	2,481.24	3/4	2,149.33
6	6	6	6	6	6	6	4,093.86	6	3,792.07	6	3,469.92	6	3,138.08	6	2,806.22	6	2,474.32	6	2,142.42
1/4		1/4		1/4		1/4	4,087.81	1/4	3,785.56	1/4	3,463.02	1/4	3,131.16	1/4	2,799.31	1/4	2,467.41	1/4	2,135.51
1/2		1/2		1/2		1/2	4,081.76	1/2	3,779.06	1/2	3,456.11	1/2	3,124.25	1/2	2,792.39	1/2	2,460.49	1/2	2,128.59
3/4		3/4		3/4		3/4	4,075.67	3/4	3,772.52	3/4	3,449.19	3/4	3,117.34	3/4	2,785.48	3/4	2,453.58	3/4	2,121.68
7	7	7	7	7	7	7	4,069.58	7	3,765.98	7	3,442.28	7	3,110.42	7	2,778.56	7	2,446.66	7	2,114.76
1/4		1/4		1/4		1/4	4,063.50	1/4	3,759.44	1/4	3,435.37	1/4	3,103.51	1/4	2,771.65	1/4	2,439.75	1/4	2,107.85
1/2		1/2		1/2		1/2	4,057.41	1/2	3,752.90	1/2	3,428.45	1/2	3,096.60	1/2	2,764.73	1/2	2,432.83	1/2	2,100.93
3/4		3/4		3/4		3/4	4,051.29	3/4	3,746.32	3/4	3,421.54	3/4	3,089.68	3/4	2,757.82	3/4	2,425.92	3/4	2,094.02
8	8	8	8	8	8	8	4,045.17	8	3,739.75	8	3,414.63	8	3,082.77	8	2,750.90	8	2,419.00	8	2,087.10
1/4		1/4		1/4		1/4	4,039.04	1/4	3,733.17	1/4	3,407.71	1/4	3,075.85	1/4	2,743.99	1/4	2,412.09	1/4	2,080.19
1/2		1/2		1/2		1/2	4,032.92	1/2	3,726.60	1/2	3,400.80	1/2	3,068.94	1/2	2,737.08	1/2	2,405.17	1/2	2,073.27
3/4		3/4		3/4		3/4	4,026.77	3/4	3,719.99	3/4	3,393.88	3/4	3,062.03	3/4	2,730.16	3/4	2,398.26	3/4	2,066.36
9	9	9	9	9	9	9	4,020.61	9	3,713.38	9	3,386.97	9	3,055.11	9	2,723.25	9	2,391.35	9	2,059.44
1/4		1/4		1/4		1/4	4,014.45	1/4	3,706.77	1/4	3,380.06	1/4	3,048.20	1/4	2,716.33	1/4	2,384.43	1/4	2,052.53
1/2		1/2		1/2		1/2	4,008.30	1/2	3,700.17	1/2	3,373.14	1/2	3,041.29	1/2	2,709.42	1/2	2,377.52	1/2	2,045.62
3/4		3/4		3/4		3/4	4,298.55	3/4	4,002.07	3/4	3,693.52	3/4	3,366.23	3/4	3,034.37	3/4	2,702.50	3/4	2,370.60
10	10	10	10	10	10	10	4,291.68	10	3,995.84	10	3,686.88	10	3,359.32	10	3,027.46	10	2,695.59	10	2,363.69
1/4		1/4		1/4		1/4	4,284.81	1/4	3,989.61	1/4	3,680.24	1/4	3,352.40	1/4	3,020.54	1/4	2,688.67	1/4	2,356.77
1/2		1/2		1/2		1/2	4,277.93	1/2	3,983.38	1/2	3,673.59	1/2	3,345.49	1/2	3,013.63	1/2	2,681.76	1/2	2,349.86
3/4		3/4		3/4		3/4	4,271.06	3/4	3,977.11	3/4	3,666.92	3/4	3,338.57	3/4	3,006.72	3/4	2,674.84	3/4	2,342.94
11	11	11	11	11	11	11	4,264.19	11	3,970.85	11	3,660.24	11	3,331.66	11	2,999.80	11	2,667.93	11	2,336.03
1/4		1/4		1/4		1/4	4,257.31	1/4	3,964.58	1/4	3,653.56	1/4	3,324.75	1/4	2,992.89	1/4	2,661.02	1/4	2,329.11
1/2		1/2		1/2		1/2	4,250.44	1/2	3,958.32	1/2	3,646.88	1/2	3,317.83	1/2	2,985.98	1/2	2,654.10	1/2	2,322.20
3/4		3/4		3/4		3/4	4,244.07	3/4	3,952.02	3/4	3,640.17	3/4	3,310.92	3/4	2,979.06	3/4	2,647.19	3/4	2,315.29

