



BARGE "EMS 397"

INNAGE TRIM TABLE

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

July 12, 2016

PRECISION MEASUREMENT
 & ANALYSIS, INC.

P.O. Box 2092
 Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "EMS 397"

1 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	16.16	0	267.51	0	551.31	0	857.60	0	1,184.94	0	1,515.93	0	1,846.92	0	2,177.91	0	2,508.90	0	2,839.88
1/4	19.38	1/4	273.19	1/4	557.49	1/4	864.23	1/4	1,191.84	1/4	1,522.83	1/4	1,853.81	1/4	2,184.80	1/4	2,515.79	1/4	2,846.77
1/2	22.61	1/2	278.88	1/2	563.67	1/2	870.86	1/2	1,198.73	1/2	1,529.72	1/2	1,860.71	1/2	2,191.70	1/2	2,522.69	1/2	2,853.67
3/4	25.83	3/4	284.57	3/4	569.85	3/4	877.49	3/4	1,205.63	3/4	1,536.62	3/4	1,867.61	3/4	2,198.59	3/4	2,529.58	3/4	2,860.56
1	29.06	1	290.25	1	576.03	1	884.11	1	1,212.52	1	1,543.51	1	1,874.50	1	2,205.49	1	2,536.48	1	2,867.46
1/4	34.05	1/4	295.98	1/4	582.25	1/4	890.78	1/4	1,219.42	1/4	1,550.41	1/4	1,881.40	1/4	2,212.39	1/4	2,543.37	1/4	2,874.35
1/2	39.04	1/2	301.71	1/2	588.46	1/2	897.45	1/2	1,226.31	1/2	1,557.30	1/2	1,888.29	1/2	2,219.28	1/2	2,550.27	1/2	2,881.25
3/4	44.03	3/4	307.44	3/4	594.68	3/4	904.12	3/4	1,233.21	3/4	1,564.20	3/4	1,895.19	3/4	2,226.18	3/4	2,557.17	3/4	2,888.14
2	49.02	2	313.17	2	600.90	2	910.79	2	1,240.11	2	1,571.09	2	1,902.08	2	2,233.07	2	2,564.06	2	2,895.04
1/4	54.30	1/4	318.94	1/4	607.16	1/4	917.50	1/4	1,247.00	1/4	1,577.99	1/4	1,908.98	1/4	2,239.97	1/4	2,570.96	1/4	2,901.93
1/2	59.58	1/2	324.71	1/2	613.43	1/2	924.21	1/2	1,253.90	1/2	1,584.89	1/2	1,915.87	1/2	2,246.86	1/2	2,577.85	1/2	2,908.83
3/4	64.85	3/4	330.48	3/4	619.69	3/4	930.92	3/4	1,260.79	3/4	1,591.78	3/4	1,922.77	3/4	2,253.76	3/4	2,584.75	3/4	2,915.72
3	70.13	3	336.25	3	625.95	3	937.63	3	1,267.69	3	1,598.68	3	1,929.67	3	2,260.65	3	2,591.64	3	2,922.61
1/4	75.45	1/4	342.06	1/4	632.25	1/4	944.40	1/4	1,274.58	1/4	1,605.57	1/4	1,936.56	1/4	2,267.55	1/4	2,598.54	1/4	2,929.51
1/2	80.77	1/2	347.87	1/2	638.55	1/2	951.17	1/2	1,281.48	1/2	1,612.47	1/2	1,943.46	1/2	2,274.45	1/2	2,605.43	1/2	2,936.40
3/4	86.09	3/4	353.68	3/4	644.85	3/4	957.94	3/4	1,288.38	3/4	1,619.36	3/4	1,950.35	3/4	2,281.34	3/4	2,612.33	3/4	2,943.30
4	91.41	4	359.49	4	651.15	4	964.71	4	1,295.27	4	1,626.26	4	1,957.25	4	2,288.24	4	2,619.23	4	2,950.19
1/4	96.77	1/4	365.34	1/4	657.50	1/4	971.52	1/4	1,302.17	1/4	1,633.16	1/4	1,964.14	1/4	2,295.13	1/4	2,626.12	1/4	2,957.09
1/2	102.13	1/2	371.19	1/2	663.84	1/2	978.33	1/2	1,309.06	1/2	1,640.05	1/2	1,971.04	1/2	2,302.03	1/2	2,633.02	1/2	2,963.98
3/4	107.49	3/4	377.04	3/4	670.18	3/4	985.14	3/4	1,315.96	3/4	1,646.95	3/4	1,977.94	3/4	2,308.92	3/4	2,639.91	3/4	2,970.88
5	112.85	5	382.89	5	676.52	5	991.95	5	1,322.85	5	1,653.84	5	1,984.83	5	2,315.82	5	2,646.81	5	2,977.77
1/4	118.25	1/4	388.78	1/4	682.88	1/4	998.82	1/4	1,329.75	1/4	1,660.74	1/4	1,991.73	1/4	2,322.72	1/4	2,653.70	1/4	2,984.67
1/2	123.65	1/2	394.68	1/2	689.23	1/2	1,005.70	1/2	1,336.64	1/2	1,667.63	1/2	1,998.62	1/2	2,329.61	1/2	2,660.60	1/2	2,991.56
3/4	129.05	3/4	400.57	3/4	695.59	3/4	1,012.57	3/4	1,343.54	3/4	1,674.53	3/4	2,005.52	3/4	2,336.51	3/4	2,667.50	3/4	2,998.46
6	134.45	6	406.46	6	701.94	6	1,019.45	6	1,350.44	6	1,681.42	6	2,012.41	6	2,343.40	6	2,674.39	6	3,005.35
1/4	139.89	1/4	412.39	1/4	708.34	1/4	1,026.34	1/4	1,357.33	1/4	1,688.32	1/4	2,019.31	1/4	2,350.30	1/4	2,681.29	1/4	3,012.25
1/2	145.33	1/2	418.33	1/2	714.73	1/2	1,033.24	1/2	1,364.23	1/2	1,695.22	1/2	2,026.20	1/2	2,357.19	1/2	2,688.18	1/2	3,019.14
3/4	150.77	3/4	424.26	3/4	721.13	3/4	1,040.13	3/4	1,371.12	3/4	1,702.11	3/4	2,033.10	3/4	2,364.09	3/4	2,695.08	3/4	3,026.03
7	156.22	7	430.19	7	727.53	7	1,047.03	7	1,378.02	7	1,709.01	7	2,040.00	7	2,370.98	7	2,701.97	7	3,032.93
1/4	161.70	1/4	436.17	1/4	733.95	1/4	1,053.92	1/4	1,384.91	1/4	1,715.90	1/4	2,046.89	1/4	2,377.88	1/4	2,708.87	1/4	3,039.82
1/2	167.18	1/2	442.14	1/2	740.37	1/2	1,060.82	1/2	1,391.81	1/2	1,722.80	1/2	2,053.79	1/2	2,384.78	1/2	2,715.76	1/2	3,046.72
3/4	172.66	3/4	448.11	3/4	746.80	3/4	1,067.72	3/4	1,398.70	3/4	1,729.69	3/4	2,060.68	3/4	2,391.67	3/4	2,722.66	3/4	3,053.61
8	178.15	8	454.09	8	753.22	8	1,074.61	8	1,405.60	8	1,736.59	8	2,067.58	8	2,398.57	8	2,729.56	8	3,060.51
1/4	183.67	1/4	460.10	1/4	759.69	1/4	1,081.51	1/4	1,412.50	1/4	1,743.48	1/4	2,074.47	1/4	2,405.46	1/4	2,736.45	1/4	3,067.40
1/2	189.19	1/2	466.12	1/2	766.15	1/2	1,088.40	1/2	1,419.39	1/2	1,750.38	1/2	2,081.37	1/2	2,412.36	1/2	2,743.35	1/2	3,074.30
3/4	194.72	3/4	472.13	3/4	772.61	3/4	1,095.30	3/4	1,426.29	3/4	1,757.28	3/4	2,088.26	3/4	2,419.25	3/4	2,750.24	3/4	3,081.19
9	200.24	9	478.15	9	779.08	9	1,102.19	9	1,433.18	9	1,764.17	9	2,095.16	9	2,426.15	9	2,757.14	9	3,088.09
1/4	205.80	1/4	484.20	1/4	785.58	1/4	1,109.09	1/4	1,440.08	1/4	1,771.07	1/4	2,102.06	1/4	2,433.04	1/4	2,764.03	1/4	3,094.98
1/2	211.37	1/2	490.26	1/2	792.09	1/2	1,115.99	1/2	1,446.97	1/2	1,777.96	1/2	2,108.95	1/2	2,439.94	1/2	2,770.93	1/2	3,101.88
3/4	216.93	3/4	496.32	3/4	798.60	3/4	1,122.88	3/4	1,453.87	3/4	1,784.86	3/4	2,115.85	3/4	2,446.84	3/4	2,777.82	3/4	3,108.77
10	222.50	10	502.37	10	805.10	10	1,129.78	10	1,460.77	10	1,791.75	10	2,122.74	10	2,453.73	10	2,784.72	10	3,115.67
1/4	228.10	1/4	508.47	1/4	811.64	1/4	1,136.67	1/4	1,467.66	1/4	1,798.65	1/4	2,129.64	1/4	2,460.63	1/4	2,791.62	1/4	3,122.56
1/2	233.71	1/2	514.57	1/2	818.18	1/2	1,143.57	1/2	1,474.56	1/2	1,805.55	1/2	2,136.53	1/2	2,467.52	1/2	2,798.51	1/2	3,129.46
3/4	239.31	3/4	520.66	3/4	824.73	3/4	1,150.46	3/4	1,481.45	3/4	1,812.44	3/4	2,143.43	3/4	2,474.42	3/4	2,805.40	3/4	3,136.35
11	244.92	11	526.76	11	831.27	11	1,157.36	11	1,488.35	11	1,819.34	11	2,150.33	11	2,481.31	11	2,812.30	11	3,143.24
1/4	250.57	1/4	532.90	1/4	837.85	1/4	1,164.25	1/4	1,495.24	1/4	1,826.23	1/4	2,157.22	1/4	2,488.21	1/4	2,819.19	1/4	3,150.14
1/2	256.21	1/2	539.03	1/2	844.43	1/2	1,171.15	1/2	1,502.14	1/2	1,833.13	1/2	2,164.12	1/2	2,495.11	1/2	2,826.09	1/2	3,157.03
3/4	261.86	3/4	545.17	3/4	851.02	3/4	1,178.05	3/4	1,509.03	3/4	1,840.02	3/4	2,171.01	3/4	2,502.00	3/4	2,832.98	3/4	3,163.93

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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

PRECISION MEASUREMENT
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BARGE "EMS 397"

1 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	3,170.82	0	3,501.63	0	3,820.44	0	4,118.70	0		0		0		0		0		0	
1/4	3,177.72	1/4	3,508.46	1/4	3,826.86	1/4	4,124.67	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,184.61	1/2	3,515.29	1/2	3,833.28	1/2	4,130.63	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,191.51	3/4	3,522.12	3/4	3,839.69	3/4	4,136.60	3/4		3/4		3/4		3/4		3/4		3/4	
1	3,198.40	1	3,528.95	1	3,846.11	1	4,142.57	1		1		1		1		1		1	
1/4	3,205.30	1/4	3,535.75	1/4	3,852.50	1/4	4,148.50	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,212.19	1/2	3,542.54	1/2	3,858.88	1/2	4,154.44	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,219.09	3/4	3,549.34	3/4	3,865.27	3/4	4,160.37	3/4		3/4		3/4		3/4		3/4		3/4	
2	3,225.98	2	3,556.14	2	3,871.65	2	4,166.30	2		2		2		2		2		2	
1/4	3,232.88	1/4	3,562.90	1/4	3,878.00	1/4	4,172.20	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,239.77	1/2	3,569.66	1/2	3,884.35	1/2	4,178.10	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,246.67	3/4	3,576.42	3/4	3,890.70	3/4	4,184.00	3/4		3/4		3/4		3/4		3/4		3/4	
3	3,253.56	3	3,583.18	3	3,897.05	3	4,189.90	3		3		3		3		3		3	
1/4	3,260.45	1/4	3,589.91	1/4	3,903.37	1/4	4,195.76	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,267.35	1/2	3,596.64	1/2	3,909.69	1/2	4,201.63	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,274.24	3/4	3,603.37	3/4	3,916.00	3/4	4,207.49	3/4		3/4		3/4		3/4		3/4		3/4	
4	3,281.14	4	3,610.09	4	3,922.32	4	4,213.36	4		4		4		4		4		4	
1/4	3,288.03	1/4	3,616.79	1/4	3,928.60	1/4	4,219.71	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,294.93	1/2	3,623.48	1/2	3,934.88	1/2	4,226.06	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,301.82	3/4	3,630.17	3/4	3,941.16	3/4	4,232.41	3/4		3/4		3/4		3/4		3/4		3/4	
5	3,308.72	5	3,636.87	5	3,947.45	5	4,238.76	5		5		5		5		5		5	
1/4	3,315.61	1/4	3,643.53	1/4	3,953.69	1/4	4,245.62	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,322.51	1/2	3,650.18	1/2	3,959.94	1/2	4,252.47	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,329.40	3/4	3,656.84	3/4	3,966.19	3/4	4,259.33	3/4		3/4		3/4		3/4		3/4		3/4	
6	3,336.30	6	3,663.50	6	3,972.44	6	4,266.18	6		6		6		6		6		6	
1/4	3,343.19	1/4	3,670.13	1/4	3,978.65	1/4	4,273.04	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,350.09	1/2	3,676.75	1/2	3,984.86	1/2	4,279.89	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,356.98	3/4	3,683.38	3/4	3,991.08	3/4	4,286.75	3/4		3/4		3/4		3/4		3/4		3/4	
7	3,363.88	7	3,690.00	7	3,997.29	7	4,293.60	7		7		7		7		7		7	
1/4	3,370.77	1/4	3,696.59	1/4	4,003.43	1/4	4,300.38	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,377.66	1/2	3,703.18	1/2	4,009.57	1/2	4,307.16	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,384.56	3/4	3,709.77	3/4	4,015.71	3/4	4,313.94	3/4		3/4		3/4		3/4		3/4		3/4	
8	3,391.45	8	3,716.36	8	4,021.84	8	4,320.72	8		8		8		8		8		8	
1/4	3,398.35	1/4	3,722.92	1/4	4,027.95	1/4	4,326.88	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,405.24	1/2	3,729.48	1/2	4,034.05	1/2	4,333.03	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,412.14	3/4	3,736.03	3/4	4,040.16	3/4	4,339.19	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,419.03	9	3,742.59	9	4,046.26	9	4,345.34	9		9		9		9		9		9	
1/4	3,425.93	1/4	3,749.11	1/4	4,052.33	1/4	4,350.24	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,432.82	1/2	3,755.63	1/2	4,058.40	1/2	4,355.14	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,439.72	3/4	3,762.15	3/4	4,064.48	3/4	4,360.04	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,446.61	10	3,768.67	10	4,070.55	10		10		10		10		10		10		10	
1/4	3,453.50	1/4	3,775.16	1/4	4,076.58	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,460.39	1/2	3,781.65	1/2	4,082.62	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,467.28	3/4	3,788.14	3/4	4,088.65	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
11	3,474.17	11	3,794.62	11	4,094.69	11		11		11		11		11		11		11	
1/4	3,481.04	1/4	3,801.08	1/4	4,100.69	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,487.90	1/2	3,807.53	1/2	4,106.69	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,494.77	3/4	3,813.98	3/4	4,112.70	3/4		3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 07/12/2016 SW
CALCULATED: 07/13/2016 CL
PRINTED: 07/13/2016 JS

CANCELS AND SUPERCEDES
ALL PRIOR TO 07/2016

PRECISION MEASUREMENT
& ANALYSIS, INC.
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BARGE "EMS 397"

1 STBD INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 14'-09 3/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	16.12	0	266.86	0	549.99	0	856.37	0	1,183.49	0	1,513.71	0	1,843.93	0	2,174.15	0	2,504.37	0	2,834.58
1/4	19.34	1/4	272.54	1/4	556.16	1/4	863.01	1/4	1,190.37	1/4	1,520.59	1/4	1,850.81	1/4	2,181.03	1/4	2,511.25	1/4	2,841.46
1/2	22.55	1/2	278.21	1/2	562.32	1/2	869.65	1/2	1,197.25	1/2	1,527.47	1/2	1,857.69	1/2	2,187.91	1/2	2,518.13	1/2	2,848.34
3/4	25.77	3/4	283.89	3/4	568.49	3/4	876.29	3/4	1,204.13	3/4	1,534.35	3/4	1,864.57	3/4	2,194.79	3/4	2,525.01	3/4	2,855.22
1	28.99	1	289.56	1	574.65	1	882.94	1	1,211.01	1	1,541.23	1	1,871.45	1	2,201.67	1	2,531.89	1	2,862.10
1/4	33.97	1/4	295.27	1/4	580.86	1/4	889.62	1/4	1,217.89	1/4	1,548.11	1/4	1,878.33	1/4	2,208.55	1/4	2,538.77	1/4	2,868.98
1/2	38.95	1/2	300.99	1/2	587.06	1/2	896.30	1/2	1,224.77	1/2	1,554.99	1/2	1,885.21	1/2	2,215.43	1/2	2,545.65	1/2	2,875.86
3/4	43.92	3/4	306.70	3/4	593.27	3/4	902.98	3/4	1,231.64	3/4	1,561.87	3/4	1,892.09	3/4	2,222.31	3/4	2,552.53	3/4	2,882.73
2	48.90	2	312.42	2	599.47	2	909.67	2	1,238.52	2	1,568.75	2	1,898.97	2	2,229.19	2	2,559.41	2	2,889.61
1/4	54.17	1/4	318.17	1/4	605.72	1/4	916.39	1/4	1,245.40	1/4	1,575.62	1/4	1,905.85	1/4	2,236.07	1/4	2,566.29	1/4	2,896.49
1/2	59.43	1/2	323.93	1/2	611.96	1/2	923.11	1/2	1,252.28	1/2	1,582.50	1/2	1,912.73	1/2	2,242.95	1/2	2,573.17	1/2	2,903.37
3/4	64.70	3/4	329.68	3/4	618.21	3/4	929.83	3/4	1,259.16	3/4	1,589.38	3/4	1,919.60	3/4	2,249.83	3/4	2,580.05	3/4	2,910.25
3	69.96	3	335.44	3	624.46	3	936.56	3	1,266.04	3	1,596.26	3	1,926.48	3	2,256.71	3	2,586.93	3	2,917.13
1/4	75.27	1/4	341.24	1/4	630.74	1/4	943.34	1/4	1,272.92	1/4	1,603.14	1/4	1,933.36	1/4	2,263.58	1/4	2,593.81	1/4	2,924.01
1/2	80.57	1/2	347.03	1/2	637.03	1/2	950.11	1/2	1,279.80	1/2	1,610.02	1/2	1,940.24	1/2	2,270.46	1/2	2,600.69	1/2	2,930.88
3/4	85.88	3/4	352.83	3/4	643.32	3/4	956.89	3/4	1,286.68	3/4	1,616.90	3/4	1,947.12	3/4	2,277.34	3/4	2,607.56	3/4	2,937.76
4	91.19	4	358.63	4	649.60	4	963.67	4	1,293.56	4	1,623.78	4	1,954.00	4	2,284.22	4	2,614.44	4	2,944.64
1/4	96.53	1/4	364.46	1/4	655.93	1/4	970.49	1/4	1,300.44	1/4	1,630.66	1/4	1,960.88	1/4	2,291.10	1/4	2,621.32	1/4	2,951.52
1/2	101.88	1/2	370.30	1/2	662.26	1/2	977.30	1/2	1,307.32	1/2	1,637.54	1/2	1,967.76	1/2	2,297.98	1/2	2,628.20	1/2	2,958.40
3/4	107.23	3/4	376.14	3/4	668.59	3/4	984.12	3/4	1,314.20	3/4	1,644.42	3/4	1,974.64	3/4	2,304.86	3/4	2,635.08	3/4	2,965.28
5	112.57	5	381.97	5	674.91	5	990.94	5	1,321.08	5	1,651.30	5	1,981.52	5	2,311.74	5	2,641.96	5	2,972.16
1/4	117.96	1/4	387.85	1/4	681.28	1/4	997.80	1/4	1,327.96	1/4	1,658.18	1/4	1,988.40	1/4	2,318.62	1/4	2,648.84	1/4	2,979.03
1/2	123.35	1/2	393.73	1/2	687.65	1/2	1,004.66	1/2	1,334.84	1/2	1,665.06	1/2	1,995.28	1/2	2,325.50	1/2	2,655.72	1/2	2,985.91
3/4	128.74	3/4	399.61	3/4	694.02	3/4	1,011.52	3/4	1,341.72	3/4	1,671.94	3/4	2,002.16	3/4	2,332.38	3/4	2,662.60	3/4	2,992.79
6	134.13	6	405.49	6	700.39	6	1,018.38	6	1,348.60	6	1,678.82	6	2,009.04	6	2,339.26	6	2,669.48	6	2,999.67
1/4	139.55	1/4	411.41	1/4	706.80	1/4	1,025.26	1/4	1,355.48	1/4	1,685.70	1/4	2,015.92	1/4	2,346.14	1/4	2,676.36	1/4	3,006.55
1/2	144.98	1/2	417.32	1/2	713.21	1/2	1,032.14	1/2	1,362.36	1/2	1,692.58	1/2	2,022.80	1/2	2,353.02	1/2	2,683.24	1/2	3,013.43
3/4	150.41	3/4	423.24	3/4	719.62	3/4	1,039.02	3/4	1,369.24	3/4	1,699.46	3/4	2,029.68	3/4	2,359.90	3/4	2,690.12	3/4	3,020.31
7	155.84	7	429.16	7	726.02	7	1,045.90	7	1,376.12	7	1,706.34	7	2,036.56	7	2,366.78	7	2,697.00	7	3,027.18
1/4	161.31	1/4	435.12	1/4	732.46	1/4	1,052.78	1/4	1,383.00	1/4	1,713.22	1/4	2,043.44	1/4	2,373.66	1/4	2,703.88	1/4	3,034.06
1/2	166.78	1/2	441.08	1/2	738.90	1/2	1,059.65	1/2	1,389.88	1/2	1,720.10	1/2	2,050.32	1/2	2,380.54	1/2	2,710.76	1/2	3,040.94
3/4	172.25	3/4	447.04	3/4	745.34	3/4	1,066.53	3/4	1,396.76	3/4	1,726.98	3/4	2,057.20	3/4	2,387.42	3/4	2,717.64	3/4	3,047.82
8	177.72	8	453.00	8	751.77	8	1,073.41	8	1,403.63	8	1,733.86	8	2,064.08	8	2,394.30	8	2,724.52	8	3,054.70
1/4	183.23	1/4	459.00	1/4	758.25	1/4	1,080.29	1/4	1,410.51	1/4	1,740.74	1/4	2,070.96	1/4	2,401.18	1/4	2,731.40	1/4	3,061.58
1/2	188.74	1/2	465.00	1/2	764.73	1/2	1,087.17	1/2	1,417.39	1/2	1,747.61	1/2	2,077.84	1/2	2,408.06	1/2	2,738.28	1/2	3,068.46
3/4	194.25	3/4	471.00	3/4	771.21	3/4	1,094.05	3/4	1,424.27	3/4	1,754.49	3/4	2,084.72	3/4	2,414.94	3/4	2,745.16	3/4	3,075.33
9	199.76	9	477.01	9	777.69	9	1,100.93	9	1,431.15	9	1,761.37	9	2,091.59	9	2,421.82	9	2,752.04	9	3,082.21
1/4	205.31	1/4	483.05	1/4	784.21	1/4	1,107.81	1/4	1,438.03	1/4	1,768.25	1/4	2,098.47	1/4	2,428.70	1/4	2,758.92	1/4	3,089.09
1/2	210.86	1/2	489.09	1/2	790.72	1/2	1,114.69	1/2	1,444.91	1/2	1,775.13	1/2	2,105.35	1/2	2,435.57	1/2	2,765.80	1/2	3,095.97
3/4	216.41	3/4	495.13	3/4	797.24	3/4	1,121.57	3/4	1,451.79	3/4	1,782.01	3/4	2,112.23	3/4	2,442.45	3/4	2,772.68	3/4	3,102.85
10	221.96	10	501.17	10	803.76	10	1,128.45	10	1,458.67	10	1,788.89	10	2,119.11	10	2,449.33	10	2,779.55	10	3,109.73
1/4	227.56	1/4	507.25	1/4	810.32	1/4	1,135.33	1/4	1,465.55	1/4	1,795.77	1/4	2,125.99	1/4	2,456.21	1/4	2,786.43	1/4	3,116.61
1/2	233.15	1/2	513.34	1/2	816.87	1/2	1,142.21	1/2	1,472.43	1/2	1,802.65	1/2	2,132.87	1/2	2,463.09	1/2	2,793.31	1/2	3,123.48
3/4	238.74	3/4	519.42	3/4	823.43	3/4	1,149.09	3/4	1,479.31	3/4	1,809.53	3/4	2,139.75	3/4	2,469.97	3/4	2,800.19	3/4	3,130.36
11	244.33	11	525.50	11	829.98	11	1,155.97	11	1,486.19	11	1,816.41	11	2,146.63	11	2,476.85	11	2,807.07	11	3,137.24
1/4	249.96	1/4	531.62	1/4	836.58	1/4	1,162.85	1/4	1,493.07	1/4	1,823.29	1/4	2,153.51	1/4	2,483.73	1/4	2,813.95	1/4	3,144.12
1/2	255.60	1/2	537.75	1/2	843.18	1/2	1,169.73	1/2	1,499.95	1/2	1,830.17	1/2	2,160.39	1/2	2,490.61	1/2	2,820.83	1/2	3,151.00
3/4	261.23	3/4	543.87	3/4	849.77	3/4	1,176.61	3/4	1,506.83	3/4	1,837.05	3/4	2,167.27	3/4	2,497.49	3/4	2,827.70	3/4	3,157.88

