



# BARGE "MM 136"

## ULLAGE (HERMETIC)

	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	00-0/8	00-0/8	00-0/8	00-0/8	00-0/8	00-0/8	00-0/8	00-0/8	00-0/8	00-0/8	00-0/8	00-0/8
1 STBD	00-0/8	00-0/8	00-0/8	00-0/8	00-0/8	00-0/8	00-0/8	00-0/8	00-0/8	00-0/8	00-0/8	00-0/8
2 PORT	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8
2 STBD	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8
3 PORT	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8
3 STBD	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

FWD. DRAFT = 2'-00"  
 AFT DRAFT = 6'-00"  
 DIFF. = 4'-00" (DOWN BY STERN)

THE CORRECTION FOR 2'-00" TRIM DOWN BY STERN FOR 3 PORT IS - 00-1/8"  
 FOR A MEASURED ULLAGE GAUGE OF 4'-00" ON 3 PORT, THE TRIM CORRECTED ULLAGE IS 3'-11 7/8"

LENGTH BETWEEN DRAFT MARKS: 235'-00"

July 21, 2014

**PRECISION MEASUREMENT  
& ANALYSIS, INC.**  
 P.O. Box 2092  
 Pearland, Texas 77588

<http://www.pmacorp.net>



# BARGE "MM 136"

## 1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-05"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
0		0	5,189.19	0	4,874.45	0	4,508.26	0	4,142.07	0	3,775.87	0	3,409.68	0	3,043.49	0	2,677.30	0	2,311.11
1/4	1/4	1/4	5,186.37	1/4	4,866.82	1/4	4,500.63	1/4	4,134.44	1/4	3,768.24	1/4	3,402.05	1/4	3,035.86	1/4	2,669.67	1/4	2,303.48
1/2	1/2	1/2	5,183.55	1/2	4,859.19	1/2	4,493.00	1/2	4,126.81	1/2	3,760.62	1/2	3,394.43	1/2	3,028.23	1/2	2,662.04	1/2	2,295.85
3/4	3/4	3/4	5,180.72	3/4	4,851.56	3/4	4,485.37	3/4	4,119.18	3/4	3,752.99	3/4	3,386.80	3/4	3,020.60	3/4	2,654.41	3/4	2,288.22
1		1	5,177.90	1	4,843.93	1	4,477.74	1	4,111.55	1	3,745.36	1	3,379.17	1	3,012.97	1	2,646.78	1	2,280.59
1/4	1/4	1/4	5,173.95	1/4	4,836.30	1/4	4,470.11	1/4	4,103.92	1/4	3,737.73	1/4	3,371.54	1/4	3,005.34	1/4	2,639.15	1/4	2,272.96
1/2	1/2	1/2	5,170.00	1/2	4,828.68	1/2	4,462.49	1/2	4,096.29	1/2	3,730.10	1/2	3,363.91	1/2	2,997.72	1/2	2,631.53	1/2	2,265.33
3/4	3/4	3/4	5,166.04	3/4	4,821.05	3/4	4,454.86	3/4	4,088.66	3/4	3,722.47	3/4	3,356.28	3/4	2,990.09	3/4	2,623.90	3/4	2,257.70
2		2	5,162.09	2	4,813.42	2	4,447.23	2	4,081.03	2	3,714.84	2	3,348.65	2	2,982.46	2	2,616.27	2	2,250.07
1/4	1/4	1/4	5,157.01	1/4	4,805.79	1/4	4,439.60	1/4	4,073.40	1/4	3,707.21	1/4	3,341.02	1/4	2,974.83	1/4	2,608.64	1/4	2,242.44
1/2	1/2	1/2	5,151.92	1/2	4,798.16	1/2	4,431.97	1/2	4,065.78	1/2	3,699.59	1/2	3,333.39	1/2	2,967.20	1/2	2,601.01	1/2	2,234.81
3/4	3/4	3/4	5,146.84	3/4	4,790.53	3/4	4,424.34	3/4	4,058.15	3/4	3,691.96	3/4	3,325.76	3/4	2,959.57	3/4	2,593.38	3/4	2,227.19
3		3	5,141.75	3	4,782.90	3	4,416.71	3	4,050.52	3	3,684.33	3	3,318.13	3	2,951.94	3	2,585.75	3	2,219.56
1/4	1/4	1/4	5,135.53	1/4	4,775.27	1/4	4,409.08	1/4	4,042.89	1/4	3,676.70	1/4	3,310.50	1/4	2,944.31	1/4	2,578.12	1/4	2,211.93
1/2	1/2	1/2	5,129.32	1/2	4,767.65	1/2	4,401.45	1/2	4,035.26	1/2	3,669.07	1/2	3,302.88	1/2	2,936.69	1/2	2,570.49	1/2	2,204.30
3/4	3/4	3/4	5,123.10	3/4	4,760.02	3/4	4,393.82	3/4	4,027.63	3/4	3,661.44	3/4	3,295.25	3/4	2,929.06	3/4	2,562.86	3/4	2,196.67
4		4	5,116.88	4	4,752.39	4	4,386.19	4	4,020.00	4	3,653.81	4	3,287.62	4	2,921.43	4	2,555.23	4	2,189.04
1/4	1/4	1/4	5,109.68	1/4	4,744.76	1/4	4,378.56	1/4	4,012.37	1/4	3,646.18	1/4	3,279.99	1/4	2,913.80	1/4	2,547.60	1/4	2,181.41
1/2	1/2	1/2	5,102.47	1/2	4,737.13	1/2	4,370.94	1/2	4,004.75	1/2	3,638.55	1/2	3,272.36	1/2	2,906.17	1/2	2,539.97	1/2	2,173.78
3/4	3/4	3/4	5,095.27	3/4	4,729.50	3/4	4,363.31	3/4	3,997.12	3/4	3,630.92	3/4	3,264.73	3/4	2,898.54	3/4	2,532.35	3/4	2,166.16
