



BARGE "CTCO 254"

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	- 00-1/8	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
1 STBD	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/4	00-1/4	- 00-3/8	00-3/8	- 00-1/2	00-1/2	- 00-1/2	00-1/2
2 PORT	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/4	00-1/4	- 00-1/4	00-1/4	- 00-3/8	00-3/8	- 00-1/2	00-1/2
2 STBD	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/4	00-1/4	- 00-1/4	00-1/4	- 00-3/8	00-3/8	- 00-1/2	00-1/2
3 PORT	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/4	00-1/4	- 00-1/4	00-1/4	- 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	- 00-1/4	00-1/4	- 00-1/2	00-1/2	- 00-1/2	00-1/2

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

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

THE CORRECTION FOR 2'-00" TRIM DOWN BY STERN FOR 1 PORT IS 00-1/8"
 FOR A MEASURED ULLAGE GAUGE OF 4'-00" ON 1 PORT, THE TRIM CORRECTED ULLAGE IS 4'-00 1/8"

LENGTH BETWEEN DRAFT MARKS: 252'-09"

July 31, 2013

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092
Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "CTCO 254"

1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-08 3/4"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.			
IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0
1/4		1/4	5,146.53	1/4	4,860.39	1/4	4,552.59	1/4	4,227.62	1/4	3,895.61	1/4	3,563.61	1/4	3,231.60	1/4	2,899.59	1/4	2,567.56		
1/2		1/2	5,141.65	1/2	4,854.16	1/2	4,545.98	1/2	4,220.70	1/2	3,888.70	1/2	3,556.69	1/2	3,224.68	1/2	2,892.68	1/2	2,560.63		
3/4		3/4	5,136.76	3/4	4,847.92	3/4	4,539.38	3/4	4,213.79	3/4	3,881.78	3/4	3,549.77	3/4	3,217.77	3/4	2,885.76	3/4	2,553.71		
1	1	1	5,131.40	1	4,841.66	1	4,532.74	1	4,206.87	1	3,874.86	1	3,542.86	1	3,210.85	1	2,878.84	1	2,546.79		
1/4		1/4	5,126.05	1/4	4,835.40	1/4	4,526.11	1/4	4,199.95	1/4	3,867.95	1/4	3,535.94	1/4	3,203.93	1/4	2,871.93	1/4	2,539.87		
1/2		1/2	5,120.69	1/2	4,829.14	1/2	4,519.48	1/2	4,193.04	1/2	3,861.03	1/2	3,529.02	1/2	3,197.02	1/2	2,865.01	1/2	2,532.95		
3/4		3/4	5,115.33	3/4	4,822.87	3/4	4,512.84	3/4	4,186.12	3/4	3,854.11	3/4	3,522.11	3/4	3,190.10	3/4	2,858.09	3/4	2,526.03		
2	2	2	5,109.43	2	4,816.58	2	4,506.18	2	4,179.20	2	3,847.20	2	3,515.19	2	3,183.18	2	2,851.18	2	2,519.11		
1/4		1/4	5,103.52	1/4	4,810.29	1/4	4,499.52	1/4	4,172.28	1/4	3,840.28	1/4	3,508.27	1/4	3,176.27	1/4	2,844.26	1/4	2,512.18		
1/2		1/2	5,097.62	1/2	4,804.00	1/2	4,492.86	1/2	4,165.37	1/2	3,833.36	1/2	3,501.36	1/2	3,169.35	1/2	2,837.34	1/2	2,505.26		
3/4		3/4	5,091.71	3/4	4,797.72	3/4	4,486.20	3/4	4,158.45	3/4	3,826.44	3/4	3,494.44	3/4	3,162.43	3/4	2,830.43	3/4	2,498.34		
3	3	3	5,085.78	3	4,791.40	3	4,479.51	3	4,151.53	3	3,819.53	3	3,487.52	3	3,155.52	3	2,823.51	3	2,491.42		
1/4		1/4	5,079.85	1/4	4,785.08	1/4	4,472.82	1/4	4,144.62	1/4	3,812.61	1/4	3,480.60	1/4	3,148.60	1/4	2,816.59	1/4	2,484.50		
1/2		1/2	5,073.92	1/2	4,778.76	1/2	4,466.13	1/2	4,137.70	1/2	3,805.69	1/2	3,473.69	1/2	3,141.68	1/2	2,809.68	1/2	2,477.58		
3/4		3/4	5,067.99	3/4	4,772.45	3/4	4,459.44	3/4	4,130.78	3/4	3,798.78	3/4	3,466.77	3/4	3,134.76	3/4	2,802.76	3/4	2,470.66		
4	4	4	5,062.03	4	4,766.10	4	4,452.73	4	4,123.87	4	3,791.86	4	3,459.85	4	3,127.85	4	2,795.84	4	2,463.73		
1/4		1/4	5,056.07	1/4	4,759.76	1/4	4,446.01	1/4	4,116.95	1/4	3,784.94	1/4	3,452.94	1/4	3,120.93	1/4	2,788.92	1/4	2,456.81		
1/2		1/2	5,050.12	1/2	4,753.41	1/2	4,439.30	1/2	4,110.03	1/2	3,778.03	1/2	3,446.02	1/2	3,114.01	1/2	2,782.01	1/2	2,449.89		
3/4		3/4	5,044.16	3/4	4,747.07	3/4	4,432.58	3/4	4,103.12	3/4	3,771.11	3/4	3,439.10	3/4	3,107.10	3/4	2,775.09	3/4	2,442.97		
5	5	5	5,038.16	5	4,740.69	5	4,425.83	5	4,096.20	5	3,764.19	5	3,432.19	5	3,100.18	5	2,768.17	5	2,436.05		
1/4		1/4	5,032.16	1/4	4,734.32	1/4	4,419.09	1/4	4,089.28	1/4	3,757.28	1/4	3,425.27	1/4	3,093.26	1/4	2,761.26	1/4	2,429.13		
1/2		1/2	5,026.16	1/2	4,727.95	1/2	4,412.35	1/2	4,082.37	1/2	3,750.36	1/2	3,418.35	1/2	3,086.35	1/2	2,754.34	1/2	2,422.21		
3/4		3/4	5,020.16	3/4	4,721.58	3/4	4,405.60	3/4	4,075.45	3/4	3,743.44	3/4	3,411.44	3/4	3,079.43	3/4	2,747.42	3/4	2,415.28		
6	6	6	5,014.09	6	4,715.18	6	4,398.83	6	4,068.53	6	3,736.53	6	3,404.52	6	3,072.51	6	2,740.51	6	2,408.36		
1/4		1/4	5,008.02	1/4	4,708.78	1/4	4,392.06	1/4	4,061.62	1/4	3,729.61	1/4	3,397.60	1/4	3,065.60	1/4	2,733.59	1/4	2,401.44		
1/2		1/2	5,001.96	1/2	4,702.37	1/2	4,385.29	1/2	4,054.70	1/2	3,722.69	1/2	3,390.69	1/2	3,058.68	1/2	2,726.67	1/2	2,394.52		
3/4		3/4	4,995.89	3/4	4,695.97	3/4	4,378.52	3/4	4,047.78	3/4	3,715.78	3/4	3,383.77	3/4	3,051.76	3/4	2,719.76	3/4	2,387.60		
7	7	7	4,989.79	7	4,689.55	7	4,371.72	7	4,040.87	7	3,708.86	7	3,376.85	7	3,044.85	7	2,712.84	7	2,380.68		
1/4		1/4	4,983.70	1/4	4,683.12	1/4	4,364.92	1/4	4,033.95	1/4	3,701.94	1/4	3,369.94	1/4	3,037.93	1/4	2,705.92	1/4	2,373.76		
1/2		1/2	4,977.60	1/2	4,676.69	1/2	4,358.12	1/2	4,027.03	1/2	3,695.03	1/2	3,363.02	1/2	3,031.01	1/2	2,699.01	1/2	2,366.83		
3/4		3/4	4,971.50	3/4	4,670.26	3/4	4,351.32	3/4	4,020.12	3/4	3,688.11	3/4	3,356.10	3/4	3,024.10	3/4	2,692.09	3/4	2,359.91		
8	8	8	4,965.38	8	4,663.80	8	4,344.49	8	4,013.20	8	3,681.19	8	3,349.19	8	3,017.18	8	2,685.17	8	2,352.99		
1/4		1/4	4,959.26	1/4	4,657.33	1/4	4,337.67	1/4	4,006.28	1/4	3,674.28	1/4	3,342.27	1/4	3,010.26	1/4	2,678.26	1/4	2,346.07		
1/2		1/2	4,953.13	1/2	4,650.87	1/2	4,330.84	1/2	3,999.36	1/2	3,667.36	1/2	3,335.35	1/2	3,003.35	1/2	2,671.34	1/2	2,339.15		
3/4		3/4	4,947.01	3/4	4,644.40	3/4	4,324.01	3/4	3,992.45	3/4	3,660.44	3/4	3,328.44	3/4	2,996.43	3/4	2,664.42	3/4	2,332.23		
9	9	9	4,940.86	9	4,637.88	9	4,317.16	9	3,985.53	9	3,653.52	9	3,321.52	9	2,989.51	9	2,657.51	9	2,325.31		
1/4		1/4	4,934.71	1/4	4,631.36	1/4	4,310.30	1/4	3,978.61	1/4	3,646.61	1/4	3,314.60	1/4	2,982.60	1/4	2,650.59	1/4	2,318.39		
1/2		1/2	4,928.55	1/2	4,624.83	1/2	4,303.45	1/2	3,971.70	1/2	3,639.69	1/2	3,307.68	1/2	2,975.68	1/2	2,643.67	1/2	2,311.46		
3/4		3/4	4,922.40	3/4	4,618.31	3/4	4,296.59	3/4	3,964.78	3/4	3,632.77	3/4	3,300.77	3/4	2,968.76	3/4	2,636.76	3/4	2,304.54		
10	10	10	4,916.22	10	4,611.76	10	4,289.71	10	3,957.86	10	3,625.86	10	3,293.85	10	2,961.84	10	2,629.84	10	2,297.62		
1/4		1/4	4,910.04	1/4	4,605.21	1/4	4,282.83	1/4	3,950.95	1/4	3,618.94	1/4	3,286.93	1/4	2,954.93	1/4	2,622.92	1/4	2,290.70		
1/2		1/2	4,903.87	1/2	4,598.66	1/2	4,275.95	1/2	3,944.03	1/2	3,612.02	1/2	3,280.02	1/2	2,948.01	1/2	2,616.00	1/2	2,283.78		
3/4		3/4	4,897.69	3/4	4,592.11	3/4	4,269.07	3/4	3,937.11	3/4	3,605.11	3/4	3,273.10	3/4	2,941.09	3/4	2,609.08	3/4	2,276.86		
11	11	11	4,891.48	11	4,585.53	11	4,262.16	11	3,930.20	11	3,598.19	11	3,266.18	11	2,934.18	11	2,602.16	11	2,269.94		
1/4		1/4	4,885.27	1/4	4,578.95	1/4	4,255.26	1/4	3,923.28	1/4	3,591.27	1/4	3,259.27	1/4	2,927.26	1/4	2,595.24	1/4	2,263.01		
1/2		1/2	4,879.07	1/2	4,572.38	1/2	4,248.36	1/2	3,916.36	1/2	3,584.36	1/2	3,252.35	1/2	2,920.34	1/2	2,588.32	1/2	2,256.09		
3/4		3/4	4,872.86	3/4	4,565.80	3/4	4,241.45	3/4	3,909.45	3/4	3,577.44	3/4	3,245.43	3/4	2,913.43	3/4	2,581.40	3/4	2,249.17		

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 TO TOP OF 2" HERMETIC CLOSED GAUGING VALVE.

GAUGE POINT: (HERMETIC) LOCATED 10'-06" OFF CENTERLINE AND 41'-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 "CTCO 254"

1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-08 3/4"