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

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT
 & ANALYSIS, INC.
 P.O. Box 2092
 Pearland, Texas 77588
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BARGE "EMS 397"

**1 STBD
INNAGE TABLE**

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 14'-09 3/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	3,164.76	0	3,494.78	0	3,812.84	0	4,110.39	0		0		0		0		0		0	
1/4	3,171.63	1/4	3,501.59	1/4	3,819.24	1/4	4,116.35	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,178.51	1/2	3,508.41	1/2	3,825.64	1/2	4,122.30	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,185.39	3/4	3,515.22	3/4	3,832.05	3/4	4,128.25	3/4		3/4		3/4		3/4		3/4		3/4	
1	3,192.27	1	3,522.03	1	3,838.45	1	4,134.21	1		1		1		1		1		1	
1/4	3,199.15	1/4	3,528.81	1/4	3,844.82	1/4	4,140.13	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,206.03	1/2	3,535.59	1/2	3,851.19	1/2	4,146.05	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,212.91	3/4	3,542.37	3/4	3,857.56	3/4	4,151.97	3/4		3/4		3/4		3/4		3/4		3/4	
2	3,219.79	2	3,549.15	2	3,863.93	2	4,157.89	2		2		2		2		2		2	
1/4	3,226.66	1/4	3,555.90	1/4	3,870.27	1/4	4,163.77	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,233.54	1/2	3,562.65	1/2	3,876.60	1/2	4,169.66	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,240.42	3/4	3,569.39	3/4	3,882.94	3/4	4,175.54	3/4		3/4		3/4		3/4		3/4		3/4	
3	3,247.30	3	3,576.14	3	3,889.27	3	4,181.43	3		3		3		3		3		3	
1/4	3,254.18	1/4	3,582.85	1/4	3,895.57	1/4	4,187.28	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,261.06	1/2	3,589.56	1/2	3,901.88	1/2	4,193.13	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,267.94	3/4	3,596.27	3/4	3,908.18	3/4	4,198.98	3/4		3/4		3/4		3/4		3/4		3/4	
4	3,274.81	4	3,602.99	4	3,914.48	4	4,204.83	4		4		4		4		4		4	
1/4	3,281.69	1/4	3,609.66	1/4	3,920.74	1/4	4,211.16	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,288.57	1/2	3,616.34	1/2	3,927.01	1/2	4,217.50	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,295.45	3/4	3,623.02	3/4	3,933.28	3/4	4,223.84	3/4		3/4		3/4		3/4		3/4		3/4	
5	3,302.33	5	3,629.70	5	3,939.55	5	4,230.17	5		5		5		5		5		5	
1/4	3,309.21	1/4	3,636.34	1/4	3,945.78	1/4	4,237.01	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,316.09	1/2	3,642.98	1/2	3,952.01	1/2	4,243.85	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,322.96	3/4	3,649.63	3/4	3,958.24	3/4	4,250.69	3/4		3/4		3/4		3/4		3/4		3/4	
6	3,329.84	6	3,656.27	6	3,964.48	6	4,257.53	6		6		6		6		6		6	
1/4	3,336.72	1/4	3,662.88	1/4	3,970.68	1/4	4,264.37	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,343.60	1/2	3,669.49	1/2	3,976.87	1/2	4,271.21	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,350.48	3/4	3,676.10	3/4	3,983.07	3/4	4,278.05	3/4		3/4		3/4		3/4		3/4		3/4	
7	3,357.36	7	3,682.71	7	3,989.27	7	4,284.88	7		7		7		7		7		7	
1/4	3,364.24	1/4	3,689.28	1/4	3,995.40	1/4	4,291.65	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,371.11	1/2	3,695.86	1/2	4,001.52	1/2	4,298.41	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,377.99	3/4	3,702.43	3/4	4,007.64	3/4	4,305.18	3/4		3/4		3/4		3/4		3/4		3/4	
8	3,384.87	8	3,709.01	8	4,013.77	8	4,311.94	8		8		8		8		8		8	
1/4	3,391.75	1/4	3,715.55	1/4	4,019.86	1/4	4,318.09	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,398.63	1/2	3,722.09	1/2	4,025.95	1/2	4,324.23	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,405.51	3/4	3,728.63	3/4	4,032.04	3/4	4,330.37	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,412.39	9	3,735.17	9	4,038.13	9	4,336.51	9		9		9		9		9		9	
1/4	3,419.26	1/4	3,741.68	1/4	4,044.19	1/4	4,341.40	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,426.14	1/2	3,748.18	1/2	4,050.24	1/2	4,346.29	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,433.02	3/4	3,754.69	3/4	4,056.30	3/4	4,351.18	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,439.90	10	3,761.20	10	4,062.36	10		10		10		10		10		10		10	
1/4	3,446.77	1/4	3,767.67	1/4	4,068.38	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,453.64	1/2	3,774.14	1/2	4,074.40	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,460.51	3/4	3,780.61	3/4	4,080.42	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
11	3,467.38	11	3,787.09	11	4,086.44	11		11		11		11		11		11		11	
1/4	3,474.23	1/4	3,793.52	1/4	4,092.43	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,481.08	1/2	3,799.96	1/2	4,098.42	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,487.93	3/4	3,806.40	3/4	4,104.41	3/4		3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 07/12/2016 SW
CALCULATED: 07/13/2016 CL
PRINTED: 07/13/2016 JS

CANCELS AND SUPERCEDES
ALL PRIOR TO 07/2016

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



BARGE "EMS 397"

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	18.87	0	396.80	0	774.85	0	1,158.23	0	1,546.59	0	1,934.96	0	2,323.32	0	2,711.68	0	3,100.05	0	3,488.40
1/4	24.65	1/4	404.89	1/4	782.62	1/4	1,166.32	1/4	1,554.68	1/4	1,943.05	1/4	2,331.41	1/4	2,719.77	1/4	3,108.14	1/4	3,496.49
1/2	30.43	1/2	412.98	1/2	790.39	1/2	1,174.41	1/2	1,562.78	1/2	1,951.14	1/2	2,339.50	1/2	2,727.86	1/2	3,116.23	1/2	3,504.58
3/4	36.20	3/4	421.07	3/4	798.16	3/4	1,182.50	3/4	1,570.87	3/4	1,959.23	3/4	2,347.59	3/4	2,735.96	3/4	3,124.32	3/4	3,512.67
1	41.98	1	429.16	1	805.92	1	1,190.59	1	1,578.96	1	1,967.32	1	2,355.68	1	2,744.05	1	3,132.41	1	3,520.76
1/4	49.78	1/4	437.25	1/4	813.70	1/4	1,198.68	1/4	1,587.05	1/4	1,975.41	1/4	2,363.77	1/4	2,752.14	1/4	3,140.50	1/4	3,528.85
1/2	57.59	1/2	445.34	1/2	821.48	1/2	1,206.78	1/2	1,595.14	1/2	1,983.50	1/2	2,371.87	1/2	2,760.23	1/2	3,148.59	1/2	3,536.94
3/4	65.39	3/4	453.43	3/4	829.26	3/4	1,214.87	3/4	1,603.23	3/4	1,991.59	3/4	2,379.96	3/4	2,768.32	3/4	3,156.68	3/4	3,545.03
2	73.19	2	461.52	2	837.04	2	1,222.96	2	1,611.32	2	1,999.68	2	2,388.05	2	2,776.41	2	3,164.77	2	3,553.12
1/4	81.28	1/4	469.61	1/4	844.83	1/4	1,231.05	1/4	1,619.41	1/4	2,007.77	1/4	2,396.14	1/4	2,784.50	1/4	3,172.86	1/4	3,561.21
1/2	89.37	1/2	477.70	1/2	852.61	1/2	1,239.14	1/2	1,627.50	1/2	2,015.87	1/2	2,404.23	1/2	2,792.59	1/2	3,180.96	1/2	3,569.30
3/4	97.46	3/4	485.79	3/4	860.40	3/4	1,247.23	3/4	1,635.59	3/4	2,023.96	3/4	2,412.32	3/4	2,800.68	3/4	3,189.05	3/4	3,577.39
3	105.55	3	493.88	3	868.18	3	1,255.32	3	1,643.68	3	2,032.05	3	2,420.41	3	2,808.77	3	3,197.14	3	3,585.48
1/4	113.64	1/4	501.97	1/4	875.97	1/4	1,263.41	1/4	1,651.78	1/4	2,040.14	1/4	2,428.50	1/4	2,816.86	1/4	3,205.23	1/4	3,593.57
1/2	121.73	1/2	510.06	1/2	883.75	1/2	1,271.50	1/2	1,659.87	1/2	2,048.23	1/2	2,436.59	1/2	2,824.96	1/2	3,213.32	1/2	3,601.66
3/4	129.82	3/4	518.15	3/4	891.54	3/4	1,279.59	3/4	1,667.96	3/4	2,056.32	3/4	2,444.68	3/4	2,833.05	3/4	3,221.41	3/4	3,609.75
4	137.91	4	526.24	4	899.32	4	1,287.68	4	1,676.05	4	2,064.41	4	2,452.77	4	2,841.14	4	3,229.50	4	3,617.84
1/4	146.00	1/4	534.02	1/4	907.41	1/4	1,295.78	1/4	1,684.14	1/4	2,072.50	1/4	2,460.87	1/4	2,849.23	1/4	3,237.59	1/4	3,625.92
1/2	154.09	1/2	541.80	1/2	915.50	1/2	1,303.87	1/2	1,692.23	1/2	2,080.59	1/2	2,468.96	1/2	2,857.32	1/2	3,245.68	1/2	3,634.01
3/4	162.18	3/4	549.58	3/4	923.59	3/4	1,311.96	3/4	1,700.32	3/4	2,088.68	3/4	2,477.05	3/4	2,865.41	3/4	3,253.77	3/4	3,642.10
5	170.27	5	557.35	5	931.69	5	1,320.05	5	1,708.41	5	2,096.77	5	2,485.14	5	2,873.50	5	3,261.86	5	3,650.19
1/4	178.36	1/4	565.12	1/4	939.78	1/4	1,328.14	1/4	1,716.50	1/4	2,104.87	1/4	2,493.23	1/4	2,881.59	1/4	3,269.96	1/4	3,658.28
1/2	186.45	1/2	572.89	1/2	947.87	1/2	1,336.23	1/2	1,724.59	1/2	2,112.96	1/2	2,501.32	1/2	2,889.68	1/2	3,278.05	1/2	3,666.37
3/4	194.54	3/4	580.66	3/4	955.96	3/4	1,344.32	3/4	1,732.68	3/4	2,121.05	3/4	2,509.41	3/4	2,897.77	3/4	3,286.14	3/4	3,674.46
6	202.63	6	588.43	6	964.05	6	1,352.41	6	1,740.78	6	2,129.14	6	2,517.50	6	2,905.86	6	3,294.23	6	3,682.55
1/4	210.72	1/4	596.20	1/4	972.14	1/4	1,360.50	1/4	1,748.87	1/4	2,137.23	1/4	2,525.59	1/4	2,913.96	1/4	3,302.32	1/4	3,690.64
1/2	218.81	1/2	603.97	1/2	980.23	1/2	1,368.59	1/2	1,756.96	1/2	2,145.32	1/2	2,533.68	1/2	2,922.05	1/2	3,310.41	1/2	3,698.73
3/4	226.90	3/4	611.74	3/4	988.32	3/4	1,376.68	3/4	1,765.05	3/4	2,153.41	3/4	2,541.77	3/4	2,930.14	3/4	3,318.50	3/4	3,706.82
7	234.99	7	619.51	7	996.41	7	1,384.78	7	1,773.14	7	2,161.50	7	2,549.87	7	2,938.23	7	3,326.59	7	3,714.91
1/4	243.08	1/4	627.27	1/4	1,004.50	1/4	1,392.87	1/4	1,781.23	1/4	2,169.59	1/4	2,557.96	1/4	2,946.32	1/4	3,334.68	1/4	3,723.00
1/2	251.17	1/2	635.04	1/2	1,012.59	1/2	1,400.96	1/2	1,789.32	1/2	2,177.68	1/2	2,566.05	1/2	2,954.41	1/2	3,342.77	1/2	3,731.09
3/4	259.26	3/4	642.81	3/4	1,020.69	3/4	1,409.05	3/4	1,797.41	3/4	2,185.77	3/4	2,574.14	3/4	2,962.50	3/4	3,350.86	3/4	3,739.18
8	267.35	8	650.58	8	1,028.78	8	1,417.14	8	1,805.50	8	2,193.87	8	2,582.23	8	2,970.59	8	3,358.96	8	3,747.27
1/4	275.44	1/4	658.35	1/4	1,036.87	1/4	1,425.23	1/4	1,813.59	1/4	2,201.96	1/4	2,590.32	1/4	2,978.68	1/4	3,367.05	1/4	3,755.36
1/2	283.53	1/2	666.11	1/2	1,044.96	1/2	1,433.32	1/2	1,821.68	1/2	2,210.05	1/2	2,598.41	1/2	2,986.77	1/2	3,375.14	1/2	3,763.45
3/4	291.62	3/4	673.88	3/4	1,053.05	3/4	1,441.41	3/4	1,829.77	3/4	2,218.14	3/4	2,606.50	3/4	2,994.86	3/4	3,383.23	3/4	3,771.54
9	299.71	9	681.64	9	1,061.14	9	1,449.50	9	1,837.87	9	2,226.23	9	2,614.59	9	3,002.96	9	3,391.32	9	3,779.63
1/4	307.80	1/4	689.40	1/4	1,069.23	1/4	1,457.59	1/4	1,845.96	1/4	2,234.32	1/4	2,622.68	1/4	3,011.05	1/4	3,399.41	1/4	3,787.72
1/2	315.89	1/2	697.17	1/2	1,077.32	1/2	1,465.68	1/2	1,854.05	1/2	2,242.41	1/2	2,630.77	1/2	3,019.14	1/2	3,407.50	1/2	3,795.81
3/4	323.98	3/4	704.93	3/4	1,085.41	3/4	1,473.78	3/4	1,862.14	3/4	2,250.50	3/4	2,638.87	3/4	3,027.23	3/4	3,415.59	3/4	3,803.90
10	332.07	10	712.70	10	1,093.50	10	1,481.87	10	1,870.23	10	2,258.59	10	2,646.96	10	3,035.32	10	3,423.68	10	3,811.99
1/4	340.16	1/4	720.47	1/4	1,101.59	1/4	1,489.96	1/4	1,878.32	1/4	2,266.68	1/4	2,655.05	1/4	3,043.41	1/4	3,431.77	1/4	3,820.08
1/2	348.25	1/2	728.24	1/2	1,109.68	1/2	1,498.05	1/2	1,886.41	1/2	2,274.77	1/2	2,663.14	1/2	3,051.50	1/2	3,439.86	1/2	3,828.17
3/4	356.34	3/4	736.00	3/4	1,117.78	3/4	1,506.14	3/4	1,894.50	3/4	2,282.87	3/4	2,671.23	3/4	3,059.59	3/4	3,447.95	3/4	3,836.26
11	364.43	11	743.77	11	1,125.87	11	1,514.23	11	1,902.59	11	2,290.96	11	2,679.32	11	3,067.68	11	3,456.04	11	3,844.35
1/4	372.52	1/4	751.54	1/4	1,133.96	1/4	1,522.32	1/4	1,910.68	1/4	2,299.05	1/4	2,687.41	1/4	3,075.77	1/4	3,464.13	1/4	3,852.44
1/2	380.62	1/2	759.31	1/2	1,142.05	1/2	1,530.41	1/2	1,918.77	1/2	2,307.14	1/2	2,695.50	1/2	3,083.86	1/2	3,472.22	1/2	3,860.53
3/4	388.71	3/4	767.08	3/4	1,150.14	3/4	1,538.50	3/4	1,926.87	3/4	2,315.23	3/4	2,703.59	3/4	3,091.96	3/4	3,480.31	3/4	3,868.62

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

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT
 & ANALYSIS, INC.
 P.O. Box 2092
 Pearland, Texas 77588
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BARGE "EMS 397"

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	3,876.71	0	4,264.84	0	4,638.90	0	4,988.83	0		0		0		0		0		0	
1/4	3,884.80	1/4	4,272.85	1/4	4,646.43	1/4	4,995.83	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,892.88	1/2	4,280.87	1/2	4,653.96	1/2	5,002.83	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,900.97	3/4	4,288.88	3/4	4,661.49	3/4	5,009.83	3/4		3/4		3/4		3/4		3/4		3/4	
1	3,909.06	1	4,296.89	1	4,669.02	1	5,016.83	1		1		1		1		1		1	
1/4	3,917.15	1/4	4,304.87	1/4	4,676.51	1/4	5,023.79	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,925.24	1/2	4,312.84	1/2	4,684.00	1/2	5,030.75	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,933.33	3/4	4,320.82	3/4	4,691.49	3/4	5,037.71	3/4		3/4		3/4		3/4		3/4		3/4	
2	3,941.42	2	4,328.79	2	4,698.99	2	5,044.67	2		2		2		2		2		2	
1/4	3,949.51	1/4	4,336.72	1/4	4,706.44	1/4	5,051.59	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,957.60	1/2	4,344.66	1/2	4,713.89	1/2	5,058.51	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,965.69	3/4	4,352.59	3/4	4,721.34	3/4	5,065.43	3/4		3/4		3/4		3/4		3/4		3/4	
3	3,973.78	3	4,360.53	3	4,728.79	3	5,072.35	3		3		3		3		3		3	
1/4	3,981.87	1/4	4,368.42	1/4	4,736.20	1/4	5,079.23	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,989.96	1/2	4,376.31	1/2	4,743.61	1/2	5,086.11	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,998.05	3/4	4,384.21	3/4	4,751.02	3/4	5,092.99	3/4		3/4		3/4		3/4		3/4		3/4	
4	4,006.14	4	4,392.10	4	4,758.43	4	5,099.87	4		4		4		4		4		4	
1/4	4,014.23	1/4	4,399.95	1/4	4,765.80	1/4	5,107.33	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,022.32	1/2	4,407.81	1/2	4,773.17	1/2	5,114.78	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,030.41	3/4	4,415.66	3/4	4,780.54	3/4	5,122.23	3/4		3/4		3/4		3/4		3/4		3/4	
5	4,038.50	5	4,423.51	5	4,787.91	5	5,129.68	5		5		5		5		5		5	
1/4	4,046.59	1/4	4,431.33	1/4	4,795.24	1/4	5,137.72	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,054.68	1/2	4,439.14	1/2	4,802.57	1/2	5,145.76	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,062.77	3/4	4,446.95	3/4	4,809.90	3/4	5,153.81	3/4		3/4		3/4		3/4		3/4		3/4	
6	4,070.86	6	4,454.77	6	4,817.23	6	5,161.85	6		6		6		6		6		6	
1/4	4,078.95	1/4	4,462.54	1/4	4,824.52	1/4	5,169.89	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,087.04	1/2	4,470.31	1/2	4,831.81	1/2	5,177.93	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,095.13	3/4	4,478.08	3/4	4,839.10	3/4	5,185.98	3/4		3/4		3/4		3/4		3/4		3/4	
7	4,103.22	7	4,485.86	7	4,846.39	7	5,194.02	7		7		7		7		7		7	
1/4	4,111.31	1/4	4,493.59	1/4	4,853.59	1/4	5,201.98	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,119.40	1/2	4,501.32	1/2	4,860.80	1/2	5,209.93	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,127.49	3/4	4,509.05	3/4	4,868.00	3/4	5,217.89	3/4		3/4		3/4		3/4		3/4		3/4	
8	4,135.58	8	4,516.79	8	4,875.20	8	5,225.85	8		8		8		8		8		8	
1/4	4,143.67	1/4	4,524.48	1/4	4,882.36	1/4	5,233.07	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,151.76	1/2	4,532.17	1/2	4,889.52	1/2	5,240.29	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,159.85	3/4	4,539.86	3/4	4,896.69	3/4	5,247.52	3/4		3/4		3/4		3/4		3/4		3/4	
9	4,167.93	9	4,547.56	9	4,903.85	9	5,254.74	9		9		9		9		9		9	
1/4	4,176.02	1/4	4,555.21	1/4	4,910.97	1/4	5,260.49	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,184.11	1/2	4,562.86	1/2	4,918.09	1/2	5,266.24	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,192.20	3/4	4,570.51	3/4	4,925.21	3/4	5,271.99	3/4		3/4		3/4		3/4		3/4		3/4	
10	4,200.29	10	4,578.16	10	4,932.33	10		10		10		10		10		10		10	
1/4	4,208.38	1/4	4,585.78	1/4	4,939.42	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,216.46	1/2	4,593.39	1/2	4,946.50	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,224.54	3/4	4,601.00	3/4	4,953.58	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
11	4,232.62	11	4,608.61	11	4,960.66	11		11		11		11		11		11		11	
1/4	4,240.67	1/4	4,616.18	1/4	4,967.70	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,248.73	1/2	4,623.75	1/2	4,974.74	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,256.78	3/4	4,631.33	3/4	4,981.78	3/4		3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 07/12/2016 SW
CALCULATED: 07/13/2016 CL
PRINTED: 07/13/2016 JS

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CANCELS AND SUPERCEDES
ALL PRIOR TO 07/2016



BARGE "EMS 397"