5		5	5,088.06	5	4,721.87	5	4,355.68	5	3,989.49	5	3,623.29	5	3,257.10	5	2,890.91	5	2,524.72	5	2,158.53
1/4	1/4	1/4	5,080.43	1/4	4,714.24	1/4	4,348.05	1/4	3,981.86	1/4	3,615.66	1/4	3,249.47	1/4	2,883.28	1/4	2,517.09	1/4	2,150.90
1/2	1/2	1/2	5,072.81	1/2	4,706.61	1/2	4,340.42	1/2	3,974.23	1/2	3,608.04	1/2	3,241.85	1/2	2,875.65	1/2	2,509.46	1/2	2,143.27
3/4	3/4	3/4	5,065.18	3/4	4,698.98	3/4	4,332.79	3/4	3,966.60	3/4	3,600.41	3/4	3,234.22	3/4	2,868.02	3/4	2,501.83	3/4	2,135.64
6		6	5,057.55	6	4,691.35	6	4,325.16	6	3,958.97	6	3,592.78	6	3,226.59	6	2,860.39	6	2,494.20	6	2,128.01
1/4	1/4	1/4	5,049.92	1/4	4,683.72	1/4	4,317.53	1/4	3,951.34	1/4	3,585.15	1/4	3,218.96	1/4	2,852.76	1/4	2,486.57	1/4	2,120.38
1/2	1/2	1/2	5,042.29	1/2	4,676.10	1/2	4,309.91	1/2	3,943.71	1/2	3,577.52	1/2	3,211.33	1/2	2,845.14	1/2	2,478.94	1/2	2,112.75
3/4	3/4	3/4	5,034.66	3/4	4,668.47	3/4	4,302.28	3/4	3,936.08	3/4	3,569.89	3/4	3,203.70	3/4	2,837.51	3/4	2,471.32	3/4	2,105.12
7		7	5,027.03	7	4,660.84	7	4,294.65	7	3,928.45	7	3,562.26	7	3,196.07	7	2,829.88	7	2,463.69	7	2,097.49
1/4	1/4	1/4	5,019.40	1/4	4,653.21	1/4	4,287.02	1/4	3,920.82	1/4	3,554.63	1/4	3,188.44	1/4	2,822.25	1/4	2,456.06	1/4	2,089.86
1/2	1/2	1/2	5,011.77	1/2	4,645.58	1/2	4,279.39	1/2	3,913.20	1/2	3,547.01	1/2	3,180.81	1/2	2,814.62	1/2	2,448.43	1/2	2,082.23
3/4	3/4	3/4	5,004.14	3/4	4,637.95	3/4	4,271.76	3/4	3,905.57	3/4	3,539.38	3/4	3,173.18	3/4	2,806.99	3/4	2,440.80	3/4	2,074.61
8		8	4,996.51	8	4,630.32	8	4,264.13	8	3,897.94	8	3,531.75	8	3,165.55	8	2,799.36	8	2,433.17	8	2,066.98
1/4	1/4	1/4	4,988.88	1/4	4,622.69	1/4	4,256.50	1/4	3,890.31	1/4	3,524.12	1/4	3,157.92	1/4	2,791.73	1/4	2,425.54	1/4	2,059.35
1/2	1/2	1/2	4,981.26	1/2	4,615.07	1/2	4,248.87	1/2	3,882.68	1/2	3,516.49	1/2	3,150.30	1/2	2,784.11	1/2	2,417.91	1/2	2,051.72
3/4	3/4	3/4	4,973.63	3/4	4,607.44	3/4	4,241.24	3/4	3,875.05	3/4	3,508.86	3/4	3,142.67	3/4	2,776.48	3/4	2,410.28	3/4	2,044.09
9		9	4,966.00	9	4,599.81	9	4,233.61	9	3,867.42	9	3,501.23	9	3,135.04	9	2,768.85	9	2,402.65	9	2,036.46
1/4	1/4	1/4	4,958.37	1/4	4,592.18	1/4	4,225.98	1/4	3,859.79	1/4	3,493.60	1/4	3,127.41	1/4	2,761.22	1/4	2,395.02	1/4	2,028.83
1/2	1/2	1/2	4,950.74	1/2	4,584.55	1/2	4,218.36	1/2	3,852.17	1/2	3,485.97	1/2	3,119.78	1/2	2,753.59	1/2	2,387.39	1/2	2,021.20
3/4	3/4	3/4	4,943.11	3/4	4,576.92	3/4	4,210.73	3/4	3,844.54	3/4	3,478.34	3/4	3,112.15	3/4	2,745.96	3/4	2,379.77	3/4	2,013.58
10	5,198.63	10	4,935.48	10	4,569.29	10	4,203.10	10	3,836.91	10	3,470.71	10	3,104.52	10	2,738.33	10	2,372.14	10	2,005.95
1/4	5,197.96	1/4	4,927.85	1/4	4,561.66	1/4	4,195.47	1/4	3,829.28	1/4	3,463.08	1/4	3,096.89	1/4	2,730.70	1/4	2,364.51	1/4	1,998.32
1/2	5,197.30	1/2	4,920.23	1/2	4,554.03	1/2	4,187.84	1/2	3,821.65	1/2	3,455.46	1/2	3,089.27	1/2	2,723.07	1/2	2,356.88	1/2	1,990.69
3/4	5,196.63	3/4	4,912.60	3/4	4,546.40	3/4	4,180.21	3/4	3,814.02	3/4	3,447.83	3/4	3,081.64	3/4	2,715.44	3/4	2,349.25	3/4	1,983.06
11	5,195.96	11	4,904.97	11	4,538.77	11	4,172.58	11	3,806.39	11	3,440.20	11	3,074.01	11	2,707.81	11	2,341.62	11	1,975.43
1/4	5,194.27	1/4	4,897.34	1/4	4,531.14	1/4	4,164.95	1/4	3,798.76	1/4	3,432.57	1/4	3,066.38	1/4	2,700.18	1/4	2,333.99	1/4	1,967.80
1/2	5,192.58	1/2	4,889.71	1/2	4,523.52	1/2	4,157.33	1/2	3,791.13	1/2	3,424.94	1/2	3,058.75	1/2	2,692.56	1/2	2,326.36	1/2	1,960.17
3/4	5,190.88	3/4	4,882.08	3/4	4,515.89	3/4	4,149.70	3/4	3,783.50	3/4	3,417.31	3/4	3,051.12	3/4	2,684.93	3/4	2,318.74	3/4	1,952.54