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.	
0	2,242.25	0	1,910.02	0	1,577.80	0	1,245.57	0	913.56	0	581.60	0	249.42	0		0		0	
1/4	2,235.33	1/4	1,903.10	1/4	1,570.87	1/4	1,238.65	1/4	906.65	1/4	574.68	1/4	242.49	1/4	1/4	1/4		1/4	
1/2	2,228.41	1/2	1,896.18	1/2	1,563.95	1/2	1,231.73	1/2	899.74	1/2	567.76	1/2	235.57	1/2	1/2	1/2		1/2	
3/4	2,221.49	3/4	1,889.26	3/4	1,557.03	3/4	1,224.80	3/4	892.83	3/4	560.84	3/4	228.65	3/4	3/4	3/4		3/4	
1	2,214.56	1	1,882.34	1	1,550.11	1	1,217.88	1	885.92	1	553.92	1	221.73	1	1	1		1	
1/4	2,207.64	1/4	1,875.42	1/4	1,543.19	1/4	1,210.96	1/4	879.01	1/4	546.99	1/4	214.81	1/4	1/4	1/4		1/4	
1/2	2,200.72	1/2	1,868.49	1/2	1,536.27	1/2	1,204.04	1/2	872.10	1/2	540.07	1/2	207.89	1/2	1/2	1/2		1/2	
3/4	2,193.80	3/4	1,861.57	3/4	1,529.35	3/4	1,197.12	3/4	865.19	3/4	533.15	3/4	200.97	3/4	3/4	3/4		3/4	
2	2,186.88	2	1,854.65	2	1,522.42	2	1,190.20	2	858.28	2	526.23	2	194.05	2	2	2		2	
1/4	2,179.96	1/4	1,847.73	1/4	1,515.50	1/4	1,183.28	1/4	851.37	1/4	519.31	1/4	187.13	1/4	1/4	1/4		1/4	
1/2	2,173.04	1/2	1,840.81	1/2	1,508.58	1/2	1,176.35	1/2	844.46	1/2	512.39	1/2	180.20	1/2	1/2	1/2		1/2	
3/4	2,166.11	3/4	1,833.89	3/4	1,501.66	3/4	1,169.43	3/4	837.55	3/4	505.47	3/4	173.28	3/4	3/4	3/4		3/4	
3	2,159.19	3	1,826.97	3	1,494.74	3	1,162.51	3	830.64	3	498.55	3	166.36	3	3	3		3	
1/4	2,152.27	1/4	1,820.04	1/4	1,487.82	1/4	1,155.59	1/4	823.73	1/4	491.63	1/4	159.44	1/4	1/4	1/4		1/4	
1/2	2,145.35	1/2	1,813.12	1/2	1,480.90	1/2	1,148.67	1/2	816.82	1/2	484.71	1/2	152.52	1/2	1/2	1/2		1/2	
3/4	2,138.43	3/4	1,806.20	3/4	1,473.97	3/4	1,141.75	3/4	809.92	3/4	477.78	3/4	145.60	3/4	3/4	3/4		3/4	
4	2,131.51	4	1,799.28	4	1,467.05	4	1,134.83	4	803.01	4	470.86	4	138.68	4	4	4		4	
1/4	2,124.59	1/4	1,792.36	1/4	1,460.13	1/4	1,127.90	1/4	796.10	1/4	463.94	1/4	131.77	1/4	1/4	1/4		1/4	
1/2	2,117.66	1/2	1,785.44	1/2	1,453.21	1/2	1,120.98	1/2	789.19	1/2	457.02	1/2	124.85	1/2	1/2	1/2		1/2	
3/4	2,110.74	3/4	1,778.52	3/4	1,446.29	3/4	1,114.06	3/4	782.28	3/4	450.10	3/4	117.93	3/4	3/4	3/4		3/4	
5	2,103.82	5	1,771.59	5	1,439.37	5	1,107.14	5	775.37	5	443.18	5	111.03	5	5	5		5	
1/4	2,096.90	1/4	1,764.67	1/4	1,432.45	1/4	1,100.22	1/4	768.45	1/4	436.26	1/4	104.12	1/4	1/4	1/4		1/4	
1/2	2,089.98	1/2	1,757.75	1/2	1,425.52	1/2	1,093.30	1/2	761.54	1/2	429.34	1/2	97.22	1/2	1/2	1/2		1/2	
3/4	2,083.06	3/4	1,750.83	3/4	1,418.60	3/4	1,086.38	3/4	754.63	3/4	422.42	3/4	90.31	3/4	3/4	3/4		3/4	
6	2,076.14	6	1,743.91	6	1,411.68	6	1,079.45	6	747.71	6	415.49	6	83.59	6	6	6		6	
1/4	2,069.21	1/4	1,736.99	1/4	1,404.76	1/4	1,072.53	1/4	740.79	1/4	408.57	1/4	76.87	1/4	1/4	1/4		1/4	
1/2	2,062.29	1/2	1,730.07	1/2	1,397.84	1/2	1,065.61	1/2	733.86	1/2	401.65	1/2	70.15	1/2	1/2	1/2		1/2	
3/4	2,055.37	3/4	1,723.14	3/4	1,390.92	3/4	1,058.69	3/4	726.94	3/4	394.73	3/4	63.43	3/4	3/4	3/4		3/4	
7	2,048.45	7	1,716.22	7	1,384.00	7	1,051.77	7	720.02	7	387.81	7	57.55	7	7	7		7	
1/4	2,041.53	1/4	1,709.30	1/4	1,377.07	1/4	1,044.85	1/4	713.10	1/4	380.89	1/4	51.67	1/4	1/4	1/4		1/4	
1/2	2,034.61	1/2	1,702.38	1/2	1,370.15	1/2	1,037.93	1/2	706.18	1/2	373.97	1/2	45.79	1/2	1/2	1/2		1/2	
3/4	2,027.69	3/4	1,695.46	3/4	1,363.23	3/4	1,031.02	3/4	699.26	3/4	367.05	3/4	39.91	3/4	3/4	3/4		3/4	
8	2,020.76	8	1,688.54	8	1,356.31	8	1,024.11	8	692.34	8	360.13	8	35.41	8	8	8		8	
1/4	2,013.84	1/4	1,681.62	1/4	1,349.39	1/4	1,017.20	1/4	685.42	1/4	353.21	1/4	30.91	1/4	1/4	1/4		1/4	
1/2	2,006.92	1/2	1,674.69	1/2	1,342.47	1/2	1,010.29	1/2	678.50	1/2	346.30	1/2	26.41	1/2	1/2	1/2		1/2	
3/4	2,000.00	3/4	1,667.77	3/4	1,335.55	3/4	1,003.38	3/4	671.57	3/4	339.38	3/4	21.91	3/4	3/4	3/4		3/4	
9	1,993.08	9	1,660.85	9	1,328.62	9	996.47	9	664.65	9	332.46	9		9	9	9		9	
1/4	1,986.16	1/4	1,653.93	1/4	1,321.70	1/4	989.56	1/4	657.73	1/4	325.54	1/4		1/4	1/4	1/4		1/4	
1/2	1,979.24	1/2	1,647.01	1/2	1,314.78	1/2	982.65	1/2	650.81	1/2	318.62	1/2		1/2	1/2	1/2		1/2	
3/4	1,972.32	3/4	1,640.09	3/4	1,307.86	3/4	975.74	3/4	643.89	3/4	311.71	3/4		3/4	3/4	3/4		3/4	
10	1,965.39	10	1,633.17	10	1,300.94	10	968.83	10	636.97	10	304.78	10		10	10	10		10	
1/4	1,958.47	1/4	1,626.25	1/4	1,294.02	1/4	961.92	1/4	630.05	1/4	297.86	1/4		1/4	1/4	1/4		1/4	
1/2	1,951.55	1/2	1,619.32	1/2	1,287.10	1/2	955.01	1/2	623.13	1/2	290.94	1/2		1/2	1/2	1/2		1/2	
3/4	1,944.63	3/4	1,612.40	3/4	1,280.18	3/4	948.10	3/4	616.21	3/4	284.02	3/4		3/4	3/4	3/4		3/4	
11	1,937.71	11	1,605.48	11	1,273.25	11	941.19	11	609.28	11	277.10	11		11	11	11		11	
1/4	1,930.79	1/4	1,598.56	1/4	1,266.33	1/4	934.28	1/4	602.36	1/4	270.18	1/4		1/4	1/4	1/4		1/4	
1/2	1,923.87	1/2	1,591.64	1/2	1,259.41	1/2	927.37	1/2	595.44	1/2	263.26	1/2		1/2	1/2	1/2		1/2	
3/4	1,916.94	3/4	1,584.72	3/4	1,252.49	3/4	920.47	3/4	588.52	3/4	256.34	3/4		3/4	3/4	3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 07/31/2013 SW
CALCULATED: 08/01/2013 CL
PRINTED: 08/02/2013 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 08/2013

PRECISION MEASUREMENT
& ANALYSIS, INC.
P.O. Box 2092
Pearland, Texas 77588
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BARGE "CTCO 254"

1 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-08 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	5,139.78	0	4,853.91	0	4,546.40	0	4,221.75	0	3,890.06	0	3,558.37	0	3,226.68	0	2,894.99	0	2,563.26
1/4		1/4	5,134.90	1/4	4,847.69	1/4	4,539.81	1/4	4,214.84	1/4	3,883.15	1/4	3,551.46	1/4	3,219.77	1/4	2,888.08	1/4	2,556.34
1/2		1/2	5,130.02	1/2	4,841.46	1/2	4,533.21	1/2	4,207.93	1/2	3,876.24	1/2	3,544.55	1/2	3,212.86	1/2	2,881.17	1/2	2,549.43
3/4		3/4	5,124.67	3/4	4,835.20	3/4	4,526.58	3/4	4,201.02	3/4	3,869.33	3/4	3,537.64	3/4	3,205.95	3/4	2,874.26	3/4	2,542.51
1		1	5,119.32	1	4,828.95	1	4,519.95	1	4,194.11	1	3,862.42	1	3,530.73	1	3,199.04	1	2,871.35	1	2,535.60
1/4		1/4	5,113.96	1/4	4,822.69	1/4	4,513.33	1/4	4,187.20	1/4	3,855.51	1/4	3,523.82	1/4	3,192.13	1/4	2,860.44	1/4	2,528.68
1/2		1/2	5,108.61	1/2	4,816.43	1/2	4,506.70	1/2	4,180.29	1/2	3,848.60	1/2	3,516.91	1/2	3,185.22	1/2	2,853.53	1/2	2,521.77
3/4		3/4	5,102.71	3/4	4,810.15	3/4	4,500.04	3/4	4,173.38	3/4	3,841.69	3/4	3,510.00	3/4	3,178.31	3/4	2,846.62	3/4	2,514.85
2		2	5,096.81	2	4,803.87	2	4,493.39	2	4,166.47	2	3,834.78	2	3,503.09	2	3,171.40	2	2,839.71	2	2,507.94
1/4		1/4	5,090.92	1/4	4,797.58	1/4	4,486.73	1/4	4,159.56	1/4	3,827.87	1/4	3,496.18	1/4	3,164.49	1/4	2,832.80	1/4	2,501.02
1/2		1/2	5,085.02	1/2	4,791.30	1/2	4,480.08	1/2	4,152.65	1/2	3,820.96	1/2	3,489.27	1/2	3,157.58	1/2	2,825.89	1/2	2,494.11
3/4		3/4	5,079.09	3/4	4,784.99	3/4	4,473.40	3/4	4,145.74	3/4	3,814.05	3/4	3,482.36	3/4	3,150.67	3/4	2,818.98	3/4	2,487.20
3		3	5,073.17	3	4,778.68	3	4,466.72	3	4,138.83	3	3,807.14	3	3,475.45	3	3,143.76	3	2,812.07	3	2,480.28
1/4		1/4	5,067.24	1/4	4,772.37	1/4	4,460.03	1/4	4,131.92	1/4	3,800.23	1/4	3,468.54	1/4	3,136.85	1/4	2,805.16	1/4	2,473.37
1/2		1/2	5,061.31	1/2	4,766.05	1/2	4,453.35	1/2	4,125.01	1/2	3,793.32	1/2	3,461.63	1/2	3,129.94	1/2	2,798.25	1/2	2,466.45
3/4		3/4	5,055.36	3/4	4,759.72	3/4	4,446.64	3/4	4,118.10	3/4	3,786.41	3/4	3,454.72	3/4	3,123.03	3/4	2,791.34	3/4	2,459.54
4		4	5,049.41	4	4,753.38	4	4,439.93	4	4,111.19	4	3,779.50	4	3,447.81	4	3,116.12	4	2,784.43	4	2,452.62
1/4		1/4	5,043.46	1/4	4,747.04	1/4	4,433.22	1/4	4,104.28	1/4	3,772.59	1/4	3,440.90	1/4	3,109.21	1/4	2,777.52	1/4	2,445.71
1/2		1/2	5,037.51	1/2	4,740.70	1/2	4,426.51	1/2	4,097.37	1/2	3,765.68	1/2	3,433.99	1/2	3,102.30	1/2	2,770.61	1/2	2,438.79
3/4		3/4	5,031.51	3/4	4,734.33	3/4	4,419.77	3/4	4,090.46	3/4	3,758.77	3/4	3,427.08	3/4	3,095.39	3/4	2,763.70	3/4	2,431.88
5		5	5,025.52	5	4,727.97	5	4,413.04	5	4,083.55	5	3,751.86	5	3,420.17	5	3,088.48	5	2,756.79	5	2,424.96
1/4		1/4	5,019.53	1/4	4,721.60	1/4	4,406.30	1/4	4,076.64	1/4	3,744.95	1/4	3,413.26	1/4	3,081.57	1/4	2,749.88	1/4	2,418.05
1/2		1/2	5,013.53	1/2	4,715.23	1/2	4,399.56	1/2	4,069.73	1/2	3,738.04	1/2	3,406.35	1/2	3,074.66	1/2	2,742.97	1/2	2,411.13
3/4		3/4	5,007.47	3/4	4,708.84	3/4	4,392.80	3/4	4,062.82	3/4	3,731.13	3/4	3,399.44	3/4	3,067.75	3/4	2,736.06	3/4	2,404.22
6		6	5,001.41	6	4,702.44	6	4,386.03	6	4,055.91	6	3,724.22	6	3,392.53	6	3,060.84	6	2,729.15	6	2,397.30
1/4		1/4	4,995.34	1/4	4,696.05	1/4	4,379.27	1/4	4,049.00	1/4	3,717.31	1/4	3,385.62	1/4	3,053.93	1/4	2,722.24	1/4	2,390.39
1/2		1/2	4,989.28	1/2	4,689.66	1/2	4,372.50	1/2	4,042.09	1/2	3,710.40	1/2	3,378.71	1/2	3,047.02	1/2	2,715.33	1/2	2,383.47
3/4		3/4	4,983.19	3/4	4,683.23	3/4	4,365.71	3/4	4,035.18	3/4	3,703.49	3/4	3,371.80	3/4	3,040.11	3/4	2,708.42	3/4	2,376.56
7		7	4,977.10	7	4,676.81	7	4,358.92	7	4,028.27	7	3,696.58	7	3,364.89	7	3,033.20	7	2,701.51	7	2,369.65
1/4		1/4	4,971.01	1/4	4,670.39	1/4	4,352.12	1/4	4,021.36	1/4	3,689.67	1/4	3,357.98	1/4	3,026.29	1/4	2,694.60	1/4	2,362.73
1/2		1/2	4,964.92	1/2	4,663.97	1/2	4,345.33	1/2	4,014.45	1/2	3,682.76	1/2	3,351.07	1/2	3,019.38	1/2	2,687.69	1/2	2,355.82
3/4		3/4	4,958.80	3/4	4,657.51	3/4	4,338.51	3/4	4,007.54	3/4	3,675.85	3/4	3,344.16	3/4	3,012.47	3/4	2,680.78	3/4	2,348.90
8		8	4,952.68	8	4,651.05	8	4,331.69	8	4,000.63	8	3,668.94	8	3,337.25	8	3,005.56	8	2,673.87	8	2,341.99
1/4		1/4	4,946.57	1/4	4,644.59	1/4	4,324.87	1/4	3,993.72	1/4	3,662.03	1/4	3,330.34	1/4	2,998.65	1/4	2,666.96	1/4	2,335.07
1/2		1/2	4,940.45	1/2	4,638.13	1/2	4,318.05	1/2	3,986.81	1/2	3,655.12	1/2	3,323.43	1/2	2,991.74	1/2	2,660.05	1/2	2,328.16
3/4		3/4	4,934.30	3/4	4,631.61	3/4	4,311.20	3/4	3,979.90	3/4	3,648.21	3/4	3,316.52	3/4	2,984.83	3/4	2,653.14	3/4	2,321.24
9		9	4,928.16	9	4,625.10	9	4,304.35	9	3,972.99	9	3,641.30	9	3,309.61	9	2,977.92	9	2,646.23	9	2,314.33
1/4		1/4	4,922.01	1/4	4,618.58	1/4	4,297.51	1/4	3,966.08	1/4	3,634.39	1/4	3,302.70	1/4	2,971.01	1/4	2,639.32	1/4	2,307.41
1/2		1/2	4,915.87	1/2	4,612.07	1/2	4,290.66	1/2	3,959.17	1/2	3,627.48	1/2	3,295.79	1/2	2,964.10	1/2	2,632.41	1/2	2,300.50
3/4		3/4	4,909.69	3/4	4,605.52	3/4	4,283.78	3/4	3,952.25	3/4	3,620.57	3/4	3,288.88	3/4	2,957.19	3/4	2,625.49	3/4	2,293.58
10		10	4,903.52	10	4,598.98	10	4,276.91	10	3,945.34	10	3,613.66	10	3,281.97	10	2,950.28	10	2,618.58	10	2,286.67
1/4		1/4	4,897.35	1/4	4,592.43	1/4	4,270.03	1/4	3,938.43	1/4	3,606.74	1/4	3,275.06	1/4	2,943.37	1/4	2,611.66	1/4	2,279.75
1/2		1/2	4,891.17	1/2	4,585.89	1/2	4,263.16	1/2	3,931.52	1/2	3,599.83	1/2	3,268.15	1/2	2,936.46	1/2	2,604.75	1/2	2,272.84
3/4		3/4	4,884.97	3/4	4,579.32	3/4	4,256.26	3/4	3,924.61	3/4	3,592.92	3/4	3,261.23	3/4	2,929.55	3/4	2,597.83	3/4	2,265.92
11		11	4,878.77	11	4,572.75	11	4,249.36	11	3,917.70	11	3,586.01	11	3,254.32	11	2,922.64	11	2,590.92	11	2,259.01
1/4		1/4	4,872.57	1/4	4,566.18	1/4	4,242.47	1/4	3,910.79	1/4	3,579.10	1/4	3,247.41	1/4	2,915.72	1/4	2,584.00	1/4	2,252.10
1/2		1/2	4,866.37	1/2	4,559.60	1/2	4,235.57	1/2	3,903.88	1/2	3,572.19	1/2	3,240.50	1/2	2,908.81	1/2	2,577.09	1/2	2,245.18
3/4		3/4	4,860.14	3/4	4,553.00	3/4	4,228.66	3/4	3,896.97	3/4	3,565.28	3/4	3,233.59	3/4	2,901.90	3/4	2,570.17	3/4	2,238.27