2 STBD INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 14'-09 3/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	18.83	0	395.91	0	783.07	0	1,170.52	0	1,558.02	0	1,945.52	0	2,333.02	0	2,720.52	0	3,108.02	0	3,495.51
1/4	24.59	1/4	403.98	1/4	791.13	1/4	1,178.60	1/4	1,566.10	1/4	1,953.60	1/4	2,341.10	1/4	2,728.59	1/4	3,116.09	1/4	3,503.58
1/2	30.36	1/2	412.06	1/2	799.19	1/2	1,186.67	1/2	1,574.17	1/2	1,961.67	1/2	2,349.17	1/2	2,736.67	1/2	3,124.17	1/2	3,511.65
3/4	36.12	3/4	420.13	3/4	807.25	3/4	1,194.74	3/4	1,582.24	3/4	1,969.74	3/4	2,357.24	3/4	2,744.74	3/4	3,132.24	3/4	3,519.72
1	41.89	1	428.20	1	815.32	1	1,202.82	1	1,590.32	1	1,977.81	1	2,365.31	1	2,752.81	1	3,140.31	1	3,527.79
1/4	49.67	1/4	436.27	1/4	823.39	1/4	1,210.89	1/4	1,598.39	1/4	1,985.89	1/4	2,373.39	1/4	2,760.89	1/4	3,148.39	1/4	3,535.87
1/2	57.46	1/2	444.35	1/2	831.46	1/2	1,218.96	1/2	1,606.46	1/2	1,993.96	1/2	2,381.46	1/2	2,768.96	1/2	3,156.46	1/2	3,543.94
3/4	65.24	3/4	452.42	3/4	839.54	3/4	1,227.03	3/4	1,614.53	3/4	2,002.03	3/4	2,389.53	3/4	2,777.03	3/4	3,164.53	3/4	3,552.01
2	73.02	2	460.49	2	847.61	2	1,235.11	2	1,622.61	2	2,010.11	2	2,397.61	2	2,785.10	2	3,172.60	2	3,560.08
1/4	81.10	1/4	468.56	1/4	855.68	1/4	1,243.18	1/4	1,630.68	1/4	2,018.18	1/4	2,405.68	1/4	2,793.18	1/4	3,180.68	1/4	3,568.15
1/2	89.17	1/2	476.63	1/2	863.75	1/2	1,251.25	1/2	1,638.75	1/2	2,026.25	1/2	2,413.75	1/2	2,801.25	1/2	3,188.75	1/2	3,576.22
3/4	97.24	3/4	484.71	3/4	871.83	3/4	1,259.33	3/4	1,646.83	3/4	2,034.32	3/4	2,421.82	3/4	2,809.32	3/4	3,196.82	3/4	3,584.30
3	105.31	3	492.78	3	879.90	3	1,267.40	3	1,654.90	3	2,042.40	3	2,429.90	3	2,817.40	3	3,204.90	3	3,592.37
1/4	113.39	1/4	500.85	1/4	887.97	1/4	1,275.47	1/4	1,662.97	1/4	2,050.47	1/4	2,437.97	1/4	2,825.47	1/4	3,212.97	1/4	3,600.44
1/2	121.46	1/2	508.92	1/2	896.05	1/2	1,283.55	1/2	1,671.04	1/2	2,058.54	1/2	2,446.04	1/2	2,833.54	1/2	3,221.04	1/2	3,608.51
3/4	129.53	3/4	517.00	3/4	904.12	3/4	1,291.62	3/4	1,679.12	3/4	2,066.62	3/4	2,454.12	3/4	2,841.61	3/4	3,229.11	3/4	3,616.58
4	137.60	4	525.07	4	912.19	4	1,299.69	4	1,687.19	4	2,074.69	4	2,462.19	4	2,849.69	4	3,237.19	4	3,624.65
1/4	145.67	1/4	533.14	1/4	920.26	1/4	1,307.76	1/4	1,695.26	1/4	2,082.76	1/4	2,470.26	1/4	2,857.76	1/4	3,245.26	1/4	3,632.72
1/2	153.75	1/2	541.21	1/2	928.34	1/2	1,315.84	1/2	1,703.34	1/2	2,090.84	1/2	2,478.33	1/2	2,865.83	1/2	3,253.33	1/2	3,640.80
3/4	161.82	3/4	549.28	3/4	936.41	3/4	1,323.91	3/4	1,711.41	3/4	2,098.91	3/4	2,486.41	3/4	2,873.91	3/4	3,261.41	3/4	3,648.87
5	169.89	5	557.36	5	944.48	5	1,331.98	5	1,719.48	5	2,106.98	5	2,494.48	5	2,881.98	5	3,269.48	5	3,656.94
1/4	177.96	1/4	565.42	1/4	952.56	1/4	1,340.06	1/4	1,727.55	1/4	2,115.05	1/4	2,502.55	1/4	2,890.05	1/4	3,277.55	1/4	3,665.01
1/2	186.04	1/2	573.48	1/2	960.63	1/2	1,348.13	1/2	1,735.63	1/2	2,123.13	1/2	2,510.63	1/2	2,898.13	1/2	3,285.62	1/2	3,673.08
3/4	194.11	3/4	581.54	3/4	968.70	3/4	1,356.20	3/4	1,743.70	3/4	2,131.20	3/4	2,518.70	3/4	2,906.20	3/4	3,293.70	3/4	3,681.15
6	202.18	6	589.61	6	976.78	6	1,364.27	6	1,751.77	6	2,139.27	6	2,526.77	6	2,914.27	6	3,301.77	6	3,689.22
1/4	210.25	1/4	597.67	1/4	984.85	1/4	1,372.35	1/4	1,759.85	1/4	2,147.35	1/4	2,534.84	1/4	2,922.34	1/4	3,309.84	1/4	3,697.30
1/2	218.32	1/2	605.73	1/2	992.92	1/2	1,380.42	1/2	1,767.92	1/2	2,155.42	1/2	2,542.92	1/2	2,930.42	1/2	3,317.92	1/2	3,705.37
3/4	226.40	3/4	613.79	3/4	1,000.99	3/4	1,388.49	3/4	1,775.99	3/4	2,163.49	3/4	2,550.99	3/4	2,938.49	3/4	3,325.99	3/4	3,713.44
7	234.47	7	621.86	7	1,009.07	7	1,396.57	7	1,784.06	7	2,171.56	7	2,559.06	7	2,946.56	7	3,334.06	7	3,721.51
1/4	242.54	1/4	629.92	1/4	1,017.14	1/4	1,404.64	1/4	1,792.14	1/4	2,179.64	1/4	2,567.14	1/4	2,954.64	1/4	3,342.13	1/4	3,729.58
1/2	250.61	1/2	637.98	1/2	1,025.21	1/2	1,412.71	1/2	1,800.21	1/2	2,187.71	1/2	2,575.21	1/2	2,962.71	1/2	3,350.21	1/2	3,737.65
3/4	258.68	3/4	646.04	3/4	1,033.29	3/4	1,420.78	3/4	1,808.28	3/4	2,195.78	3/4	2,583.28	3/4	2,970.78	3/4	3,358.28	3/4	3,745.73
8	266.76	8	654.11	8	1,041.36	8	1,428.86	8	1,816.36	8	2,203.86	8	2,591.36	8	2,978.85	8	3,366.35	8	3,753.80
1/4	274.83	1/4	662.16	1/4	1,049.43	1/4	1,436.93	1/4	1,824.43	1/4	2,211.93	1/4	2,599.43	1/4	2,986.93	1/4	3,374.43	1/4	3,761.87
1/2	282.90	1/2	670.22	1/2	1,057.50	1/2	1,445.00	1/2	1,832.50	1/2	2,220.00	1/2	2,607.50	1/2	2,995.00	1/2	3,382.50	1/2	3,769.94
3/4	290.97	3/4	678.28	3/4	1,065.58	3/4	1,453.08	3/4	1,840.58	3/4	2,228.07	3/4	2,615.57	3/4	3,003.07	3/4	3,390.57	3/4	3,778.01
9	299.05	9	686.34	9	1,073.65	9	1,461.15	9	1,848.65	9	2,236.15	9	2,623.65	9	3,011.15	9	3,398.65	9	3,786.08
1/4	307.12	1/4	694.39	1/4	1,081.72	1/4	1,469.22	1/4	1,856.72	1/4	2,244.22	1/4	2,631.72	1/4	3,019.22	1/4	3,406.72	1/4	3,794.15
1/2	315.19	1/2	702.45	1/2	1,089.80	1/2	1,477.29	1/2	1,864.79	1/2	2,252.29	1/2	2,639.79	1/2	3,027.29	1/2	3,414.79	1/2	3,802.23
3/4	323.26	3/4	710.51	3/4	1,097.87	3/4	1,485.37	3/4	1,872.87	3/4	2,260.37	3/4	2,647.87	3/4	3,035.36	3/4	3,422.86	3/4	3,810.30
10	331.33	10	718.57	10	1,105.94	10	1,493.44	10	1,880.94	10	2,268.44	10	2,655.94	10	3,043.44	10	3,430.94	10	3,818.37
1/4	339.41	1/4	726.63	1/4	1,114.01	1/4	1,501.51	1/4	1,889.01	1/4	2,276.51	1/4	2,664.01	1/4	3,051.51	1/4	3,439.01	1/4	3,826.44
1/2	347.48	1/2	734.69	1/2	1,122.09	1/2	1,509.59	1/2	1,897.09	1/2	2,284.58	1/2	2,672.08	1/2	3,059.58	1/2	3,447.08	1/2	3,834.51
3/4	355.55	3/4	742.76	3/4	1,130.16	3/4	1,517.66	3/4	1,905.16	3/4	2,292.66	3/4	2,680.16	3/4	3,067.66	3/4	3,455.15	3/4	3,842.58
11	363.62	11	750.82	11	1,138.23	11	1,525.73	11	1,913.23	11	2,300.73	11	2,688.23	11	3,075.73	11	3,463.22	11	3,850.65
1/4	371.70	1/4	758.88	1/4	1,146.31	1/4	1,533.81	1/4	1,921.30	1/4	2,308.80	1/4	2,696.30	1/4	3,083.80	1/4	3,471.29	1/4	3,858.73
1/2	379.77	1/2	766.94	1/2	1,154.38	1/2	1,541.88	1/2	1,929.38	1/2	2,316.88	1/2	2,704.38	1/2	3,091.87	1/2	3,479.37	1/2	3,866.80
3/4	387.84	3/4	775.01	3/4	1,162.45	3/4	1,549.95	3/4	1,937.45	3/4	2,324.95	3/4	2,712.45	3/4	3,099.95	3/4	3,487.44	3/4	3,874.87

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

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



BARGE "EMS 397"

**2 STBD
INNAGE TABLE**

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 14'-09 3/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	3,882.94	0	4,270.20	0	4,643.43	0	4,992.57	0		0		0		0		0		0	
1/4	3,891.01	1/4	4,278.20	1/4	4,650.94	1/4	4,999.56	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,899.08	1/2	4,286.19	1/2	4,658.46	1/2	5,006.55	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,907.16	3/4	4,294.19	3/4	4,665.97	3/4	5,013.53	3/4		3/4		3/4		3/4		3/4		3/4	
1	3,915.23	1	4,302.19	1	4,673.48	1	5,020.52	1		1		1		1		1		1	
1/4	3,923.30	1/4	4,310.14	1/4	4,680.96	1/4	5,027.46	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,931.37	1/2	4,318.10	1/2	4,688.43	1/2	5,034.41	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,939.44	3/4	4,326.06	3/4	4,695.91	3/4	5,041.35	3/4		3/4		3/4		3/4		3/4		3/4	
2	3,947.51	2	4,334.01	2	4,703.38	2	5,048.30	2		2		2		2		2		2	
1/4	3,955.58	1/4	4,341.93	1/4	4,710.82	1/4	5,055.20	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,963.66	1/2	4,349.84	1/2	4,718.25	1/2	5,062.11	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,971.73	3/4	4,357.76	3/4	4,725.68	3/4	5,069.01	3/4		3/4		3/4		3/4		3/4		3/4	
3	3,979.80	3	4,365.68	3	4,733.12	3	5,075.92	3		3		3		3		3		3	
1/4	3,987.87	1/4	4,373.55	1/4	4,740.51	1/4	5,082.78	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,995.94	1/2	4,381.43	1/2	4,747.91	1/2	5,089.65	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,004.01	3/4	4,389.30	3/4	4,755.30	3/4	5,096.51	3/4		3/4		3/4		3/4		3/4		3/4	
4	4,012.08	4	4,397.18	4	4,762.69	4	5,103.38	4		4		4		4		4		4	
1/4	4,020.16	1/4	4,405.02	1/4	4,770.05	1/4	5,110.81	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,028.23	1/2	4,412.85	1/2	4,777.40	1/2	5,118.25	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,036.30	3/4	4,420.69	3/4	4,784.76	3/4	5,125.68	3/4		3/4		3/4		3/4		3/4		3/4	
5	4,044.37	5	4,428.52	5	4,792.11	5	5,133.11	5		5		5		5		5		5	
1/4	4,052.44	1/4	4,436.32	1/4	4,799.42	1/4	5,141.14	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,060.51	1/2	4,444.11	1/2	4,806.74	1/2	5,149.16	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,068.59	3/4	4,451.91	3/4	4,814.05	3/4	5,157.19	3/4		3/4		3/4		3/4		3/4		3/4	
6	4,076.66	6	4,459.71	6	4,821.36	6	5,165.21	6		6		6		6		6		6	
1/4	4,084.73	1/4	4,467.46	1/4	4,828.64	1/4	5,173.24	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,092.80	1/2	4,475.22	1/2	4,835.91	1/2	5,181.26	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,100.87	3/4	4,482.97	3/4	4,843.18	3/4	5,189.29	3/4		3/4		3/4		3/4		3/4		3/4	
7	4,108.94	7	4,490.73	7	4,850.46	7	5,197.31	7		7		7		7		7		7	
1/4	4,117.01	1/4	4,498.44	1/4	4,857.64	1/4	5,205.25	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,125.09	1/2	4,506.16	1/2	4,864.83	1/2	5,213.19	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,133.16	3/4	4,513.87	3/4	4,872.02	3/4	5,221.13	3/4		3/4		3/4		3/4		3/4		3/4	
8	4,141.23	8	4,521.59	8	4,879.20	8	5,229.07	8		8		8		8		8		8	
1/4	4,149.30	1/4	4,529.26	1/4	4,886.35	1/4	5,236.27	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,157.37	1/2	4,536.94	1/2	4,893.49	1/2	5,243.48	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,165.44	3/4	4,544.61	3/4	4,900.64	3/4	5,250.69	3/4		3/4		3/4		3/4		3/4		3/4	
9	4,173.51	9	4,552.29	9	4,907.79	9	5,257.89	9		9		9		9		9		9	
1/4	4,181.59	1/4	4,559.92	1/4	4,914.89	1/4	5,263.63	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,189.66	1/2	4,567.56	1/2	4,922.00	1/2	5,269.37	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,197.73	3/4	4,575.19	3/4	4,929.10	3/4	5,275.10	3/4		3/4		3/4		3/4		3/4		3/4	
10	4,205.80	10	4,582.83	10	4,936.21	10		10		10		10		10		10		10	
1/4	4,213.86	1/4	4,590.42	1/4	4,943.28	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,221.93	1/2	4,598.02	1/2	4,950.34	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,229.99	3/4	4,605.61	3/4	4,957.41	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
11	4,238.06	11	4,613.21	11	4,964.47	11		11		11		11		11		11		11	
1/4	4,246.09	1/4	4,620.76	1/4	4,971.50	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,254.13	1/2	4,628.32	1/2	4,978.52	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,262.17	3/4	4,635.87	3/4	4,985.55	3/4		3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 07/12/2016 SW
CALCULATED: 07/13/2016 CL
PRINTED: 07/13/2016 JS

CANCELS AND SUPERCEDES
ALL PRIOR TO 07/2016

PRECISION MEASUREMENT
& ANALYSIS, INC.
P.O. Box 2092
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BARGE "EMS 397"

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	17.63	0	370.14	0	723.02	0	1,080.25	0	1,442.26	0	1,804.08	0	2,165.37	0	2,527.54	0	2,889.71	0	3,251.52
1/4	23.02	1/4	377.68	1/4	730.27	1/4	1,087.79	1/4	1,449.80	1/4	1,811.60	1/4	2,172.91	1/4	2,535.08	1/4	2,897.25	1/4	3,259.07
1/2	28.41	1/2	385.23	1/2	737.52	1/2	1,095.34	1/2	1,457.35	1/2	1,819.12	1/2	2,180.46	1/2	2,542.63	1/2	2,904.78	1/2	3,266.61
3/4	33.80	3/4	392.77	3/4	744.78	3/4	1,102.88	3/4	1,464.89	3/4	1,826.64	3/4	2,188.00	3/4	2,550.17	3/4	2,912.32	3/4	3,274.16
1	39.19	1	400.32	1	752.03	1	1,110.42	1	1,472.43	1	1,834.16	1	2,195.55	1	2,557.72	1	2,919.86	1	3,281.70
1/4	46.46	1/4	407.87	1/4	759.30	1/4	1,117.96	1/4	1,479.97	1/4	1,841.69	1/4	2,203.10	1/4	2,565.27	1/4	2,927.40	1/4	3,289.25
1/2	53.74	1/2	415.41	1/2	766.56	1/2	1,125.50	1/2	1,487.51	1/2	1,849.21	1/2	2,210.64	1/2	2,572.81	1/2	2,934.94	1/2	3,296.79
3/4	61.02	3/4	422.96	3/4	773.83	3/4	1,133.04	3/4	1,495.06	3/4	1,856.73	3/4	2,218.19	3/4	2,580.36	3/4	2,942.47	3/4	3,304.33
2	68.29	2	430.50	2	781.09	2	1,140.59	2	1,502.60	2	1,864.25	2	2,225.73	2	2,587.90	2	2,950.01	2	3,311.88
1/4	75.84	1/4	438.05	1/4	788.35	1/4	1,148.13	1/4	1,510.14	1/4	1,871.77	1/4	2,233.28	1/4	2,595.45	1/4	2,957.55	1/4	3,319.42
1/2	83.38	1/2	445.60	1/2	795.60	1/2	1,155.67	1/2	1,517.68	1/2	1,879.30	1/2	2,240.82	1/2	2,602.99	1/2	2,965.09	1/2	3,326.97
3/4	90.93	3/4	453.14	3/4	802.86	3/4	1,163.21	3/4	1,525.22	3/4	1,886.82	3/4	2,248.37	3/4	2,610.54	3/4	2,972.63	3/4	3,334.51
3	98.48	3	460.69	3	810.11	3	1,170.75	3	1,532.77	3	1,894.34	3	2,255.91	3	2,618.08	3	2,980.16	3	3,342.06
1/4	106.02	1/4	468.24	1/4	817.36	1/4	1,178.30	1/4	1,540.31	1/4	1,901.86	1/4	2,263.46	1/4	2,625.63	1/4	2,987.70	1/4	3,349.60
1/2	113.57	1/2	475.78	1/2	824.62	1/2	1,185.84	1/2	1,547.85	1/2	1,909.38	1/2	2,271.00	1/2	2,633.17	1/2	2,995.24	1/2	3,357.15
3/4	121.11	3/4	483.33	3/4	831.87	3/4	1,193.38	3/4	1,555.39	3/4	1,916.91	3/4	2,278.55	3/4	2,640.72	3/4	3,002.78	3/4	3,364.69
4	128.66	4	490.87	4	839.13	4	1,200.92	4	1,562.93	4	1,924.43	4	2,286.09	4	2,648.26	4	3,010.32	4	3,372.23
1/4	136.21	1/4	498.14	1/4	846.66	1/4	1,208.46	1/4	1,570.47	1/4	1,931.95	1/4	2,293.64	1/4	2,655.81	1/4	3,017.85	1/4	3,379.78
1/2	143.75	1/2	505.40	1/2	854.19	1/2	1,216.01	1/2	1,578.02	1/2	1,939.47	1/2	2,301.18	1/2	2,663.35	1/2	3,025.39	1/2	3,387.32
3/4	151.30	3/4	512.66	3/4	861.73	3/4	1,223.55	3/4	1,585.56	3/4	1,947.00	3/4	2,308.73	3/4	2,670.90	3/4	3,032.93	3/4	3,394.87
5	158.85	5	519.93	5	869.26	5	1,231.09	5	1,593.10	5	1,954.52	5	2,316.27	5	2,678.44	5	3,040.47	5	3,402.41
1/4	166.39	1/4	527.18	1/4	876.79	1/4	1,238.63	1/4	1,600.64	1/4	1,962.04	1/4	2,323.82	1/4	2,685.99	1/4	3,048.01	1/4	3,408.56
1/2	173.94	1/2	534.44	1/2	884.32	1/2	1,246.17	1/2	1,608.18	1/2	1,969.56	1/2	2,331.36	1/2	2,693.53	1/2	3,055.54	1/2	3,414.71
3/4	181.48	3/4	541.69	3/4	891.86	3/4	1,253.72	3/4	1,615.73	3/4	1,977.08	3/4	2,338.91	3/4	2,701.08	3/4	3,063.08	3/4	3,420.86
6	189.03	6	548.95	6	899.39	6	1,261.26	6	1,623.27	6	1,984.61	6	2,346.45	6	2,708.62	6	3,070.62	6	3,427.01
1/4	196.58	1/4	556.20	1/4	906.92	1/4	1,268.80	1/4	1,630.81	1/4	1,992.13	1/4	2,354.00	1/4	2,716.17	1/4	3,078.16	1/4	3,433.16
1/2	204.12	1/2	563.46	1/2	914.46	1/2	1,276.34	1/2	1,638.35	1/2	1,999.65	1/2	2,361.54	1/2	2,723.71	1/2	3,085.70	1/2	3,439.31
3/4	211.67	3/4	570.71	3/4	921.99	3/4	1,283.88	3/4	1,645.89	3/4	2,007.17	3/4	2,369.09	3/4	2,731.26	3/4	3,093.23	3/4	3,445.47
7	219.21	7	577.96	7	929.52	7	1,291.42	7	1,653.44	7	2,014.69	7	2,376.63	7	2,738.80	7	3,100.77	7	3,451.62
1/4	226.76	1/4	585.22	1/4	937.05	1/4	1,298.97	1/4	1,660.98	1/4	2,022.22	1/4	2,384.18	1/4	2,746.35	1/4	3,108.31	1/4	3,457.77
1/2	234.31	1/2	592.47	1/2	944.59	1/2	1,306.51	1/2	1,668.52	1/2	2,029.74	1/2	2,391.73	1/2	2,753.90	1/2	3,115.85	1/2	3,463.92
3/4	241.85	3/4	599.73	3/4	952.12	3/4	1,314.05	3/4	1,676.06	3/4	2,037.26	3/4	2,399.27	3/4	2,761.44	3/4	3,123.39	3/4	3,470.07
8	249.40	8	606.98	8	959.65	8	1,321.59	8	1,683.60	8	2,044.78	8	2,406.82	8	2,768.99	8	3,130.92	8	3,476.22
1/4	256.94	1/4	614.23	1/4	967.19	1/4	1,329.13	1/4	1,691.15	1/4	2,052.30	1/4	2,414.36	1/4	2,776.53	1/4	3,138.46	1/4	3,482.37
1/2	264.49	1/2	621.48	1/2	974.72	1/2	1,336.68	1/2	1,698.69	1/2	2,059.83	1/2	2,421.91	1/2	2,784.08	1/2	3,146.00	1/2	3,488.52
3/4	272.04	3/4	628.73	3/4	982.25	3/4	1,344.22	3/4	1,706.23	3/4	2,067.35	3/4	2,429.45	3/4	2,791.62	3/4	3,153.54	3/4	3,494.67
9	279.58	9	635.98	9	989.78	9	1,351.76	9	1,713.77	9	2,074.87	9	2,437.00	9	2,799.17	9	3,161.08	9	3,500.82
1/4	287.13	1/4	643.23	1/4	997.32	1/4	1,359.30	1/4	1,721.30	1/4	2,082.41	1/4	2,444.54	1/4	2,806.71	1/4	3,168.61	1/4	3,506.97
1/2	294.67	1/2	650.48	1/2	1,004.85	1/2	1,366.84	1/2	1,728.83	1/2	2,089.94	1/2	2,452.09	1/2	2,814.26	1/2	3,176.15	1/2	3,513.12
3/4	302.22	3/4	657.73	3/4	1,012.38	3/4	1,374.39	3/4	1,736.37	3/4	2,097.47	3/4	2,459.63	3/4	2,821.80	3/4	3,183.69	3/4	3,519.27
10	309.77	10	664.98	10	1,019.92	10	1,381.93	10	1,743.90	10	2,105.01	10	2,467.18	10	2,829.35	10	3,191.23	10	3,525.42
1/4	317.31	1/4	672.23	1/4	1,027.46	1/4	1,389.47	1/4	1,751.42	1/4	2,112.55	1/4	2,474.72	1/4	2,836.89	1/4	3,198.77	1/4	3,531.57
1/2	324.86	1/2	679.49	1/2	1,035.00	1/2	1,397.01	1/2	1,758.94	1/2	2,120.10	1/2	2,482.27	1/2	2,844.44	1/2	3,206.30	1/2	3,537.72
3/4	332.41	3/4	686.74	3/4	1,042.54	3/4	1,404.55	3/4	1,766.46	3/4	2,127.64	3/4	2,489.81	3/4	2,851.98	3/4	3,213.84	3/4	3,543.87
11	339.95	11	694.00	11	1,050.08	11	1,412.10	11	1,773.99	11	2,135.19	11	2,497.36	11	2,859.53	11	3,221.38	11	3,550.02
1/4	347.50	1/4	701.25	1/4	1,057.63	1/4	1,419.64	1/4	1,781.51	1/4	2,142.73	1/4	2,504.90	1/4	2,867.07	1/4	3,228.91	1/4	3,556.17
1/2	355.04	1/2	708.51	1/2	1,065.17	1/2	1,427.18	1/2	1,789.03	1/2	2,150.28	1/2	2,512.45	1/2	2,874.62	1/2	3,236.45	1/2	3,562.32
3/4	362.59	3/4	715.76	3/4	1,072.71	3/4	1,434.72	3/4	1,796.55	3/4	2,157.82	3/4	2,519.99	3/4	2,882.16	3/4	3,243.99	3/4	3,568.48

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

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT
 & ANALYSIS, INC.
 P.O. Box 2092
 Pearland, Texas 77588
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BARGE "EMS 397"