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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 LIP OF 2" HERMETIC VALVE.  
GAUGE POINT: (HERMETIC) LOCATED 11'-00" OFF CENTERLINE AND 44'-00" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT  
& ANALYSIS, INC.  
P.O. Box 2092

Pearland, Texas 77588  
<http://www.pmacorp.net>



# BARGE "MM 136"

## 1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GUAGE HEIGHT 15'-05"

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.	
IN		IN		IN		IN		IN		IN		IN		IN		IN		IN	
0	1,944.91	0	1,578.72	0	1,212.53	0	846.34	0	480.47	0	135.96	0		0		0		0	
1/4	1,937.28	1/4	1,571.09	1/4	1,204.90	1/4	838.71	1/4	472.93	1/4	129.17	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,929.65	1/2	1,563.46	1/2	1,197.27	1/2	831.08	1/2	465.40	1/2	122.38	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,922.03	3/4	1,555.84	3/4	1,189.65	3/4	823.45	3/4	457.86	3/4	115.59	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	1,914.40	1	1,548.21	1	1,182.02	1	815.82	1	450.33	1	108.80	1	1	1	1	1	1	1	1
1/4	1,906.77	1/4	1,540.58	1/4	1,174.39	1/4	808.19	1/4	442.89	1/4	102.10	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,899.14	1/2	1,532.95	1/2	1,166.76	1/2	800.56	1/2	435.45	1/2	95.41	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,891.51	3/4	1,525.32	3/4	1,159.13	3/4	792.94	3/4	428.01	3/4	88.71	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	1,883.88	2	1,517.69	2	1,151.50	2	785.31	2	420.57	2	82.02	2	2	2	2	2	2	2	2
1/4	1,876.25	1/4	1,510.06	1/4	1,143.87	1/4	777.68	1/4	413.16	1/4	75.35	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,868.62	1/2	1,502.43	1/2	1,136.24	1/2	770.05	1/2	405.75	1/2	68.69	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,861.00	3/4	1,494.81	3/4	1,128.61	3/4	762.42	3/4	398.35	3/4	62.02	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	1,853.37	3	1,487.18	3	1,120.98	3	754.79	3	390.94	3	55.36	3	3	3	3	3	3	3	3
1/4	1,845.74	1/4	1,479.55	1/4	1,113.35	1/4	747.16	1/4	383.62	1/4	49.43	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,838.11	1/2	1,471.92	1/2	1,105.72	1/2	739.53	1/2	376.30	1/2	43.51	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,830.48	3/4	1,464.29	3/4	1,098.10	3/4	731.91	3/4	368.99	3/4	37.58	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	1,822.85	4	1,456.66	4	1,090.47	4	724.28	4	361.67	4	31.66	4	4	4	4	4	4	4	4
1/4	1,815.22	1/4	1,449.03	1/4	1,082.84	1/4	716.65	1/4	354.38	1/4	27.27	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,807.59	1/2	1,441.40	1/2	1,075.21	1/2	709.02	1/2	347.09	1/2	22.89	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,799.96	3/4	1,433.77	3/4	1,067.58	3/4	701.39	3/4	339.81	3/4	18.50	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	1,792.33	5	1,426.14	5	1,059.95	5	693.76	5	332.52	5	14.12	5	5	5	5	5	5	5	5
1/4	1,784.70	1/4	1,418.51	1/4	1,052.32	1/4	686.13	1/4	325.33	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,777.07	1/2	1,410.88	1/2	1,044.69	1/2	678.50	1/2	318.13	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,769.45	3/4	1,403.26	3/4	1,037.07	3/4	670.87	3/4	310.94	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	1,761.82	6	1,395.63	6	1,029.44	6	663.24	6	303.75	6	6	6	6	6	6	6	6	6	6
1/4	1,754.19	1/4	1,388.00	1/4	1,021.81	1/4	655.61	1/4	296.59	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,746.56	1/2	1,380.37	1/2	1,014.18	1/2	647.98	1/2	289.42	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,738.93	3/4	1,372.74	3/4	1,006.55	3/4	640.36	3/4	282.26	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	1,731.30	7	1,365.11	7	998.92	7	632.73	7	275.10	7	7	7	7	7	7	7	7	7	7
1/4	1,723.67	1/4	1,357.48	1/4	991.29	1/4	625.10	1/4	268.03	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,716.04	1/2	1,349.85	1/2	983.66	1/2	617.47	1/2	260.96	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,708.42	3/4	1,342.23	3/4	976.03	3/4	609.84	3/4	253.90	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	1,700.79	8	1,334.60	8	968.40	8	602.21	8	246.83	8	8	8	8	8	8	8	8	8	8
1/4	1,693.16	1/4	1,326.97	1/4	960.77	1/4	594.58	1/4	239.79	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,685.53	1/2	1,319.34	1/2	953.14	1/2	586.95	1/2	232.75	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,677.90	3/4	1,311.71	3/4	945.52	3/4	579.33	3/4	225.72	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	1,670.27	9	1,304.08	9	937.89	9	571.70	9	218.68	9	9	9	9	9	9	9	9	9	9
1/4	1,662.64	1/4	1,296.45	1/4	930.26	1/4	564.07	1/4	211.73	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,655.01	1/2	1,288.82	1/2	922.63	1/2	556.44	1/2	204.79	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,647.38	3/4	1,281.19	3/4	915.00	3/4	548.81	3/4	197.84	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	1,639.75	10	1,273.56	10	907.37	10	541.18	10	190.90	10	10	10	10	10	10	10	10	10	10
1/4	1,632.12	1/4	1,265.93	1/4	899.74	1/4	533.57	1/4	183.98	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,624.49	1/2	1,258.30	1/2	892.11	1/2	525.95	1/2	177.07	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,616.87	3/4	1,250.68	3/4	884.49	3/4	518.34	3/4	170.15	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	1,609.24	11	1,243.05	11	876.86	11	510.73	11	163.24	11	11	11	11	11	11	11	11	11	11
1/4	1,601.61	1/4	1,235.42	1/4	869.23	1/4	503.16	1/4	156.42	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,593.98	1/2	1,227.79	1/2	861.60	1/2	495.60	1/2	149.60	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,586.35	3/4	1,220.16	3/4	853.97	3/4	488.03	3/4	142.78	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 07/21/2014 SW  
DECK MEASUREMENTS: 07/25/2014 SW  
PRINTED: 07/25/2014 SW