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 TO TOP OF 2" HERMETIC CLOSED GAUGING VALVE.
 GAUGE POINT: (HERMETIC) LOCATED 10'-06" OFF CENTERLINE AND 41'-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 "CTCO 254"

1 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-08 1/2"

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.	
0	2,231.35	0	1,899.45	0	1,567.54	0	1,235.63	0	904.81	0	574.13	0	242.26	0		0		0	
1/4	2,224.44	1/4	1,892.53	1/4	1,560.63	1/4	1,228.72	1/4	897.94	1/4	567.22	1/4	235.35	1/4	1/4	1/4		1/4	
1/2	2,217.52	1/2	1,885.62	1/2	1,553.71	1/2	1,221.81	1/2	891.08	1/2	560.30	1/2	228.43	1/2	1/2	1/2		1/2	
3/4	2,210.61	3/4	1,878.70	3/4	1,546.80	3/4	1,214.89	3/4	884.21	3/4	553.39	3/4	221.52	3/4	3/4	3/4		3/4	
1	2,203.69	1	1,871.79	1	1,539.88	1	1,207.98	1	877.34	1	546.47	1	214.61	1	1	1		1	
1/4	2,196.78	1/4	1,864.87	1/4	1,532.97	1/4	1,201.06	1/4	870.48	1/4	539.56	1/4	207.69	1/4	1/4	1/4		1/4	
1/2	2,189.86	1/2	1,857.96	1/2	1,526.05	1/2	1,194.15	1/2	863.61	1/2	532.64	1/2	200.78	1/2	1/2	1/2		1/2	
3/4	2,182.95	3/4	1,851.04	3/4	1,519.14	3/4	1,187.23	3/4	856.75	3/4	525.73	3/4	193.86	3/4	3/4	3/4		3/4	
2	2,176.03	2	1,844.13	2	1,512.22	2	1,180.32	2	849.88	2	518.81	2	186.95	2	2	2		2	
1/4	2,169.12	1/4	1,837.21	1/4	1,505.31	1/4	1,173.40	1/4	843.02	1/4	511.90	1/4	180.03	1/4	1/4	1/4		1/4	
1/2	2,162.20	1/2	1,830.30	1/2	1,498.39	1/2	1,166.49	1/2	836.15	1/2	504.99	1/2	173.12	1/2	1/2	1/2		1/2	
3/4	2,155.29	3/4	1,823.38	3/4	1,491.48	3/4	1,159.57	3/4	829.28	3/4	498.07	3/4	166.20	3/4	3/4	3/4		3/4	
3	2,148.37	3	1,816.47	3	1,484.56	3	1,152.66	3	822.42	3	491.16	3	159.29	3	3	3		3	
1/4	2,141.46	1/4	1,809.55	1/4	1,477.65	1/4	1,145.74	1/4	815.55	1/4	484.24	1/4	152.38	1/4	1/4	1/4		1/4	
1/2	2,134.55	1/2	1,802.64	1/2	1,470.73	1/2	1,138.83	1/2	808.69	1/2	477.33	1/2	145.46	1/2	1/2	1/2		1/2	
3/4	2,127.63	3/4	1,795.73	3/4	1,463.82	3/4	1,131.91	3/4	801.82	3/4	470.41	3/4	138.55	3/4	3/4	3/4		3/4	
4	2,120.72	4	1,788.81	4	1,456.90	4	1,125.00	4	794.96	4	463.50	4	131.64	4	4	4		4	
1/4	2,113.80	1/4	1,781.90	1/4	1,449.99	1/4	1,118.08	1/4	788.09	1/4	456.58	1/4	124.73	1/4	1/4	1/4		1/4	
1/2	2,106.89	1/2	1,774.98	1/2	1,443.08	1/2	1,111.17	1/2	781.22	1/2	449.67	1/2	117.82	1/2	1/2	1/2		1/2	
3/4	2,099.97	3/4	1,768.07	3/4	1,436.16	3/4	1,104.26	3/4	774.36	3/4	442.76	3/4	110.92	3/4	3/4	3/4		3/4	
5	2,093.06	5	1,761.15	5	1,429.25	5	1,097.34	5	767.49	5	435.84	5	104.02	5	5	5		5	
1/4	2,086.14	1/4	1,754.24	1/4	1,422.33	1/4	1,090.43	1/4	760.63	1/4	428.93	1/4	97.13	1/4	1/4	1/4		1/4	
1/2	2,079.23	1/2	1,747.32	1/2	1,415.42	1/2	1,083.51	1/2	753.76	1/2	422.01	1/2	90.23	1/2	1/2	1/2		1/2	
3/4	2,072.31	3/4	1,740.41	3/4	1,408.50	3/4	1,076.61	3/4	746.88	3/4	415.10	3/4	83.51	3/4	3/4	3/4		3/4	
6	2,065.40	6	1,733.49	6	1,401.59	6	1,069.70	6	740.00	6	408.18	6	76.80	6	6	6		6	
1/4	2,058.48	1/4	1,726.58	1/4	1,394.67	1/4	1,062.80	1/4	733.12	1/4	401.27	1/4	70.09	1/4	1/4	1/4		1/4	
1/2	2,051.57	1/2	1,719.66	1/2	1,387.76	1/2	1,055.89	1/2	726.25	1/2	394.36	1/2	63.37	1/2	1/2	1/2		1/2	
3/4	2,044.65	3/4	1,712.75	3/4	1,380.84	3/4	1,049.02	3/4	719.33	3/4	387.44	3/4	57.50	3/4	3/4	3/4		3/4	
7	2,037.74	7	1,705.83	7	1,373.93	7	1,042.15	7	712.42	7	380.53	7	51.62	7	7	7		7	
1/4	2,030.82	1/4	1,698.92	1/4	1,367.01	1/4	1,035.28	1/4	705.50	1/4	373.61	1/4	45.75	1/4	1/4	1/4		1/4	
1/2	2,023.91	1/2	1,692.00	1/2	1,360.10	1/2	1,028.41	1/2	698.59	1/2	366.70	1/2	39.87	1/2	1/2	1/2		1/2	
3/4	2,017.00	3/4	1,685.09	3/4	1,353.18	3/4	1,021.54	3/4	691.67	3/4	359.79	3/4	35.38	3/4	3/4	3/4		3/4	
8	2,010.08	8	1,678.18	8	1,346.27	8	1,014.67	8	684.76	8	352.88	8	30.88	8	8	8		8	
1/4	2,003.17	1/4	1,671.26	1/4	1,339.35	1/4	1,007.80	1/4	677.85	1/4	345.97	1/4	26.39	1/4	1/4	1/4		1/4	
1/2	1,996.25	1/2	1,664.35	1/2	1,332.44	1/2	1,000.93	1/2	670.93	1/2	339.06	1/2	21.89	1/2	1/2	1/2		1/2	
3/4	1,989.34	3/4	1,657.43	3/4	1,325.53	3/4	994.06	3/4	664.02	3/4	332.14	3/4		3/4	3/4	3/4		3/4	
9	1,982.42	9	1,650.52	9	1,318.61	9	987.19	9	657.10	9	325.23	9		9	9	9		9	
1/4	1,975.51	1/4	1,643.60	1/4	1,311.70	1/4	980.33	1/4	650.19	1/4	318.32	1/4		1/4	1/4	1/4		1/4	
1/2	1,968.59	1/2	1,636.69	1/2	1,304.78	1/2	973.46	1/2	643.27	1/2	311.41	1/2		1/2	1/2	1/2		1/2	
3/4	1,961.68	3/4	1,629.77	3/4	1,297.87	3/4	966.60	3/4	636.36	3/4	304.49	3/4		3/4	3/4	3/4		3/4	
10	1,954.76	10	1,622.86	10	1,290.95	10	959.73	10	629.44	10	297.58	10		10	10	10		10	
1/4	1,947.85	1/4	1,615.94	1/4	1,284.04	1/4	952.87	1/4	622.53	1/4	290.66	1/4		1/4	1/4	1/4		1/4	
1/2	1,940.93	1/2	1,609.03	1/2	1,277.12	1/2	946.00	1/2	615.62	1/2	283.75	1/2		1/2	1/2	1/2		1/2	
3/4	1,934.02	3/4	1,602.11	3/4	1,270.21	3/4	939.13	3/4	608.70	3/4	276.84	3/4		3/4	3/4	3/4		3/4	
11	1,927.10	11	1,595.20	11	1,263.29	11	932.27	11	601.79	11	269.92	11		11	11	11		11	
1/4	1,920.19	1/4	1,588.28	1/4	1,256.38	1/4	925.40	1/4	594.87	1/4	263.01	1/4		1/4	1/4	1/4		1/4	
1/2	1,913.28	1/2	1,581.37	1/2	1,249.46	1/2	918.54	1/2	587.96	1/2	256.09	1/2		1/2	1/2	1/2		1/2	
3/4	1,906.36	3/4	1,574.45	3/4	1,242.55	3/4	911.67	3/4	581.04	3/4	249.18	3/4		3/4	3/4	3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 07/31/2013 SW
CALCULATED: 08/01/2013 CL
PRINTED: 08/02/2013 SW

PRECISION MEASUREMENT
& ANALYSIS, INC.
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Pearland, Texas 77588
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CANCELS AND SUPERCEDES
ALL PRIOR TO 08/2013



BARGE "CTCO 254"