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	3,574.63	0	3,869.70	0	4,151.64	0	4,411.24	0		0		0		0		0		0	
1/4	3,580.78	1/4	3,875.78	1/4	4,157.27	1/4	4,416.38	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,586.93	1/2	3,881.86	1/2	4,162.90	1/2	4,421.52	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,593.08	3/4	3,887.94	3/4	4,168.53	3/4	4,426.67	3/4		3/4		3/4		3/4		3/4		3/4	
1	3,599.23	1	3,894.02	1	4,174.16	1	4,431.81	1		1		1		1		1		1	
1/4	3,605.38	1/4	3,900.06	1/4	4,179.75	1/4	4,436.92	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,611.53	1/2	3,906.10	1/2	4,185.34	1/2	4,442.02	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,617.68	3/4	3,912.14	3/4	4,190.93	3/4	4,447.13	3/4		3/4		3/4		3/4		3/4		3/4	
2	3,623.83	2	3,918.19	2	4,196.53	2	4,452.23	2		2		2		2		2		2	
1/4	3,629.98	1/4	3,924.19	1/4	4,202.08	1/4	4,457.30	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,636.13	1/2	3,930.20	1/2	4,207.64	1/2	4,462.37	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,642.28	3/4	3,936.20	3/4	4,213.19	3/4	4,467.44	3/4		3/4		3/4		3/4		3/4		3/4	
3	3,648.43	3	3,942.21	3	4,218.75	3	4,472.50	3		3		3		3		3		3	
1/4	3,654.58	1/4	3,948.17	1/4	4,224.26	1/4	4,477.54	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,660.73	1/2	3,954.14	1/2	4,229.78	1/2	4,482.57	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,666.88	3/4	3,960.11	3/4	4,235.30	3/4	4,487.60	3/4		3/4		3/4		3/4		3/4		3/4	
4	3,673.03	4	3,966.08	4	4,240.82	4	4,492.63	4		4		4		4		4		4	
1/4	3,679.18	1/4	3,972.01	1/4	4,246.30	1/4	4,498.19	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,685.33	1/2	3,977.94	1/2	4,251.78	1/2	4,503.75	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,691.49	3/4	3,983.87	3/4	4,257.26	3/4	4,509.32	3/4		3/4		3/4		3/4		3/4		3/4	
5	3,697.64	5	3,989.80	5	4,262.74	5	4,514.88	5		5		5		5		5		5	
1/4	3,703.79	1/4	3,995.69	1/4	4,268.18	1/4	4,520.99	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,709.94	1/2	4,001.58	1/2	4,273.62	1/2	4,527.11	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,716.09	3/4	4,007.48	3/4	4,279.06	3/4	4,533.22	3/4		3/4		3/4		3/4		3/4		3/4	
6	3,722.24	6	4,013.37	6	4,284.50	6	4,539.34	6		6		6		6		6		6	
1/4	3,728.39	1/4	4,019.22	1/4	4,289.91	1/4	4,545.45	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,734.54	1/2	4,025.08	1/2	4,295.31	1/2	4,551.56	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,740.69	3/4	4,030.93	3/4	4,300.72	3/4	4,557.68	3/4		3/4		3/4		3/4		3/4		3/4	
7	3,746.84	7	4,036.79	7	4,306.12	7	4,563.79	7		7		7		7		7		7	
1/4	3,752.99	1/4	4,042.61	1/4	4,311.45	1/4	4,571.21	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,759.14	1/2	4,048.42	1/2	4,316.78	1/2	4,578.63	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,765.29	3/4	4,054.24	3/4	4,322.12	3/4	4,586.06	3/4		3/4		3/4		3/4		3/4		3/4	
8	3,771.44	8	4,060.06	8	4,327.45	8	4,593.48	8		8		8		8		8		8	
1/4	3,777.59	1/4	4,065.84	1/4	4,332.74	1/4	4,600.21	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,783.74	1/2	4,071.62	1/2	4,338.03	1/2	4,606.95	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,789.89	3/4	4,077.40	3/4	4,343.33	3/4	4,613.68	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,796.04	9	4,083.18	9	4,348.62	9	4,620.42	9		9		9		9		9		9	
1/4	3,802.19	1/4	4,088.92	1/4	4,353.87	1/4	4,625.78	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,808.34	1/2	4,094.66	1/2	4,359.13	1/2	4,631.14	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,814.50	3/4	4,100.41	3/4	4,364.39	3/4	4,636.51	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,820.65	10	4,106.15	10	4,369.64	10		10		10		10		10		10		10	
1/4	3,826.79	1/4	4,111.85	1/4	4,374.86	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,832.93	1/2	4,117.56	1/2	4,380.08	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,839.08	3/4	4,123.26	3/4	4,385.30	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
11	3,845.22	11	4,128.97	11	4,390.51	11		11		11		11		11		11		11	
1/4	3,851.34	1/4	4,134.64	1/4	4,395.70	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,857.46	1/2	4,140.30	1/2	4,400.88	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,863.58	3/4	4,145.97	3/4	4,406.06	3/4		3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 07/12/2016 SW
CALCULATED: 07/13/2016 CL
PRINTED: 07/13/2016 JS

CANCELS AND SUPERCEDES
ALL PRIOR TO 07/2016

PRECISION MEASUREMENT
& ANALYSIS, INC.
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BARGE "EMS 397"

3 STBD INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 14'-09 3/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	17.53	0	367.59	0	719.77	0	1,075.72	0	1,435.26	0	1,794.07	0	2,150.85	0	2,510.25	0	2,869.84	0	3,229.11
1/4	22.89	1/4	375.09	1/4	727.02	1/4	1,083.21	1/4	1,442.75	1/4	1,801.48	1/4	2,158.34	1/4	2,517.73	1/4	2,877.33	1/4	3,236.60
1/2	28.25	1/2	382.58	1/2	734.28	1/2	1,090.70	1/2	1,450.24	1/2	1,808.90	1/2	2,165.84	1/2	2,525.22	1/2	2,884.81	1/2	3,244.10
3/4	33.61	3/4	390.07	3/4	741.54	3/4	1,098.19	3/4	1,457.73	3/4	1,816.32	3/4	2,173.33	3/4	2,532.70	3/4	2,892.30	3/4	3,251.59
1	38.97	1	397.57	1	748.80	1	1,105.69	1	1,465.22	1	1,823.73	1	2,180.82	1	2,540.18	1	2,899.78	1	3,259.08
1/4	46.20	1/4	405.06	1/4	756.07	1/4	1,113.18	1/4	1,472.71	1/4	1,831.15	1/4	2,188.32	1/4	2,547.68	1/4	2,907.27	1/4	3,266.57
1/2	53.42	1/2	412.55	1/2	763.34	1/2	1,120.67	1/2	1,480.20	1/2	1,838.57	1/2	2,195.81	1/2	2,555.17	1/2	2,914.75	1/2	3,274.06
3/4	60.65	3/4	420.05	3/4	770.61	3/4	1,128.16	3/4	1,487.70	3/4	1,845.99	3/4	2,203.30	3/4	2,562.66	3/4	2,922.24	3/4	3,281.55
2	67.87	2	427.54	2	777.88	2	1,135.65	2	1,495.19	2	1,853.40	2	2,210.80	2	2,570.15	2	2,929.72	2	3,289.04
1/4	75.36	1/4	435.03	1/4	785.15	1/4	1,143.14	1/4	1,502.68	1/4	1,860.82	1/4	2,218.29	1/4	2,577.65	1/4	2,937.21	1/4	3,296.54
1/2	82.86	1/2	442.53	1/2	792.42	1/2	1,150.63	1/2	1,510.17	1/2	1,868.24	1/2	2,225.78	1/2	2,585.14	1/2	2,944.69	1/2	3,304.03
3/4	90.35	3/4	450.02	3/4	799.68	3/4	1,158.12	3/4	1,517.66	3/4	1,875.65	3/4	2,233.28	3/4	2,592.63	3/4	2,952.18	3/4	3,311.52
3	97.84	3	457.51	3	806.95	3	1,165.61	3	1,525.15	3	1,883.07	3	2,240.77	3	2,600.12	3	2,959.66	3	3,319.01
1/4	105.34	1/4	465.00	1/4	814.22	1/4	1,173.10	1/4	1,532.64	1/4	1,890.49	1/4	2,248.27	1/4	2,607.61	1/4	2,967.15	1/4	3,326.50
1/2	112.83	1/2	472.50	1/2	821.49	1/2	1,180.59	1/2	1,540.13	1/2	1,897.90	1/2	2,255.76	1/2	2,615.11	1/2	2,974.63	1/2	3,333.99
3/4	120.32	3/4	479.99	3/4	828.76	3/4	1,188.08	3/4	1,547.62	3/4	1,905.32	3/4	2,263.25	3/4	2,622.60	3/4	2,982.12	3/4	3,341.48
4	127.82	4	487.48	4	836.03	4	1,195.57	4	1,555.11	4	1,912.74	4	2,270.75	4	2,630.09	4	2,989.60	4	3,348.98
1/4	135.31	1/4	494.75	1/4	843.52	1/4	1,203.06	1/4	1,562.60	1/4	1,920.15	1/4	2,278.24	1/4	2,637.58	1/4	2,997.09	1/4	3,356.47
1/2	142.80	1/2	502.02	1/2	851.01	1/2	1,210.55	1/2	1,570.09	1/2	1,927.57	1/2	2,285.73	1/2	2,645.07	1/2	3,004.57	1/2	3,363.96
3/4	150.29	3/4	509.29	3/4	858.50	3/4	1,218.04	3/4	1,577.58	3/4	1,934.99	3/4	2,293.23	3/4	2,652.57	3/4	3,012.06	3/4	3,371.45
5	157.79	5	516.56	5	865.99	5	1,225.53	5	1,585.07	5	1,942.41	5	2,300.72	5	2,660.06	5	3,019.54	5	3,378.94
1/4	165.28	1/4	523.81	1/4	873.48	1/4	1,233.02	1/4	1,592.56	1/4	1,949.82	1/4	2,308.20	1/4	2,667.55	1/4	3,027.03	1/4	3,386.06
1/2	172.77	1/2	531.07	1/2	880.97	1/2	1,240.51	1/2	1,600.05	1/2	1,957.24	1/2	2,315.69	1/2	2,675.04	1/2	3,034.51	1/2	3,391.18
3/4	180.27	3/4	538.33	3/4	888.46	3/4	1,248.00	3/4	1,607.54	3/4	1,964.66	3/4	2,323.17	3/4	2,682.54	3/4	3,042.00	3/4	3,397.29
6	187.76	6	545.59	6	895.95	6	1,255.49	6	1,615.03	6	1,972.07	6	2,330.65	6	2,690.03	6	3,049.48	6	3,403.41
1/4	195.25	1/4	552.85	1/4	903.44	1/4	1,262.98	1/4	1,622.52	1/4	1,979.49	1/4	2,338.14	1/4	2,697.52	1/4	3,056.97	1/4	3,409.53
1/2	202.75	1/2	560.11	1/2	910.93	1/2	1,270.47	1/2	1,630.01	1/2	1,986.91	1/2	2,345.62	1/2	2,705.01	1/2	3,064.45	1/2	3,415.64
3/4	210.24	3/4	567.37	3/4	918.42	3/4	1,277.96	3/4	1,637.50	3/4	1,994.32	3/4	2,353.10	3/4	2,712.50	3/4	3,071.94	3/4	3,421.76
7	217.73	7	574.63	7	925.92	7	1,285.45	7	1,644.99	7	2,001.74	7	2,360.59	7	2,720.00	7	3,079.42	7	3,427.88
1/4	225.23	1/4	581.88	1/4	933.41	1/4	1,292.95	1/4	1,652.48	1/4	2,009.16	1/4	2,368.07	1/4	2,727.49	1/4	3,086.91	1/4	3,434.00
1/2	232.72	1/2	589.14	1/2	940.90	1/2	1,300.44	1/2	1,659.97	1/2	2,016.57	1/2	2,375.55	1/2	2,734.98	1/2	3,094.39	1/2	3,440.11
3/4	240.21	3/4	596.40	3/4	948.39	3/4	1,307.93	3/4	1,667.46	3/4	2,023.99	3/4	2,383.04	3/4	2,742.47	3/4	3,101.88	3/4	3,446.23
8	247.71	8	603.66	8	955.88	8	1,315.42	8	1,674.96	8	2,031.41	8	2,390.52	8	2,749.97	8	3,109.36	8	3,452.35
1/4	255.20	1/4	610.92	1/4	963.37	1/4	1,322.91	1/4	1,682.45	1/4	2,038.83	1/4	2,398.00	1/4	2,757.46	1/4	3,116.85	1/4	3,458.46
1/2	262.69	1/2	618.17	1/2	970.86	1/2	1,330.40	1/2	1,689.94	1/2	2,046.24	1/2	2,405.49	1/2	2,764.95	1/2	3,124.33	1/2	3,464.58
3/4	270.18	3/4	625.42	3/4	978.35	3/4	1,337.89	3/4	1,697.43	3/4	2,053.66	3/4	2,412.97	3/4	2,772.44	3/4	3,131.82	3/4	3,470.70
9	277.68	9	632.68	9	985.84	9	1,345.38	9	1,704.92	9	2,061.08	9	2,420.45	9	2,779.93	9	3,139.30	9	3,476.82
1/4	285.17	1/4	639.93	1/4	993.33	1/4	1,352.87	1/4	1,712.37	1/4	2,068.53	1/4	2,427.94	1/4	2,787.43	1/4	3,146.79	1/4	3,482.93
1/2	292.66	1/2	647.19	1/2	1,000.82	1/2	1,360.36	1/2	1,719.82	1/2	2,075.99	1/2	2,435.42	1/2	2,794.92	1/2	3,154.27	1/2	3,489.05
3/4	300.16	3/4	654.44	3/4	1,008.31	3/4	1,367.85	3/4	1,727.28	3/4	2,083.44	3/4	2,442.90	3/4	2,802.41	3/4	3,161.76	3/4	3,495.17
10	307.65	10	661.69	10	1,015.80	10	1,375.34	10	1,734.73	10	2,090.90	10	2,450.39	10	2,809.90	10	3,169.24	10	3,501.29
1/4	315.14	1/4	668.95	1/4	1,023.29	1/4	1,382.83	1/4	1,742.15	1/4	2,098.39	1/4	2,457.87	1/4	2,817.40	1/4	3,176.73	1/4	3,507.40
1/2	322.64	1/2	676.21	1/2	1,030.78	1/2	1,390.32	1/2	1,749.57	1/2	2,105.89	1/2	2,465.35	1/2	2,824.89	1/2	3,184.21	1/2	3,513.52
3/4	330.13	3/4	683.47	3/4	1,038.27	3/4	1,397.81	3/4	1,756.98	3/4	2,113.38	3/4	2,472.84	3/4	2,832.38	3/4	3,191.69	3/4	3,519.64
11	337.62	11	690.73	11	1,045.76	11	1,405.30	11	1,764.40	11	2,120.87	11	2,480.32	11	2,839.87	11	3,199.18	11	3,525.75
1/4	345.12	1/4	697.99	1/4	1,053.25	1/4	1,412.79	1/4	1,771.82	1/4	2,128.37	1/4	2,487.80	1/4	2,847.36	1/4	3,206.66	1/4	3,531.87
1/2	352.61	1/2	705.25	1/2	1,060.74	1/2	1,420.28	1/2	1,779.23	1/2	2,135.86	1/2	2,495.28	1/2	2,854.86	1/2	3,214.15	1/2	3,537.99
3/4	360.10	3/4	712.51	3/4	1,068.23	3/4	1,427.77	3/4	1,786.65	3/4	2,143.35	3/4	2,502.77	3/4	2,862.35	3/4	3,221.63	3/4	3,544.11

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

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



BARGE "EMS 397"

**3 STBD
INNAGE TABLE**

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 14'-09 3/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	3,550.22	0	3,843.69	0	4,124.10	0	4,382.30	0		0		0		0		0		0	
1/4	3,556.34	1/4	3,849.73	1/4	4,129.70	1/4	4,387.42	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,562.46	1/2	3,855.78	1/2	4,135.30	1/2	4,392.53	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,568.57	3/4	3,861.83	3/4	4,140.90	3/4	4,397.65	3/4		3/4		3/4		3/4		3/4		3/4	
1	3,574.69	1	3,867.87	1	4,146.50	1	4,402.76	1		1		1		1		1		1	
1/4	3,580.81	1/4	3,873.88	1/4	4,152.06	1/4	4,407.84	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,586.93	1/2	3,879.89	1/2	4,157.62	1/2	4,412.92	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,593.04	3/4	3,885.90	3/4	4,163.18	3/4	4,418.00	3/4		3/4		3/4		3/4		3/4		3/4	
2	3,599.16	2	3,891.91	2	4,168.75	2	4,423.07	2		2		2		2		2		2	
1/4	3,605.28	1/4	3,897.89	1/4	4,174.27	1/4	4,428.12	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,611.39	1/2	3,903.86	1/2	4,179.80	1/2	4,433.16	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,617.51	3/4	3,909.83	3/4	4,185.32	3/4	4,438.20	3/4		3/4		3/4		3/4		3/4		3/4	
3	3,623.63	3	3,915.80	3	4,190.85	3	4,443.24	3		3		3		3		3		3	
1/4	3,629.75	1/4	3,921.74	1/4	4,196.33	1/4	4,448.24	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,635.86	1/2	3,927.67	1/2	4,201.82	1/2	4,453.25	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,641.98	3/4	3,933.61	3/4	4,207.31	3/4	4,458.25	3/4		3/4		3/4		3/4		3/4		3/4	
4	3,648.10	4	3,939.55	4	4,212.80	4	4,463.25	4		4		4		4		4		4	
1/4	3,654.22	1/4	3,945.44	1/4	4,218.25	1/4	4,468.79	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,660.33	1/2	3,951.34	1/2	4,223.70	1/2	4,474.32	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,666.45	3/4	3,957.24	3/4	4,229.15	3/4	4,479.85	3/4		3/4		3/4		3/4		3/4		3/4	
5	3,672.57	5	3,963.14	5	4,234.60	5	4,485.38	5		5		5		5		5		5	
1/4	3,678.68	1/4	3,969.00	1/4	4,240.01	1/4	4,491.46	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,684.80	1/2	3,974.86	1/2	4,245.42	1/2	4,497.55	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,690.92	3/4	3,980.72	3/4	4,250.84	3/4	4,503.63	3/4		3/4		3/4		3/4		3/4		3/4	
6	3,697.04	6	3,986.58	6	4,256.25	6	4,509.71	6		6		6		6		6		6	
1/4	3,703.15	1/4	3,992.40	1/4	4,261.62	1/4	4,515.79	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,709.27	1/2	3,998.23	1/2	4,267.00	1/2	4,521.87	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,715.39	3/4	4,004.05	3/4	4,272.38	3/4	4,527.95	3/4		3/4		3/4		3/4		3/4		3/4	
7	3,721.50	7	4,009.87	7	4,277.75	7	4,534.03	7		7		7		7		7		7	
1/4	3,727.62	1/4	4,015.66	1/4	4,283.05	1/4	4,541.41	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,733.74	1/2	4,021.44	1/2	4,288.36	1/2	4,548.79	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,739.86	3/4	4,027.23	3/4	4,293.66	3/4	4,556.17	3/4		3/4		3/4		3/4		3/4		3/4	
8	3,745.97	8	4,033.02	8	4,298.96	8	4,563.55	8		8		8		8		8		8	
1/4	3,752.09	1/4	4,038.77	1/4	4,304.22	1/4	4,570.25	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,758.21	1/2	4,044.51	1/2	4,309.49	1/2	4,576.95	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,764.32	3/4	4,050.26	3/4	4,314.75	3/4	4,583.64	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,770.44	9	4,056.01	9	4,320.02	9	4,590.34	9		9		9		9		9		9	
1/4	3,776.56	1/4	4,061.72	1/4	4,325.25	1/4	4,595.67	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,782.68	1/2	4,067.43	1/2	4,330.47	1/2	4,601.01	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,788.79	3/4	4,073.15	3/4	4,335.70	3/4	4,606.34	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,794.91	10	4,078.86	10	4,340.93	10		10		10		10		10		10		10	
1/4	3,801.02	1/4	4,084.53	1/4	4,346.12	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,807.13	1/2	4,090.21	1/2	4,351.31	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,813.24	3/4	4,095.88	3/4	4,356.50	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
11	3,819.35	11	4,101.55	11	4,361.69	11		11		11		11		11		11		11	
1/4	3,825.43	1/4	4,107.19	1/4	4,366.84	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,831.52	1/2	4,112.83	1/2	4,371.99	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,837.60	3/4	4,118.46	3/4	4,377.15	3/4		3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 07/12/2016 SW
CALCULATED: 07/13/2016 CL
PRINTED: 07/13/2016 JS

CANCELS AND SUPERCEDES
ALL PRIOR TO 07/2016

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



BARGE "EMS 397"

ULLAGE TRIM TABLE

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

July 12, 2016

**PRECISION MEASUREMENT
& ANALYSIS, INC.**

P.O. Box 2092
 Pearland, Texas 77588

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BARGE "EMS 397"

1 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	4,232.41	0	3,941.16	0	3,630.17	0	3,301.82	0	2,970.88	0	2,639.91	0	2,308.92
1/4		1/4		1/4		1/4	4,226.06	1/4	3,934.88	1/4	3,623.48	1/4	3,294.93	1/4	2,963.98	1/4	2,633.02	1/4	2,302.03
1/2		1/2		1/2		1/2	4,219.71	1/2	3,928.60	1/2	3,616.79	1/2	3,288.03	1/2	2,957.09	1/2	2,626.12	1/2	2,295.13
3/4		3/4		3/4		3/4	4,213.36	3/4	3,922.32	3/4	3,610.09	3/4	3,281.14	3/4	2,950.19	3/4	2,619.22	3/4	2,288.24
1		1		1		1	4,207.49	1	3,916.00	1	3,603.37	1	3,274.24	1	2,943.30	1	2,612.33	1	2,281.34
1/4		1/4		1/4		1/4	4,201.63	1/4	3,909.68	1/4	3,596.64	1/4	3,267.35	1/4	2,936.40	1/4	2,605.43	1/4	2,274.44
1/2		1/2		1/2		1/2	4,195.76	1/2	3,903.37	1/2	3,589.91	1/2	3,260.45	1/2	2,929.51	1/2	2,598.54	1/2	2,267.55
3/4		3/4		3/4		3/4	4,189.90	3/4	3,897.05	3/4	3,583.18	3/4	3,253.56	3/4	2,922.61	3/4	2,591.64	3/4	2,260.65
2		2		2		2	4,184.00	2	3,890.70	2	3,576.42	2	3,246.66	2	2,915.72	2	2,584.75	2	2,253.76
1/4		1/4		1/4		1/4	4,178.10	1/4	3,884.35	1/4	3,569.66	1/4	3,239.77	1/4	2,908.82	1/4	2,577.85	1/4	2,246.86
1/2		1/2		1/2		1/2	4,172.20	1/2	3,878.00	1/2	3,562.90	1/2	3,232.87	1/2	2,901.93	1/2	2,570.96	1/2	2,239.97
3/4		3/4		3/4		3/4	4,166.30	3/4	3,871.65	3/4	3,556.14	3/4	3,225.98	3/4	2,895.03	3/4	2,564.06	3/4	2,233.07
3		3		3		3	4,160.37	3	3,865.27	3	3,549.34	3	3,219.09	3	2,888.14	3	2,557.16	3	2,226.18
1/4		1/4		1/4		1/4	4,154.43	1/4	3,858.88	1/4	3,542.54	1/4	3,212.19	1/4	2,881.24	1/4	2,550.27	1/4	2,219.28
1/2		1/2		1/2		1/2	4,148.50	1/2	3,852.50	1/2	3,535.75	1/2	3,205.30	1/2	2,874.35	1/2	2,543.37	1/2	2,212.38
3/4		3/4		3/4		3/4	4,142.57	3/4	3,846.11	3/4	3,528.95	3/4	3,198.40	3/4	2,867.46	3/4	2,536.48	3/4	2,205.49
4		4		4		4	4,136.60	4	3,839.69	4	3,522.12	4	3,191.51	4	2,860.56	4	2,529.58	4	2,198.59
1/4		1/4		1/4		1/4	4,130.63	1/4	3,833.27	1/4	3,515.29	1/4	3,184.61	1/4	2,853.67	1/4	2,522.69	1/4	2,191.70
1/2		1/2		1/2		1/2	4,124.66	1/2	3,826.86	1/2	3,508.46	1/2	3,177.72	1/2	2,846.77	1/2	2,515.79	1/2	2,184.80
3/4		3/4		3/4		3/4	4,118.70	3/4	3,820.44	3/4	3,501.63	3/4	3,170.82	3/4	2,839.88	3/4	2,508.90	3/4	2,177.91
5		5		5		5	4,112.70	5	3,813.98	5	3,494.76	5	3,163.93	5	2,832.98	5	2,502.00	5	2,171.01
1/4		1/4		1/4		1/4	4,106.69	1/4	3,807.53	1/4	3,487.90	1/4	3,157.03	1/4	2,826.09	1/4	2,495.10	1/4	2,164.12
1/2		1/2		1/2		1/2	4,100.69	1/2	3,801.08	1/2	3,481.03	1/2	3,150.14	1/2	2,819.19	1/2	2,488.21	1/2	2,157.22
3/4		3/4		3/4		3/4	4,094.69	3/4	3,794.62	3/4	3,474.17	3/4	3,143.24	3/4	2,812.30	3/4	2,481.31	3/4	2,150.32
6		6		6		6	4,088.65	6	3,788.14	6	3,467.28	6	3,136.35	6	2,805.40	6	2,474.42	6	2,143.43
1/4		1/4		1/4		1/4	4,082.62	1/4	3,781.65	1/4	3,460.39	1/4	3,129.45	1/4	2,798.51	1/4	2,467.52	1/4	2,136.53
1/2		1/2		1/2		1/2	4,076.58	1/2	3,775.16	1/2	3,453.50	1/2	3,122.56	1/2	2,791.61	1/2	2,460.63	1/2	2,129.64
3/4		3/4		3/4		3/4	4,070.54	3/4	3,768.67	3/4	3,446.61	3/4	3,115.66	3/4	2,784.72	3/4	2,453.73	3/4	2,122.74
7		7		7	4,360.04	7	4,064.47	7	3,762.15	7	3,439.72	7	3,108.77	7	2,777.82	7	2,446.83	7	2,115.85
1/4		1/4		1/4	4,355.14	1/4	4,058.40	1/4	3,755.63	1/4	3,432.82	1/4	3,101.88	1/4	2,770.93	1/4	2,439.94	1/4	2,108.95
1/2		1/2		1/2	4,350.24	1/2	4,052.33	1/2	3,749.11	1/2	3,425.93	1/2	3,094.98	1/2	2,764.03	1/2	2,433.04	1/2	2,102.05
3/4		3/4		3/4	4,345.34	3/4	4,046.26	3/4	3,742.59	3/4	3,419.03	3/4	3,088.09	3/4	2,757.14	3/4	2,426.15	3/4	2,095.16
8		8		8	4,339.18	8	4,040.16	8	3,736.03	8	3,412.14	8	3,081.19	8	2,750.24	8	2,419.25	8	2,088.26
1/4		1/4		1/4	4,333.03	1/4	4,034.05	1/4	3,729.47	1/4	3,405.24	1/4	3,074.30	1/4	2,743.35	1/4	2,412.36	1/4	2,081.37
1/2		1/2		1/2	4,326.88	1/2	4,027.95	1/2	3,722.92	1/2	3,398.35	1/2	3,067.40	1/2	2,736.45	1/2	2,405.46	1/2	2,074.47
3/4		3/4		3/4	4,320.72	3/4	4,021.84	3/4	3,716.36	3/4	3,391.45	3/4	3,060.51	3/4	2,729.55	3/4	2,398.57	3/4	2,067.58
9		9		9	4,313.94	9	4,015.70	9	3,709.77	9	3,384.56	9	3,053.61	9	2,722.66	9	2,391.67	9	2,060.68
1/4		1/4		1/4	4,307.16	1/4	4,009.57	1/4	3,703.18	1/4	3,377.66	1/4	3,046.72	1/4	2,715.76	1/4	2,384.77	1/4	2,053.79
1/2		1/2		1/2	4,300.38	1/2	4,003.43	1/2	3,696.59	1/2	3,370.77	1/2	3,039.82	1/2	2,708.87	1/2	2,377.88	1/2	2,046.89
3/4		3/4		3/4	4,293.60	3/4	3,997.29	3/4	3,690.00	3/4	3,363.87	3/4	3,032.93	3/4	2,701.97	3/4	2,370.98	3/4	2,039.99
10		10		10	4,286.74	10	3,991.07	10	3,683.38	10	3,356.98	10	3,026.03	10	2,695.08	10	2,364.09	10	2,033.10
1/4		1/4		1/4	4,279.89	1/4	3,984.86	1/4	3,676.75	1/4	3,350.08	1/4	3,019.14	1/4	2,688.18	1/4	2,357.19	1/4	2,026.20
1/2		1/2		1/2	4,273.04	1/2	3,978.65	1/2	3,670.13	1/2	3,343.19	1/2	3,012.24	1/2	2,681.29	1/2	2,350.30	1/2	2,019.31
3/4		3/4		3/4	4,266.18	3/4	3,972.43	3/4	3,663.50	3/4	3,336.30	3/4	3,005.35	3/4	2,674.39	3/4	2,343.40	3/4	2,012.41
11		11		11	4,259.33	11	3,966.19	11	3,656.84	11	3,329.40	11	2,998.45	11	2,667.49	11	2,336.51	11	2,005.52
1/4		1/4		1/4	4,252.47	1/4	3,959.94	1/4	3,650.18	1/4	3,322.51	1/4	2,991.56	1/4	2,660.60	1/4	2,329.61	1/4	1,998.62
1/2		1/2		1/2	4,245.62	1/2	3,953.69	1/2	3,643.52	1/2	3,315.61	1/2	2,984.67	1/2	2,653.70	1/2	2,322.71	1/2	1,991.73
3/4		3/4		3/4	4,238.76	3/4	3,947.44	3/4	3,636.87	3/4	3,308.72	3/4	2,977.77	3/4	2,646.81	3/4	2,315.82	3/4	1,984.83