CANCELS AND SUPERCEDES  
ALL PRIOR TO 07/2014

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



# BARGE "MM 136"

**1 STBD**  
**ULLAGE TABLE**

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-05"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0	5,189.19	0	4,874.45	0	4,508.26	0	4,142.07	0	3,775.87	0	3,409.68	0	3,043.49	0	2,677.30	0	2,311.11
1/4	1/4	1/4	5,186.37	1/4	4,866.82	1/4	4,500.63	1/4	4,134.44	1/4	3,768.24	1/4	3,402.05	1/4	3,035.86	1/4	2,669.67	1/4	2,303.48
1/2	1/2	1/2	5,183.55	1/2	4,859.19	1/2	4,493.00	1/2	4,126.81	1/2	3,760.62	1/2	3,394.43	1/2	3,028.23	1/2	2,662.04	1/2	2,295.85
3/4	3/4	3/4	5,180.72	3/4	4,851.56	3/4	4,485.37	3/4	4,119.18	3/4	3,752.99	3/4	3,386.80	3/4	3,020.60	3/4	2,654.41	3/4	2,288.22
1	1	1	5,177.90	1	4,843.93	1	4,477.74	1	4,111.55	1	3,745.36	1	3,379.17	1	3,012.97	1	2,646.78	1	2,280.59
1/4	1/4	1/4	5,173.95	1/4	4,836.30	1/4	4,470.11	1/4	4,103.92	1/4	3,737.73	1/4	3,371.54	1/4	3,005.34	1/4	2,639.15	1/4	2,272.96
1/2	1/2	1/2	5,170.00	1/2	4,828.68	1/2	4,462.49	1/2	4,096.29	1/2	3,730.10	1/2	3,363.91	1/2	2,997.72	1/2	2,631.53	1/2	2,265.33
3/4	3/4	3/4	5,166.04	3/4	4,821.05	3/4	4,454.86	3/4	4,088.66	3/4	3,722.47	3/4	3,356.28	3/4	2,990.09	3/4	2,623.90	3/4	2,257.70
2	2	2	5,162.09	2	4,813.42	2	4,447.23	2	4,081.03	2	3,714.84	2	3,348.65	2	2,982.46	2	2,616.27	2	2,250.07
1/4	1/4	1/4	5,157.01	1/4	4,805.79	1/4	4,439.60	1/4	4,073.40	1/4	3,707.21	1/4	3,341.02	1/4	2,974.83	1/4	2,608.64	1/4	2,242.44
1/2	1/2	1/2	5,151.92	1/2	4,798.16	1/2	4,431.97	1/2	4,065.78	1/2	3,699.59	1/2	3,333.39	1/2	2,967.20	1/2	2,601.01	1/2	2,234.81
3/4	3/4	3/4	5,146.84	3/4	4,790.53	3/4	4,424.34	3/4	4,058.15	3/4	3,691.96	3/4	3,325.76	3/4	2,959.57	3/4	2,593.38	3/4	2,227.19
3	3	3	5,141.75	3	4,782.90	3	4,416.71	3	4,050.52	3	3,684.33	3	3,318.13	3	2,951.94	3	2,585.75	3	2,219.56
1/4	1/4	1/4	5,135.53	1/4	4,775.27	1/4	4,409.08	1/4	4,042.89	1/4	3,676.70	1/4	3,310.50	1/4	2,944.31	1/4	2,578.12	1/4	2,211.93
1/2	1/2	1/2	5,129.32	1/2	4,767.65	1/2	4,401.45	1/2	4,035.26	1/2	3,669.07	1/2	3,302.88	1/2	2,936.69	1/2	2,570.49	1/2	2,204.30
3/4	3/4	3/4	5,123.10	3/4	4,760.02	3/4	4,393.82	3/4	4,027.63	3/4	3,661.44	3/4	3,295.25	3/4	2,929.06	3/4	2,562.86	3/4	2,196.67
4	4	4	5,116.88	4	4,752.39	4	4,386.19	4	4,020.00	4	3,653.81	4	3,287.62	4	2,921.43	4	2,555.23	4	2,189.04
1/4	1/4	1/4	5,109.68	1/4	4,744.76	1/4	4,378.56	1/4	4,012.37	1/4	3,646.18	1/4	3,279.99	1/4	2,913.80	1/4	2,547.60	1/4	2,181.41
1/2	1/2	1/2	5,102.47	1/2	4,737.13	1/2	4,370.94	1/2	4,004.75	1/2	3,638.55	1/2	3,272.36	1/2	2,906.17	1/2	2,539.97	1/2	2,173.78
3/4	3/4	3/4	5,095.27	3/4	4,729.50	3/4	4,363.31	3/4	3,997.12	3/4	3,630.92	3/4	3,264.73	3/4	2,898.54	3/4	2,532.35	3/4	2,166.16
5	5	5	5,088.06	5	4,721.87	5	4,355.68	5	3,989.49	5	3,623.29	5	3,257.10	5	2,890.91	5	2,524.72	5	2,158.53
1/4	1/4	1/4	5,080.43	1/4	4,714.24	1/4	4,348.05	1/4	3,981.86	1/4	3,615.66	1/4	3,249.47	1/4	2,883.28	1/4	2,517.09	1/4	2,150.90
1/2	1/2	1/2	5,072.81	1/2	4,706.61	1/2	4,340.42	1/2	3,974.23	1/2	3,608.04	1/2	3,241.85	1/2	2,875.65	1/2	2,509.46	1/2	2,143.27
3/4	3/4	3/4	5,065.18	3/4	4,698.98	3/4	4,332.79	3/4	3,966.60	3/4	3,600.41	3/4	3,234.22	3/4	2,868.02	3/4	2,501.83	3/4	2,135.64
6	6	6	5,057.55	6	4,691.35	6	4,325.16	6	3,958.97	6	3,592.78	6	3,226.59	6	2,860.39	6	2,494.20	6	2,128.01
1/4	1/4	1/4	5,049.92	1/4	4,683.72	1/4	4,317.53	1/4	3,951.34	1/4	3,585.15	1/4	3,218.96	1/4	2,852.76	1/4	2,486.57	1/4	2,120.38
1/2	1/2	1/2	5,042.29	1/2	4,676.10	1/2	4,309.91	1/2	3,943.71	1/2	3,577.52	1/2	3,211.33	1/2	2,845.14	1/2	2,478.94	1/2	2,112.75
3/4	3/4	3/4	5,034.66	3/4	4,668.47	3/4	4,302.28	3/4	3,936.08	3/4	3,569.89	3/4	3,203.70	3/4	2,837.51	3/4	2,471.32	3/4	2,105.12
7	7	7	5,027.03	7	4,660.84	7	4,294.65	7	3,928.45	7	3,562.26	7	3,196.07	7	2,829.88	7	2,463.69	7	2,097.49
1/4	1/4	1/4	5,019.40	1/4	4,653.21	1/4	4,287.02	1/4	3,920.82	1/4	3,554.63	1/4	3,188.44	1/4	2,822.25	1/4	2,456.06	1/4	2,089.86
1/2	1/2	1/2	5,011.77	1/2	4,645.58	1/2	4,279.39	1/2	3,913.20	1/2	3,547.01	1/2	3,180.81	1/2	2,814.62	1/2	2,448.43	1/2	2,082.23
3/4	3/4	3/4	5,004.14	3/4	4,637.95	3/4	4,271.76	3/4	3,905.57	3/4	3,539.38	3/4	3,173.18	3/4	2,806.99	3/4	2,440.80	3/4	2,074.61
8	8	8	4,996.51	8	4,630.32	8	4,264.13	8	3,897.94	8	3,531.75	8	3,165.55	8	2,799.36	8	2,433.17	8	2,066.98
1/4	1/4	1/4	4,988.88	1/4	4,622.69	1/4	4,256.50	1/4	3,890.31	1/4	3,524.12	1/4	3,157.92	1/4	2,791.73	1/4	2,425.54	1/4	2,059.35
1/2	1/2	1/2	4,981.26	1/2	4,615.07	1/2	4,248.87	1/2	3,882.68	1/2	3,516.49	1/2	3,150.30	1/2	2,784.11	1/2	2,417.91	1/2	2,051.72
3/4	3/4	3/4	4,973.63	3/4	4,607.44	3/4	4,241.24	3/4	3,875.05	3/4	3,508.86	3/4	3,142.67	3/4	2,776.48	3/4	2,410.28	3/4	2,044.09
9	9	9	4,966.00	9	4,599.81	9	4,233.61	9	3,867.42	9	3,501.23	9	3,135.04	9	2,768.85	9	2,402.65	9	2,036.46
1/4	1/4	1/4	4,958.37	1/4	4,592.18	1/4	4,225.98	1/4	3,859.79	1/4	3,493.60	1/4	3,127.41	1/4	2,761.22	1/4	2,395.02	1/4	2,028.83
1/2	1/2	1/2	4,950.74	1/2	4,584.55	1/2	4,218.36	1/2	3,852.17	1/2	3,485.97	1/2	3,119.78	1/2	2,753.59	1/2	2,387.39	1/2	2,021.20
3/4	3/4	3/4	4,943.11	3/4	4,576.92	3/4	4,210.73	3/4	3,844.54	3/4	3,478.34	3/4	3,112.15	3/4	2,745.96	3/4	2,379.77	3/4	2,013.58
10	5,198.63	10	4,935.48	10	4,569.29	10	4,203.10	10	3,836.91	10	3,470.71	10	3,104.52	10	2,738.33	10	2,372.14	10	2,005.95
1/4	5,197.96	1/4	4,927.85	1/4	4,561.66	1/4	4,195.47	1/4	3,829.28	1/4	3,463.08	1/4	3,096.89	1/4	2,730.70	1/4	2,364.51	1/4	1,998.32
1/2	5,197.30	1/2	4,920.23	1/2	4,554.03	1/2	4,187.84	1/2	3,821.65	1/2	3,455.46	1/2	3,089.27	1/2	2,723.07	1/2	2,356.88	1/2	1,990.69
3/4	5,196.63	3/4	4,912.60	3/4	4,546.40	3/4	4,180.21	3/4	3,814.02	3/4	3,447.83	3/4	3,081.64	3/4	2,715.44	3/4	2,349.25	3/4	1,983.06
11	5,195.96	11	4,904.97	11	4,538.77	11	4,172.58	11	3,806.39	11	3,440.20	11	3,074.01	11	2,707.81	11	2,341.62	11	1,975.43
1/4	5,194.27	1/4	4,897.34	1/4	4,531.14	1/4	4,164.95	1/4	3,798.76	1/4	3,432.57	1/4	3,066.38	1/4	2,700.18	1/4	2,333.99	1/4	1,967.80
1/2	5,192.58	1/2	4,889.71	1/2	4,523.52	1/2	4,157.33	1/2	3,791.13	1/2	3,424.94	1/2	3,058.75	1/2	2,692.56	1/2	2,326.36	1/2	1,960.17
3/4	5,190.88	3/4	4,882.08	3/4	4,515.89	3/4	4,149.70	3/4	3,783.50	3/4	3,417.31	3/4	3,051.12	3/4	2,684.93	3/4	2,318.74	3/4	1,952.54