2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-08 3/4"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.			
IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0
1/4		1/4	5,124.44	1/4	4,839.53	1/4	4,533.06	1/4	4,209.48	1/4	3,878.91	1/4	3,548.34	1/4	3,217.77	1/4	2,887.20	1/4	2,556.60		
1/2		1/2	5,119.58	1/2	4,833.33	1/2	4,526.48	1/2	4,202.59	1/2	3,872.02	1/2	3,541.45	1/2	3,210.88	1/2	2,880.31	1/2	2,549.71		
3/4		3/4	5,114.71	3/4	4,827.12	3/4	4,519.91	3/4	4,195.71	3/4	3,865.14	3/4	3,534.57	3/4	3,203.99	3/4	2,873.42	3/4	2,542.82		
1	1	1	5,109.38	1	4,820.88	1	4,513.30	1	4,188.82	1	3,858.25	1	3,527.68	1	3,197.11	1	2,866.54	1	2,535.93		
1/4		1/4	5,104.04	1/4	4,814.65	1/4	4,506.70	1/4	4,181.93	1/4	3,851.36	1/4	3,520.79	1/4	3,190.22	1/4	2,859.65	1/4	2,529.04		
1/2		1/2	5,098.71	1/2	4,808.41	1/2	4,500.09	1/2	4,175.05	1/2	3,844.48	1/2	3,513.90	1/2	3,183.33	1/2	2,852.76	1/2	2,522.15		
3/4		3/4	5,093.37	3/4	4,802.18	3/4	4,493.49	3/4	4,168.16	3/4	3,837.59	3/4	3,507.02	3/4	3,176.45	3/4	2,845.88	3/4	2,515.25		
2	2	2	5,087.49	2	4,795.92	2	4,486.85	2	4,161.27	2	3,830.70	2	3,500.13	2	3,169.56	2	2,838.99	2	2,508.36		
1/4		1/4	5,081.61	1/4	4,789.65	1/4	4,480.22	1/4	4,154.39	1/4	3,823.82	1/4	3,493.24	1/4	3,162.67	1/4	2,832.10	1/4	2,501.47		
1/2		1/2	5,075.73	1/2	4,783.39	1/2	4,473.59	1/2	4,147.50	1/2	3,816.93	1/2	3,486.36	1/2	3,155.79	1/2	2,825.21	1/2	2,494.58		
3/4		3/4	5,069.85	3/4	4,777.13	3/4	4,466.96	3/4	4,140.61	3/4	3,810.04	3/4	3,479.47	3/4	3,148.90	3/4	2,818.33	3/4	2,487.69		
3	3	3	5,063.95	3	4,770.84	3	4,460.30	3	4,133.73	3	3,803.15	3	3,472.58	3	3,142.01	3	2,811.44	3	2,480.80		
1/4		1/4	5,058.04	1/4	4,764.55	1/4	4,453.64	1/4	4,126.84	1/4	3,796.27	1/4	3,465.70	1/4	3,135.13	1/4	2,804.55	1/4	2,473.91		
1/2		1/2	5,052.14	1/2	4,758.26	1/2	4,446.98	1/2	4,119.95	1/2	3,789.38	1/2	3,458.81	1/2	3,128.24	1/2	2,797.67	1/2	2,467.01		
3/4		3/4	5,046.23	3/4	4,751.97	3/4	4,440.32	3/4	4,113.07	3/4	3,782.49	3/4	3,451.92	3/4	3,121.35	3/4	2,790.78	3/4	2,460.12		
4	4	4	5,040.30	4	4,745.65	4	4,433.63	4	4,106.18	4	3,775.61	4	3,445.04	4	3,114.46	4	2,783.89	4	2,453.23		
1/4		1/4	5,034.37	1/4	4,739.33	1/4	4,426.94	1/4	4,099.29	1/4	3,768.72	1/4	3,438.15	1/4	3,107.58	1/4	2,777.01	1/4	2,446.34		
1/2		1/2	5,028.44	1/2	4,733.02	1/2	4,420.26	1/2	4,092.40	1/2	3,761.83	1/2	3,431.26	1/2	3,100.69	1/2	2,770.12	1/2	2,439.45		
3/4		3/4	5,022.51	3/4	4,726.70	3/4	4,413.57	3/4	4,085.52	3/4	3,754.95	3/4	3,424.38	3/4	3,093.80	3/4	2,763.23	3/4	2,432.56		
5	5	5	5,016.53	5	4,720.35	5	4,406.85	5	4,078.63	5	3,748.06	5	3,417.49	5	3,086.92	5	2,756.35	5	2,425.66		
1/4		1/4	5,010.56	1/4	4,714.01	1/4	4,400.14	1/4	4,071.74	1/4	3,741.17	1/4	3,410.60	1/4	3,080.03	1/4	2,749.46	1/4	2,418.77		
1/2		1/2	5,004.59	1/2	4,707.66	1/2	4,393.43	1/2	4,064.86	1/2	3,734.29	1/2	3,403.71	1/2	3,073.14	1/2	2,742.57	1/2	2,411.88		
3/4		3/4	4,998.61	3/4	4,701.32	3/4	4,386.71	3/4	4,057.97	3/4	3,727.40	3/4	3,396.83	3/4	3,066.26	3/4	2,735.69	3/4	2,404.99		
6	6	6	4,992.57	6	4,694.95	6	4,379.97	6	4,051.08	6	3,720.51	6	3,389.94	6	3,059.37	6	2,728.80	6	2,398.10		
1/4		1/4	4,986.53	1/4	4,688.57	1/4	4,373.23	1/4	4,044.20	1/4	3,713.63	1/4	3,383.05	1/4	3,052.48	1/4	2,721.91	1/4	2,391.21		
1/2		1/2	4,980.49	1/2	4,682.20	1/2	4,366.48	1/2	4,037.31	1/2	3,706.74	1/2	3,376.17	1/2	3,045.60	1/2	2,715.02	1/2	2,384.31		
3/4		3/4	4,974.44	3/4	4,675.83	3/4	4,359.74	3/4	4,030.42	3/4	3,699.85	3/4	3,369.28	3/4	3,038.71	3/4	2,708.14	3/4	2,377.42		
7	7	7	4,968.37	7	4,669.43	7	4,352.97	7	4,023.54	7	3,692.96	7	3,362.39	7	3,031.82	7	2,701.25	7	2,370.53		
1/4		1/4	4,962.30	1/4	4,663.03	1/4	4,346.20	1/4	4,016.65	1/4	3,686.08	1/4	3,355.51	1/4	3,024.94	1/4	2,694.36	1/4	2,363.64		
1/2		1/2	4,956.23	1/2	4,656.63	1/2	4,339.43	1/2	4,009.76	1/2	3,679.19	1/2	3,348.62	1/2	3,018.05	1/2	2,687.48	1/2	2,356.75		
3/4		3/4	4,950.17	3/4	4,650.23	3/4	4,332.66	3/4	4,002.87	3/4	3,672.30	3/4	3,341.73	3/4	3,011.16	3/4	2,680.59	3/4	2,349.86		
8	8	8	4,944.07	8	4,643.79	8	4,325.86	8	3,995.99	8	3,665.42	8	3,334.85	8	3,004.27	8	2,673.70	8	2,342.96		
1/4		1/4	4,937.97	1/4	4,637.35	1/4	4,319.07	1/4	3,989.10	1/4	3,658.53	1/4	3,327.96	1/4	2,997.39	1/4	2,666.82	1/4	2,336.07		
1/2		1/2	4,931.87	1/2	4,630.92	1/2	4,312.27	1/2	3,982.21	1/2	3,651.64	1/2	3,321.07	1/2	2,990.50	1/2	2,659.93	1/2	2,329.18		
3/4		3/4	4,925.78	3/4	4,624.48	3/4	4,305.47	3/4	3,975.33	3/4	3,644.76	3/4	3,314.18	3/4	2,983.61	3/4	2,653.04	3/4	2,322.29		
9	9	9	4,919.65	9	4,617.98	9	4,298.65	9	3,968.44	9	3,637.87	9	3,307.30	9	2,976.73	9	2,646.16	9	2,315.40		
1/4		1/4	4,913.53	1/4	4,611.49	1/4	4,291.82	1/4	3,961.55	1/4	3,630.98	1/4	3,300.41	1/4	2,969.84	1/4	2,639.27	1/4	2,308.51		
1/2		1/2	4,907.40	1/2	4,605.00	1/2	4,285.00	1/2	3,954.67	1/2	3,624.10	1/2	3,293.52	1/2	2,962.95	1/2	2,632.38	1/2	2,301.62		
3/4		3/4	4,901.28	3/4	4,598.50	3/4	4,278.17	3/4	3,947.78	3/4	3,617.21	3/4	3,286.64	3/4	2,956.07	3/4	2,625.49	3/4	2,294.72		
10	10	10	4,895.12	10	4,591.98	10	4,271.32	10	3,940.89	10	3,610.32	10	3,279.75	10	2,949.18	10	2,618.61	10	2,287.83		
1/4		1/4	4,888.97	1/4	4,585.46	1/4	4,264.47	1/4	3,934.01	1/4	3,603.43	1/4	3,272.86	1/4	2,942.29	1/4	2,611.72	1/4	2,280.94		
1/2		1/2	4,882.82	1/2	4,578.93	1/2	4,257.61	1/2	3,927.12	1/2	3,596.55	1/2	3,265.98	1/2	2,935.41	1/2	2,604.84	1/2	2,274.05		
3/4		3/4	4,876.67	3/4	4,572.41	3/4	4,250.76	3/4	3,920.23	3/4	3,589.66	3/4	3,259.09	3/4	2,928.52	3/4	2,597.95	3/4	2,267.16		
11	11	11	4,870.49	11	4,565.86	11	4,243.89	11	3,913.35	11	3,582.77	11	3,252.20	11	2,921.63	11	2,591.06	11	2,260.27		
1/4		1/4	4,864.31	1/4	4,559.31	1/4	4,237.01	1/4	3,906.46	1/4	3,575.89	1/4	3,245.32	1/4	2,914.74	1/4	2,584.17	1/4	2,253.37		
1/2		1/2	4,858.13	1/2	4,552.76	1/2	4,230.13	1/2	3,899.57	1/2	3,569.00	1/2	3,238.43	1/2	2,907.86	1/2	2,577.28	1/2	2,246.48		
3/4		3/4	4,851.95	3/4	4,546.21	3/4	4,223.26	3/4	3,892.68	3/4	3,562.11	3/4	3,231.54	3/4	2,900.97	3/4	2,570.39	3/4	2,239.59		

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 TO TOP OF 2" HERMETIC CLOSED GAUGING VALVE.
 GAUGE POINT: (HERMETIC) LOCATED 10'-06" OFF CENTERLINE AND 41'-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 "CTCO 254"

2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-08 3/4"

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.	
IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0
1/4	2,225.81	1/4	1,895.01	1/4	1,564.21	1/4	1,233.42	1/4	902.80	1/4	572.20	1/4	241.45	1/4		1/4		1/4	
1/2	2,218.92	1/2	1,888.12	1/2	1,557.32	1/2	1,226.53	1/2	895.91	1/2	565.31	1/2	234.56	1/2		1/2		1/2	
3/4	2,212.02	3/4	1,881.23	3/4	1,550.43	3/4	1,219.63	3/4	889.03	3/4	558.42	3/4	227.67	3/4		3/4		3/4	
1	2,205.13	1	1,874.34	1	1,543.54	1	1,212.74	1	882.15	1	551.53	1	220.78	1		1		1	
1/4	2,198.24	1/4	1,867.44	1/4	1,536.65	1/4	1,205.85	1/4	875.27	1/4	544.64	1/4	213.88	1/4		1/4		1/4	
1/2	2,191.35	1/2	1,860.55	1/2	1,529.76	1/2	1,198.96	1/2	868.38	1/2	537.75	1/2	206.99	1/2		1/2		1/2	
3/4	2,184.46	3/4	1,853.66	3/4	1,522.86	3/4	1,192.07	3/4	861.50	3/4	530.86	3/4	200.10	3/4		3/4		3/4	
2	2,177.57	2	1,846.77	2	1,515.97	2	1,185.18	2	854.62	2	523.96	2	193.21	2		2		2	
1/4	2,170.67	1/4	1,839.88	1/4	1,509.08	1/4	1,178.28	1/4	847.74	1/4	517.07	1/4	186.32	1/4		1/4		1/4	
1/2	2,163.78	1/2	1,832.99	1/2	1,502.19	1/2	1,171.39	1/2	840.85	1/2	510.18	1/2	179.43	1/2		1/2		1/2	
3/4	2,156.89	3/4	1,826.09	3/4	1,495.30	3/4	1,164.50	3/4	833.97	3/4	503.29	3/4	172.54	3/4		3/4		3/4	
3	2,150.00	3	1,819.20	3	1,488.41	3	1,157.61	3	827.09	3	496.40	3	165.65	3		3		3	
1/4	2,143.11	1/4	1,812.31	1/4	1,481.51	1/4	1,150.72	1/4	820.21	1/4	489.51	1/4	158.76	1/4		1/4		1/4	
1/2	2,136.22	1/2	1,805.42	1/2	1,474.62	1/2	1,143.83	1/2	813.32	1/2	482.62	1/2	151.86	1/2		1/2		1/2	
3/4	2,129.33	3/4	1,798.53	3/4	1,467.73	3/4	1,136.93	3/4	806.44	3/4	475.73	3/4	144.97	3/4		3/4		3/4	
4	2,122.43	4	1,791.64	4	1,460.84	4	1,130.04	4	799.56	4	468.83	4	138.09	4		4		4	
1/4	2,115.54	1/4	1,784.75	1/4	1,453.95	1/4	1,123.15	1/4	792.68	1/4	461.94	1/4	131.20	1/4		1/4		1/4	
1/2	2,108.65	1/2	1,777.85	1/2	1,447.06	1/2	1,116.26	1/2	785.80	1/2	455.05	1/2	124.31	1/2		1/2		1/2	
3/4	2,101.76	3/4	1,770.96	3/4	1,440.17	3/4	1,109.37	3/4	778.91	3/4	448.16	3/4	117.42	3/4		3/4		3/4	
5	2,094.87	5	1,764.07	5	1,433.27	5	1,102.48	5	772.03	5	441.27	5	110.55	5		5		5	
1/4	2,087.98	1/4	1,757.18	1/4	1,426.38	1/4	1,095.59	1/4	765.15	1/4	434.38	1/4	103.67	1/4		1/4		1/4	
1/2	2,081.08	1/2	1,750.29	1/2	1,419.49	1/2	1,088.69	1/2	758.26	1/2	427.49	1/2	96.80	1/2		1/2		1/2	
3/4	2,074.19	3/4	1,743.40	3/4	1,412.60	3/4	1,081.80	3/4	751.38	3/4	420.59	3/4	89.92	3/4		3/4		3/4	
6	2,067.30	6	1,736.50	6	1,405.71	6	1,074.91	6	744.49	6	413.70	6	83.23	6		6		6	
1/4	2,060.41	1/4	1,729.61	1/4	1,398.82	1/4	1,068.02	1/4	737.59	1/4	406.81	1/4	76.54	1/4		1/4		1/4	
1/2	2,053.52	1/2	1,722.72	1/2	1,391.92	1/2	1,061.13	1/2	730.70	1/2	399.92	1/2	69.85	1/2		1/2		1/2	
3/4	2,046.63	3/4	1,715.83	3/4	1,385.03	3/4	1,054.24	3/4	723.81	3/4	393.03	3/4	63.16	3/4		3/4		3/4	
7	2,039.73	7	1,708.94	7	1,378.14	7	1,047.35	7	716.92	7	386.14	7	57.30	7		7		7	
1/4	2,032.84	1/4	1,702.05	1/4	1,371.25	1/4	1,040.46	1/4	710.03	1/4	379.25	1/4	51.45	1/4		1/4		1/4	
1/2	2,025.95	1/2	1,695.15	1/2	1,364.36	1/2	1,033.57	1/2	703.14	1/2	372.36	1/2	45.59	1/2		1/2		1/2	
3/4	2,019.06	3/4	1,688.26	3/4	1,357.47	3/4	1,026.68	3/4	696.25	3/4	365.47	3/4	39.74	3/4		3/4		3/4	
8	2,012.17	8	1,681.37	8	1,350.57	8	1,019.80	8	689.36	8	358.58	8	35.26	8		8		8	
1/4	2,005.28	1/4	1,674.48	1/4	1,343.68	1/4	1,012.91	1/4	682.46	1/4	351.69	1/4	30.78	1/4		1/4		1/4	
1/2	1,998.38	1/2	1,667.59	1/2	1,336.79	1/2	1,006.03	1/2	675.57	1/2	344.80	1/2	26.30	1/2		1/2		1/2	
3/4	1,991.49	3/4	1,660.70	3/4	1,329.90	3/4	999.15	3/4	668.68	3/4	337.92	3/4	21.82	3/4		3/4		3/4	
9	1,984.60	9	1,653.80	9	1,323.01	9	992.27	9	661.79	9	331.03	9		9		9		9	
1/4	1,977.71	1/4	1,646.91	1/4	1,316.12	1/4	985.38	1/4	654.90	1/4	324.14	1/4		1/4		1/4		1/4	
1/2	1,970.82	1/2	1,640.02	1/2	1,309.22	1/2	978.50	1/2	648.01	1/2	317.25	1/2		1/2		1/2		1/2	
3/4	1,963.93	3/4	1,633.13	3/4	1,302.33	3/4	971.62	3/4	641.12	3/4	310.36	3/4		3/4		3/4		3/4	
10	1,957.04	10	1,626.24	10	1,295.44	10	964.74	10	634.23	10	303.47	10		10		10		10	
1/4	1,950.14	1/4	1,619.35	1/4	1,288.55	1/4	957.86	1/4	627.33	1/4	296.58	1/4		1/4		1/4		1/4	
1/2	1,943.25	1/2	1,612.46	1/2	1,281.66	1/2	950.97	1/2	620.44	1/2	289.69	1/2		1/2		1/2		1/2	
3/4	1,936.36	3/4	1,605.56	3/4	1,274.77	3/4	944.09	3/4	613.55	3/4	282.80	3/4		3/4		3/4		3/4	
11	1,929.47	11	1,598.67	11	1,267.88	11	937.21	11	606.66	11	275.91	11		11		11		11	
1/4	1,922.58	1/4	1,591.78	1/4	1,260.98	1/4	930.33	1/4	599.77	1/4	269.02	1/4		1/4		1/4		1/4	
1/2	1,915.69	1/2	1,584.89	1/2	1,254.09	1/2	923.44	1/2	592.88	1/2	262.12	1/2		1/2		1/2		1/2	
3/4	1,908.79	3/4	1,578.00	3/4	1,247.20	3/4	916.56	3/4	585.99	3/4	255.23	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 07/31/2013 SW
CALCULATED: 08/01/2013 CL
PRINTED: 08/02/2013 SW