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 ULLAGE GAUGES TAKEN WITH "HERMETIC" CLOSED GAUGING DEVICE

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

PRECISION MEASUREMENT
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P.O. Box 2092

Pearland, Texas 77588

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BARGE "EMS 397"

1 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	1,977.93	0	1,646.95	0	1,315.96	0	985.14	0	670.18	0	377.04	0	107.48	0		0		0	
1/4	1,971.04	1/4	1,640.05	1/4	1,309.06	1/4	978.33	1/4	663.84	1/4	371.19	1/4	102.12	1/4	1/4	1/4		1/4	
1/2	1,964.14	1/2	1,633.15	1/2	1,302.17	1/2	971.52	1/2	657.49	1/2	365.34	1/2	96.76	1/2	1/2	1/2		1/2	
3/4	1,957.25	3/4	1,626.26	3/4	1,295.27	3/4	964.71	3/4	651.15	3/4	359.48	3/4	91.41	3/4	3/4	3/4		3/4	
1	1,950.35	1	1,619.36	1	1,288.37	1	957.94	1	644.85	1	353.67	1	86.09	1	1	1		1	
1/4	1,943.46	1/4	1,612.47	1/4	1,281.48	1/4	951.17	1/4	638.55	1/4	347.86	1/4	80.77	1/4	1/4	1/4		1/4	
1/2	1,936.56	1/2	1,605.57	1/2	1,274.58	1/2	944.40	1/2	632.25	1/2	342.05	1/2	75.45	1/2	1/2	1/2		1/2	
3/4	1,929.66	3/4	1,598.68	3/4	1,267.69	3/4	937.63	3/4	625.95	3/4	336.24	3/4	70.13	3/4	3/4	3/4		3/4	
2	1,922.77	2	1,591.78	2	1,260.79	2	930.92	2	619.68	2	330.47	2	64.85	2	2	2		2	
1/4	1,915.87	1/4	1,584.88	1/4	1,253.90	1/4	924.21	1/4	613.42	1/4	324.71	1/4	59.57	1/4	1/4	1/4		1/4	
1/2	1,908.98	1/2	1,577.99	1/2	1,247.00	1/2	917.50	1/2	607.16	1/2	318.94	1/2	54.30	1/2	1/2	1/2		1/2	
3/4	1,902.08	3/4	1,571.09	3/4	1,240.10	3/4	910.79	3/4	600.90	3/4	313.17	3/4	49.02	3/4	3/4	3/4		3/4	
3	1,895.19	3	1,564.20	3	1,233.21	3	904.12	3	594.68	3	307.44	3	44.03	3	3	3		3	
1/4	1,888.29	1/4	1,557.30	1/4	1,226.31	1/4	897.45	1/4	588.46	1/4	301.71	1/4	39.04	1/4	1/4	1/4		1/4	
1/2	1,881.40	1/2	1,550.41	1/2	1,219.42	1/2	890.78	1/2	582.24	1/2	295.98	1/2	34.05	1/2	1/2	1/2		1/2	
3/4	1,874.50	3/4	1,543.51	3/4	1,212.52	3/4	884.11	3/4	576.02	3/4	290.25	3/4	29.06	3/4	3/4	3/4		3/4	
4	1,867.60	4	1,536.62	4	1,205.63	4	877.48	4	569.85	4	284.57	4	25.83	4	4	4		4	
1/4	1,860.71	1/4	1,529.72	1/4	1,198.73	1/4	870.86	1/4	563.67	1/4	278.88	1/4	22.61	1/4	1/4	1/4		1/4	
1/2	1,853.81	1/2	1,522.82	1/2	1,191.84	1/2	864.23	1/2	557.49	1/2	273.19	1/2	19.38	1/2	1/2	1/2		1/2	
3/4	1,846.92	3/4	1,515.93	3/4	1,184.94	3/4	857.60	3/4	551.31	3/4	267.50	3/4	16.16	3/4	3/4	3/4		3/4	
5	1,840.02	5	1,509.03	5	1,178.04	5	851.02	5	545.17	5	261.86	5		5	5	5		5	
1/4	1,833.13	1/4	1,502.14	1/4	1,171.15	1/4	844.43	1/4	539.03	1/4	256.21	1/4		1/4	1/4	1/4		1/4	
1/2	1,826.23	1/2	1,495.24	1/2	1,164.25	1/2	837.85	1/2	532.90	1/2	250.57	1/2		1/2	1/2	1/2		1/2	
3/4	1,819.34	3/4	1,488.35	3/4	1,157.36	3/4	831.27	3/4	526.76	3/4	244.92	3/4		3/4	3/4	3/4		3/4	
6	1,812.44	6	1,481.45	6	1,150.46	6	824.73	6	520.66	6	239.31	6		6	6	6		6	
1/4	1,805.54	1/4	1,474.56	1/4	1,143.57	1/4	818.18	1/4	514.56	1/4	233.71	1/4		1/4	1/4	1/4		1/4	
1/2	1,798.65	1/2	1,467.66	1/2	1,136.67	1/2	811.64	1/2	508.47	1/2	228.10	1/2		1/2	1/2	1/2		1/2	
3/4	1,791.75	3/4	1,460.76	3/4	1,129.78	3/4	805.10	3/4	502.37	3/4	222.50	3/4		3/4	3/4	3/4		3/4	
7	1,784.86	7	1,453.87	7	1,122.88	7	798.59	7	496.31	7	216.93	7		7	7	7		7	
1/4	1,777.96	1/4	1,446.97	1/4	1,115.98	1/4	792.09	1/4	490.26	1/4	211.37	1/4		1/4	1/4	1/4		1/4	
1/2	1,771.07	1/2	1,440.08	1/2	1,109.09	1/2	785.58	1/2	484.20	1/2	205.80	1/2		1/2	1/2	1/2		1/2	
3/4	1,764.17	3/4	1,433.18	3/4	1,102.19	3/4	779.08	3/4	478.15	3/4	200.24	3/4		3/4	3/4	3/4		3/4	
8	1,757.27	8	1,426.29	8	1,095.30	8	772.61	8	472.13	8	194.72	8		8	8	8		8	
1/4	1,750.38	1/4	1,419.39	1/4	1,088.40	1/4	766.15	1/4	466.12	1/4	189.19	1/4		1/4	1/4	1/4		1/4	
1/2	1,743.48	1/2	1,412.49	1/2	1,081.51	1/2	759.68	1/2	460.10	1/2	183.67	1/2		1/2	1/2	1/2		1/2	
3/4	1,736.59	3/4	1,405.60	3/4	1,074.61	3/4	753.22	3/4	454.09	3/4	178.14	3/4		3/4	3/4	3/4		3/4	
9	1,729.69	9	1,398.70	9	1,067.71	9	746.80	9	448.11	9	172.66	9		9	9	9		9	
1/4	1,722.80	1/4	1,391.81	1/4	1,060.82	1/4	740.37	1/4	442.14	1/4	167.18	1/4		1/4	1/4	1/4		1/4	
1/2	1,715.90	1/2	1,384.91	1/2	1,053.92	1/2	733.95	1/2	436.16	1/2	161.70	1/2		1/2	1/2	1/2		1/2	
3/4	1,709.01	3/4	1,378.02	3/4	1,047.03	3/4	727.52	3/4	430.19	3/4	156.21	3/4		3/4	3/4	3/4		3/4	
10	1,702.11	10	1,371.12	10	1,040.13	10	721.13	10	424.26	10	150.77	10		10	10	10		10	
1/4	1,695.21	1/4	1,364.23	1/4	1,033.24	1/4	714.73	1/4	418.32	1/4	145.33	1/4		1/4	1/4	1/4		1/4	
1/2	1,688.32	1/2	1,357.33	1/2	1,026.34	1/2	708.34	1/2	412.39	1/2	139.89	1/2		1/2	1/2	1/2		1/2	
3/4	1,681.42	3/4	1,350.43	3/4	1,019.45	3/4	701.94	3/4	406.46	3/4	134.45	3/4		3/4	3/4	3/4		3/4	
11	1,674.53	11	1,343.54	11	1,012.57	11	695.59	11	400.57	11	129.05	11		11	11	11		11	
1/4	1,667.63	1/4	1,336.64	1/4	1,005.70	1/4	689.23	1/4	394.67	1/4	123.65	1/4		1/4	1/4	1/4		1/4	
1/2	1,660.74	1/2	1,329.75	1/2	998.82	1/2	682.88	1/2	388.78	1/2	118.25	1/2		1/2	1/2	1/2		1/2	
3/4	1,653.84	3/4	1,322.85	3/4	991.95	3/4	676.52	3/4	382.89	3/4	112.84	3/4		3/4	3/4	3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 07/12/2016 SW
CALCULATED: 07/13/2016 CL
PRINTED: 07/13/2016 JS

CANCELS AND SUPERCEDES
ALL PRIOR TO 07/2016

PRECISION MEASUREMENT
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BARGE "EMS 397"

1 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-04 1/4"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT
0		0		0		0	4,211.17	0	3,920.75	0	3,609.67	0	3,281.70	0	2,951.52	0	2,621.33	0	2,291.11
1/4		1/4		1/4		1/4	4,204.83	1/4	3,914.48	1/4	3,602.99	1/4	3,274.82	1/4	2,944.64	1/4	2,614.45	1/4	2,284.23
1/2		1/2		1/2		1/2	4,198.98	1/2	3,908.18	1/2	3,596.28	1/2	3,267.94	1/2	2,937.77	1/2	2,607.57	1/2	2,277.35
3/4		3/4		3/4		3/4	4,193.13	3/4	3,901.88	3/4	3,589.57	3/4	3,261.06	3/4	2,930.89	3/4	2,600.69	3/4	2,270.47
1		1		1		1	4,187.28	1	3,895.58	1	3,582.85	1	3,254.18	1	2,924.01	1	2,592.81	1	2,263.59
1/4		1/4		1/4		1/4	4,181.43	1/4	3,889.28	1/4	3,576.14	1/4	3,247.30	1/4	2,917.13	1/4	2,586.93	1/4	2,256.71
1/2		1/2		1/2		1/2	4,175.54	1/2	3,882.94	1/2	3,569.40	1/2	3,240.42	1/2	2,910.25	1/2	2,580.05	1/2	2,249.83
3/4		3/4		3/4		3/4	4,169.66	3/4	3,876.61	3/4	3,562.65	3/4	3,233.55	3/4	2,903.37	3/4	2,573.17	3/4	2,242.95
2		2		2		2	4,163.77	2	3,870.27	2	3,555.90	2	3,226.67	2	2,896.49	2	2,566.29	2	2,236.07
1/4		1/4		1/4		1/4	4,157.89	1/4	3,863.93	1/4	3,549.16	1/4	3,219.79	1/4	2,889.62	1/4	2,559.41	1/4	2,229.19
1/2		1/2		1/2		1/2	4,151.97	1/2	3,857.56	1/2	3,542.38	1/2	3,212.91	1/2	2,882.74	1/2	2,552.53	1/2	2,222.31
3/4		3/4		3/4		3/4	4,146.05	3/4	3,851.19	3/4	3,535.60	3/4	3,206.03	3/4	2,875.86	3/4	2,545.65	3/4	2,215.43
3		3		3		3	4,140.13	3	3,844.83	3	3,528.82	3	3,199.15	3	2,868.98	3	2,538.77	3	2,208.55
1/4		1/4		1/4		1/4	4,134.21	1/4	3,838.46	1/4	3,522.04	1/4	3,192.27	1/4	2,862.10	1/4	2,531.89	1/4	2,201.67
1/2		1/2		1/2		1/2	4,128.26	1/2	3,832.05	1/2	3,515.22	1/2	3,185.40	1/2	2,855.22	1/2	2,525.01	1/2	2,194.79
3/4		3/4		3/4		3/4	4,122.30	3/4	3,825.65	3/4	3,508.41	3/4	3,178.52	3/4	2,848.34	3/4	2,518.13	3/4	2,187.91
4		4		4		4	4,116.35	4	3,819.24	4	3,501.59	4	3,171.64	4	2,841.47	4	2,511.25	4	2,181.03
1/4		1/4		1/4		1/4	4,110.40	1/4	3,812.84	1/4	3,494.78	1/4	3,164.76	1/4	2,834.59	1/4	2,504.37	1/4	2,174.15
1/2		1/2		1/2		1/2	4,104.41	1/2	3,806.40	1/2	3,487.93	1/2	3,157.88	1/2	2,827.71	1/2	2,497.49	1/2	2,167.27
3/4		3/4		3/4		3/4	4,098.42	3/4	3,799.96	3/4	3,481.08	3/4	3,151.00	3/4	2,820.83	3/4	2,490.61	3/4	2,160.39
5		5		5		5	4,092.43	5	3,793.53	5	3,474.23	5	3,144.12	5	2,813.95	5	2,483.73	5	2,153.51
1/4		1/4		1/4		1/4	4,086.45	1/4	3,787.09	1/4	3,467.38	1/4	3,137.24	1/4	2,807.07	1/4	2,476.86	1/4	2,146.63
1/2		1/2		1/2		1/2	4,080.42	1/2	3,780.62	1/2	3,460.51	1/2	3,130.37	1/2	2,800.19	1/2	2,469.98	1/2	2,139.75
3/4		3/4		3/4		3/4	4,074.40	3/4	3,774.14	3/4	3,453.64	3/4	3,123.49	3/4	2,793.31	3/4	2,463.10	3/4	2,132.88
6		6		6		6	4,068.38	6	3,767.67	6	3,446.77	6	3,116.61	6	2,786.44	6	2,456.22	6	2,126.00
1/4		1/4		1/4		1/4	4,062.36	1/4	3,761.20	1/4	3,439.90	1/4	3,109.73	1/4	2,779.56	1/4	2,449.34	1/4	2,119.12
1/2		1/2		1/2	4,351.18	1/2	4,056.30	1/2	3,754.69	1/2	3,433.02	1/2	3,102.85	1/2	2,772.68	1/2	2,442.46	1/2	2,112.24
3/4		3/4		3/4	4,346.29	3/4	4,050.25	3/4	3,748.19	3/4	3,426.15	3/4	3,095.97	3/4	2,765.80	3/4	2,435.58	3/4	2,105.36
7		7		7	4,341.40	7	4,044.19	7	3,741.68	7	3,419.27	7	3,089.09	7	2,758.92	7	2,428.70	7	2,098.48
1/4		1/4		1/4	4,336.51	1/4	4,038.13	1/4	3,735.17	1/4	3,412.39	1/4	3,082.22	1/4	2,752.04	1/4	2,421.82	1/4	2,091.60
1/2		1/2		1/2	4,330.37	1/2	4,032.04	1/2	3,728.63	1/2	3,405.51	1/2	3,075.34	1/2	2,745.16	1/2	2,414.94	1/2	2,084.72
3/4		3/4		3/4	4,324.23	3/4	4,025.95	3/4	3,722.09	3/4	3,398.63	3/4	3,068.46	3/4	2,738.28	3/4	2,408.06	3/4	2,077.84
8		8		8	4,318.09	8	4,019.86	8	3,715.55	8	3,391.75	8	3,061.58	8	2,731.40	8	2,401.18	8	2,070.96
1/4		1/4		1/4	4,311.95	1/4	4,013.77	1/4	3,709.01	1/4	3,384.87	1/4	3,054.70	1/4	2,724.52	1/4	2,394.30	1/4	2,064.08
1/2		1/2		1/2	4,305.18	1/2	4,007.65	1/2	3,702.43	1/2	3,378.00	1/2	3,047.82	1/2	2,717.64	1/2	2,387.42	1/2	2,057.20
3/4		3/4		3/4	4,298.42	3/4	4,001.52	3/4	3,695.86	3/4	3,371.12	3/4	3,040.94	3/4	2,710.76	3/4	2,380.54	3/4	2,050.32
9		9		9	4,291.65	9	3,995.40	9	3,689.28	9	3,364.24	9	3,034.07	9	2,703.88	9	2,373.66	9	2,043.44
1/4		1/4		1/4	4,284.89	1/4	3,989.27	1/4	3,682.71	1/4	3,357.36	1/4	3,027.19	1/4	2,697.00	1/4	2,366.78	1/4	2,036.56
1/2		1/2		1/2	4,278.05	1/2	3,983.08	1/2	3,676.10	1/2	3,350.48	1/2	3,020.31	1/2	2,690.12	1/2	2,359.90	1/2	2,029.68
3/4		3/4		3/4	4,271.21	3/4	3,976.88	3/4	3,669.49	3/4	3,343.60	3/4	3,013.43	3/4	2,683.24	3/4	2,353.02	3/4	2,022.80
10		10		10	4,264.37	10	3,970.68	10	3,662.88	10	3,336.72	10	3,006.55	10	2,676.36	10	2,346.14	10	2,015.92
1/4		1/4		1/4	4,257.53	1/4	3,964.48	1/4	3,656.27	1/4	3,329.85	1/4	2,999.67	1/4	2,669.48	1/4	2,339.26	1/4	2,009.04
1/2		1/2		1/2	4,250.69	1/2	3,958.25	1/2	3,649.63	1/2	3,322.97	1/2	2,992.79	1/2	2,662.60	1/2	2,332.38	1/2	2,002.16
3/4		3/4		3/4	4,243.85	3/4	3,952.01	3/4	3,642.99	3/4	3,316.09	3/4	2,985.92	3/4	2,655.72	3/4	2,325.50	3/4	1,995.28
11		11		11	4,237.02	11	3,945.78	11	3,636.34	11	3,309.21	11	2,979.04	11	2,648.85	11	2,318.62	11	1,988.40
1/4		1/4		1/4	4,230.18	1/4	3,939.55	1/4	3,629.70	1/4	3,302.33	1/4	2,972.16	1/4	2,641.97	1/4	2,311.74	1/4	1,981.52
1/2		1/2		1/2	4,223.84	1/2	3,933.28	1/2	3,623.02	1/2	3,295.45	1/2	2,965.28	1/2	2,635.09	1/2	2,304.87	1/2	1,974.64
3/4		3/4		3/4	4,217.50	3/4	3,927.01	3/4	3,616.34	3/4	3,288.57	3/4	2,958.40	3/4	2,628.21	3/4	2,297.99	3/4	1,967.76

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

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



BARGE "EMS 397"