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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 LIP OF 2" HERMETIC VALVE.  
GAUGE POINT: (HERMETIC) LOCATED 11'-00" OFF CENTERLINE AND 44'-00" FORWARD OF AFT BULKHEAD.

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



# BARGE "MM 136"

## 1 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-05"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	1,944.91	0	1,578.72	0	1,212.53	0	846.34	0	480.47	0	135.96	0		0		0		0	
1/4	1,937.28	1/4	1,571.09	1/4	1,204.90	1/4	838.71	1/4	472.93	1/4	129.17	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,929.65	1/2	1,563.46	1/2	1,197.27	1/2	831.08	1/2	465.40	1/2	122.38	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,922.03	3/4	1,555.84	3/4	1,189.65	3/4	823.45	3/4	457.86	3/4	115.59	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	1,914.40	1	1,548.21	1	1,182.02	1	815.82	1	450.33	1	108.80	1	1	1	1	1	1	1	1
1/4	1,906.77	1/4	1,540.58	1/4	1,174.39	1/4	808.19	1/4	442.89	1/4	102.10	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,899.14	1/2	1,532.95	1/2	1,166.76	1/2	800.56	1/2	435.45	1/2	95.41	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,891.51	3/4	1,525.32	3/4	1,159.13	3/4	792.94	3/4	428.01	3/4	88.71	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	1,883.88	2	1,517.69	2	1,151.50	2	785.31	2	420.57	2	82.02	2	2	2	2	2	2	2	2
1/4	1,876.25	1/4	1,510.06	1/4	1,143.87	1/4	777.68	1/4	413.16	1/4	75.35	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,868.62	1/2	1,502.43	1/2	1,136.24	1/2	770.05	1/2	405.75	1/2	68.69	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,861.00	3/4	1,494.81	3/4	1,128.61	3/4	762.42	3/4	398.35	3/4	62.02	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	1,853.37	3	1,487.18	3	1,120.98	3	754.79	3	390.94	3	55.36	3	3	3	3	3	3	3	3
1/4	1,845.74	1/4	1,479.55	1/4	1,113.35	1/4	747.16	1/4	383.62	1/4	49.43	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,838.11	1/2	1,471.92	1/2	1,105.72	1/2	739.53	1/2	376.30	1/2	43.51	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,830.48	3/4	1,464.29	3/4	1,098.10	3/4	731.91	3/4	368.99	3/4	37.58	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	1,822.85	4	1,456.66	4	1,090.47	4	724.28	4	361.67	4	31.66	4	4	4	4	4	4	4	4
1/4	1,815.22	1/4	1,449.03	1/4	1,082.84	1/4	716.65	1/4	354.38	1/4	27.27	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,807.59	1/2	1,441.40	1/2	1,075.21	1/2	709.02	1/2	347.09	1/2	22.89	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,799.96	3/4	1,433.77	3/4	1,067.58	3/4	701.39	3/4	339.81	3/4	18.50	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	1,792.33	5	1,426.14	5	1,059.95	5	693.76	5	332.52	5	14.12	5	5	5	5	5	5	5	5
1/4	1,784.70	1/4	1,418.51	1/4	1,052.32	1/4	686.13	1/4	325.33	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,777.07	1/2	1,410.88	1/2	1,044.69	1/2	678.50	1/2	318.13	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,769.45	3/4	1,403.26	3/4	1,037.07	3/4	670.87	3/4	310.94	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	1,761.82	6	1,395.63	6	1,029.44	6	663.24	6	303.75	6	6	6	6	6	6	6	6	6	6
1/4	1,754.19	1/4	1,388.00	1/4	1,021.81	1/4	655.61	1/4	296.59	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,746.56	1/2	1,380.37	1/2	1,014.18	1/2	647.98	1/2	289.42	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,738.93	3/4	1,372.74	3/4	1,006.55	3/4	640.36	3/4	282.26	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	1,731.30	7	1,365.11	7	998.92	7	632.73	7	275.10	7	7	7	7	7	7	7	7	7	7
1/4	1,723.67	1/4	1,357.48	1/4	991.29	1/4	625.10	1/4	268.03	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,716.04	1/2	1,349.85	1/2	983.66	1/2	617.47	1/2	260.96	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,708.42	3/4	1,342.23	3/4	976.03	3/4	609.84	3/4	253.90	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	1,700.79	8	1,334.60	8	968.40	8	602.21	8	246.83	8	8	8	8	8	8	8	8	8	8
1/4	1,693.16	1/4	1,326.97	1/4	960.77	1/4	594.58	1/4	239.79	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,685.53	1/2	1,319.34	1/2	953.14	1/2	586.95	1/2	232.75	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,677.90	3/4	1,311.71	3/4	945.52	3/4	579.33	3/4	225.72	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	1,670.27	9	1,304.08	9	937.89	9	571.70	9	218.68	9	9	9	9	9	9	9	9	9	9
1/4	1,662.64	1/4	1,296.45	1/4	930.26	1/4	564.07	1/4	211.73	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,655.01	1/2	1,288.82	1/2	922.63	1/2	556.44	1/2	204.79	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,647.38	3/4	1,281.19	3/4	915.00	3/4	548.81	3/4	197.84	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	1,639.75	10	1,273.56	10	907.37	10	541.18	10	190.90	10	10	10	10	10	10	10	10	10	10
1/4	1,632.12	1/4	1,265.93	1/4	899.74	1/4	533.57	1/4	183.98	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,624.49	1/2	1,258.30	1/2	892.11	1/2	525.95	1/2	177.07	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,616.87	3/4	1,250.68	3/4	884.49	3/4	518.34	3/4	170.15	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	1,609.24	11	1,243.05	11	876.86	11	510.73	11	163.24	11	11	11	11	11	11	11	11	11	11
1/4	1,601.61	1/4	1,235.42	1/4	869.23	1/4	503.16	1/4	156.42	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,593.98	1/2	1,227.79	1/2	861.60	1/2	495.60	1/2	149.60	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,586.35	3/4	1,220.16	3/4	853.97	3/4	488.03	3/4	142.78	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 07/21/2014 SW  
DECK MEASUREMENTS: 07/25/2014 SW  
PRINTED: 07/25/2014 SW