PRECISION MEASUREMENT
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CANCELS AND SUPERCEDES
ALL PRIOR TO 08/2013



BARGE "CTCO 254"

2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-08 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	4,796.12	0	4,466.56	0	4,135.67	0	3,804.79	0	3,473.90	0	3,143.01	0	2,812.12	0	2,481.21
1/4		1/4	5,111.68	1/4	4,789.27	1/4	4,459.67	1/4	4,128.78	1/4	3,797.89	1/4	3,467.00	1/4	3,136.12	1/4	2,805.23	1/4	2,474.31
1/2		1/2	5,106.57	1/2	4,782.41	1/2	4,452.78	1/2	4,121.89	1/2	3,791.00	1/2	3,460.11	1/2	3,129.22	1/2	2,798.34	1/2	2,467.41
3/4		3/4	5,101.47	3/4	4,775.56	3/4	4,445.88	3/4	4,114.99	3/4	3,784.11	3/4	3,453.22	3/4	3,122.33	3/4	2,791.44	3/4	2,460.51
1		1	5,095.18	1	4,768.71	1	4,438.99	1	4,108.10	1	3,772.21	1	3,446.32	1	3,115.44	1	2,784.55	1	2,453.61
1/4		1/4	5,088.90	1/4	4,761.85	1/4	4,432.09	1/4	4,101.21	1/4	3,770.32	1/4	3,439.43	1/4	3,108.54	1/4	2,777.65	1/4	2,446.72
1/2		1/2	5,082.61	1/2	4,755.00	1/2	4,425.20	1/2	4,094.31	1/2	3,763.43	1/2	3,432.54	1/2	3,101.65	1/2	2,770.76	1/2	2,439.82
3/4		3/4	5,076.33	3/4	4,748.14	3/4	4,418.31	3/4	4,087.42	3/4	3,756.53	3/4	3,425.64	3/4	3,094.76	3/4	2,763.87	3/4	2,432.92
2		2	5,069.53	2	4,741.29	2	4,411.41	2	4,080.53	2	3,749.64	2	3,418.75	2	3,087.86	2	2,756.97	2	2,426.02
1/4		1/4	5,062.73	1/4	4,734.44	1/4	4,404.52	1/4	4,073.63	1/4	3,742.74	1/4	3,411.86	1/4	3,080.97	1/4	2,750.08	1/4	2,419.12
1/2		1/2	5,055.93	1/2	4,727.58	1/2	4,397.63	1/2	4,066.74	1/2	3,735.85	1/2	3,404.96	1/2	3,074.08	1/2	2,743.19	1/2	2,412.22
3/4		3/4	5,049.12	3/4	4,720.73	3/4	4,390.73	3/4	4,059.85	3/4	3,728.96	3/4	3,398.07	3/4	3,067.18	3/4	2,736.29	3/4	2,405.33
3		3	5,042.32	3	4,713.87	3	4,383.84	3	4,052.95	3	3,722.06	3	3,391.18	3	3,060.29	3	2,729.40	3	2,398.43
1/4		1/4	5,035.52	1/4	4,707.02	1/4	4,376.95	1/4	4,046.06	1/4	3,715.17	1/4	3,384.28	1/4	3,053.39	1/4	2,722.51	1/4	2,391.53
1/2		1/2	5,028.73	1/2	4,700.17	1/2	4,370.05	1/2	4,039.17	1/2	3,708.28	1/2	3,377.39	1/2	3,046.50	1/2	2,715.61	1/2	2,384.63
3/4		3/4	5,021.93	3/4	4,693.31	3/4	4,363.16	3/4	4,032.27	3/4	3,701.38	3/4	3,370.50	3/4	3,039.61	3/4	2,708.72	3/4	2,377.73
4		4	5,015.13	4	4,686.46	4	4,356.27	4	4,025.38	4	3,694.49	4	3,363.60	4	3,032.71	4	2,701.83	4	2,370.83
1/4		1/4	5,008.33	1/4	4,679.60	1/4	4,349.37	1/4	4,018.48	1/4	3,687.60	1/4	3,356.71	1/4	3,025.82	1/4	2,694.93	1/4	2,363.94
1/2		1/2	5,001.53	1/2	4,672.75	1/2	4,342.48	1/2	4,011.59	1/2	3,680.70	1/2	3,349.82	1/2	3,018.93	1/2	2,688.04	1/2	2,357.04
3/4		3/4	4,994.73	3/4	4,665.90	3/4	4,335.59	3/4	4,004.70	3/4	3,673.81	3/4	3,342.92	3/4	3,012.03	3/4	2,681.15	3/4	2,350.14
5		5	4,987.92	5	4,659.04	5	4,328.69	5	3,997.80	5	3,666.92	5	3,336.03	5	3,005.14	5	2,674.25	5	2,343.24
1/4		1/4	4,981.10	1/4	4,652.19	1/4	4,321.80	1/4	3,990.91	1/4	3,660.02	1/4	3,329.13	1/4	2,998.25	1/4	2,667.36	1/4	2,336.34
1/2		1/2	4,974.29	1/2	4,645.33	1/2	4,314.91	1/2	3,984.02	1/2	3,653.13	1/2	3,322.24	1/2	2,991.35	1/2	2,660.47	1/2	2,329.45
3/4		3/4	4,967.48	3/4	4,638.48	3/4	4,308.01	3/4	3,977.12	3/4	3,646.24	3/4	3,315.35	3/4	2,984.46	3/4	2,653.57	3/4	2,322.55
6		6	4,960.62	6	4,631.62	6	4,301.12	6	3,970.23	6	3,639.34	6	3,308.45	6	2,977.57	6	2,646.68	6	2,315.65
1/4		1/4	4,953.77	1/4	4,624.77	1/4	4,294.22	1/4	3,963.34	1/4	3,632.45	1/4	3,301.56	1/4	2,970.67	1/4	2,639.78	1/4	2,308.75
1/2		1/2	4,946.91	1/2	4,617.92	1/2	4,287.33	1/2	3,956.44	1/2	3,625.56	1/2	3,294.67	1/2	2,963.78	1/2	2,632.89	1/2	2,301.85
3/4		3/4	4,940.06	3/4	4,611.06	3/4	4,280.44	3/4	3,949.55	3/4	3,618.66	3/4	3,287.77	3/4	2,956.89	3/4	2,626.00	3/4	2,294.95
7		7	4,933.21	7	4,604.21	7	4,273.54	7	3,942.66	7	3,611.77	7	3,280.88	7	2,949.99	7	2,619.10	7	2,288.06
1/4		1/4	4,926.35	1/4	4,597.35	1/4	4,266.65	1/4	3,935.76	1/4	3,604.87	1/4	3,273.99	1/4	2,943.10	1/4	2,612.21	1/4	2,281.16
1/2		1/2	4,919.50	1/2	4,590.50	1/2	4,259.76	1/2	3,928.87	1/2	3,597.98	1/2	3,267.09	1/2	2,936.21	1/2	2,605.32	1/2	2,274.26
3/4		3/4	4,912.64	3/4	4,583.65	3/4	4,252.86	3/4	3,921.98	3/4	3,591.09	3/4	3,260.20	3/4	2,929.31	3/4	2,598.42	3/4	2,267.36
8		8	4,905.79	8	4,576.78	8	4,245.97	8	3,915.08	8	3,584.19	8	3,253.31	8	2,922.42	8	2,591.53	8	2,260.46
1/4		1/4	4,898.93	1/4	4,569.91	1/4	4,239.08	1/4	3,908.19	1/4	3,577.30	1/4	3,246.41	1/4	2,915.52	1/4	2,584.64	1/4	2,253.57
1/2		1/2	4,892.08	1/2	4,563.04	1/2	4,232.18	1/2	3,901.30	1/2	3,570.41	1/2	3,239.52	1/2	2,908.63	1/2	2,577.74	1/2	2,246.67
3/4		3/4	4,885.23	3/4	4,556.18	3/4	4,225.29	3/4	3,894.40	3/4	3,563.51	3/4	3,232.63	3/4	2,901.74	3/4	2,570.85	3/4	2,239.77
9		9	4,878.37	9	4,549.28	9	4,218.40	9	3,887.51	9	3,556.62	9	3,225.73	9	2,894.84	9	2,563.96	9	2,232.87
1/4		1/4	4,871.52	1/4	4,542.39	1/4	4,211.50	1/4	3,880.61	1/4	3,549.73	1/4	3,218.84	1/4	2,887.95	1/4	2,557.06	1/4	2,225.97
1/2		1/2	4,864.66	1/2	4,535.50	1/2	4,204.61	1/2	3,873.72	1/2	3,542.83	1/2	3,211.95	1/2	2,881.06	1/2	2,550.17	1/2	2,219.07
3/4		3/4	4,857.81	3/4	4,528.60	3/4	4,197.72	3/4	3,866.83	3/4	3,535.94	3/4	3,205.05	3/4	2,874.16	3/4	2,543.28	3/4	2,212.18
10		10	4,850.96	10	4,521.71	10	4,190.82	10	3,859.93	10	3,529.05	10	3,198.16	10	2,867.27	10	2,536.38	10	2,205.28
1/4		1/4	4,844.10	1/4	4,514.82	1/4	4,183.93	1/4	3,853.04	1/4	3,522.15	1/4	3,191.26	1/4	2,860.38	1/4	2,529.49	1/4	2,198.38
1/2		1/2	4,837.25	1/2	4,507.92	1/2	4,177.04	1/2	3,846.15	1/2	3,515.26	1/2	3,184.37	1/2	2,853.48	1/2	2,522.59	1/2	2,191.48
3/4		3/4	4,830.39	3/4	4,501.03	3/4	4,170.14	3/4	3,839.25	3/4	3,508.37	3/4	3,177.48	3/4	2,846.59	3/4	2,515.70	3/4	2,184.58
11		11	4,823.54	11	4,494.14	11	4,163.25	11	3,832.36	11	3,501.47	11	3,170.58	11	2,839.70	11	2,508.80	11	2,177.69
1/4		1/4	4,816.69	1/4	4,487.24	1/4	4,156.35	1/4	3,825.47	1/4	3,494.58	1/4	3,163.69	1/4	2,832.80	1/4	2,501.90	1/4	2,170.79
1/2		1/2	4,809.83	1/2	4,480.35	1/2	4,149.46	1/2	3,818.57	1/2	3,487.69	1/2	3,156.80	1/2	2,825.91	1/2	2,495.00	1/2	2,163.89
3/4		3/4	4,802.98	3/4	4,473.46	3/4	4,142.57	3/4	3,811.68	3/4	3,480.79	3/4	3,149.90	3/4	2,819.02	3/4	2,488.10	3/4	2,156.99

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 TO TOP OF 2" HERMETIC CLOSED GAUGING VALVE.
 GAUGE POINT: (HERMETIC) LOCATED 10'-06" OFF CENTERLINE AND 41'-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 "CTCO 254"

2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-08 3/4"