1 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-04 1/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	1,960.89	0	1,630.66	0	1,300.44	0	970.49	0	655.93	0	364.47	0	96.54	0		0		0	
1/4	1,954.01	1/4	1,623.78	1/4	1,293.56	1/4	963.67	1/4	649.61	1/4	358.63	1/4	91.19	1/4	1/4	1/4		1/4	
1/2	1,947.13	1/2	1,616.91	1/2	1,286.68	1/2	956.89	1/2	643.32	1/2	352.83	1/2	85.88	1/2	1/2	1/2		1/2	
3/4	1,940.25	3/4	1,610.03	3/4	1,279.80	3/4	950.12	3/4	637.03	3/4	347.04	3/4	80.58	3/4	3/4	3/4		3/4	
1	1,933.37	1	1,603.15	1	1,272.93	1	943.34	1	630.74	1	341.24	1	75.27	1	1	1		1	
1/4	1,926.49	1/4	1,596.27	1/4	1,266.05	1/4	936.56	1/4	624.46	1/4	335.44	1/4	69.97	1/4	1/4	1/4		1/4	
1/2	1,919.61	1/2	1,589.39	1/2	1,259.17	1/2	929.84	1/2	618.21	1/2	329.69	1/2	64.70	1/2	1/2	1/2		1/2	
3/4	1,912.73	3/4	1,582.51	3/4	1,252.29	3/4	923.11	3/4	611.97	3/4	323.93	3/4	59.44	3/4	3/4	3/4		3/4	
2	1,905.85	2	1,575.63	2	1,245.41	2	916.39	2	605.72	2	318.18	2	54.17	2	2	2		2	
1/4	1,898.97	1/4	1,568.75	1/4	1,238.53	1/4	909.67	1/4	599.47	1/4	312.42	1/4	48.91	1/4	1/4	1/4		1/4	
1/2	1,892.09	1/2	1,561.87	1/2	1,231.65	1/2	902.99	1/2	593.27	1/2	306.71	1/2	43.93	1/2	1/2	1/2		1/2	
3/4	1,885.21	3/4	1,554.99	3/4	1,224.77	3/4	896.30	3/4	587.06	3/4	300.99	3/4	38.95	3/4	3/4	3/4		3/4	
3	1,878.33	3	1,548.11	3	1,217.89	3	889.62	3	580.86	3	295.28	3	33.97	3	3	3		3	
1/4	1,871.45	1/4	1,541.23	1/4	1,211.01	1/4	882.94	1/4	574.65	1/4	289.56	1/4	28.99	1/4	1/4	1/4		1/4	
1/2	1,864.57	1/2	1,534.35	1/2	1,204.13	1/2	876.30	1/2	568.49	1/2	283.89	1/2	25.77	1/2	1/2	1/2		1/2	
3/4	1,857.69	3/4	1,527.47	3/4	1,197.25	3/4	869.66	3/4	562.33	3/4	278.21	3/4	22.56	3/4	3/4	3/4		3/4	
4	1,850.81	4	1,520.59	4	1,190.37	4	863.01	4	556.16	4	272.54	4	19.34	4	4	4		4	
1/4	1,843.93	1/4	1,513.71	1/4	1,183.49	1/4	856.37	1/4	550.00	1/4	266.87	1/4	16.12	1/4	1/4	1/4		1/4	
1/2	1,837.05	1/2	1,506.83	1/2	1,176.61	1/2	849.78	1/2	543.87	1/2	261.23	1/2		1/2	1/2	1/2		1/2	
3/4	1,830.17	3/4	1,499.95	3/4	1,169.73	3/4	843.18	3/4	537.75	3/4	255.60	3/4		3/4	3/4	3/4		3/4	
5	1,823.29	5	1,493.07	5	1,162.85	5	836.58	5	531.63	5	249.97	5		5	5	5		5	
1/4	1,816.41	1/4	1,486.19	1/4	1,155.97	1/4	829.99	1/4	525.50	1/4	244.33	1/4		1/4	1/4	1/4		1/4	
1/2	1,809.53	1/2	1,479.31	1/2	1,149.09	1/2	823.43	1/2	519.42	1/2	238.74	1/2		1/2	1/2	1/2		1/2	
3/4	1,802.65	3/4	1,472.43	3/4	1,142.21	3/4	816.88	3/4	513.34	3/4	233.15	3/4		3/4	3/4	3/4		3/4	
6	1,795.77	6	1,465.55	6	1,135.33	6	810.32	6	507.26	6	227.56	6		6	6	6		6	
1/4	1,788.90	1/4	1,458.67	1/4	1,128.45	1/4	803.76	1/4	501.17	1/4	221.97	1/4		1/4	1/4	1/4		1/4	
1/2	1,782.02	1/2	1,451.79	1/2	1,121.57	1/2	797.25	1/2	495.13	1/2	216.42	1/2		1/2	1/2	1/2		1/2	
3/4	1,775.14	3/4	1,444.92	3/4	1,114.69	3/4	790.73	3/4	489.09	3/4	210.86	3/4		3/4	3/4	3/4		3/4	
7	1,768.26	7	1,438.04	7	1,107.81	7	784.21	7	483.05	7	205.31	7		7	7	7		7	
1/4	1,761.38	1/4	1,431.16	1/4	1,100.94	1/4	777.69	1/4	477.01	1/4	199.76	1/4		1/4	1/4	1/4		1/4	
1/2	1,754.50	1/2	1,424.28	1/2	1,094.06	1/2	771.21	1/2	471.01	1/2	194.25	1/2		1/2	1/2	1/2		1/2	
3/4	1,747.62	3/4	1,417.40	3/4	1,087.18	3/4	764.73	3/4	465.01	3/4	188.74	3/4		3/4	3/4	3/4		3/4	
8	1,740.74	8	1,410.52	8	1,080.30	8	758.25	8	459.01	8	183.23	8		8	8	8		8	
1/4	1,733.86	1/4	1,403.64	1/4	1,073.42	1/4	751.78	1/4	453.01	1/4	177.72	1/4		1/4	1/4	1/4		1/4	
1/2	1,726.98	1/2	1,396.76	1/2	1,066.54	1/2	745.34	1/2	447.05	1/2	172.25	1/2		1/2	1/2	1/2		1/2	
3/4	1,720.10	3/4	1,389.88	3/4	1,059.66	3/4	738.90	3/4	441.09	3/4	166.78	3/4		3/4	3/4	3/4		3/4	
9	1,713.22	9	1,383.00	9	1,052.78	9	732.46	9	435.13	9	161.31	9		9	9	9		9	
1/4	1,706.34	1/4	1,376.12	1/4	1,045.90	1/4	726.03	1/4	429.17	1/4	155.84	1/4		1/4	1/4	1/4		1/4	
1/2	1,699.46	1/2	1,369.24	1/2	1,039.02	1/2	719.62	1/2	423.25	1/2	150.41	1/2		1/2	1/2	1/2		1/2	
3/4	1,692.58	3/4	1,362.36	3/4	1,032.14	3/4	713.21	3/4	417.33	3/4	144.99	3/4		3/4	3/4	3/4		3/4	
10	1,685.70	10	1,355.48	10	1,025.26	10	706.80	10	411.41	10	139.56	10		10	10	10		10	
1/4	1,678.82	1/4	1,348.60	1/4	1,018.38	1/4	700.39	1/4	405.49	1/4	134.13	1/4		1/4	1/4	1/4		1/4	
1/2	1,671.94	1/2	1,341.72	1/2	1,011.52	1/2	694.02	1/2	399.61	1/2	128.74	1/2		1/2	1/2	1/2		1/2	
3/4	1,665.06	3/4	1,334.84	3/4	1,004.66	3/4	687.65	3/4	393.73	3/4	123.35	3/4		3/4	3/4	3/4		3/4	
11	1,658.18	11	1,327.96	11	997.80	11	681.28	11	387.86	11	117.97	11		11	11	11		11	
1/4	1,651.30	1/4	1,321.08	1/4	990.94	1/4	674.92	1/4	381.98	1/4	112.58	1/4		1/4	1/4	1/4		1/4	
1/2	1,644.42	1/2	1,314.20	1/2	984.13	1/2	668.59	1/2	376.14	1/2	107.23	1/2		1/2	1/2	1/2		1/2	
3/4	1,637.54	3/4	1,307.32	3/4	977.31	3/4	662.26	3/4	370.30	3/4	101.88	3/4		3/4	3/4	3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 07/12/2016 SW
CALCULATED: 07/13/2016 CL
PRINTED: 07/13/2016 JS

CANCELS AND SUPERCEDES
ALL PRIOR TO 07/2016

PRECISION MEASUREMENT
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BARGE "EMS 397"

2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-04 1/2"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT
0		0		0		0	5,114.78	0	4,773.17	0	4,407.81	0	4,022.32	0	3,634.02	0	3,245.69	0	2,857.32
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,107.33	1/4	4,765.80	1/4	4,399.96	1/4	4,014.23	1/4	3,625.93	1/4	3,237.59	1/4	2,849.23
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,099.88	1/2	4,758.43	1/2	4,392.10	1/2	4,006.14	1/2	3,617.84	1/2	3,229.50	1/2	2,841.14
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,093.00	3/4	4,751.02	3/4	4,384.21	3/4	3,998.05	3/4	3,609.75	3/4	3,221.41	3/4	2,833.05
1		1		1		1	5,086.12	1	4,743.61	1	4,376.32	1	3,989.96	1	3,601.66	1	3,213.32	1	2,824.96
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,079.24	1/4	4,736.20	1/4	4,368.42	1/4	3,981.87	1/4	3,593.57	1/4	3,205.23	1/4	2,816.87
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,072.36	1/2	4,728.79	1/2	4,360.53	1/2	3,973.79	1/2	3,585.48	1/2	3,197.14	1/2	2,808.78
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,065.44	3/4	4,721.34	3/4	4,352.60	3/4	3,965.70	3/4	3,577.39	3/4	3,189.05	3/4	2,800.69
2		2		2		2	5,058.52	2	4,713.89	2	4,344.66	2	3,957.61	2	3,569.30	2	3,180.96	2	2,792.60
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,051.60	1/4	4,706.44	1/4	4,336.73	1/4	3,949.52	1/4	3,561.21	1/4	3,172.87	1/4	2,784.50
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,044.68	1/2	4,698.99	1/2	4,328.79	1/2	3,941.43	1/2	3,553.12	1/2	3,164.78	1/2	2,776.41
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,037.71	3/4	4,691.50	3/4	4,320.82	3/4	3,933.34	3/4	3,545.03	3/4	3,156.69	3/4	2,768.32
3		3		3		3	5,030.75	3	4,684.01	3	4,312.85	3	3,925.25	3	3,536.94	3	3,148.59	3	2,760.23
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,023.79	1/4	4,676.52	1/4	4,304.87	1/4	3,917.16	1/4	3,528.85	1/4	3,140.50	1/4	2,752.14
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,016.83	1/2	4,669.03	1/2	4,296.90	1/2	3,909.07	1/2	3,520.76	1/2	3,132.41	1/2	2,744.05
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,009.83	3/4	4,661.49	3/4	4,288.88	3/4	3,900.98	3/4	3,512.67	3/4	3,124.32	3/4	2,735.96
4		4		4		4	5,002.83	4	4,653.96	4	4,280.87	4	3,892.89	4	3,504.58	4	3,116.23	4	2,727.87
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,995.83	1/4	4,646.43	1/4	4,272.85	1/4	3,884.80	1/4	3,496.49	1/4	3,108.14	1/4	2,719.78
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,988.83	1/2	4,638.90	1/2	4,264.84	1/2	3,876.71	1/2	3,488.40	1/2	3,100.05	1/2	2,711.69
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,981.79	3/4	4,631.33	3/4	4,256.79	3/4	3,868.62	3/4	3,480.31	3/4	3,091.96	3/4	2,703.60
5		5		5		5	4,974.75	5	4,623.76	5	4,248.73	5	3,860.53	5	3,472.22	5	3,083.87	5	2,695.50
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,967.70	1/4	4,616.19	1/4	4,240.68	1/4	3,852.44	1/4	3,464.13	1/4	3,075.78	1/4	2,687.41
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,960.66	1/2	4,608.61	1/2	4,232.62	1/2	3,844.35	1/2	3,456.04	1/2	3,067.69	1/2	2,679.32
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,953.58	3/4	4,601.00	3/4	4,224.54	3/4	3,836.26	3/4	3,447.95	3/4	3,059.59	3/4	2,671.23
6		6		6		6	4,946.50	6	4,593.39	6	4,216.46	6	3,828.17	6	3,439.86	6	3,051.50	6	2,663.14
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,939.42	1/4	4,585.78	1/4	4,208.38	1/4	3,820.08	1/4	3,431.78	1/4	3,043.41	1/4	2,655.05
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,932.34	1/2	4,578.17	1/2	4,200.30	1/2	3,811.99	1/2	3,423.69	1/2	3,035.32	1/2	2,646.96
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,271.99	3/4	4,925.22	3/4	4,570.51	3/4	4,192.21	3/4	3,803.90	3/4	3,415.59	3/4	3,027.23
7		7		7		7	4,918.09	7	4,562.86	7	4,184.12	7	3,795.81	7	3,407.50	7	3,019.14	7	2,630.78
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,266.24	1/4	4,910.97	1/4	4,555.21	1/4	4,176.03	1/4	3,787.72	1/4	3,399.41	1/4	3,011.05
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,254.74	1/2	4,903.85	1/2	4,547.56	1/2	4,167.94	1/2	3,779.63	1/2	3,391.32	1/2	3,002.96
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,247.52	3/4	4,896.69	3/4	4,539.87	3/4	4,159.85	3/4	3,771.54	3/4	3,383.23	3/4	2,994.87
8		8		8		8	5,240.30	8	4,889.53	8	4,532.17	8	4,151.76	8	3,763.45	8	3,375.14	8	2,986.78
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,233.07	1/4	4,882.37	1/4	4,524.48	1/4	4,143.67	1/4	3,755.36	1/4	3,367.05	1/4	2,978.69
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,225.85	1/2	4,875.20	1/2	4,516.79	1/2	4,135.58	1/2	3,747.27	1/2	3,358.96	1/2	2,970.59
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,217.89	3/4	4,868.00	3/4	4,509.06	3/4	4,127.49	3/4	3,739.18	3/4	3,350.87	3/4	2,962.50
9		9		9		9	5,209.94	9	4,860.80	9	4,501.32	9	4,119.40	9	3,731.09	9	3,342.78	9	2,954.41
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,201.98	1/4	4,853.60	1/4	4,493.59	1/4	4,111.31	1/4	3,723.00	1/4	3,334.69	1/4	2,946.32
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,194.02	1/2	4,846.39	1/2	4,485.86	1/2	4,103.22	1/2	3,714.91	1/2	3,326.59	1/2	2,938.23
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,185.98	3/4	4,839.10	3/4	4,478.09	3/4	4,095.13	3/4	3,706.82	3/4	3,318.50	3/4	2,930.14
10		10		10		10	5,177.94	10	4,831.81	10	4,470.31	10	4,087.04	10	3,698.74	10	3,310.41	10	2,922.05
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,169.90	1/4	4,824.52	1/4	4,462.54	1/4	4,078.95	1/4	3,690.65	1/4	3,302.32	1/4	2,913.96
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,161.85	1/2	4,817.24	1/2	4,454.77	1/2	4,070.86	1/2	3,682.56	1/2	3,294.23	1/2	2,905.87
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,153.81	3/4	4,809.91	3/4	4,446.96	3/4	4,062.77	3/4	3,674.47	3/4	3,286.14	3/4	2,897.78
11		11		11		11	5,145.77	11	4,802.58	11	4,439.14	11	4,054.68	11	3,666.38	11	3,278.05	11	2,889.69
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,137.73	1/4	4,795.25	1/4	4,431.33	1/4	4,046.59	1/4	3,658.29	1/4	3,269.96	1/4	2,881.60
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,129.68	1/2	4,787.92	1/2	4,423.52	1/2	4,038.50	1/2	3,650.20	1/2	3,261.87	1/2	2,873.50
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,122.23	3/4	4,780.55	3/4	4,415.66	3/4	4,030.41	3/4	3,642.11	3/4	3,253.78	3/4	2,865.41

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

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT
 & ANALYSIS, INC.
 P.O. Box 2092
 Pearland, Texas 77588
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BARGE "EMS 397"

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	2,468.96	0	2,080.60	0	1,692.23	0	1,303.87	0	915.51	0	541.80	0	154.09	0		0		0	
1/4	2,460.87	1/4	2,072.51	1/4	1,684.14	1/4	1,295.78	1/4	907.42	1/4	534.02	1/4	146.00	1/4		1/4		1/4	
1/2	2,452.78	1/2	2,064.41	1/2	1,676.05	1/2	1,287.69	1/2	899.32	1/2	526.24	1/2	137.91	1/2		1/2		1/2	
3/4	2,444.69	3/4	2,056.32	3/4	1,667.96	3/4	1,279.60	3/4	891.54	3/4	518.15	3/4	129.82	3/4		3/4		3/4	
1	2,436.60	1	2,048.23	1	1,659.87	1	1,271.51	1	883.75	1	510.06	1	121.73	1		1		1	
1/4	2,428.50	1/4	2,040.14	1/4	1,651.78	1/4	1,263.42	1/4	875.97	1/4	501.97	1/4	113.64	1/4		1/4		1/4	
1/2	2,420.41	1/2	2,032.05	1/2	1,643.69	1/2	1,255.32	1/2	868.18	1/2	493.88	1/2	105.55	1/2		1/2		1/2	
3/4	2,412.32	3/4	2,023.96	3/4	1,635.60	3/4	1,247.23	3/4	860.40	3/4	485.79	3/4	97.46	3/4		3/4		3/4	
2	2,404.23	2	2,015.87	2	1,627.51	2	1,239.14	2	852.61	2	477.70	2	89.37	2		2		2	
1/4	2,396.14	1/4	2,007.78	1/4	1,619.41	1/4	1,231.05	1/4	844.83	1/4	469.61	1/4	81.28	1/4		1/4		1/4	
1/2	2,388.05	1/2	1,999.69	1/2	1,611.32	1/2	1,222.96	1/2	837.04	1/2	461.52	1/2	73.19	1/2		1/2		1/2	
3/4	2,379.96	3/4	1,991.60	3/4	1,603.23	3/4	1,214.87	3/4	829.27	3/4	453.43	3/4	65.39	3/4		3/4		3/4	
3	2,371.87	3	1,983.51	3	1,595.14	3	1,206.78	3	821.49	3	445.34	3	57.59	3		3		3	
1/4	2,363.78	1/4	1,975.41	1/4	1,587.05	1/4	1,198.69	1/4	813.71	1/4	437.25	1/4	49.79	1/4		1/4		1/4	
1/2	2,355.69	1/2	1,967.32	1/2	1,578.96	1/2	1,190.60	1/2	805.93	1/2	429.16	1/2	41.99	1/2		1/2		1/2	
3/4	2,347.60	3/4	1,959.23	3/4	1,570.87	3/4	1,182.51	3/4	798.16	3/4	421.07	3/4	36.21	3/4		3/4		3/4	
4	2,339.50	4	1,951.14	4	1,562.78	4	1,174.42	4	790.39	4	412.98	4	30.43	4		4		4	
1/4	2,331.41	1/4	1,943.05	1/4	1,554.69	1/4	1,166.32	1/4	782.62	1/4	404.89	1/4	24.65	1/4		1/4		1/4	
1/2	2,323.32	1/2	1,934.96	1/2	1,546.60	1/2	1,158.23	1/2	774.85	1/2	396.80	1/2	18.87	1/2		1/2		1/2	
3/4	2,315.23	3/4	1,926.87	3/4	1,538.51	3/4	1,150.14	3/4	767.08	3/4	388.71	3/4		3/4		3/4		3/4	
5	2,307.14	5	1,918.78	5	1,530.41	5	1,142.05	5	759.31	5	380.62	5		5		5		5	
1/4	2,299.05	1/4	1,910.69	1/4	1,522.32	1/4	1,133.96	1/4	751.55	1/4	372.53	1/4		1/4		1/4		1/4	
1/2	2,290.96	1/2	1,902.60	1/2	1,514.23	1/2	1,125.87	1/2	743.78	1/2	364.44	1/2		1/2		1/2		1/2	
3/4	2,282.87	3/4	1,894.51	3/4	1,506.14	3/4	1,117.78	3/4	736.01	3/4	356.35	3/4		3/4		3/4		3/4	
6	2,274.78	6	1,886.41	6	1,498.05	6	1,109.69	6	728.24	6	348.26	6		6		6		6	
1/4	2,266.69	1/4	1,878.32	1/4	1,489.96	1/4	1,101.60	1/4	720.47	1/4	340.17	1/4		1/4		1/4		1/4	
1/2	2,258.60	1/2	1,870.23	1/2	1,481.87	1/2	1,093.51	1/2	712.70	1/2	332.08	1/2		1/2		1/2		1/2	
3/4	2,250.50	3/4	1,862.14	3/4	1,473.78	3/4	1,085.42	3/4	704.94	3/4	323.99	3/4		3/4		3/4		3/4	
7	2,242.41	7	1,854.05	7	1,465.69	7	1,077.32	7	697.17	7	315.90	7		7		7		7	
1/4	2,234.32	1/4	1,845.96	1/4	1,457.60	1/4	1,069.23	1/4	689.41	1/4	307.81	1/4		1/4		1/4		1/4	
1/2	2,226.23	1/2	1,837.87	1/2	1,449.51	1/2	1,061.14	1/2	681.64	1/2	299.72	1/2		1/2		1/2		1/2	
3/4	2,218.14	3/4	1,829.78	3/4	1,441.41	3/4	1,053.05	3/4	673.88	3/4	291.63	3/4		3/4		3/4		3/4	
8	2,210.05	8	1,821.69	8	1,433.32	8	1,044.96	8	666.11	8	283.54	8		8		8		8	
1/4	2,201.96	1/4	1,813.60	1/4	1,425.23	1/4	1,036.87	1/4	658.35	1/4	275.45	1/4		1/4		1/4		1/4	
1/2	2,193.87	1/2	1,805.51	1/2	1,417.14	1/2	1,028.78	1/2	650.58	1/2	267.36	1/2		1/2		1/2		1/2	
3/4	2,185.78	3/4	1,797.41	3/4	1,409.05	3/4	1,020.69	3/4	642.82	3/4	259.27	3/4		3/4		3/4		3/4	
9	2,177.69	9	1,789.32	9	1,400.96	9	1,012.60	9	635.05	9	251.17	9		9		9		9	
1/4	2,169.60	1/4	1,781.23	1/4	1,392.87	1/4	1,004.51	1/4	627.28	1/4	243.08	1/4		1/4		1/4		1/4	
1/2	2,161.50	1/2	1,773.14	1/2	1,384.78	1/2	996.42	1/2	619.51	1/2	234.99	1/2		1/2		1/2		1/2	
3/4	2,153.41	3/4	1,765.05	3/4	1,376.69	3/4	988.32	3/4	611.74	3/4	226.90	3/4		3/4		3/4		3/4	
10	2,145.32	10	1,756.96	10	1,368.60	10	980.23	10	603.97	10	218.81	10		10		10		10	
1/4	2,137.23	1/4	1,748.87	1/4	1,360.51	1/4	972.14	1/4	596.20	1/4	210.72	1/4		1/4		1/4		1/4	
1/2	2,129.14	1/2	1,740.78	1/2	1,352.41	1/2	964.05	1/2	588.43	1/2	202.63	1/2		1/2		1/2		1/2	
3/4	2,121.05	3/4	1,732.69	3/4	1,344.32	3/4	955.96	3/4	580.66	3/4	194.54	3/4		3/4		3/4		3/4	
11	2,112.96	11	1,724.60	11	1,336.23	11	947.87	11	572.90	11	186.45	11		11		11		11	
1/4	2,104.87	1/4	1,716.51	1/4	1,328.14	1/4	939.78	1/4	565.13	1/4	178.36	1/4		1/4		1/4		1/4	
1/2	2,096.78	1/2	1,708.41	1/2	1,320.05	1/2	931.69	1/2	557.36	1/2	170.27	1/2		1/2		1/2		1/2	
3/4	2,088.69	3/4	1,700.32	3/4	1,311.96	3/4	923.60	3/4	549.58	3/4	162.18	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 07/12/2016 SW
CALCULATED: 07/13/2016 CL
PRINTED: 07/13/2016 JS

CANCELS AND SUPERCEDES
ALL PRIOR TO 07/2016

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



BARGE "EMS 397"