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'-06" FORWARD OF AFT BULKHEAD

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



BARGE "EMS 394"

1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-04 1/2"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	1,976.47	0	1,644.57	0	1,312.67	0	981.02	0	665.67	0	372.21	0	102.41	0		0		0	
1/4	1,969.56	1/4	1,637.65	1/4	1,305.75	1/4	974.19	1/4	659.31	1/4	366.34	1/4	97.03	1/4		1/4		1/4	
1/2	1,962.64	1/2	1,630.74	1/2	1,298.84	1/2	967.36	1/2	652.95	1/2	360.48	1/2	91.66	1/2		1/2		1/2	
3/4	1,955.73	3/4	1,623.83	3/4	1,291.92	3/4	960.58	3/4	646.63	3/4	354.65	3/4	86.32	3/4		3/4		3/4	
1	1,948.81	1	1,616.91	1	1,285.01	1	953.79	1	640.31	1	348.82	1	80.99	1		1		1	
1/4	1,941.90	1/4	1,610.00	1/4	1,278.10	1/4	947.00	1/4	633.99	1/4	343.00	1/4	75.66	1/4		1/4		1/4	
1/2	1,934.98	1/2	1,603.08	1/2	1,271.18	1/2	940.22	1/2	627.67	1/2	337.17	1/2	70.32	1/2		1/2		1/2	
3/4	1,928.07	3/4	1,596.17	3/4	1,264.27	3/4	933.49	3/4	621.39	3/4	331.39	3/4	65.03	3/4		3/4		3/4	
2	1,921.15	2	1,589.25	2	1,257.35	2	926.76	2	615.12	2	325.60	2	59.74	2		2		2	
1/4	1,914.24	1/4	1,582.34	1/4	1,250.44	1/4	920.03	1/4	608.84	1/4	319.82	1/4	54.45	1/4		1/4		1/4	
1/2	1,907.32	1/2	1,575.42	1/2	1,243.52	1/2	913.30	1/2	602.56	1/2	314.03	1/2	49.15	1/2		1/2		1/2	
3/4	1,900.41	3/4	1,568.51	3/4	1,236.61	3/4	906.61	3/4	596.32	3/4	308.29	3/4	44.15	3/4		3/4		3/4	
3	1,893.49	3	1,561.59	3	1,229.69	3	899.93	3	590.09	3	302.54	3	39.15	3		3		3	
1/4	1,886.58	1/4	1,554.68	1/4	1,222.78	1/4	893.24	1/4	583.85	1/4	296.80	1/4	34.14	1/4		1/4		1/4	
1/2	1,879.67	1/2	1,547.76	1/2	1,215.86	1/2	886.55	1/2	577.61	1/2	291.05	1/2	29.14	1/2		1/2		1/2	
3/4	1,872.75	3/4	1,540.85	3/4	1,208.95	3/4	879.90	3/4	571.42	3/4	285.35	3/4	25.90	3/4		3/4		3/4	
4	1,865.84	4	1,533.94	4	1,202.03	4	873.26	4	565.22	4	279.65	4	22.67	4		4		4	
1/4	1,858.92	1/4	1,527.02	1/4	1,195.12	1/4	866.61	1/4	559.02	1/4	273.95	1/4	19.44	1/4		1/4		1/4	
1/2	1,852.01	1/2	1,520.11	1/2	1,188.21	1/2	859.96	1/2	552.83	1/2	268.24	1/2	16.20	1/2		1/2		1/2	
3/4	1,845.09	3/4	1,513.19	3/4	1,181.29	3/4	853.36	3/4	546.67	3/4	262.58	3/4		3/4		3/4		3/4	
5	1,838.18	5	1,506.28	5	1,174.38	5	846.76	5	540.52	5	256.92	5		5		5		5	
1/4	1,831.26	1/4	1,499.36	1/4	1,167.46	1/4	840.16	1/4	534.36	1/4	251.26	1/4		1/4		1/4		1/4	
1/2	1,824.35	1/2	1,492.45	1/2	1,160.55	1/2	833.56	1/2	528.21	1/2	245.59	1/2		1/2		1/2		1/2	