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.	
IN		IN		IN		IN		IN		IN		IN		IN		IN		IN	
0	2,150.09	0	1,818.98	0	1,487.87	0	1,156.75	0	833.94	0	549.19	0	241.27	0		0		0	
1/4	2,143.19	1/4	1,812.08	1/4	1,480.97	1/4	1,149.85	1/4	827.64	1/4	542.93	1/4	234.68	1/4	1/4	1/4		1/4	
1/2	2,136.30	1/2	1,805.18	1/2	1,474.07	1/2	1,142.96	1/2	821.35	1/2	536.67	1/2	228.09	1/2	1/2	1/2		1/2	
3/4	2,129.40	3/4	1,798.28	3/4	1,467.17	3/4	1,136.06	3/4	815.06	3/4	530.42	3/4	221.50	3/4	3/4	3/4		3/4	
1	2,122.50	1	1,791.39	1	1,460.27	1	1,129.16	1	809.47	1	524.13	1	214.89	1	1	1		1	
1/4	2,115.60	1/4	1,784.49	1/4	1,453.37	1/4	1,122.26	1/4	803.88	1/4	517.85	1/4	208.27	1/4	1/4	1/4		1/4	
1/2	2,108.70	1/2	1,777.59	1/2	1,446.48	1/2	1,115.36	1/2	798.30	1/2	511.56	1/2	201.66	1/2	1/2	1/2		1/2	
3/4	2,101.81	3/4	1,770.69	3/4	1,439.58	3/4	1,108.46	3/4	792.71	3/4	505.28	3/4	195.04	3/4	3/4	3/4		3/4	
2	2,094.91	2	1,763.79	2	1,432.68	2	1,101.57	2	787.10	2	498.97	2	188.40	2	2	2		2	
1/4	2,088.01	1/4	1,756.90	1/4	1,425.78	1/4	1,094.67	1/4	781.48	1/4	492.65	1/4	181.76	1/4	1/4	1/4		1/4	
1/2	2,081.11	1/2	1,750.00	1/2	1,418.88	1/2	1,087.77	1/2	775.87	1/2	486.34	1/2	175.11	1/2	1/2	1/2		1/2	
3/4	2,074.21	3/4	1,743.10	3/4	1,411.99	3/4	1,080.87	3/4	770.26	3/4	480.03	3/4	168.47	3/4	3/4	3/4		3/4	
3	2,067.31	3	1,736.20	3	1,405.09	3	1,073.97	3	764.61	3	473.69	3	161.80	3	3	3		3	
1/4	2,060.42	1/4	1,729.30	1/4	1,398.19	1/4	1,067.08	1/4	758.97	1/4	467.35	1/4	155.13	1/4	1/4	1/4		1/4	
1/2	2,053.52	1/2	1,722.40	1/2	1,391.29	1/2	1,060.18	1/2	753.33	1/2	461.01	1/2	148.46	1/2	1/2	1/2		1/2	
3/4	2,046.62	3/4	1,715.51	3/4	1,384.39	3/4	1,053.28	3/4	747.69	3/4	454.67	3/4	141.79	3/4	3/4	3/4		3/4	
4	2,039.72	4	1,708.61	4	1,377.49	4	1,046.38	4	742.02	4	448.30	4	135.10	4	4	4		4	
1/4	2,032.82	1/4	1,701.71	1/4	1,370.60	1/4	1,039.48	1/4	736.35	1/4	441.94	1/4	128.40	1/4	1/4	1/4		1/4	
1/2	2,025.92	1/2	1,694.81	1/2	1,363.70	1/2	1,032.58	1/2	730.68	1/2	435.57	1/2	121.71	1/2	1/2	1/2		1/2	
3/4	2,019.03	3/4	1,687.91	3/4	1,356.80	3/4	1,025.69	3/4	725.01	3/4	429.20	3/4	115.01	3/4	3/4	3/4		3/4	
5	2,012.13	5	1,681.01	5	1,349.90	5	1,018.79	5	719.31	5	422.81	5	108.30	5	5	5		5	
1/4	2,005.23	1/4	1,674.12	1/4	1,343.00	1/4	1,011.89	1/4	713.61	1/4	416.41	1/4	101.59	1/4	1/4	1/4		1/4	
1/2	1,998.33	1/2	1,667.22	1/2	1,336.10	1/2	1,004.99	1/2	707.92	1/2	410.02	1/2	94.89	1/2	1/2	1/2		1/2	
3/4	1,991.43	3/4	1,660.32	3/4	1,329.21	3/4	998.09	3/4	702.22	3/4	403.62	3/4	88.18	3/4	3/4	3/4		3/4	
6	1,984.54	6	1,653.42	6	1,322.31	6	991.29	6	696.40	6	397.20	6	81.62	6	6	6		6	
1/4	1,977.64	1/4	1,646.52	1/4	1,315.41	1/4	984.48	1/4	690.58	1/4	390.78	1/4	75.07	1/4	1/4	1/4		1/4	
1/2	1,970.74	1/2	1,639.63	1/2	1,308.51	1/2	977.67	1/2	684.75	1/2	384.35	1/2	68.52	1/2	1/2	1/2		1/2	
3/4	1,963.84	3/4	1,632.73	3/4	1,301.61	3/4	970.86	3/4	678.93	3/4	377.93	3/4	61.96	3/4	3/4	3/4		3/4	
7	1,956.94	7	1,625.83	7	1,294.72	7	964.33	7	672.81	7	371.48	7	56.22	7	7	7		7	
1/4	1,950.04	1/4	1,618.93	1/4	1,287.82	1/4	957.79	1/4	666.69	1/4	365.03	1/4	50.47	1/4	1/4	1/4		1/4	
1/2	1,943.15	1/2	1,612.03	1/2	1,280.92	1/2	951.25	1/2	660.58	1/2	358.58	1/2	44.73	1/2	1/2	1/2		1/2	
3/4	1,936.25	3/4	1,605.13	3/4	1,274.02	3/4	944.72	3/4	654.46	3/4	352.13	3/4	38.99	3/4	3/4	3/4		3/4	
8	1,929.35	8	1,598.24	8	1,267.12	8	938.19	8	648.31	8	345.66	8	34.59	8	8	8		8	
1/4	1,922.45	1/4	1,591.34	1/4	1,260.22	1/4	931.66	1/4	642.16	1/4	339.19	1/4	30.20	1/4	1/4	1/4		1/4	
1/2	1,915.55	1/2	1,584.44	1/2	1,253.33	1/2	925.13	1/2	636.02	1/2	332.71	1/2	25.81	1/2	1/2	1/2		1/2	
3/4	1,908.66	3/4	1,577.54	3/4	1,246.43	3/4	918.60	3/4	629.87	3/4	326.24	3/4	21.42	3/4	3/4	3/4		3/4	
9	1,901.76	9	1,570.64	9	1,239.53	9	912.07	9	623.69	9	319.74	9		9	9	9		9	
1/4	1,894.86	1/4	1,563.75	1/4	1,232.63	1/4	905.54	1/4	617.52	1/4	313.23	1/4		1/4	1/4	1/4		1/4	
1/2	1,887.96	1/2	1,556.85	1/2	1,225.73	1/2	899.01	1/2	611.35	1/2	306.73	1/2		1/2	1/2	1/2		1/2	
3/4	1,881.06	3/4	1,549.95	3/4	1,218.84	3/4	892.47	3/4	605.17	3/4	300.23	3/4		3/4	3/4	3/4		3/4	
10	1,874.16	10	1,543.05	10	1,211.94	10	885.94	10	598.97	10	293.69	10		10	10	10		10	
1/4	1,867.27	1/4	1,536.15	1/4	1,205.04	1/4	879.41	1/4	592.77	1/4	287.16	1/4		1/4	1/4	1/4		1/4	
1/2	1,860.37	1/2	1,529.25	1/2	1,198.14	1/2	872.88	1/2	586.57	1/2	280.63	1/2		1/2	1/2	1/2		1/2	
3/4	1,853.47	3/4	1,522.36	3/4	1,191.24	3/4	866.35	3/4	580.36	3/4	274.10	3/4		3/4	3/4	3/4		3/4	
11	1,846.57	11	1,515.46	11	1,184.34	11	859.82	11	574.13	11	267.54	11		11	11	11		11	
1/4	1,839.67	1/4	1,508.56	1/4	1,177.45	1/4	853.29	1/4	567.90	1/4	260.98	1/4		1/4	1/4	1/4		1/4	
1/2	1,832.78	1/2	1,501.66	1/2	1,170.55	1/2	846.76	1/2	561.67	1/2	254.42	1/2		1/2	1/2	1/2		1/2	
3/4	1,825.88	3/4	1,494.76	3/4	1,163.65	3/4	840.23	3/4	555.45	3/4	247.86	3/4		3/4	3/4	3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 07/31/2013 SW
CALCULATED: 08/01/2013 CL
PRINTED: 08/02/2013 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 08/2013

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



BARGE "CTCO 254"

3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-09"

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	4,346.30	0	4,161.92	0	3,965.26	0	3,763.36	0	3,548.19	0	3,218.89	0	2,889.59	0	2,560.27
1/4		1/4		1/4	4,342.58	1/4	4,157.93	1/4	3,961.05	1/4	3,759.15	1/4	3,541.33	1/4	3,212.03	1/4	2,882.73	1/4	2,553.40
1/2		1/2	4,506.69	1/2	4,338.85	1/2	4,153.94	1/2	3,956.85	1/2	3,754.95	1/2	3,534.46	1/2	3,205.17	1/2	2,875.87	1/2	2,546.54
3/4		3/4	4,504.43	3/4	4,335.12	3/4	4,149.94	3/4	3,952.64	3/4	3,750.74	3/4	3,527.60	3/4	3,198.31	3/4	2,869.01	3/4	2,539.67
1		1	4,502.16	1	4,331.40	1	4,145.95	1	3,948.44	1	3,746.53	1	3,520.74	1	3,191.44	1	2,862.15	1	2,532.81
1/4		1/4	4,499.22	1/4	4,327.65	1/4	4,141.94	1/4	3,944.23	1/4	3,742.33	1/4	3,513.88	1/4	3,184.58	1/4	2,855.29	1/4	2,525.94
1/2		1/2	4,496.27	1/2	4,323.91	1/2	4,137.93	1/2	3,940.02	1/2	3,738.12	1/2	3,507.02	1/2	3,177.72	1/2	2,848.42	1/2	2,519.08
3/4		3/4	4,493.32	3/4	4,320.16	3/4	4,133.91	3/4	3,935.82	3/4	3,733.91	3/4	3,500.16	3/4	3,170.86	3/4	2,841.56	3/4	2,512.21
2		2	4,490.37	2	4,316.42	2	4,129.90	2	3,931.61	2	3,729.71	2	3,493.30	2	3,164.00	2	2,834.70	2	2,505.35
1/4		1/4	4,486.89	1/4	4,312.65	1/4	4,125.87	1/4	3,927.40	1/4	3,725.50	1/4	3,486.44	1/4	3,157.14	1/4	2,827.84	1/4	2,498.48
1/2		1/2	4,483.40	1/2	4,308.89	1/2	4,121.84	1/2	3,923.20	1/2	3,721.30	1/2	3,479.58	1/2	3,150.28	1/2	2,820.98	1/2	2,491.62
3/4		3/4	4,479.92	3/4	4,305.12	3/4	4,117.81	3/4	3,918.99	3/4	3,717.09	3/4	3,472.72	3/4	3,143.42	3/4	2,814.12	3/4	2,484.75
3		3	4,476.44	3	4,301.36	3	4,113.78	3	3,914.79	3	3,712.88	3	3,465.86	3	3,136.56	3	2,807.26	3	2,477.89
1/4		1/4	4,472.93	1/4	4,297.58	1/4	4,109.73	1/4	3,910.58	1/4	3,708.68	1/4	3,459.00	1/4	3,129.70	1/4	2,800.40	1/4	2,471.02
1/2		1/2	4,469.43	1/2	4,293.79	1/2	4,105.68	1/2	3,906.37	1/2	3,704.47	1/2	3,452.14	1/2	3,122.84	1/2	2,793.54	1/2	2,464.16
3/4		3/4	4,465.93	3/4	4,290.01	3/4	4,101.63	3/4	3,902.17	3/4	3,700.26	3/4	3,445.28	3/4	3,115.98	3/4	2,786.68	3/4	2,457.29
4		4	4,462.43	4	4,286.23	4	4,097.58	4	3,897.96	4	3,696.06	4	3,438.42	4	3,109.12	4	2,779.82	4	2,450.43
1/4		1/4	4,458.91	1/4	4,282.42	1/4	4,093.51	1/4	3,893.75	1/4	3,691.85	1/4	3,431.56	1/4	3,102.26	1/4	2,772.96	1/4	2,443.56
1/2		1/2	4,455.39	1/2	4,278.62	1/2	4,089.44	1/2	3,889.55	1/2	3,687.65	1/2	3,424.70	1/2	3,095.40	1/2	2,766.10	1/2	2,436.70
3/4		3/4	4,451.87	3/4	4,274.82	3/4	4,085.37	3/4	3,885.34	3/4	3,683.44	3/4	3,417.84	3/4	3,088.54	3/4	2,759.24	3/4	2,429.83
5		5	4,448.35	5	4,271.02	5	4,081.30	5	3,881.14	5	3,679.23	5	3,410.98	5	3,081.68	5	2,752.38	5	2,422.97
1/4		1/4	4,444.80	1/4	4,267.20	1/4	4,077.22	1/4	3,876.93	1/4	3,675.03	1/4	3,404.12	1/4	3,074.82	1/4	2,745.52	1/4	2,416.10
1/2		1/2	4,441.25	1/2	4,263.38	1/2	4,073.13	1/2	3,872.72	1/2	3,670.82	1/2	3,397.26	1/2	3,067.96	1/2	2,738.66	1/2	2,409.24
3/4		3/4	4,437.70	3/4	4,259.55	3/4	4,069.04	3/4	3,868.52	3/4	3,666.61	3/4	3,390.40	3/4	3,061.10	3/4	2,731.80	3/4	2,402.37
6		6	4,434.14	6	4,255.73	6	4,064.95	6	3,864.31	6	3,662.41	6	3,383.54	6	3,054.24	6	2,724.94	6	2,395.51
1/4		1/4	4,430.53	1/4	4,251.89	1/4	4,060.85	1/4	3,860.10	1/4	3,658.20	1/4	3,376.68	1/4	3,047.38	1/4	2,718.08	1/4	2,388.64
1/2		1/2	4,426.92	1/2	4,248.05	1/2	4,056.74	1/2	3,855.90	1/2	3,653.99	1/2	3,369.82	1/2	3,040.52	1/2	2,711.22	1/2	2,381.78
3/4		3/4	4,423.31	3/4	4,244.21	3/4	4,052.63	3/4	3,851.69	3/4	3,649.79	3/4	3,362.95	3/4	3,033.66	3/4	2,704.36	3/4	2,374.91
7		7	4,419.69	7	4,240.37	7	4,048.52	7	3,847.48	7	3,645.58	7	3,356.09	7	3,026.80	7	2,697.50	7	2,368.05
1/4		1/4	4,416.06	1/4	4,236.51	1/4	4,044.40	1/4	3,843.28	1/4	3,641.38	1/4	3,349.23	1/4	3,019.93	1/4	2,690.64	1/4	2,361.18
1/2		1/2	4,412.43	1/2	4,232.66	1/2	4,040.27	1/2	3,839.07	1/2	3,637.17	1/2	3,342.37	1/2	3,013.07	1/2	2,683.78	1/2	2,354.31
3/4		3/4	4,408.80	3/4	4,228.80	3/4	4,036.15	3/4	3,834.87	3/4	3,632.96	3/4	3,335.51	3/4	3,006.21	3/4	2,676.91	3/4	2,347.45
8		8	4,405.17	8	4,224.94	8	4,032.02	8	3,830.66	8	3,628.76	8	3,328.65	8	2,999.35	8	2,670.05	8	2,340.58
1/4		1/4	4,401.52	1/4	4,221.05	1/4	4,027.88	1/4	3,826.45	1/4	3,624.55	1/4	3,321.79	1/4	2,992.49	1/4	2,663.19	1/4	2,333.72
1/2		1/2	4,397.87	1/2	4,217.16	1/2	4,023.73	1/2	3,822.25	1/2	3,620.34	1/2	3,314.93	1/2	2,985.63	1/2	2,656.33	1/2	2,326.85
3/4		3/4	4,394.21	3/4	4,213.27	3/4	4,019.59	3/4	3,818.04	3/4	3,616.14	3/4	3,308.07	3/4	2,978.77	3/4	2,649.47	3/4	2,319.99
9		9	4,390.56	9	4,209.39	9	4,015.44	9	3,813.83	9	3,611.93	9	3,301.21	9	2,971.91	9	2,642.61	9	2,313.12
1/4		1/4	4,386.89	1/4	4,205.45	1/4	4,011.28	1/4	3,809.63	1/4	3,607.73	1/4	3,294.35	1/4	2,965.05	1/4	2,635.75	1/4	2,306.26
1/2		1/2	4,383.23	1/2	4,201.51	1/2	4,007.12	1/2	3,805.42	1/2	3,603.52	1/2	3,287.49	1/2	2,958.19	1/2	2,628.89	1/2	2,299.39
3/4		3/4	4,379.56	3/4	4,197.58	3/4	4,002.95	3/4	3,801.22	3/4	3,599.31	3/4	3,280.63	3/4	2,951.33	3/4	2,622.03	3/4	2,292.53
10		10	4,375.89	10	4,193.64	10	3,998.79	10	3,797.01	10	3,595.11	10	3,273.77	10	2,944.47	10	2,615.17	10	2,285.66
1/4		1/4	4,372.20	1/4	4,189.69	1/4	3,994.61	1/4	3,792.80	1/4	3,590.37	1/4	3,266.91	1/4	2,937.61	1/4	2,608.31	1/4	2,278.80
1/2		1/2	4,368.51	1/2	4,185.73	1/2	3,990.42	1/2	3,788.60	1/2	3,585.63	1/2	3,260.05	1/2	2,930.75	1/2	2,601.45	1/2	2,271.93
3/4		3/4	4,364.82	3/4	4,181.78	3/4	3,986.24	3/4	3,784.39	3/4	3,580.90	3/4	3,253.19	3/4	2,923.89	3/4	2,594.59	3/4	2,265.07
11		11	4,361.13	11	4,177.82	11	3,982.06	11	3,780.18	11	3,575.63	11	3,246.33	11	2,917.03	11	2,587.73	11	2,258.20
1/4		1/4	4,357.42	1/4	4,173.85	1/4	3,977.86	1/4	3,775.98	1/4	3,568.77	1/4	3,239.47	1/4	2,910.17	1/4	2,580.86	1/4	2,251.34
1/2		1/2	4,353.72	1/2	4,169.87	1/2	3,973.66	1/2	3,771.77	1/2	3,561.91	1/2	3,232.61	1/2	2,903.31	1/2	2,574.00	1/2	2,244.47
3/4		3/4	4,350.01	3/4	4,165.90	3/4	3,969.46	3/4	3,767.56	3/4	3,555.05	3/4	3,225.75	3/4	2,896.45	3/4	2,567.13	3/4	2,237.61