CANCELS AND SUPERCEDES  
ALL PRIOR TO 07/2014

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



# BARGE "MM 136"

# 2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-05 1/4"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.			
IN		IN		IN		IN		IN		IN		IN		IN		IN		IN		IN	
0		0	4,906.17	0	4,617.92	0	4,275.09	0	3,931.36	0	3,587.63	0	3,243.90	0	2,900.18	0	2,556.45	0	2,212.72		
1/4	1/4	1/4	4,904.58	1/4	4,610.81	1/4	4,267.93	1/4	3,924.20	1/4	3,580.47	1/4	3,236.74	1/4	2,893.02	1/4	2,549.29	1/4	2,205.56		
1/2	1/2	1/2	4,901.93	1/2	4,603.70	1/2	4,260.77	1/2	3,917.04	1/2	3,573.31	1/2	3,229.58	1/2	2,885.86	1/2	2,542.13	1/2	2,198.40		
3/4	3/4	3/4	4,899.28	3/4	4,596.59	3/4	4,253.61	3/4	3,909.88	3/4	3,566.15	3/4	3,222.42	3/4	2,878.70	3/4	2,534.97	3/4	2,191.24		
1		1	4,896.62	1	4,589.47	1	4,246.44	1	3,902.72	1	3,558.99	1	3,215.26	1	2,871.53	1	2,527.80	1	2,184.08		
1/4	1/4	1/4	4,893.97	1/4	4,582.36	1/4	4,239.28	1/4	3,895.56	1/4	3,551.83	1/4	3,208.10	1/4	2,864.37	1/4	2,520.64	1/4	2,176.92		
1/2	1/2	1/2	4,890.26	1/2	4,575.25	1/2	4,232.12	1/2	3,888.40	1/2	3,544.67	1/2	3,200.94	1/2	2,857.21	1/2	2,513.48	1/2	2,169.76		
3/4	3/4	3/4	4,886.55	3/4	4,568.14	3/4	4,224.96	3/4	3,881.24	3/4	3,537.51	3/4	3,193.78	3/4	2,850.05	3/4	2,506.32	3/4	2,162.60		
2		2	4,882.84	2	4,561.03	2	4,217.80	2	3,874.07	2	3,530.34	2	3,186.62	2	2,842.89	2	2,499.16	2	2,155.43		
1/4	1/4	1/4	4,879.13	1/4	4,553.92	1/4	4,210.64	1/4	3,866.91	1/4	3,523.18	1/4	3,179.46	1/4	2,835.73	1/4	2,492.00	1/4	2,148.27		
1/2	1/2	1/2	4,874.36	1/2	4,546.81	1/2	4,203.48	1/2	3,859.75	1/2	3,516.02	1/2	3,172.30	1/2	2,828.57	1/2	2,484.84	1/2	2,141.11		
3/4	3/4	3/4	4,869.59	3/4	4,539.70	3/4	4,196.32	3/4	3,852.59	3/4	3,508.86	3/4	3,165.14	3/4	2,821.41	3/4	2,477.68	3/4	2,133.95		
3		3	4,864.82	3	4,532.58	3	4,189.16	3	3,845.43	3	3,501.70	3	3,157.97	3	2,814.24	3	2,470.52	3	2,126.79		
1/4	1/4	1/4	4,860.05	1/4	4,525.47	1/4	4,182.00	1/4	3,838.27	1/4	3,494.54	1/4	3,150.81	1/4	2,807.08	1/4	2,463.36	1/4	2,119.63		
1/2	1/2	1/2	4,854.23	1/2	4,518.36	1/2	4,174.84	1/2	3,831.11	1/2	3,487.38	1/2	3,143.65	1/2	2,799.92	1/2	2,456.20	1/2	2,112.47		
3/4	3/4	3/4	4,848.41	3/4	4,511.25	3/4	4,167.68	3/4	3,823.95	3/4	3,480.22	3/4	3,136.49	3/4	2,792.76	3/4	2,449.04	3/4	2,105.31		
4		4	4,842.58	4	4,504.14	4	4,160.51	4	3,816.78	4	3,473.06	4	3,129.33	4	2,785.60	4	2,441.87	4	2,098.14		
1/4	1/4	1/4	4,836.76	1/4	4,497.03	1/4	4,153.35	1/4	3,809.62	1/4	3,465.90	1/4	3,122.17	1/4	2,778.44	1/4	2,434.71	1/4	2,090.98		
1/2	1/2	1/2	4,830.05	1/2	4,489.88	1/2	4,146.19	1/2	3,802.46	1/2	3,458.74	1/2	3,115.01	1/2	2,771.28	1/2	2,427.55	1/2	2,083.82		
3/4	3/4	3/4	4,823.34	3/4	4,482.74	3/4	4,139.03	3/4	3,795.30	3/4	3,451.58	3/4	3,107.85	3/4	2,764.12	3/4	2,420.39	3/4	2,076.66		
5		5	4,816.62	5	4,475.59	5	4,131.87	5	3,788.14	5	3,444.41	5	3,100.68	5	2,756.96	5	2,413.23	5	2,069.50		
1/4	1/4	1/4	4,809.91	1/4	4,468.44	1/4	4,124.71	1/4	3,780.98	1/4	3,437.25	1/4	3,093.52	1/4	2,749.80	1/4	2,406.07	1/4	2,062.34		
1/2	1/2	1/2	4,802.80	1/2	4,461.28	1/2	4,117.55	1/2	3,773.82	1/2	3,430.09	1/2	3,086.36	1/2	2,742.64	1/2	2,398.91	1/2	2,055.18		
3/4	3/4	3/4	4,795.69	3/4	4,454.12	3/4	4,110.39	3/4	3,766.66	3/4	3,422.93	3/4	3,079.20	3/4	2,735.48	3/4	2,391.75	3/4	2,048.02		
6		6	4,788.58	6	4,446.95	6	4,103.22	6	3,759.50	6	3,415.77	6	3,072.04	6	2,728.31	6	2,384.58	6	2,040.86		
1/4	1/4	1/4	4,781.47	1/4	4,439.79	1/4	4,096.06	1/4	3,752.34	1/4	3,408.61	1/4	3,064.88	1/4	2,721.15	1/4	2,377.42	1/4	2,033.70		
1/2	1/2	1/2	4,774.36	1/2	4,432.63	1/2	4,088.90	1/2	3,745.18	1/2	3,401.45	1/2	3,057.72	1/2	2,713.99	1/2	2,370.26	1/2	2,026.54		
3/4	3/4	3/4	4,767.25	3/4	4,425.47	3/4	4,081.74	3/4	3,738.02	3/4	3,394.29	3/4	3,050.56	3/4	2,706.83	3/4	2,363.10	3/4	2,019.38		
7		7	4,760.14	7	4,418.31	7	4,074.58	7	3,730.85	7	3,387.12	7	3,043.40	7	2,699.67	7	2,355.94	7	2,012.21		
1/4	1/4	1/4	4,753.03	1/4	4,411.15	1/4	4,067.42	1/4	3,723.69	1/4	3,379.96	1/4	3,036.24	1/4	2,692.51	1/4	2,348.78	1/4	2,005.05		
1/2	1/2	1/2	4,745.92	1/2	4,403.99	1/2	4,060.26	1/2	3,716.53	1/2	3,372.80	1/2	3,029.08	1/2	2,685.35	1/2	2,341.62	1/2	1,997.89		
3/4	3/4	3/4	4,738.81	3/4	4,396.83	3/4	4,053.10	3/4	3,709.37	3/4	3,365.64	3/4	3,021.92	3/4	2,678.19	3/4	2,334.46	3/4	1,990.73		
8		8	4,731.69	8	4,389.66	8	4,045.94	8	3,702.21	8	3,358.48	8	3,014.75	8	2,671.02	8	2,327.30	8	1,983.57		
1/4	1/4	1/4	4,724.58	1/4	4,382.50	1/4	4,038.78	1/4	3,695.05	1/4	3,351.32	1/4	3,007.59	1/4	2,663.86	1/4	2,320.14	1/4	1,976.41		
1/2	1/2	1/2	4,717.47	1/2	4,375.34	1/2	4,031.62	1/2	3,687.89	1/2	3,344.16	1/2	3,000.43	1/2	2,656.70	1/2	2,312.98	1/2	1,969.25		
3/4	3/4	3/4	4,710.36	3/4	4,368.18	3/4	4,024.46	3/4	3,680.73	3/4	3,337.00	3/4	2,993.27	3/4	2,649.54	3/4	2,305.82	3/4	1,962.09		
9		9	4,703.25	9	4,361.02	9	4,017.29	9	3,673.56	9	3,329.84	9	2,986.11	9	2,642.38	9	2,298.65	9	1,954.92		
1/4	1/4	1/4	4,696.14	1/4	4,353.86	1/4	4,010.13	1/4	3,666.40	1/4	3,322.68	1/4	2,978.95	1/4	2,635.22	1/4	2,291.49	1/4	1,947.76		
1/2	1/2	1/2	4,689.03	1/2	4,346.70	1/2	4,002.97	1/2	3,659.24	1/2	3,315.52	1/2	2,971.79	1/2	2,628.06	1/2	2,284.33	1/2	1,940.60		
3/4	3/4	3/4	4,681.92	3/4	4,339.54	3/4	3,995.81	3/4	3,652.08	3/4	3,308.36	3/4	2,964.63	3/4	2,620.90	3/4	2,277.17	3/4	1,933.44		
10		10	4,674.80	10	4,332.38	10	3,988.65	10	3,644.92	10	3,301.19	10	2,957.46	10	2,613.74	10	2,270.01	10	1,926.28		
1/4	4,913.43	1/4	4,667.69	1/4	4,325.22	1/4	3,981.49	1/4	3,637.76	1/4	3,294.03	1/4	2,950.30	1/4	2,606.58	1/4	2,262.85	1/4	1,919.12		
1/2	4,912.81	1/2	4,660.58	1/2	4,318.06	1/2	3,974.33	1/2	3,630.60	1/2	3,286.87	1/2	2,943.14	1/2	2,599.42	1/2	2,255.69	1/2	1,911.96		
3/4	4,912.18	3/4	4,653.47	3/4	4,310.90	3/4	3,967.17	3/4	3,623.44	3/4	3,279.71	3/4	2,935.98	3/4	2,592.26	3/4	2,248.53	3/4	1,904.80		
11		11	4,911.56	11	4,646.36	11	4,303.73	11	3,960.00	11	3,616.28	11	3,272.55	11	2,928.82	11	2,585.09	11	2,241.36	11	1,897.64
1/4	4,910.93	1/4	4,639.25	1/4	4,296.57	1/4	3,952.84	1/4	3,609.12	1/4	3,265.39	1/4	2,921.66	1/4	2,577.93	1/4	2,234.20	1/4	1,890.48		
1/2	4,909.34	1/2	4,632.14	1/2	4,289.41	1/2	3,945.68	1/2	3,601.96	1/2	3,258.23	1/2	2,914.50	1/2	2,570.77	1/2	2,227.04	1/2	1,883.32		
3/4	4,907.76	3/4	4,625.03	3/4	4,282.25	3/4	3,938.52	3/4	3,594.80	3/4	3,251.07	3/4	2,907.34	3/4	2,563.61	3/4	2,219.88	3/4	1,876.16		