2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-04 1/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0		0		0	5,110.81	0	4,770.04	0	4,405.01	0	4,020.15	0	3,632.72	0	3,245.26	0	2,857.76
1/4		1/4		1/4		1/4	5,103.37	1/4	4,762.69	1/4	4,397.18	1/4	4,012.08	1/4	3,624.65	1/4	3,237.18	1/4	2,849.68
1/2		1/2		1/2		1/2	5,096.51	1/2	4,755.30	1/2	4,389.30	1/2	4,004.01	1/2	3,616.58	1/2	3,229.11	1/2	2,841.61
3/4		3/4		3/4		3/4	5,089.64	3/4	4,747.90	3/4	4,381.42	3/4	3,995.94	3/4	3,608.51	3/4	3,221.04	3/4	2,833.54
1		1		1		1	5,082.78	1	4,740.51	1	4,373.55	1	3,987.87	1	3,600.43	1	3,212.96	1	2,825.46
1/4		1/4		1/4		1/4	5,075.91	1/4	4,733.11	1/4	4,365.67	1/4	3,979.79	1/4	3,592.36	1/4	3,204.89	1/4	2,817.39
1/2		1/2		1/2		1/2	5,069.01	1/2	4,725.68	1/2	4,357.76	1/2	3,971.72	1/2	3,584.29	1/2	3,196.82	1/2	2,809.32
3/4		3/4		3/4		3/4	5,062.10	3/4	4,718.25	3/4	4,349.84	3/4	3,963.65	3/4	3,576.22	3/4	3,188.74	3/4	2,801.25
2		2		2		2	5,055.20	2	4,710.81	2	4,341.92	2	3,955.58	2	3,568.15	2	3,180.67	2	2,793.17
1/4		1/4		1/4		1/4	5,048.29	1/4	4,703.38	1/4	4,334.01	1/4	3,947.51	1/4	3,560.08	1/4	3,172.60	1/4	2,785.10
1/2		1/2		1/2		1/2	5,041.35	1/2	4,695.90	1/2	4,326.05	1/2	3,939.44	1/2	3,552.00	1/2	3,164.53	1/2	2,777.03
3/4		3/4		3/4		3/4	5,034.40	3/4	4,688.43	3/4	4,318.10	3/4	3,931.37	3/4	3,543.93	3/4	3,156.45	3/4	2,768.95
3		3		3		3	5,027.46	3	4,680.95	3	4,310.14	3	3,923.29	3	3,535.86	3	3,148.38	3	2,760.88
1/4		1/4		1/4		1/4	5,020.51	1/4	4,673.48	1/4	4,302.18	1/4	3,915.22	1/4	3,527.79	1/4	3,140.31	1/4	2,752.81
1/2		1/2		1/2		1/2	5,013.53	1/2	4,665.97	1/2	4,294.19	1/2	3,907.15	1/2	3,519.72	1/2	3,132.23	1/2	2,744.74
3/4		3/4		3/4		3/4	5,006.54	3/4	4,658.45	3/4	4,286.19	3/4	3,899.08	3/4	3,511.65	3/4	3,124.16	3/4	2,736.66
4		4		4		4	4,999.56	4	4,650.94	4	4,278.19	4	3,891.01	4	3,503.58	4	3,116.09	4	2,728.59
1/4		1/4		1/4		1/4	4,992.57	1/4	4,643.42	1/4	4,270.20	1/4	3,882.94	1/4	3,495.50	1/4	3,108.02	1/4	2,720.52
1/2		1/2		1/2		1/2	4,985.54	1/2	4,635.87	1/2	4,262.16	1/2	3,874.86	1/2	3,487.43	1/2	3,099.94	1/2	2,712.44
3/4		3/4		3/4		3/4	4,978.52	3/4	4,628.31	3/4	4,254.12	3/4	3,866.79	3/4	3,479.36	3/4	3,091.87	3/4	2,704.37
5		5		5		5	4,971.49	5	4,620.76	5	4,246.09	5	3,858.72	5	3,471.29	5	3,083.80	5	2,696.30
1/4		1/4		1/4		1/4	4,964.47	1/4	4,613.20	1/4	4,238.05	1/4	3,850.65	1/4	3,463.22	1/4	3,075.72	1/4	2,688.23
1/2		1/2		1/2		1/2	4,957.40	1/2	4,605.61	1/2	4,229.99	1/2	3,842.58	1/2	3,455.15	1/2	3,067.65	1/2	2,680.15
3/4		3/4		3/4		3/4	4,950.34	3/4	4,598.01	3/4	4,221.92	3/4	3,834.51	3/4	3,447.08	3/4	3,059.58	3/4	2,672.08
6		6		6		6	4,943.27	6	4,590.42	6	4,213.86	6	3,826.44	6	3,439.00	6	3,051.51	6	2,664.01
1/4		1/4		1/4		1/4	4,936.21	1/4	4,582.82	1/4	4,205.80	1/4	3,818.36	1/4	3,430.93	1/4	3,043.43	1/4	2,655.93
1/2		1/2		1/2		1/2	5,275.10	1/2	4,929.10	1/2	4,575.19	1/2	4,197.72	1/2	3,810.29	1/2	3,422.86	1/2	3,035.36
3/4		3/4		3/4		3/4	5,269.36	3/4	4,921.99	3/4	4,567.55	3/4	4,189.65	3/4	3,802.22	3/4	3,414.79	3/4	3,027.29
7		7		7		7	5,263.63	7	4,914.89	7	4,559.92	7	4,181.58	7	3,794.15	7	3,406.71	7	3,019.21
1/4		1/4		1/4		1/4	5,257.89	1/4	4,907.78	1/4	4,552.28	1/4	4,173.51	1/4	3,786.08	1/4	3,398.64	1/4	3,011.14
1/2		1/2		1/2		1/2	5,250.68	1/2	4,900.64	1/2	4,544.61	1/2	4,165.44	1/2	3,778.01	1/2	3,390.57	1/2	3,003.07
3/4		3/4		3/4		3/4	5,243.48	3/4	4,893.49	3/4	4,536.93	3/4	4,157.37	3/4	3,769.94	3/4	3,382.49	3/4	2,995.00
8		8		8		8	5,236.27	8	4,886.34	8	4,529.26	8	4,149.30	8	3,761.86	8	3,374.42	8	2,986.92
1/4		1/4		1/4		1/4	5,229.06	1/4	4,879.20	1/4	4,521.58	1/4	4,141.22	1/4	3,753.79	1/4	3,366.35	1/4	2,978.85
1/2		1/2		1/2		1/2	5,221.12	1/2	4,872.01	1/2	4,513.87	1/2	4,133.15	1/2	3,745.72	1/2	3,358.28	1/2	2,970.78
3/4		3/4		3/4		3/4	5,213.18	3/4	4,864.83	3/4	4,506.15	3/4	4,125.08	3/4	3,737.65	3/4	3,350.20	3/4	2,962.70
9		9		9		9	5,205.25	9	4,857.64	9	4,498.44	9	4,117.01	9	3,729.58	9	3,342.13	9	2,954.63
1/4		1/4		1/4		1/4	5,197.31	1/4	4,850.45	1/4	4,490.72	1/4	4,108.94	1/4	3,721.51	1/4	3,334.06	1/4	2,946.56
1/2		1/2		1/2		1/2	5,189.28	1/2	4,843.18	1/2	4,482.97	1/2	4,100.87	1/2	3,713.43	1/2	3,325.98	1/2	2,938.49
3/4		3/4		3/4		3/4	5,181.26	3/4	4,835.91	3/4	4,475.21	3/4	4,092.80	3/4	3,705.36	3/4	3,317.91	3/4	2,930.41
10		10		10		10	5,173.23	10	4,828.63	10	4,467.46	10	4,084.72	10	3,697.29	10	3,309.84	10	2,922.34
1/4		1/4		1/4		1/4	5,165.21	1/4	4,821.36	1/4	4,459.70	1/4	4,076.65	1/4	3,689.22	1/4	3,301.77	1/4	2,914.27
1/2		1/2		1/2		1/2	5,157.18	1/2	4,814.05	1/2	4,451.91	1/2	4,068.58	1/2	3,681.15	1/2	3,293.69	1/2	2,906.19
3/4		3/4		3/4		3/4	5,149.16	3/4	4,806.73	3/4	4,444.11	3/4	4,060.51	3/4	3,673.08	3/4	3,285.62	3/4	2,898.12
11		11		11		11	5,141.13	11	4,799.42	11	4,436.31	11	4,052.44	11	3,665.01	11	3,277.55	11	2,890.05
1/4		1/4		1/4		1/4	5,133.11	1/4	4,792.10	1/4	4,428.52	1/4	4,044.37	1/4	3,656.93	1/4	3,269.47	1/4	2,881.97
1/2		1/2		1/2		1/2	5,125.68	1/2	4,784.75	1/2	4,420.68	1/2	4,036.29	1/2	3,648.86	1/2	3,261.40	1/2	2,873.90
3/4		3/4		3/4		3/4	5,118.24	3/4	4,777.40	3/4	4,412.85	3/4	4,028.22	3/4	3,640.79	3/4	3,253.33	3/4	2,865.83

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

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



BARGE "EMS 397"

2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-04 1/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,470.26	0	2,082.76	0	1,695.26	0	1,307.76	0	920.26	0	533.13	0	145.67	0		0		0	
1/4	2,462.18	1/4	2,074.68	1/4	1,687.19	1/4	1,299.69	1/4	912.19	1/4	525.06	1/4	137.60	1/4		1/4		1/4	
1/2	2,454.11	1/2	2,066.61	1/2	1,679.11	1/2	1,291.61	1/2	904.11	1/2	516.99	1/2	129.52	1/2		1/2		1/2	
3/4	2,446.04	3/4	2,058.54	3/4	1,671.04	3/4	1,283.54	3/4	896.04	3/4	508.92	3/4	121.45	3/4		3/4		3/4	
1	2,437.97	1	2,050.47	1	1,662.97	1	1,275.47	1	887.97	1	500.85	1	113.38	1		1		1	
1/4	2,429.89	1/4	2,042.39	1/4	1,654.89	1/4	1,267.39	1/4	879.90	1/4	492.77	1/4	105.31	1/4		1/4		1/4	
1/2	2,421.82	1/2	2,034.32	1/2	1,646.82	1/2	1,259.32	1/2	871.82	1/2	484.70	1/2	97.24	1/2		1/2		1/2	
3/4	2,413.75	3/4	2,026.25	3/4	1,638.75	3/4	1,251.25	3/4	863.75	3/4	476.63	3/4	89.16	3/4		3/4		3/4	
2	2,405.67	2	2,018.17	2	1,630.68	2	1,243.18	2	855.68	2	468.56	2	81.09	2		2		2	
1/4	2,397.60	1/4	2,010.10	1/4	1,622.60	1/4	1,235.10	1/4	847.60	1/4	460.49	1/4	73.02	1/4		1/4		1/4	
1/2	2,389.53	1/2	2,002.03	1/2	1,614.53	1/2	1,227.03	1/2	839.53	1/2	452.41	1/2	65.24	1/2		1/2		1/2	
3/4	2,381.45	3/4	1,993.96	3/4	1,606.46	3/4	1,218.96	3/4	831.46	3/4	444.34	3/4	57.45	3/4		3/4		3/4	
3	2,373.38	3	1,985.88	3	1,598.38	3	1,210.88	3	823.39	3	436.27	3	49.67	3		3		3	
1/4	2,365.31	1/4	1,977.81	1/4	1,590.31	1/4	1,202.81	1/4	815.31	1/4	428.20	1/4	41.88	1/4		1/4		1/4	
1/2	2,357.24	1/2	1,969.74	1/2	1,582.24	1/2	1,194.74	1/2	807.25	1/2	420.12	1/2	36.12	1/2		1/2		1/2	
3/4	2,349.16	3/4	1,961.66	3/4	1,574.16	3/4	1,186.67	3/4	799.19	3/4	412.05	3/4	30.35	3/4		3/4		3/4	
4	2,341.09	4	1,953.59	4	1,566.09	4	1,178.59	4	791.13	4	403.98	4	24.59	4		4		4	
1/4	2,333.02	1/4	1,945.52	1/4	1,558.02	1/4	1,170.52	1/4	783.06	1/4	395.91	1/4	18.83	1/4		1/4		1/4	
1/2	2,324.94	1/2	1,937.45	1/2	1,549.95	1/2	1,162.45	1/2	775.00	1/2	387.84	1/2		1/2		1/2		1/2	
3/4	2,316.87	3/4	1,929.37	3/4	1,541.87	3/4	1,154.37	3/4	766.94	3/4	379.76	3/4		3/4		3/4		3/4	
5	2,308.80	5	1,921.30	5	1,533.80	5	1,146.30	5	758.88	5	371.69	5		5		5		5	
1/4	2,300.73	1/4	1,913.23	1/4	1,525.73	1/4	1,138.23	1/4	750.81	1/4	363.62	1/4		1/4		1/4		1/4	
1/2	2,292.65	1/2	1,905.15	1/2	1,517.65	1/2	1,130.16	1/2	742.75	1/2	355.55	1/2		1/2		1/2		1/2	
3/4	2,284.58	3/4	1,897.08	3/4	1,509.58	3/4	1,122.08	3/4	734.69	3/4	347.47	3/4		3/4		3/4		3/4	
6	2,276.51	6	1,889.01	6	1,501.51	6	1,114.01	6	726.63	6	339.40	6		6		6		6	
1/4	2,268.43	1/4	1,880.94	1/4	1,493.44	1/4	1,105.94	1/4	718.56	1/4	331.33	1/4		1/4		1/4		1/4	
1/2	2,260.36	1/2	1,872.86	1/2	1,485.36	1/2	1,097.86	1/2	710.51	1/2	323.26	1/2		1/2		1/2		1/2	
3/4	2,252.29	3/4	1,864.79	3/4	1,477.29	3/4	1,089.79	3/4	702.45	3/4	315.19	3/4		3/4		3/4		3/4	
7	2,244.22	7	1,856.72	7	1,469.22	7	1,081.72	7	694.39	7	307.11	7		7		7		7	
1/4	2,236.14	1/4	1,848.64	1/4	1,461.14	1/4	1,073.65	1/4	686.33	1/4	299.04	1/4		1/4		1/4		1/4	
1/2	2,228.07	1/2	1,840.57	1/2	1,453.07	1/2	1,065.57	1/2	678.27	1/2	290.97	1/2		1/2		1/2		1/2	
3/4	2,220.00	3/4	1,832.50	3/4	1,445.00	3/4	1,057.50	3/4	670.22	3/4	282.90	3/4		3/4		3/4		3/4	
8	2,211.92	8	1,824.42	8	1,436.93	8	1,049.43	8	662.16	8	274.82	8		8		8		8	
1/4	2,203.85	1/4	1,816.35	1/4	1,428.85	1/4	1,041.35	1/4	654.10	1/4	266.75	1/4		1/4		1/4		1/4	
1/2	2,195.78	1/2	1,808.28	1/2	1,420.78	1/2	1,033.28	1/2	646.04	1/2	258.68	1/2		1/2		1/2		1/2	
3/4	2,187.71	3/4	1,800.21	3/4	1,412.71	3/4	1,025.21	3/4	637.98	3/4	250.61	3/4		3/4		3/4		3/4	
9	2,179.63	9	1,792.13	9	1,404.63	9	1,017.13	9	629.91	9	242.54	9		9		9		9	
1/4	2,171.56	1/4	1,784.06	1/4	1,396.56	1/4	1,009.06	1/4	621.85	1/4	234.46	1/4		1/4		1/4		1/4	
1/2	2,163.49	1/2	1,775.99	1/2	1,388.49	1/2	1,000.99	1/2	613.79	1/2	226.39	1/2		1/2		1/2		1/2	
3/4	2,155.41	3/4	1,767.91	3/4	1,380.42	3/4	992.92	3/4	605.73	3/4	218.32	3/4		3/4		3/4		3/4	
10	2,147.34	10	1,759.84	10	1,372.34	10	984.84	10	597.66	10	210.25	10		10		10		10	
1/4	2,139.27	1/4	1,751.77	1/4	1,364.27	1/4	976.77	1/4	589.60	1/4	202.17	1/4		1/4		1/4		1/4	
1/2	2,131.20	1/2	1,743.70	1/2	1,356.20	1/2	968.70	1/2	581.54	1/2	194.10	1/2		1/2		1/2		1/2	
3/4	2,123.12	3/4	1,735.62	3/4	1,348.12	3/4	960.62	3/4	573.48	3/4	186.03	3/4		3/4		3/4		3/4	
11	2,115.05	11	1,727.55	11	1,340.05	11	952.55	11	565.41	11	177.96	11		11		11		11	
1/4	2,106.98	1/4	1,719.48	1/4	1,331.98	1/4	944.48	1/4	557.35	1/4	169.89	1/4		1/4		1/4		1/4	
1/2	2,098.90	1/2	1,711.40	1/2	1,323.91	1/2	936.41	1/2	549.28	1/2	161.81	1/2		1/2		1/2		1/2	
3/4	2,090.83	3/4	1,703.33	3/4	1,315.83	3/4	928.33	3/4	541.21	3/4	153.74	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 07/12/2016 SW
CALCULATED: 07/13/2016 CL
PRINTED: 07/13/2016 JS

CANCELS AND SUPERCEDES
ALL PRIOR TO 07/2016

PRECISION MEASUREMENT
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BARGE "EMS 397"

3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-04 3/4"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT
0		0		0		0	4,509.32	0	4,257.26	0	3,983.87	0	3,691.49	0	3,394.87	0	3,032.93	0	2,670.90
1/4		1/4		1/4		1/4	4,503.76	1/4	4,251.78	1/4	3,977.94	1/4	3,685.34	1/4	3,387.33	1/4	3,025.40	1/4	2,663.36
1/2		1/2		1/2		1/2	4,498.19	1/2	4,246.30	1/2	3,972.01	1/2	3,679.19	1/2	3,379.78	1/2	3,017.86	1/2	2,655.81
3/4		3/4		3/4		3/4	4,492.63	3/4	4,240.82	3/4	3,966.08	3/4	3,673.04	3/4	3,372.24	3/4	3,010.32	3/4	2,648.27
1		1		1		1	4,487.60	1	4,235.30	1	3,960.11	1	3,666.89	1	3,364.69	1	3,002.78	1	2,640.72
1/4		1/4		1/4		1/4	4,482.57	1/4	4,229.79	1/4	3,954.15	1/4	3,660.74	1/4	3,357.15	1/4	2,995.24	1/4	2,633.18
1/2		1/2		1/2		1/2	4,477.54	1/2	4,224.27	1/2	3,948.18	1/2	3,654.59	1/2	3,349.61	1/2	2,987.71	1/2	2,625.63
3/4		3/4		3/4		3/4	4,472.51	3/4	4,218.75	3/4	3,942.21	3/4	3,648.44	3/4	3,342.06	3/4	2,980.17	3/4	2,618.09
2		2		2		2	4,467.44	2	4,213.20	2	3,936.21	2	3,642.29	2	3,334.52	2	2,972.63	2	2,610.54
1/4		1/4		1/4		1/4	4,462.37	1/4	4,207.64	1/4	3,930.20	1/4	3,636.13	1/4	3,326.97	1/4	2,965.09	1/4	2,603.00
1/2		1/2		1/2		1/2	4,457.30	1/2	4,202.09	1/2	3,924.20	1/2	3,629.98	1/2	3,319.43	1/2	2,957.55	1/2	2,595.45
3/4		3/4		3/4		3/4	4,452.24	3/4	4,196.53	3/4	3,918.19	3/4	3,623.83	3/4	3,311.88	3/4	2,950.02	3/4	2,587.90
3		3		3		3	4,447.13	3	4,190.94	3	3,912.15	3	3,617.68	3	3,304.34	3	2,942.48	3	2,580.36
1/4		1/4		1/4		1/4	4,442.03	1/4	4,185.35	1/4	3,906.11	1/4	3,611.53	1/4	3,296.79	1/4	2,934.94	1/4	2,572.81
1/2		1/2		1/2		1/2	4,436.92	1/2	4,179.75	1/2	3,900.06	1/2	3,605.38	1/2	3,289.25	1/2	2,927.40	1/2	2,565.27
3/4		3/4		3/4		3/4	4,431.81	3/4	4,174.16	3/4	3,894.02	3/4	3,599.23	3/4	3,281.71	3/4	2,919.86	3/4	2,557.72
4		4		4		4	4,426.67	4	4,168.53	4	3,887.94	4	3,593.08	4	3,274.16	4	2,912.33	4	2,550.18
1/4		1/4		1/4		1/4	4,421.53	1/4	4,162.90	1/4	3,881.86	1/4	3,586.93	1/4	3,266.62	1/4	2,904.79	1/4	2,542.63
1/2		1/2		1/2		1/2	4,416.38	1/2	4,157.27	1/2	3,875.78	1/2	3,580.78	1/2	3,259.07	1/2	2,897.25	1/2	2,535.09
3/4		3/4		3/4		3/4	4,411.24	3/4	4,151.64	3/4	3,869.70	3/4	3,574.63	3/4	3,251.53	3/4	2,889.71	3/4	2,527.54
5		5		5		5	4,406.06	5	4,145.97	5	3,863.58	5	3,568.48	5	3,243.99	5	2,882.17	5	2,520.00
1/4		1/4		1/4		1/4	4,400.88	1/4	4,140.31	1/4	3,857.46	1/4	3,562.33	1/4	3,236.45	1/4	2,874.62	1/4	2,512.45
1/2		1/2		1/2		1/2	4,395.70	1/2	4,134.64	1/2	3,851.35	1/2	3,556.18	1/2	3,228.92	1/2	2,867.08	1/2	2,504.91
3/4		3/4		3/4		3/4	4,390.52	3/4	4,128.97	3/4	3,845.23	3/4	3,550.03	3/4	3,221.38	3/4	2,859.53	3/4	2,497.36
6		6		6		6	4,385.30	6	4,123.27	6	3,839.08	6	3,543.88	6	3,213.84	6	2,851.99	6	2,489.82
1/4		1/4		1/4		1/4	4,380.08	1/4	4,117.56	1/4	3,832.94	1/4	3,537.73	1/4	3,206.31	1/4	2,844.44	1/4	2,482.27
1/2		1/2		1/2		1/2	4,374.86	1/2	4,111.86	1/2	3,826.79	1/2	3,531.58	1/2	3,198.77	1/2	2,836.90	1/2	2,474.73
3/4		3/4		3/4		3/4	4,369.65	3/4	4,106.15	3/4	3,820.65	3/4	3,525.43	3/4	3,191.23	3/4	2,829.35	3/4	2,467.18
7		7		7	4,636.51	7	4,364.39	7	4,100.41	7	3,814.50	7	3,519.28	7	3,183.69	7	2,821.81	7	2,459.64
1/4		1/4		1/4	4,631.15	1/4	4,359.13	1/4	4,094.67	1/4	3,808.35	1/4	3,513.12	1/4	3,176.16	1/4	2,814.26	1/4	2,452.09
1/2		1/2		1/2	4,625.78	1/2	4,353.88	1/2	4,088.93	1/2	3,802.20	1/2	3,506.97	1/2	3,168.62	1/2	2,806.72	1/2	2,444.55
3/4		3/4		3/4	4,620.42	3/4	4,348.62	3/4	4,083.18	3/4	3,796.05	3/4	3,500.82	3/4	3,161.08	3/4	2,799.17	3/4	2,437.00
8		8		8	4,613.69	8	4,343.33	8	4,077.40	8	3,789.90	8	3,494.67	8	3,153.54	8	2,791.63	8	2,429.46
1/4		1/4		1/4	4,608.95	1/4	4,338.04	1/4	4,071.62	1/4	3,783.75	1/4	3,488.52	1/4	3,146.00	1/4	2,784.08	1/4	2,421.91
1/2		1/2		1/2	4,600.22	1/2	4,332.74	1/2	4,065.84	1/2	3,777.60	1/2	3,482.37	1/2	3,138.47	1/2	2,776.53	1/2	2,414.37
3/4		3/4		3/4	4,593.48	3/4	4,327.45	3/4	4,060.06	3/4	3,771.45	3/4	3,476.22	3/4	3,130.93	3/4	2,768.99	3/4	2,406.82
9		9		9	4,586.06	9	4,322.12	9	4,054.25	9	3,765.30	9	3,470.07	9	3,123.39	9	2,761.44	9	2,399.27
1/4		1/4		1/4	4,578.64	1/4	4,316.79	1/4	4,048.43	1/4	3,759.14	1/4	3,463.92	1/4	3,115.85	1/4	2,753.90	1/4	2,391.73
1/2		1/2		1/2	4,571.22	1/2	4,311.46	1/2	4,042.61	1/2	3,752.99	1/2	3,457.77	1/2	3,108.31	1/2	2,746.35	1/2	2,384.18
3/4		3/4		3/4	4,563.80	3/4	4,306.13	3/4	4,036.79	3/4	3,746.84	3/4	3,451.62	3/4	3,100.78	3/4	2,738.81	3/4	2,376.64
10		10		10	4,557.68	10	4,300.72	10	4,030.94	10	3,740.69	10	3,445.47	10	3,093.24	10	2,731.26	10	2,369.09
1/4		1/4		1/4	4,551.57	1/4	4,295.32	1/4	4,025.08	1/4	3,734.54	1/4	3,439.32	1/4	3,085.70	1/4	2,723.72	1/4	2,361.55
1/2		1/2		1/2	4,545.45	1/2	4,289.91	1/2	4,019.23	1/2	3,728.39	1/2	3,433.17	1/2	3,078.16	1/2	2,716.17	1/2	2,354.00
3/4		3/4		3/4	4,539.34	3/4	4,284.51	3/4	4,013.37	3/4	3,722.24	3/4	3,427.02	3/4	3,070.62	3/4	2,708.63	3/4	2,346.46
11		11		11	4,533.23	11	4,279.07	11	4,007.48	11	3,716.09	11	3,420.87	11	3,063.09	11	2,701.08	11	2,338.91
1/4		1/4		1/4	4,527.11	1/4	4,273.62	1/4	4,001.59	1/4	3,709.94	1/4	3,414.72	1/4	3,055.55	1/4	2,693.54	1/4	2,331.37
1/2		1/2		1/2	4,521.00	1/2	4,268.18	1/2	3,995.69	1/2	3,703.79	1/2	3,408.57	1/2	3,048.01	1/2	2,685.99	1/2	2,323.82
3/4		3/4		3/4	4,514.88	3/4	4,262.74	3/4	3,989.80	3/4	3,697.64	3/4	3,402.42	3/4	3,040.47	3/4	2,678.45	3/4	2,316.28

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

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



BARGE "EMS 397"

3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-04 3/4"