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 TO TOP OF 2" HERMETIC CLOSED GAUGING VALVE.
 GAUGE POINT: (HERMETIC) LOCATED 10'-06" OFF CENTERLINE AND 41'-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 "CTCO 254"

3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-09"

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.	
IN		IN		IN		IN		IN		IN		IN		IN		IN		IN	
0	2,230.74	0	1,901.33	0	1,571.81	0	1,242.29	0	912.98	0	583.73	0	254.26	0		0		0	
1/4	2,223.88	1/4	1,894.46	1/4	1,564.95	1/4	1,235.43	1/4	906.12	1/4	576.87	1/4	247.39	1/4	1/4	1/4		1/4	
1/2	2,217.01	1/2	1,887.60	1/2	1,558.08	1/2	1,228.56	1/2	899.27	1/2	570.01	1/2	240.53	1/2	1/2	1/2		1/2	
3/4	2,210.15	3/4	1,880.74	3/4	1,551.22	3/4	1,221.70	3/4	892.42	3/4	563.14	3/4	233.66	3/4	3/4	3/4		3/4	
1	2,203.28	1	1,873.87	1	1,544.35	1	1,214.83	1	885.56	1	556.28	1	226.80	1	1	1		1	
1/4	2,196.42	1/4	1,867.01	1/4	1,537.49	1/4	1,207.97	1/4	878.71	1/4	549.41	1/4	219.93	1/4	1/4	1/4		1/4	
1/2	2,189.55	1/2	1,860.14	1/2	1,530.62	1/2	1,201.10	1/2	871.86	1/2	542.55	1/2	213.07	1/2	1/2	1/2		1/2	
3/4	2,182.69	3/4	1,853.28	3/4	1,523.76	3/4	1,194.24	3/4	865.00	3/4	535.68	3/4	206.20	3/4	3/4	3/4		3/4	
2	2,175.82	2	1,846.41	2	1,516.89	2	1,187.37	2	858.15	2	528.82	2	199.34	2	2	2		2	
1/4	2,168.96	1/4	1,839.55	1/4	1,510.03	1/4	1,180.51	1/4	851.30	1/4	521.95	1/4	192.47	1/4	1/4	1/4		1/4	
1/2	2,162.09	1/2	1,832.68	1/2	1,503.16	1/2	1,173.64	1/2	844.44	1/2	515.09	1/2	185.61	1/2	1/2	1/2		1/2	
3/4	2,155.23	3/4	1,825.82	3/4	1,496.30	3/4	1,166.78	3/4	837.59	3/4	508.22	3/4	178.74	3/4	3/4	3/4		3/4	
3	2,148.36	3	1,818.95	3	1,489.43	3	1,159.91	3	830.74	3	501.36	3	171.88	3	3	3		3	
1/4	2,141.50	1/4	1,812.09	1/4	1,482.57	1/4	1,153.05	1/4	823.89	1/4	494.49	1/4	165.01	1/4	1/4	1/4		1/4	
1/2	2,134.63	1/2	1,805.22	1/2	1,475.70	1/2	1,146.18	1/2	817.03	1/2	487.63	1/2	158.15	1/2	1/2	1/2		1/2	
3/4	2,127.77	3/4	1,798.36	3/4	1,468.84	3/4	1,139.32	3/4	810.18	3/4	480.76	3/4	151.29	3/4	3/4	3/4		3/4	
4	2,120.90	4	1,791.49	4	1,461.97	4	1,132.45	4	803.33	4	473.90	4	144.42	4	4	4		4	
1/4	2,114.04	1/4	1,784.63	1/4	1,455.11	1/4	1,125.59	1/4	796.47	1/4	467.03	1/4	137.56	1/4	1/4	1/4		1/4	
1/2	2,107.17	1/2	1,777.76	1/2	1,448.24	1/2	1,118.72	1/2	789.62	1/2	460.17	1/2	130.70	1/2	1/2	1/2		1/2	
3/4	2,100.31	3/4	1,770.90	3/4	1,441.38	3/4	1,111.86	3/4	782.77	3/4	453.31	3/4	123.84	3/4	3/4	3/4		3/4	
5	2,093.44	5	1,764.03	5	1,434.51	5	1,104.99	5	775.91	5	446.44	5	116.98	5	5	5		5	
1/4	2,086.58	1/4	1,757.17	1/4	1,427.65	1/4	1,098.13	1/4	769.06	1/4	439.58	1/4	110.13	1/4	1/4	1/4		1/4	
1/2	2,079.72	1/2	1,750.30	1/2	1,420.78	1/2	1,091.26	1/2	762.20	1/2	432.71	1/2	103.28	1/2	1/2	1/2		1/2	
3/4	2,072.86	3/4	1,743.44	3/4	1,413.92	3/4	1,084.40	3/4	755.34	3/4	425.85	3/4	96.43	3/4	3/4	3/4		3/4	
6	2,066.00	6	1,736.57	6	1,407.05	6	1,077.53	6	748.49	6	418.98	6	89.58	6	6	6		6	
1/4	2,059.14	1/4	1,729.71	1/4	1,400.19	1/4	1,070.67	1/4	741.62	1/4	412.12	1/4	82.92	1/4	1/4	1/4		1/4	
1/2	2,052.28	1/2	1,722.84	1/2	1,393.32	1/2	1,063.80	1/2	734.76	1/2	405.25	1/2	76.25	1/2	1/2	1/2		1/2	
3/4	2,045.42	3/4	1,715.98	3/4	1,386.46	3/4	1,056.94	3/4	727.89	3/4	398.39	3/4	69.59	3/4	3/4	3/4		3/4	
7	2,038.55	7	1,709.11	7	1,379.59	7	1,050.07	7	721.03	7	391.52	7	62.92	7	7	7		7	
1/4	2,031.69	1/4	1,702.25	1/4	1,372.73	1/4	1,043.21	1/4	714.16	1/4	384.66	1/4	57.09	1/4	1/4	1/4		1/4	
1/2	2,024.83	1/2	1,695.38	1/2	1,365.86	1/2	1,036.35	1/2	707.30	1/2	377.80	1/2	51.25	1/2	1/2	1/2		1/2	
3/4	2,017.97	3/4	1,688.52	3/4	1,359.00	3/4	1,029.49	3/4	700.43	3/4	370.93	3/4	45.42	3/4	3/4	3/4		3/4	
8	2,011.11	8	1,681.65	8	1,352.13	8	1,022.63	8	693.57	8	364.07	8	39.59	8	8	8		8	
1/4	2,004.25	1/4	1,674.79	1/4	1,345.27	1/4	1,015.77	1/4	686.71	1/4	357.21	1/4	35.13	1/4	1/4	1/4		1/4	
1/2	1,997.39	1/2	1,667.92	1/2	1,338.40	1/2	1,008.92	1/2	679.84	1/2	350.34	1/2	30.66	1/2	1/2	1/2		1/2	
3/4	1,990.52	3/4	1,661.06	3/4	1,331.54	3/4	1,002.07	3/4	672.98	3/4	343.48	3/4	26.20	3/4	3/4	3/4		3/4	
9	1,983.66	9	1,654.19	9	1,324.67	9	995.21	9	666.11	9	336.62	9	21.74	9	9	9		9	
1/4	1,976.80	1/4	1,647.33	1/4	1,317.81	1/4	988.36	1/4	659.25	1/4	329.76	1/4		1/4	1/4	1/4		1/4	
1/2	1,969.94	1/2	1,640.46	1/2	1,310.94	1/2	981.51	1/2	652.38	1/2	322.90	1/2		1/2	1/2	1/2		1/2	
3/4	1,963.08	3/4	1,633.60	3/4	1,304.08	3/4	974.65	3/4	645.52	3/4	316.04	3/4		3/4	3/4	3/4		3/4	
10	1,956.22	10	1,626.73	10	1,297.21	10	967.80	10	638.65	10	309.17	10		10	10	10		10	
1/4	1,949.36	1/4	1,619.87	1/4	1,290.35	1/4	960.95	1/4	631.79	1/4	302.31	1/4		1/4	1/4	1/4		1/4	
1/2	1,942.50	1/2	1,613.00	1/2	1,283.48	1/2	954.09	1/2	624.92	1/2	295.44	1/2		1/2	1/2	1/2		1/2	
3/4	1,935.63	3/4	1,606.14	3/4	1,276.62	3/4	947.24	3/4	618.06	3/4	288.58	3/4		3/4	3/4	3/4		3/4	
11	1,928.77	11	1,599.27	11	1,269.75	11	940.39	11	611.19	11	281.72	11		11	11	11		11	
1/4	1,921.91	1/4	1,592.41	1/4	1,262.89	1/4	933.54	1/4	604.33	1/4	274.85	1/4		1/4	1/4	1/4		1/4	
1/2	1,915.05	1/2	1,585.54	1/2	1,256.02	1/2	926.68	1/2	597.46	1/2	267.99	1/2		1/2	1/2	1/2		1/2	
3/4	1,908.19	3/4	1,578.68	3/4	1,249.16	3/4	919.83	3/4	590.60	3/4	261.12	3/4		3/4	3/4	3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 07/31/2013 SW
CALCULATED: 08/01/2013 CL
PRINTED: 08/02/2013 SW

PRECISION MEASUREMENT
& ANALYSIS, INC.
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CANCELS AND SUPERCEDES
ALL PRIOR TO 08/2013



BARGE "CTCO 254"