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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 LIP OF 2" HERMETIC VALVE.  
 GAUGE POINT: (HERMETIC) LOCATED 11'-00" OFF CENTERLINE AND 41'-06" FORWARD OF AFT BULKHEAD.

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





# BARGE "MM 136"

## 2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-05 1/4"

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	1,868.99	0	1,525.26	0	1,181.54	0	837.81	0	494.08	0	150.35	0		0		0		0	
1/4	1,861.83	1/4	1,518.10	1/4	1,174.38	1/4	830.65	1/4	486.92	1/4	143.19	1/4		1/4		1/4		1/4	
1/2	1,854.67	1/2	1,510.94	1/2	1,167.22	1/2	823.49	1/2	479.76	1/2	136.03	1/2		1/2		1/2		1/2	
3/4	1,847.51	3/4	1,503.78	3/4	1,160.06	3/4	816.33	3/4	472.60	3/4	128.87	3/4		3/4		3/4		3/4	
1	1,840.35	1	1,496.62	1	1,152.89	1	809.16	1	465.44	1	121.71	1		1		1		1	
1/4	1,833.19	1/4	1,489.46	1/4	1,145.73	1/4	802.00	1/4	458.28	1/4	114.55	1/4		1/4		1/4		1/4	
1/2	1,826.03	1/2	1,482.30	1/2	1,138.57	1/2	794.84	1/2	451.12	1/2	107.39	1/2		1/2		1/2		1/2	
3/4	1,818.87	3/4	1,475.14	3/4	1,131.41	3/4	787.68	3/4	443.96	3/4	100.23	3/4		3/4		3/4		3/4	
2	1,811.70	2	1,467.98	2	1,124.25	2	780.52	2	436.79	2	93.06	2		2		2		2	
1/4	1,804.54	1/4	1,460.82	1/4	1,117.09	1/4	773.36	1/4	429.63	1/4	85.90	1/4		1/4		1/4		1/4	
1/2	1,797.38	1/2	1,453.66	1/2	1,109.93	1/2	766.20	1/2	422.47	1/2	78.74	1/2		1/2		1/2		1/2	
3/4	1,790.22	3/4	1,446.50	3/4	1,102.77	3/4	759.04	3/4	415.31	3/4	71.58	3/4		3/4		3/4		3/4	
3	1,783.06	3	1,439.33	3	1,095.60	3	751.87	3	408.15	3	64.42	3		3		3		3	
1/4	1,775.90	1/4	1,432.17	1/4	1,088.44	1/4	744.71	1/4	400.99	1/4	57.26	1/4		1/4		1/4		1/4	
1/2	1,768.74	1/2	1,425.01	1/2	1,081.28	1/2	737.55	1/2	393.83	1/2	50.87	1/2		1/2		1/2		1/2	
3/4	1,761.58	3/4	1,417.85	3/4	1,074.12	3/4	730.39	3/4	386.67	3/4	44.48	3/4		3/4		3/4		3/4	
4	1,754.42	4	1,410.69	4	1,066.96	4	723.23	4	379.50	4	38.08	4		4		4		4	
1/4	1,747.26	1/4	1,403.53	1/4	1,059.80	1/4	716.07	1/4	372.34	1/4	31.69	1/4		1/4		1/4		1/4	
1/2	1,740.10	1/2	1,396.37	1/2	1,052.64	1/2	708.91	1/2	365.18	1/2	27.09	1/2		1/2		1/2		1/2	
3/4	1,732.94	3/4	1,389.21	3/4	1,045.48	3/4	701.75	3/4	358.02	3/4	22.49	3/4		3/4		3/4		3/4	
5	1,725.77	5	1,382.04	5	1,038.32	5	694.59	5	350.86	5	17.88	5		5		5		5	
1/4	1,718.61	1/4	1,374.88	1/4	1,031.16	1/4	687.43	1/4	343.70	1/4	13.28	1/4		1/4		1/4		1/4	
1/2	1,711.45	1/2	1,367.72	1/2	1,024.00	1/2	680.27	1/2	336.54	1/2		1/2		1/2		1/2		1/2	
3/4	1,704.29	3/4	1,360.56	3/4	1,016.84	3/4	673.11	3/4	329.38	3/4		3/4		3/4		3/4		3/4	
6	1,697.13	6	1,353.40	6	1,009.67	6	665.94	6	322.22	6		6		6		6		6	
1/4	1,689.97	1/4	1,346.24	1/4	1,002.51	1/4	658.78	1/4	315.06	1/4		1/4		1/4		1/4		1/4	
1/2	1,682.81	1/2	1,339.08	1/2	995.35	1/2	651.62	1/2	307.90	1/2		1/2		1/2		1/2		1/2	
3/4	1,675.65	3/4	1,331.92	3/4	988.19	3/4	644.46	3/4	300.74	3/4		3/4		3/4		3/4		3/4	
7	1,668.48	7	1,324.76	7	981.03	7	637.30	7	293.57	7		7		7		7		7	
1/4	1,661.32	1/4	1,317.60	1/4	973.87	1/4	630.14	1/4	286.41	1/4		1/4		1/4		1/4		1/4	
1/2	1,654.16	1/2	1,310.44	1/2	966.71	1/2	622.98	1/2	279.25	1/2		1/2		1/2		1/2		1/2	
3/4	1,647.00	3/4	1,303.28	3/4	959.55	3/4	615.82	3/4	272.09	3/4		3/4		3/4		3/4		3/4	
8	1,639.84	8	1,296.11	8	952.38	8	608.65	8	264.93	8		8		8		8		8	
1/4	1,632.68	1/4	1,288.95	1/4	945.22	1/4	601.49	1/4	257.77	1/4		1/4		1/4		1/4		1/4	
1/2	1,625.52	1/2	1,281.79	1/2	938.06	1/2	594.33	1/2	250.61	1/2		1/2		1/2		1/2		1/2	
3/4	1,618.36	3/4	1,274.63	3/4	930.90	3/4	587.17	3/4	243.45	3/4		3/4		3/4		3/4		3/4	
9	1,611.20	9	1,267.47	9	923.74	9	580.01	9	236.28	9		9		9		9		9	
1/4	1,604.04	1/4	1,260.31	1/4	916.58	1/4	572.85	1/4	229.12	1/4		1/4		1/4		1/4		1/4	
1/2	1,596.88	1/2	1,253.15	1/2	909.42	1/2	565.69	1/2	221.96	1/2		1/2		1/2		1/2		1/2	
3/4	1,589.72	3/4	1,245.99	3/4	902.26	3/4	558.53	3/4	214.80	3/4		3/4		3/4		3/4		3/4	
10	1,582.55	10	1,238.82	10	895.09	10	551.37	10	207.64	10		10		10		10		10	
1/4	1,575.39	1/4	1,231.66	1/4	887.93	1/4	544.21	1/4	200.48	1/4		1/4		1/4		1/4		1/4	
1/2	1,568.23	1/2	1,224.50	1/2	880.77	1/2	537.05	1/2	193.32	1/2		1/2		1/2		1/2		1/2	
3/4	1,561.07	3/4	1,217.34	3/4	873.61	3/4	529.89	3/4	186.16	3/4		3/4		3/4		3/4		3/4	
11	1,553.91	11	1,210.18	11	866.45	11	522.72	11	179.00	11		11		11		11		11	
1/4	1,546.75	1/4	1,203.02	1/4	859.29	1/4	515.56	1/4	171.84	1/4		1/4		1/4		1/4		1/4	
1/2	1,539.59	1/2	1,195.86	1/2	852.13	1/2	508.40	1/2	164.68	1/2		1/2		1/2		1/2		1/2	
3/4	1,532.43	3/4	1,188.70	3/4	844.97	3/4	501.24	3/4	157.52	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 07/21/2014 SW  
DECK MEASUREMENTS: 07/25/2014 SW  
PRINTED: 07/25/2014 SW