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.	
0	2,308.73	0	1,947.00	0	1,585.56	0	1,223.55	0	861.73	0	512.67	0	151.30	0		0		0	
1/4	2,301.19	1/4	1,939.48	1/4	1,578.02	1/4	1,216.01	1/4	854.20	1/4	505.41	1/4	143.76	1/4	1/4		1/4	1/4	
1/2	2,293.64	1/2	1,931.96	1/2	1,570.48	1/2	1,208.47	1/2	846.66	1/2	498.14	1/2	136.21	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,286.10	3/4	1,924.43	3/4	1,562.94	3/4	1,200.93	3/4	839.13	3/4	490.88	3/4	128.66	3/4	3/4	3/4	3/4	3/4	3/4
1	2,278.55	1	1,916.91	1	1,555.40	1	1,193.38	1	831.88	1	483.33	1	121.12	1	1	1	1	1	1
1/4	2,271.01	1/4	1,909.39	1/4	1,547.85	1/4	1,185.84	1/4	824.62	1/4	475.79	1/4	113.57	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,263.46	1/2	1,901.87	1/2	1,540.31	1/2	1,178.30	1/2	817.37	1/2	468.24	1/2	106.03	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,255.92	3/4	1,894.34	3/4	1,532.77	3/4	1,170.76	3/4	810.11	3/4	460.69	3/4	98.48	3/4	3/4	3/4	3/4	3/4	3/4
2	2,248.37	2	1,886.82	2	1,525.23	2	1,163.22	2	802.86	2	453.15	2	90.93	2	2	2	2	2	2
1/4	2,240.83	1/4	1,879.30	1/4	1,517.69	1/4	1,155.67	1/4	795.60	1/4	445.60	1/4	83.39	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,233.28	1/2	1,871.78	1/2	1,510.14	1/2	1,148.13	1/2	788.35	1/2	438.05	1/2	75.84	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,225.74	3/4	1,864.26	3/4	1,502.60	3/4	1,140.59	3/4	781.10	3/4	430.51	3/4	68.30	3/4	3/4	3/4	3/4	3/4	3/4
3	2,218.19	3	1,856.73	3	1,495.06	3	1,133.05	3	773.83	3	422.96	3	61.02	3	3	3	3	3	3
1/4	2,210.64	1/4	1,849.21	1/4	1,487.52	1/4	1,125.51	1/4	766.57	1/4	415.42	1/4	53.74	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,203.10	1/2	1,841.69	1/2	1,479.98	1/2	1,117.96	1/2	759.30	1/2	407.87	1/2	46.47	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,195.55	3/4	1,834.17	3/4	1,472.43	3/4	1,110.42	3/4	752.04	3/4	400.32	3/4	39.19	3/4	3/4	3/4	3/4	3/4	3/4
4	2,188.01	4	1,826.65	4	1,464.89	4	1,102.88	4	744.78	4	392.78	4	33.80	4	4	4	4	4	4
1/4	2,180.46	1/4	1,819.12	1/4	1,457.35	1/4	1,095.34	1/4	737.53	1/4	385.23	1/4	28.41	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,172.92	1/2	1,811.60	1/2	1,449.81	1/2	1,087.80	1/2	730.27	1/2	377.69	1/2	23.02	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,165.37	3/4	1,804.08	3/4	1,442.27	3/4	1,080.26	3/4	723.02	3/4	370.14	3/4	17.63	3/4	3/4	3/4	3/4	3/4	3/4
5	2,157.83	5	1,796.56	5	1,434.72	5	1,072.71	5	715.76	5	362.59	5		5	5	5	5	5	5
1/4	2,150.28	1/4	1,789.04	1/4	1,427.18	1/4	1,065.17	1/4	708.51	1/4	355.05	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,142.74	1/2	1,781.51	1/2	1,419.64	1/2	1,057.63	1/2	701.26	1/2	347.50	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,135.19	3/4	1,773.99	3/4	1,412.10	3/4	1,050.09	3/4	694.00	3/4	339.96	3/4		3/4	3/4	3/4	3/4	3/4	3/4
6	2,127.65	6	1,766.47	6	1,404.56	6	1,042.55	6	686.75	6	332.41	6		6	6	6	6	6	6
1/4	2,120.10	1/4	1,758.95	1/4	1,397.02	1/4	1,035.00	1/4	679.49	1/4	324.86	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,112.56	1/2	1,751.42	1/2	1,389.47	1/2	1,027.46	1/2	672.24	1/2	317.32	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,105.01	3/4	1,743.90	3/4	1,381.93	3/4	1,019.92	3/4	664.98	3/4	309.77	3/4		3/4	3/4	3/4	3/4	3/4	3/4
7	2,097.48	7	1,736.37	7	1,374.39	7	1,012.39	7	657.73	7	302.22	7		7	7	7	7	7	7
1/4	2,089.94	1/4	1,728.84	1/4	1,366.85	1/4	1,004.85	1/4	650.48	1/4	294.68	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,082.41	1/2	1,721.31	1/2	1,359.31	1/2	997.32	1/2	643.23	1/2	287.13	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,074.88	3/4	1,713.78	3/4	1,351.76	3/4	989.79	3/4	635.98	3/4	279.59	3/4		3/4	3/4	3/4	3/4	3/4	3/4
8	2,067.35	8	1,706.23	8	1,344.22	8	982.26	8	628.73	8	272.04	8		8	8	8	8	8	8
1/4	2,059.83	1/4	1,698.69	1/4	1,336.68	1/4	974.72	1/4	621.49	1/4	264.49	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,052.31	1/2	1,691.15	1/2	1,329.14	1/2	967.19	1/2	614.24	1/2	256.95	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,044.79	3/4	1,683.61	3/4	1,321.60	3/4	959.66	3/4	606.99	3/4	249.40	3/4		3/4	3/4	3/4	3/4	3/4	3/4
9	2,037.26	9	1,676.07	9	1,314.05	9	952.12	9	599.73	9	241.86	9		9	9	9	9	9	9
1/4	2,029.74	1/4	1,668.52	1/4	1,306.51	1/4	944.59	1/4	592.48	1/4	234.31	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,022.22	1/2	1,660.98	1/2	1,298.97	1/2	937.06	1/2	585.22	1/2	226.76	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,014.70	3/4	1,653.44	3/4	1,291.43	3/4	929.53	3/4	577.97	3/4	219.22	3/4		3/4	3/4	3/4	3/4	3/4	3/4
10	2,007.18	10	1,645.90	10	1,283.89	10	921.99	10	570.71	10	211.67	10		10	10	10	10	10	10
1/4	1,999.65	1/4	1,638.36	1/4	1,276.34	1/4	914.46	1/4	563.46	1/4	204.13	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,992.13	1/2	1,630.81	1/2	1,268.80	1/2	906.93	1/2	556.20	1/2	196.58	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,984.61	3/4	1,623.27	3/4	1,261.26	3/4	899.39	3/4	548.95	3/4	189.03	3/4		3/4	3/4	3/4	3/4	3/4	3/4
11	1,977.09	11	1,615.73	11	1,253.72	11	891.86	11	541.70	11	181.49	11		11	11	11	11	11	11
1/4	1,969.57	1/4	1,608.19	1/4	1,246.18	1/4	884.33	1/4	534.44	1/4	173.94	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,962.04	1/2	1,600.65	1/2	1,238.64	1/2	876.80	1/2	527.19	1/2	166.40	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,954.52	3/4	1,593.10	3/4	1,231.09	3/4	869.26	3/4	519.93	3/4	158.85	3/4		3/4	3/4	3/4	3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 07/12/2016 SW
CALCULATED: 07/13/2016 CL
PRINTED: 07/13/2016 JS

CANCELS AND SUPERCEDES
ALL PRIOR TO 07/2016

PRECISION MEASUREMENT
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BARGE "EMS 397"

3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-04 1/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0		0		0	4,468.79	0	4,218.25	0	3,945.44	0	3,654.22	0	3,356.47	0	2,997.09	0	2,637.58
1/4		1/4		1/4		1/4	4,463.25	1/4	4,212.80	1/4	3,939.55	1/4	3,648.10	1/4	3,348.98	1/4	2,989.60	1/4	2,630.09
1/2		1/2		1/2		1/2	4,458.25	1/2	4,207.31	1/2	3,933.61	1/2	3,641.98	1/2	3,341.48	1/2	2,982.12	1/2	2,622.60
3/4		3/4		3/4		3/4	4,453.25	3/4	4,201.82	3/4	3,927.68	3/4	3,635.86	3/4	3,333.99	3/4	2,974.63	3/4	2,615.11
1		1		1		1	4,448.24	1	4,196.33	1	3,921.74	1	3,629.75	1	3,326.50	1	2,967.15	1	2,607.61
1/4		1/4		1/4		1/4	4,443.24	1/4	4,190.85	1/4	3,915.80	1/4	3,623.63	1/4	3,319.01	1/4	2,959.66	1/4	2,600.12
1/2		1/2		1/2		1/2	4,438.20	1/2	4,185.32	1/2	3,909.83	1/2	3,617.51	1/2	3,311.52	1/2	2,952.18	1/2	2,592.63
3/4		3/4		3/4		3/4	4,433.16	3/4	4,179.80	3/4	3,903.86	3/4	3,611.39	3/4	3,304.03	3/4	2,944.69	3/4	2,585.14
2		2		2		2	4,428.12	2	4,174.27	2	3,897.89	2	3,605.28	2	3,296.54	2	2,937.21	2	2,577.65
1/4		1/4		1/4		1/4	4,423.08	1/4	4,168.75	1/4	3,891.91	1/4	3,599.16	1/4	3,289.04	1/4	2,929.72	1/4	2,570.15
1/2		1/2		1/2		1/2	4,418.00	1/2	4,163.19	1/2	3,885.90	1/2	3,593.04	1/2	3,281.55	1/2	2,922.24	1/2	2,562.66
3/4		3/4		3/4		3/4	4,412.92	3/4	4,157.62	3/4	3,879.89	3/4	3,586.93	3/4	3,274.06	3/4	2,914.75	3/4	2,555.17
3		3		3		3	4,407.84	3	4,152.06	3	3,873.88	3	3,580.81	3	3,266.57	3	2,907.27	3	2,547.68
1/4		1/4		1/4		1/4	4,402.76	1/4	4,146.50	1/4	3,867.87	1/4	3,574.69	1/4	3,259.08	1/4	2,899.78	1/4	2,540.18
1/2		1/2		1/2		1/2	4,397.65	1/2	4,140.90	1/2	3,861.83	1/2	3,568.57	1/2	3,251.59	1/2	2,892.30	1/2	2,532.70
3/4		3/4		3/4		3/4	4,392.53	3/4	4,135.30	3/4	3,855.78	3/4	3,562.46	3/4	3,244.10	3/4	2,884.81	3/4	2,525.22
4		4		4		4	4,387.42	4	4,129.70	4	3,849.73	4	3,556.34	4	3,236.60	4	2,877.33	4	2,517.73
1/4		1/4		1/4		1/4	4,382.30	1/4	4,124.10	1/4	3,843.69	1/4	3,550.22	1/4	3,229.11	1/4	2,869.84	1/4	2,510.25
1/2		1/2		1/2		1/2	4,377.15	1/2	4,118.46	1/2	3,837.60	1/2	3,544.11	1/2	3,221.63	1/2	2,862.35	1/2	2,502.77
3/4		3/4		3/4		3/4	4,371.99	3/4	4,112.83	3/4	3,831.52	3/4	3,537.99	3/4	3,214.15	3/4	2,854.86	3/4	2,495.29
5		5		5		5	4,366.84	5	4,107.19	5	3,825.43	5	3,531.87	5	3,206.66	5	2,847.36	5	2,487.80
1/4		1/4		1/4		1/4	4,361.69	1/4	4,101.55	1/4	3,819.35	1/4	3,525.75	1/4	3,199.18	1/4	2,839.87	1/4	2,480.32
1/2		1/2		1/2		1/2	4,356.50	1/2	4,095.88	1/2	3,813.24	1/2	3,519.64	1/2	3,191.69	1/2	2,832.38	1/2	2,472.84
3/4		3/4		3/4		3/4	4,351.31	3/4	4,090.21	3/4	3,807.13	3/4	3,513.52	3/4	3,184.21	3/4	2,824.89	3/4	2,465.35
6		6		6		6	4,346.12	6	4,084.53	6	3,801.02	6	3,507.40	6	3,176.73	6	2,817.40	6	2,457.87
1/4		1/4		1/4		1/4	4,340.93	1/4	4,078.86	1/4	3,794.91	1/4	3,501.29	1/4	3,169.24	1/4	2,809.90	1/4	2,450.39
1/2		1/2		1/2		1/2	4,606.34	1/2	4,335.70	1/2	4,073.15	1/2	3,788.79	1/2	3,495.17	1/2	3,161.76	1/2	2,802.41
3/4		3/4		3/4		3/4	4,601.01	3/4	4,330.47	3/4	4,067.43	3/4	3,782.68	3/4	3,489.05	3/4	3,154.27	3/4	2,794.92
7		7		7		7	4,595.67	7	4,325.25	7	4,061.72	7	3,776.56	7	3,482.93	7	3,146.79	7	2,787.43
1/4		1/4		1/4		1/4	4,590.34	1/4	4,320.02	1/4	4,056.01	1/4	3,770.44	1/4	3,476.82	1/4	3,139.30	1/4	2,779.93
1/2		1/2		1/2		1/2	4,583.64	1/2	4,314.75	1/2	4,050.26	1/2	3,764.33	1/2	3,470.70	1/2	3,131.82	1/2	2,772.44
3/4		3/4		3/4		3/4	4,576.95	3/4	4,309.49	3/4	4,044.51	3/4	3,758.21	3/4	3,464.58	3/4	3,124.33	3/4	2,764.95
8		8		8		8	4,570.25	8	4,304.22	8	4,038.77	8	3,752.09	8	3,458.46	8	3,116.85	8	2,757.46
1/4		1/4		1/4		1/4	4,563.55	1/4	4,298.96	1/4	4,033.02	1/4	3,745.97	1/4	3,452.35	1/4	3,109.36	1/4	2,749.97
1/2		1/2		1/2		1/2	4,556.17	1/2	4,293.66	1/2	4,027.23	1/2	3,739.86	1/2	3,446.23	1/2	3,101.88	1/2	2,742.47
3/4		3/4		3/4		3/4	4,548.79	3/4	4,288.36	3/4	4,021.45	3/4	3,733.74	3/4	3,440.11	3/4	3,094.39	3/4	2,734.98
9		9		9		9	4,541.41	9	4,283.05	9	4,015.66	9	3,727.62	9	3,434.00	9	3,086.91	9	2,727.49
1/4		1/4		1/4		1/4	4,534.03	1/4	4,277.75	1/4	4,009.87	1/4	3,721.50	1/4	3,427.88	1/4	3,079.42	1/4	2,720.00
1/2		1/2		1/2		1/2	4,527.95	1/2	4,272.38	1/2	4,004.05	1/2	3,715.39	1/2	3,421.76	1/2	3,071.94	1/2	2,712.51
3/4		3/4		3/4		3/4	4,521.87	3/4	4,267.00	3/4	3,998.23	3/4	3,709.27	3/4	3,415.64	3/4	3,064.45	3/4	2,705.01
10		10		10		10	4,515.79	10	4,261.63	10	3,992.40	10	3,703.15	10	3,409.53	10	3,056.97	10	2,697.52
1/4		1/4		1/4		1/4	4,509.71	1/4	4,256.25	1/4	3,986.58	1/4	3,697.04	1/4	3,403.41	1/4	3,049.48	1/4	2,690.03
1/2		1/2		1/2		1/2	4,503.63	1/2	4,250.84	1/2	3,980.72	1/2	3,690.92	1/2	3,397.29	1/2	3,042.00	1/2	2,682.54
3/4		3/4		3/4		3/4	4,497.55	3/4	4,245.42	3/4	3,974.86	3/4	3,684.80	3/4	3,391.18	3/4	3,034.51	3/4	2,675.04
11		11		11		11	4,491.47	11	4,240.01	11	3,969.00	11	3,678.68	11	3,385.06	11	3,027.03	11	2,667.55
1/4		1/4		1/4		1/4	4,485.38	1/4	4,234.60	1/4	3,963.14	1/4	3,672.57	1/4	3,378.94	1/4	3,019.54	1/4	2,660.06
1/2		1/2		1/2		1/2	4,479.85	1/2	4,229.15	1/2	3,957.24	1/2	3,666.45	1/2	3,371.45	1/2	3,012.06	1/2	2,652.57
3/4		3/4		3/4		3/4	4,474.32	3/4	4,223.70	3/4	3,951.34	3/4	3,660.33	3/4	3,363.96	3/4	3,004.57	3/4	2,645.08

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

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



BARGE "EMS 397"

3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-04 1/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,278.24	0	1,920.16	0	1,562.60	0	1,203.06	0	843.52	0	494.75	0	135.31	0		0		0	
1/4	2,270.75	1/4	1,912.74	1/4	1,555.11	1/4	1,195.57	1/4	836.03	1/4	487.48	1/4	127.82	1/4	1/4	1/4		1/4	1/4
1/2	2,263.25	1/2	1,905.32	1/2	1,547.62	1/2	1,188.08	1/2	828.76	1/2	479.99	1/2	120.32	1/2	1/2	1/2		1/2	1/2
3/4	2,255.76	3/4	1,897.90	3/4	1,540.13	3/4	1,180.59	3/4	821.49	3/4	472.50	3/4	112.83	3/4	3/4	3/4		3/4	3/4
1	2,248.27	1	1,890.49	1	1,532.64	1	1,173.10	1	814.22	1	465.01	1	105.34	1	1	1		1	1
1/4	2,240.77	1/4	1,883.07	1/4	1,525.15	1/4	1,165.61	1/4	806.95	1/4	457.51	1/4	97.84	1/4	1/4	1/4		1/4	1/4
1/2	2,233.28	1/2	1,875.65	1/2	1,517.66	1/2	1,158.12	1/2	799.68	1/2	450.02	1/2	90.35	1/2	1/2	1/2		1/2	1/2
3/4	2,225.79	3/4	1,868.24	3/4	1,510.17	3/4	1,150.63	3/4	792.42	3/4	442.53	3/4	82.86	3/4	3/4	3/4		3/4	3/4
2	2,218.29	2	1,860.82	2	1,502.68	2	1,143.14	2	785.15	2	435.03	2	75.36	2	2	2		2	2
1/4	2,210.80	1/4	1,853.40	1/4	1,495.19	1/4	1,135.65	1/4	777.88	1/4	427.54	1/4	67.87	1/4	1/4	1/4		1/4	1/4
1/2	2,203.30	1/2	1,845.99	1/2	1,487.70	1/2	1,128.16	1/2	770.61	1/2	420.05	1/2	60.65	1/2	1/2	1/2		1/2	1/2
3/4	2,195.81	3/4	1,838.57	3/4	1,480.21	3/4	1,120.67	3/4	763.34	3/4	412.55	3/4	53.42	3/4	3/4	3/4		3/4	3/4
3	2,188.32	3	1,831.15	3	1,472.71	3	1,113.18	3	756.07	3	405.06	3	46.20	3	3	3		3	3
1/4	2,180.82	1/4	1,823.74	1/4	1,465.22	1/4	1,105.69	1/4	748.80	1/4	397.57	1/4	38.97	1/4	1/4	1/4		1/4	1/4
1/2	2,173.33	1/2	1,816.32	1/2	1,457.73	1/2	1,098.19	1/2	741.54	1/2	390.07	1/2	33.61	1/2	1/2	1/2		1/2	1/2
3/4	2,165.84	3/4	1,808.90	3/4	1,450.24	3/4	1,090.70	3/4	734.28	3/4	382.58	3/4	28.25	3/4	3/4	3/4		3/4	3/4
4	2,158.34	4	1,801.48	4	1,442.75	4	1,083.21	4	727.02	4	375.09	4	22.89	4	4	4		4	4
1/4	2,150.85	1/4	1,794.07	1/4	1,435.26	1/4	1,075.72	1/4	719.77	1/4	367.59	1/4	17.53	1/4	1/4	1/4		1/4	1/4
1/2	2,143.35	1/2	1,786.65	1/2	1,427.77	1/2	1,068.23	1/2	712.51	1/2	360.10	1/2		1/2	1/2	1/2		1/2	1/2
3/4	2,135.86	3/4	1,779.23	3/4	1,420.28	3/4	1,060.74	3/4	705.25	3/4	352.61	3/4		3/4	3/4	3/4		3/4	3/4
5	2,128.37	5	1,771.82	5	1,412.79	5	1,053.25	5	697.99	5	345.12	5		5	5	5		5	5
1/4	2,120.87	1/4	1,764.40	1/4	1,405.30	1/4	1,045.76	1/4	690.73	1/4	337.62	1/4		1/4	1/4	1/4		1/4	1/4
1/2	2,113.38	1/2	1,756.98	1/2	1,397.81	1/2	1,038.27	1/2	683.47	1/2	330.13	1/2		1/2	1/2	1/2		1/2	1/2
3/4	2,105.89	3/4	1,749.57	3/4	1,390.32	3/4	1,030.78	3/4	676.21	3/4	322.64	3/4		3/4	3/4	3/4		3/4	3/4
6	2,098.39	6	1,742.15	6	1,382.83	6	1,023.29	6	668.95	6	315.14	6		6	6	6		6	6
1/4	2,090.90	1/4	1,734.73	1/4	1,375.34	1/4	1,015.80	1/4	661.69	1/4	307.65	1/4		1/4	1/4	1/4		1/4	1/4
1/2	2,083.44	1/2	1,727.28	1/2	1,367.85	1/2	1,008.31	1/2	654.44	1/2	300.16	1/2		1/2	1/2	1/2		1/2	1/2
3/4	2,075.99	3/4	1,719.82	3/4	1,360.36	3/4	1,000.82	3/4	647.19	3/4	292.66	3/4		3/4	3/4	3/4		3/4	3/4
7	2,068.53	7	1,712.37	7	1,352.87	7	993.33	7	639.93	7	285.17	7		7	7	7		7	7
1/4	2,061.08	1/4	1,704.92	1/4	1,345.38	1/4	985.84	1/4	632.68	1/4	277.68	1/4		1/4	1/4	1/4		1/4	1/4
1/2	2,053.66	1/2	1,697.43	1/2	1,337.89	1/2	978.35	1/2	625.42	1/2	270.18	1/2		1/2	1/2	1/2		1/2	1/2
3/4	2,046.24	3/4	1,689.94	3/4	1,330.40	3/4	970.86	3/4	618.17	3/4	262.69	3/4		3/4	3/4	3/4		3/4	3/4
8	2,038.83	8	1,682.45	8	1,322.91	8	963.37	8	610.92	8	255.20	8		8	8	8		8	8
1/4	2,031.41	1/4	1,674.96	1/4	1,315.42	1/4	955.88	1/4	603.66	1/4	247.71	1/4		1/4	1/4	1/4		1/4	1/4
1/2	2,023.99	1/2	1,667.47	1/2	1,307.93	1/2	948.39	1/2	596.40	1/2	240.21	1/2		1/2	1/2	1/2		1/2	1/2
3/4	2,016.57	3/4	1,659.97	3/4	1,300.44	3/4	940.90	3/4	589.14	3/4	232.72	3/4		3/4	3/4	3/4		3/4	3/4
9	2,009.16	9	1,652.48	9	1,292.95	9	933.41	9	581.88	9	225.23	9		9	9	9		9	9
1/4	2,001.74	1/4	1,644.99	1/4	1,285.45	1/4	925.92	1/4	574.63	1/4	217.73	1/4		1/4	1/4	1/4		1/4	1/4
1/2	1,994.32	1/2	1,637.50	1/2	1,277.96	1/2	918.43	1/2	567.37	1/2	210.24	1/2		1/2	1/2	1/2		1/2	1/2
3/4	1,986.91	3/4	1,630.01	3/4	1,270.47	3/4	910.93	3/4	560.11	3/4	202.75	3/4		3/4	3/4	3/4		3/4	3/4
10	1,979.49	10	1,622.52	10	1,262.98	10	903.44	10	552.85	10	195.25	10		10	10	10		10	10
1/4	1,972.07	1/4	1,615.03	1/4	1,255.49	1/4	895.95	1/4	545.59	1/4	187.76	1/4		1/4	1/4	1/4		1/4	1/4
1/2	1,964.66	1/2	1,607.54	1/2	1,248.00	1/2	888.46	1/2	538.33	1/2	180.27	1/2		1/2	1/2	1/2		1/2	1/2
3/4	1,957.24	3/4	1,600.05	3/4	1,240.51	3/4	880.97	3/4	531.07	3/4	172.77	3/4		3/4	3/4	3/4		3/4	3/4
11	1,949.82	11	1,592.56	11	1,233.02	11	873.48	11	523.81	11	165.28	11		11	11	11		11	11
1/4	1,942.41	1/4	1,585.07	1/4	1,225.53	1/4	865.99	1/4	516.56	1/4	157.79	1/4		1/4	1/4	1/4		1/4	1/4
1/2	1,934.99	1/2	1,577.58	1/2	1,218.04	1/2	858.50	1/2	509.29	1/2	150.30	1/2		1/2	1/2	1/2		1/2	1/2
3/4	1,927.57	3/4	1,570.09	3/4	1,210.55	3/4	851.01	3/4	502.02	3/4	142.80	3/4		3/4	3/4	3/4		3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 07/12/2016 SW
CALCULATED: 07/13/2016 CL
PRINTED: 07/13/2016 JS

CANCELS AND SUPERCEDES
ALL PRIOR TO 07/2016

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