3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-08 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	4,317.72	0	4,133.07	0	3,936.19	0	3,734.29	0	3,516.47	0	3,187.82	0	2,860.14	0	2,531.56
1/4		1/4	4,481.83	1/4	4,313.99	1/4	4,129.08	1/4	3,931.99	1/4	3,730.09	1/4	3,509.60	1/4	3,180.98	1/4	2,853.30	1/4	2,524.71
1/2		1/2	4,479.57	1/2	4,310.26	1/2	4,125.08	1/2	3,927.78	1/2	3,725.88	1/2	3,502.74	1/2	3,174.13	1/2	2,846.45	1/2	2,517.86
3/4		3/4	4,477.30	3/4	4,306.54	3/4	4,121.09	3/4	3,923.58	3/4	3,721.67	3/4	3,495.88	3/4	3,167.29	3/4	2,839.61	3/4	2,511.01
1		1	4,474.36	1	4,302.79	1	4,117.08	1	3,919.37	1	3,717.47	1	3,489.03	1	3,160.44	1	2,832.76	1	2,504.16
1/4		1/4	4,471.41	1/4	4,299.05	1/4	4,113.07	1/4	3,915.16	1/4	3,713.26	1/4	3,482.17	1/4	3,153.60	1/4	2,825.92	1/4	2,497.31
1/2		1/2	4,468.46	1/2	4,295.30	1/2	4,109.05	1/2	3,910.96	1/2	3,709.05	1/2	3,475.32	1/2	3,146.75	1/2	2,819.07	1/2	2,490.46
3/4		3/4	4,465.51	3/4	4,291.56	3/4	4,105.04	3/4	3,906.75	3/4	3,704.85	3/4	3,468.46	3/4	3,139.91	3/4	2,812.23	3/4	2,483.62
2		2	4,462.03	2	4,287.79	2	4,101.01	2	3,902.54	2	3,700.64	2	3,461.61	2	3,133.07	2	2,805.38	2	2,476.77
1/4		1/4	4,458.54	1/4	4,284.03	1/4	4,096.98	1/4	3,898.34	1/4	3,696.44	1/4	3,454.77	1/4	3,126.24	1/4	2,798.54	1/4	2,469.92
1/2		1/2	4,455.06	1/2	4,280.26	1/2	4,092.95	1/2	3,894.13	1/2	3,692.23	1/2	3,447.92	1/2	3,119.40	1/2	2,791.69	1/2	2,463.07
3/4		3/4	4,451.58	3/4	4,276.50	3/4	4,088.92	3/4	3,889.93	3/4	3,688.02	3/4	3,441.08	3/4	3,112.56	3/4	2,784.85	3/4	2,456.22
3		3	4,448.07	3	4,272.72	3	4,084.87	3	3,885.72	3	3,683.82	3	3,434.24	3	3,105.76	3	2,778.00	3	2,449.37
1/4		1/4	4,444.57	1/4	4,268.93	1/4	4,080.82	1/4	3,881.51	1/4	3,679.61	1/4	3,427.39	1/4	3,098.95	1/4	2,771.16	1/4	2,442.52
1/2		1/2	4,441.07	1/2	4,265.15	1/2	4,076.77	1/2	3,877.31	1/2	3,675.40	1/2	3,420.55	1/2	3,092.14	1/2	2,764.31	1/2	2,435.67
3/4		3/4	4,437.57	3/4	4,261.37	3/4	4,072.72	3/4	3,873.10	3/4	3,671.20	3/4	3,413.70	3/4	3,085.33	3/4	2,757.47	3/4	2,428.82
4		4	4,434.05	4	4,257.56	4	4,068.65	4	3,868.89	4	3,666.99	4	3,406.86	4	3,078.52	4	2,750.62	4	2,421.97
1/4		1/4	4,430.53	1/4	4,253.76	1/4	4,064.58	1/4	3,864.69	1/4	3,662.79	1/4	3,400.01	1/4	3,071.71	1/4	2,743.78	1/4	2,415.12
1/2		1/2	4,427.01	1/2	4,249.96	1/2	4,060.51	1/2	3,860.48	1/2	3,658.58	1/2	3,393.17	1/2	3,064.90	1/2	2,736.93	1/2	2,408.27
3/4		3/4	4,423.49	3/4	4,246.16	3/4	4,056.44	3/4	3,856.27	3/4	3,654.37	3/4	3,386.32	3/4	3,058.10	3/4	2,730.09	3/4	2,401.42
5		5	4,419.94	5	4,242.34	5	4,052.36	5	3,852.07	5	3,650.17	5	3,379.48	5	3,051.29	5	2,723.24	5	2,394.57
1/4		1/4	4,416.39	1/4	4,238.52	1/4	4,048.27	1/4	3,847.86	1/4	3,645.96	1/4	3,372.63	1/4	3,044.48	1/4	2,716.40	1/4	2,387.72
1/2		1/2	4,412.84	1/2	4,234.69	1/2	4,044.18	1/2	3,843.66	1/2	3,641.75	1/2	3,365.79	1/2	3,037.67	1/2	2,709.56	1/2	2,380.87
3/4		3/4	4,409.28	3/4	4,230.87	3/4	4,040.09	3/4	3,839.45	3/4	3,637.55	3/4	3,358.94	3/4	3,030.86	3/4	2,702.71	3/4	2,374.02
6		6	4,405.67	6	4,227.03	6	4,035.99	6	3,835.24	6	3,633.34	6	3,352.10	6	3,024.05	6	2,695.87	6	2,367.18
1/4		1/4	4,402.06	1/4	4,223.19	1/4	4,031.88	1/4	3,831.04	1/4	3,629.13	1/4	3,345.25	1/4	3,017.24	1/4	2,689.02	1/4	2,360.33
1/2		1/2	4,398.45	1/2	4,219.35	1/2	4,027.77	1/2	3,826.83	1/2	3,624.93	1/2	3,338.41	1/2	3,010.44	1/2	2,682.18	1/2	2,353.48
3/4		3/4	4,394.83	3/4	4,215.51	3/4	4,023.66	3/4	3,822.62	3/4	3,620.72	3/4	3,331.56	3/4	3,003.63	3/4	2,675.33	3/4	2,346.63
7		7	4,391.20	7	4,211.65	7	4,019.54	7	3,818.42	7	3,616.52	7	3,324.72	7	2,996.82	7	2,668.49	7	2,339.78
1/4		1/4	4,387.57	1/4	4,207.80	1/4	4,015.41	1/4	3,814.21	1/4	3,612.31	1/4	3,317.87	1/4	2,990.01	1/4	2,661.64	1/4	2,332.93
1/2		1/2	4,383.94	1/2	4,203.94	1/2	4,011.29	1/2	3,810.01	1/2	3,608.10	1/2	3,311.03	1/2	2,983.20	1/2	2,654.80	1/2	2,326.08
3/4		3/4	4,380.31	3/4	4,200.08	3/4	4,007.16	3/4	3,805.80	3/4	3,603.90	3/4	3,304.18	3/4	2,976.39	3/4	2,647.95	3/4	2,319.23
8		8	4,376.66	8	4,196.19	8	4,003.02	8	3,801.59	8	3,599.69	8	3,297.34	8	2,969.58	8	2,641.11	8	2,312.38
1/4		1/4	4,373.01	1/4	4,192.30	1/4	3,998.87	1/4	3,797.39	1/4	3,595.48	1/4	3,290.49	1/4	2,962.76	1/4	2,634.26	1/4	2,305.53
1/2		1/2	4,369.35	1/2	4,188.41	1/2	3,994.73	1/2	3,793.18	1/2	3,591.28	1/2	3,283.65	1/2	2,955.94	1/2	2,627.42	1/2	2,298.68
3/4		3/4	4,365.70	3/4	4,184.53	3/4	3,990.58	3/4	3,788.97	3/4	3,587.07	3/4	3,276.80	3/4	2,949.12	3/4	2,620.57	3/4	2,291.83
9		9	4,362.03	9	4,180.59	9	3,986.42	9	3,784.77	9	3,582.87	9	3,269.96	9	2,942.28	9	2,613.73	9	2,284.98
1/4		1/4	4,358.37	1/4	4,176.65	1/4	3,982.26	1/4	3,780.56	1/4	3,578.66	1/4	3,263.12	1/4	2,935.43	1/4	2,606.88	1/4	2,278.13
1/2		1/2	4,354.70	1/2	4,172.72	1/2	3,978.09	1/2	3,776.36	1/2	3,574.45	1/2	3,256.27	1/2	2,928.59	1/2	2,600.04	1/2	2,271.28
3/4		3/4	4,351.03	3/4	4,168.78	3/4	3,973.93	3/4	3,772.15	3/4	3,570.25	3/4	3,249.43	3/4	2,921.74	3/4	2,593.19	3/4	2,264.43
10		10	4,347.34	10	4,164.83	10	3,969.75	10	3,767.94	10	3,565.51	10	3,242.58	10	2,914.90	10	2,586.35	10	2,257.59
1/4		1/4	4,343.65	1/4	4,160.87	1/4	3,965.56	1/4	3,763.74	1/4	3,560.77	1/4	3,235.74	1/4	2,908.05	1/4	2,579.50	1/4	2,250.74
1/2		1/2	4,339.96	1/2	4,156.92	1/2	3,961.38	1/2	3,759.53	1/2	3,556.04	1/2	3,228.89	1/2	2,901.21	1/2	2,572.65	1/2	2,243.89
3/4		3/4	4,336.27	3/4	4,152.96	3/4	3,957.20	3/4	3,755.32	3/4	3,550.77	3/4	3,222.05	3/4	2,894.36	3/4	2,565.81	3/4	2,237.04
11		11	4,332.57	11	4,148.99	11	3,953.00	11	3,751.12	11	3,543.91	11	3,215.20	11	2,887.52	11	2,558.96	11	2,230.19
1/4		1/4	4,328.86	1/4	4,145.01	1/4	3,948.80	1/4	3,746.91	1/4	3,537.05	1/4	3,208.36	1/4	2,880.68	1/4	2,552.11	1/4	2,223.34
1/2		1/2	4,325.15	1/2	4,141.04	1/2	3,944.60	1/2	3,742.70	1/2	3,530.19	1/2	3,201.51	1/2	2,873.83	1/2	2,545.26	1/2	2,216.49
3/4		3/4	4,321.44	3/4	4,137.06	3/4	3,940.40	3/4	3,738.50	3/4	3,523.33	3/4	3,194.67	3/4	2,866.99	3/4	2,538.41	3/4	2,209.64

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP OF 2" HERMETIC CLOSED GAUGING VALVE.
 GAUGE POINT: (HERMETIC) LOCATED 10'-06" OFF CENTERLINE AND 41'-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 "CTCO 254"

3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-08 3/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,202.79	0	1,874.14	0	1,545.60	0	1,217.06	0	896.51	0	576.66	0	247.41	0		0		0	
1/4	2,195.94	1/4	1,867.30	1/4	1,538.76	1/4	1,210.22	1/4	890.00	1/4	569.81	1/4	240.55	1/4	1/4		1/4		1/4
1/2	2,189.09	1/2	1,860.45	1/2	1,531.91	1/2	1,203.37	1/2	883.49	1/2	562.96	1/2	233.68	1/2	1/2		1/2		1/2
3/4	2,182.24	3/4	1,853.61	3/4	1,525.07	3/4	1,196.53	3/4	876.98	3/4	556.10	3/4	226.82	3/4	3/4		3/4		3/4
1	2,175.39	1	1,846.77	1	1,518.22	1	1,189.68	1	870.47	1	549.25	1	219.95	1	1		1		1
1/4	2,168.54	1/4	1,839.92	1/4	1,511.38	1/4	1,182.84	1/4	863.96	1/4	542.40	1/4	213.09	1/4	1/4		1/4		1/4
1/2	2,161.69	1/2	1,833.08	1/2	1,504.54	1/2	1,175.99	1/2	857.45	1/2	535.54	1/2	206.22	1/2	1/2		1/2		1/2
3/4	2,154.84	3/4	1,826.23	3/4	1,497.69	3/4	1,169.15	3/4	850.94	3/4	528.69	3/4	199.35	3/4	3/4		3/4		3/4
2	2,147.99	2	1,819.39	2	1,490.85	2	1,162.31	2	844.43	2	521.84	2	192.49	2	2		2		2
1/4	2,141.15	1/4	1,812.54	1/4	1,484.00	1/4	1,155.47	1/4	837.92	1/4	514.98	1/4	185.62	1/4	1/4		1/4		1/4
1/2	2,134.30	1/2	1,805.70	1/2	1,477.16	1/2	1,148.63	1/2	831.41	1/2	508.13	1/2	178.76	1/2	1/2		1/2		1/2
3/4	2,127.45	3/4	1,798.85	3/4	1,470.31	3/4	1,141.79	3/4	824.90	3/4	501.28	3/4	171.89	3/4	3/4		3/4		3/4
3	2,120.60	3	1,792.01	3	1,463.47	3	1,134.95	3	818.39	3	494.42	3	165.03	3	3		3		3
1/4	2,113.75	1/4	1,785.16	1/4	1,456.62	1/4	1,128.12	1/4	811.88	1/4	487.57	1/4	158.17	1/4	1/4		1/4		1/4
1/2	2,106.90	1/2	1,778.32	1/2	1,449.78	1/2	1,121.29	1/2	805.37	1/2	480.72	1/2	151.30	1/2	1/2		1/2		1/2
3/4	2,100.05	3/4	1,771.47	3/4	1,442.93	3/4	1,114.46	3/4	798.86	3/4	473.86	3/4	144.44	3/4	3/4		3/4		3/4
4	2,093.20	4	1,764.63	4	1,436.09	4	1,107.63	4	792.35	4	467.01	4	137.57	4	4		4		4
1/4	2,086.35	1/4	1,757.79	1/4	1,429.24	1/4	1,100.80	1/4	785.84	1/4	460.15	1/4	130.71	1/4	1/4		1/4		1/4
1/2	2,079.50	1/2	1,750.94	1/2	1,422.40	1/2	1,093.97	1/2	779.33	1/2	453.30	1/2	123.85	1/2	1/2		1/2		1/2
3/4	2,072.65	3/4	1,744.10	3/4	1,415.56	3/4	1,087.14	3/4	772.82	3/4	446.44	3/4	116.99	3/4	3/4		3/4		3/4
5	2,065.80	5	1,737.25	5	1,408.71	5	1,080.32	5	766.31	5	439.58	5	110.14	5	5		5		5
1/4	2,058.95	1/4	1,730.41	1/4	1,401.87	1/4	1,073.50	1/4	759.80	1/4	432.72	1/4	103.29	1/4	1/4		1/4		1/4
1/2	2,052.11	1/2	1,723.56	1/2	1,395.02	1/2	1,066.68	1/2	753.29	1/2	425.86	1/2	96.44	1/2	1/2		1/2		1/2
3/4	2,045.26	3/4	1,716.72	3/4	1,388.18	3/4	1,059.86	3/4	746.78	3/4	419.00	3/4	89.60	3/4	3/4		3/4		3/4
6	2,038.41	6	1,709.87	6	1,381.33	6	1,053.14	6	740.20	6	412.14	6	82.93	6	6		6		6
1/4	2,031.57	1/4	1,703.03	1/4	1,374.49	1/4	1,046.43	1/4	733.61	1/4	405.27	1/4	76.26	1/4	1/4		1/4		1/4
1/2	2,024.72	1/2	1,696.18	1/2	1,367.64	1/2	1,039.71	1/2	727.03	1/2	398.41	1/2	69.60	1/2	1/2		1/2		1/2
3/4	2,017.88	3/4	1,689.34	3/4	1,360.80	3/4	1,033.00	3/4	720.44	3/4	391.54	3/4	62.93	3/4	3/4		3/4		3/4
7	2,011.04	7	1,682.49	7	1,353.95	7	1,026.50	7	713.62	7	384.68	7	57.10	7	7		7		7
1/4	2,004.19	1/4	1,675.65	1/4	1,347.11	1/4	1,020.01	1/4	706.81	1/4	377.81	1/4	51.26	1/4	1/4		1/4		1/4
1/2	1,997.35	1/2	1,668.81	1/2	1,340.26	1/2	1,013.51	1/2	699.99	1/2	370.95	1/2	45.43	1/2	1/2		1/2		1/2
3/4	1,990.50	3/4	1,661.96	3/4	1,333.42	3/4	1,007.01	3/4	693.17	3/4	364.09	3/4	39.60	3/4	3/4		3/4		3/4
8	1,983.66	8	1,655.12	8	1,326.58	8	1,000.52	8	686.32	8	357.23	8	35.14	8	8		8		8
1/4	1,976.81	1/4	1,648.27	1/4	1,319.73	1/4	994.02	1/4	679.46	1/4	350.36	1/4	30.67	1/4	1/4		1/4		1/4
1/2	1,969.97	1/2	1,641.43	1/2	1,312.89	1/2	987.53	1/2	672.61	1/2	343.50	1/2	26.21	1/2	1/2		1/2		1/2
3/4	1,963.12	3/4	1,634.58	3/4	1,306.04	3/4	981.03	3/4	665.76	3/4	336.64	3/4	21.75	3/4	3/4		3/4		3/4
9	1,956.28	9	1,627.74	9	1,299.20	9	974.54	9	658.90	9	329.78	9		9	9		9		9
1/4	1,949.43	1/4	1,620.89	1/4	1,292.35	1/4	968.04	1/4	652.05	1/4	322.92	1/4		1/4	1/4		1/4		1/4
1/2	1,942.59	1/2	1,614.05	1/2	1,285.51	1/2	961.55	1/2	645.20	1/2	316.06	1/2		1/2	1/2		1/2		1/2
3/4	1,935.74	3/4	1,607.20	3/4	1,278.66	3/4	955.05	3/4	638.34	3/4	309.19	3/4		3/4	3/4		3/4		3/4
10	1,928.90	10	1,600.36	10	1,271.82	10	948.55	10	631.49	10	302.33	10		10	10		10		10
1/4	1,922.06	1/4	1,593.51	1/4	1,264.97	1/4	942.05	1/4	624.64	1/4	295.46	1/4		1/4	1/4		1/4		1/4
1/2	1,915.21	1/2	1,586.67	1/2	1,258.13	1/2	935.56	1/2	617.78	1/2	288.60	1/2		1/2	1/2		1/2		1/2
3/4	1,908.37	3/4	1,579.83	3/4	1,251.28	3/4	929.06	3/4	610.93	3/4	281.74	3/4		3/4	3/4		3/4		3/4
11	1,901.52	11	1,572.98	11	1,244.44	11	922.55	11	604.08	11	274.87	11		11	11		11		11
1/4	1,894.68	1/4	1,566.14	1/4	1,237.60	1/4	916.04	1/4	597.22	1/4	268.01	1/4		1/4	1/4		1/4		1/4
1/2	1,887.83	1/2	1,559.29	1/2	1,230.75	1/2	909.53	1/2	590.37	1/2	261.14	1/2		1/2	1/2		1/2		1/2
3/4	1,880.99	3/4	1,552.45	3/4	1,223.91	3/4	903.02	3/4	583.52	3/4	254.28	3/4		3/4	3/4		3/4		3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 07/31/2013 SW
CALCULATED: 08/01/2013 CL
PRINTED: 08/02/2013 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 08/2013

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