3/4	1,817.43	3/4	1,485.53	3/4	1,153.63	3/4	827.00	3/4	522.10	3/4	239.97	3/4		3/4		3/4		3/4	
6	1,810.52	6	1,478.62	6	1,146.72	6	820.44	6	515.98	6	234.35	6		6		6		6	
1/4	1,803.60	1/4	1,471.70	1/4	1,139.80	1/4	813.88	1/4	509.87	1/4	228.73	1/4		1/4		1/4		1/4	
1/2	1,796.69	1/2	1,464.79	1/2	1,132.89	1/2	807.32	1/2	503.75	1/2	223.11	1/2		1/2		1/2		1/2	
3/4	1,789.78	3/4	1,457.87	3/4	1,125.97	3/4	800.80	3/4	497.68	3/4	217.53	3/4		3/4		3/4		3/4	
7	1,782.86	7	1,450.96	7	1,119.06	7	794.27	7	491.61	7	211.95	7		7		7		7	
1/4	1,775.95	1/4	1,444.05	1/4	1,112.14	1/4	787.75	1/4	485.54	1/4	206.37	1/4		1/4		1/4		1/4	
1/2	1,769.03	1/2	1,437.13	1/2	1,105.23	1/2	781.22	1/2	479.46	1/2	200.79	1/2		1/2		1/2		1/2	
3/4	1,762.12	3/4	1,430.22	3/4	1,098.32	3/4	774.74	3/4	473.43	3/4	195.25	3/4		3/4		3/4		3/4	
8	1,755.20	8	1,423.30	8	1,091.40	8	768.26	8	467.40	8	189.71	8		8		8		8	
1/4	1,748.29	1/4	1,416.39	1/4	1,084.49	1/4	761.78	1/4	461.37	1/4	184.17	1/4		1/4		1/4		1/4	
1/2	1,741.37	1/2	1,409.47	1/2	1,077.57	1/2	755.29	1/2	455.34	1/2	178.64	1/2		1/2		1/2		1/2	
3/4	1,734.46	3/4	1,402.56	3/4	1,070.66	3/4	748.85	3/4	449.35	3/4	173.14	3/4		3/4		3/4		3/4	
9	1,727.54	9	1,395.64	9	1,063.74	9	742.41	9	443.36	9	167.64	9		9		9		9	
1/4	1,720.63	1/4	1,388.73	1/4	1,056.83	1/4	735.97	1/4	437.37	1/4	162.14	1/4		1/4		1/4		1/4	
1/2	1,713.71	1/2	1,381.81	1/2	1,049.91	1/2	729.53	1/2	431.38	1/2	156.65	1/2		1/2		1/2		1/2	
3/4	1,706.80	3/4	1,374.90	3/4	1,043.00	3/4	723.12	3/4	425.43	3/4	151.19	3/4		3/4		3/4		3/4	
10	1,699.89	10	1,367.98	10	1,036.08	10	716.70	10	419.48	10	145.73	10		10		10		10	
1/4	1,692.97	1/4	1,361.07	1/4	1,029.17	1/4	710.29	1/4	413.53	1/4	140.28	1/4		1/4		1/4		1/4	
1/2	1,686.06	1/2	1,354.16	1/2	1,022.25	1/2	703.88	1/2	407.58	1/2	134.82	1/2		1/2		1/2		1/2	
3/4	1,679.14	3/4	1,347.24	3/4	1,015.36	3/4	697.50	3/4	401.67	3/4	129.40	3/4		3/4		3/4		3/4	
11	1,672.23	11	1,340.33	11	1,008.47	11	691.13	11	395.76	11	123.99	11		11		11		11	
1/4	1,665.31	1/4	1,333.41	1/4	1,001.57	1/4	684.76	1/4	389.85	1/4	118.57	1/4		1/4		1/4		1/4	
1/2	1,658.40	1/2	1,326.50	1/2	994.68	1/2	678.39	1/2	383.95	1/2	113.16	1/2		1/2		1/2		1/2	
3/4	1,651.48	3/4	1,319.58	3/4	987.85	3/4	672.03	3/4	378.08	3/4	107.78	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 02/15/2016 SW
CALCULATED: 02/15/2016 CL
PRINTED: 02/15/2016 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 02/2016

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