CANCELS AND SUPERCEDES  
ALL PRIOR TO 07/2014

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



# BARGE "MM 136"

## 2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-05 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	4,904.04	0	4,610.80	0	4,267.93	0	3,924.20	0	3,580.47	0	3,236.74	0	2,893.01	0	2,549.29	0	2,205.56
1/4		1/4	4,902.19	1/4	4,603.69	1/4	4,260.77	1/4	3,917.04	1/4	3,573.31	1/4	3,229.58	1/4	2,885.85	1/4	2,542.13	1/4	2,198.40
1/2		1/2	4,899.28	1/2	4,596.58	1/2	4,253.61	1/2	3,909.88	1/2	3,566.15	1/2	3,222.42	1/2	2,878.69	1/2	2,534.97	1/2	2,191.24
3/4		3/4	4,896.36	3/4	4,589.47	3/4	4,246.45	3/4	3,902.72	3/4	3,558.99	3/4	3,215.26	3/4	2,871.53	3/4	2,527.81	3/4	2,184.08
1		1	4,893.45	1	4,582.36	1	4,239.28	1	3,895.55	1	3,551.83	1	3,208.10	1	2,864.37	1	2,520.64	1	2,176.91
1/4		1/4	4,890.53	1/4	4,575.25	1/4	4,232.12	1/4	3,888.39	1/4	3,544.67	1/4	3,200.94	1/4	2,857.21	1/4	2,513.48	1/4	2,169.75
1/2		1/2	4,886.56	1/2	4,568.14	1/2	4,224.96	1/2	3,881.23	1/2	3,537.51	1/2	3,193.78	1/2	2,850.05	1/2	2,506.32	1/2	2,162.59
3/4		3/4	4,882.58	3/4	4,561.03	3/4	4,217.80	3/4	3,874.07	3/4	3,530.35	3/4	3,186.62	3/4	2,842.89	3/4	2,499.16	3/4	2,155.43
2		2	4,878.61	2	4,553.92	2	4,210.64	2	3,866.91	2	3,523.18	2	3,179.45	2	2,835.73	2	2,492.00	2	2,148.27
1/4		1/4	4,874.63	1/4	4,546.81	1/4	4,203.48	1/4	3,859.75	1/4	3,516.02	1/4	3,172.29	1/4	2,828.57	1/4	2,484.84	1/4	2,141.11
1/2		1/2	4,869.59	1/2	4,539.70	1/2	4,196.32	1/2	3,852.59	1/2	3,508.86	1/2	3,165.13	1/2	2,821.41	1/2	2,477.68	1/2	2,133.95
3/4		3/4	4,864.56	3/4	4,532.59	3/4	4,189.16	3/4	3,845.43	3/4	3,501.70	3/4	3,157.97	3/4	2,814.25	3/4	2,470.52	3/4	2,126.79
3		3	4,859.52	3	4,525.47	3	4,181.99	3	3,838.27	3	3,494.54	3	3,150.81	3	2,807.08	3	2,463.35	3	2,119.63
1/4		1/4	4,854.48	1/4	4,518.36	1/4	4,174.83	1/4	3,831.11	1/4	3,487.38	1/4	3,143.65	1/4	2,799.92	1/4	2,456.19	1/4	2,112.47
1/2		1/2	4,848.41	1/2	4,511.25	1/2	4,167.67	1/2	3,823.95	1/2	3,480.22	1/2	3,136.49	1/2	2,792.76	1/2	2,449.03	1/2	2,105.31
3/4		3/4	4,842.33	3/4	4,504.14	3/4	4,160.51	3/4	3,816.79	3/4	3,473.06	3/4	3,130.33	3/4	2,785.60	3/4	2,441.87	3/4	2,098.15
4		4	4,836.26	4	4,497.03	4	4,153.35	4	3,809.62	4	3,465.89	4	3,122.17	4	2,778.44	4	2,434.71	4	2,090.98
1/4		1/4	4,830.18	1/4	4,489.92	1/4	4,146.19	1/4	3,802.46	1/4	3,458.73	1/4	3,115.01	1/4	2,771.28	1/4	2,427.55	1/4	2,083.82
1/2		1/2	4,823.34	1/2	4,482.76	1/2	4,139.03	1/2	3,795.30	1/2	3,451.57	1/2	3,107.85	1/2	2,764.12	1/2	2,420.39	1/2	2,076.66
3/4		3/4	4,816.49	3/4	4,475.60	3/4	4,131.87	3/4	3,788.14	3/4	3,444.41	3/4	3,100.69	3/4	2,756.96	3/4	2,413.23	3/4	2,069.50
5		5	4,809.65	5	4,468.43	5	4,124.71	5	3,780.98	5	3,437.25	5	3,093.52	5	2,749.79	5	2,406.07	5	2,062.34
1/4		1/4	4,802.80	1/4	4,461.27	1/4	4,117.55	1/4	3,773.82	1/4	3,430.09	1/4	3,086.36	1/4	2,742.63	1/4	2,398.91	1/4	2,055.18
1/2		1/2	4,795.69	1/2	4,454.11	1/2	4,110.39	1/2	3,766.66	1/2	3,422.93	1/2	3,079.20	1/2	2,735.47	1/2	2,391.75	1/2	2,048.02
3/4		3/4	4,788.58	3/4	4,446.95	3/4	4,103.23	3/4	3,759.50	3/4	3,415.77	3/4	3,072.04	3/4	2,728.31	3/4	2,384.59	3/4	2,040.86
6		6	4,781.47	6	4,439.79	6	4,096.06	6	3,752.33	6	3,408.61	6	3,064.88	6	2,721.15	6	2,377.42	6	2,033.69
1/4		1/4	4,774.36	1/4	4,432.63	1/4	4,088.90	1/4	3,745.17	1/4	3,401.45	1/4	3,057.72	1/4	2,713.99	1/4	2,370.26	1/4	2,026.53
1/2		1/2	4,767.25	1/2	4,425.47	1/2	4,081.74	1/2	3,738.01	1/2	3,394.29	1/2	3,050.56	1/2	2,706.83	1/2	2,363.10	1/2	2,019.37
3/4		3/4	4,760.14	3/4	4,418.31	3/4	4,074.58	3/4	3,730.85	3/4	3,387.13	3/4	3,043.40	3/4	2,699.67	3/4	2,355.94	3/4	2,012.21
7		7	4,753.02	7	4,411.15	7	4,067.42	7	3,723.69	7	3,379.96	7	3,036.23	7	2,692.51	7	2,348.78	7	2,005.05
1/4		1/4	4,745.91	1/4	4,403.99	1/4	4,060.26	1/4	3,716.53	1/4	3,372.80	1/4	3,029.07	1/4	2,685.35	1/4	2,341.62	1/4	1,997.89
1/2		1/2	4,738.80	1/2	4,396.83	1/2	4,053.10	1/2	3,709.37	1/2	3,365.64	1/2	3,021.91	1/2	2,678.19	1/2	2,334.46	1/2	1,990.73
3/4		3/4	4,731.69	3/4	4,389.67	3/4	4,045.94	3/4	3,702.21	3/4	3,358.48	3/4	3,014.75	3/4	2,671.03	3/4	2,327.30	3/4	1,983.57
8		8	4,724.58	8	4,382.50	8	4,038.77	8	3,695.05	8	3,351.32	8	3,007.59	8	2,663.86	8	2,320.13	8	1,976.41
1/4		1/4	4,717.47	1/4	4,375.34	1/4	4,031.61	1/4	3,687.89	1/4	3,344.16	1/4	3,000.43	1/4	2,656.70	1/4	2,312.97	1/4	1,969.25
1/2		1/2	4,710.36	1/2	4,368.18	1/2	4,024.45	1/2	3,680.73	1/2	3,337.00	1/2	2,993.27	1/2	2,649.54	1/2	2,305.81	1/2	1,962.09
3/4		3/4	4,703.25	3/4	4,361.02	3/4	4,017.29	3/4	3,673.57	3/4	3,329.84	3/4	2,986.11	3/4	2,642.38	3/4	2,298.65	3/4	1,954.93
9		9	4,696.14	9	4,353.86	9	4,010.13	9	3,666.40	9	3,322.67	9	2,978.95	9	2,635.22	9	2,291.49	9	1,947.76
1/4		1/4	4,689.03	1/4	4,346.70	1/4	4,002.97	1/4	3,659.24	1/4	3,315.51	1/4	2,971.79	1/4	2,628.06	1/4	2,284.33	1/4	1,940.60
1/2		1/2	4,681.92	1/2	4,339.54	1/2	3,995.81	1/2	3,652.08	1/2	3,308.35	1/2	2,964.63	1/2	2,620.90	1/2	2,277.17	1/2	1,933.44
3/4		3/4	4,674.81	3/4	4,332.38	3/4	3,988.65	3/4	3,644.92	3/4	3,301.19	3/4	2,957.47	3/4	2,613.74	3/4	2,270.01	3/4	1,926.28
10	4,913.43	10	4,667.69	10	4,325.21	10	3,981.49	10	3,637.76	10	3,294.03	10	2,950.30	10	2,606.57	10	2,262.85	10	1,919.12
1/4	4,913.04	1/4	4,660.58	1/4	4,318.05	1/4	3,974.33	1/4	3,630.60	1/4	3,286.87	1/4	2,943.14	1/4	2,599.41	1/4	2,255.69	1/4	1,911.96
1/2	4,912.18	1/2	4,653.47	1/2	4,310.89	1/2	3,967.17	1/2	3,623.44	1/2	3,279.71	1/2	2,935.98	1/2	2,592.25	1/2	2,248.53	1/2	1,904.80
3/4	4,911.32	3/4	4,646.36	3/4	4,303.73	3/4	3,960.01	3/4	3,616.28	3/4	3,272.55	3/4	2,928.82	3/4	2,585.09	3/4	2,241.37	3/4	1,897.64
11	4,910.46	11	4,639.25	11	4,296.57	11	3,952.84	11	3,609.11	11	3,265.39	11	2,921.66	11	2,577.93	11	2,234.20	11	1,890.47
1/4	4,909.60	1/4	4,632.14	1/4	4,289.41	1/4	3,945.68	1/4	3,601.95	1/4	3,258.23	1/4	2,914.50	1/4	2,570.77	1/4	2,227.04	1/4	1,883.31
1/2	4,907.75	1/2	4,625.03	1/2	4,282.25	1/2	3,938.52	1/2	3,594.79	1/2	3,251.07	1/2	2,907.34	1/2	2,563.61	1/2	2,219.88	1/2	1,876.15
3/4	4,905.90	3/4	4,617.92	3/4	4,275.09	3/4	3,931.36	3/4	3,587.63	3/4	3,243.91	3/4	2,900.18	3/4	2,556.45	3/4	2,212.72	3/4	1,868.99

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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 LIP OF 2" HERMETIC VALVE.  
GAUGE POINT: (HERMETIC) LOCATED 11'-00" OFF CENTERLINE AND 41'-06" FORWARD OF AFT BULKHEAD.

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





# BARGE "MM 136"

## 2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-05 1/4"

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.	
IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT
0	1,861.83	0	1,518.10	0	1,174.37	0	830.65	0	486.92	0	143.19	0		0		0		0	
1/4	1,854.67	1/4	1,510.94	1/4	1,167.21	1/4	823.49	1/4	479.76	1/4	136.03	1/4	1/4	0	1/4	1/4	1/4	1/4	1/4
1/2	1,847.51	1/2	1,503.78	1/2	1,160.05	1/2	816.33	1/2	472.60	1/2	128.87	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,840.35	3/4	1,496.62	3/4	1,152.89	3/4	809.17	3/4	465.44	3/4	121.71	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	1,833.19	1	1,489.46	1	1,145.73	1	802.00	1	458.27	1	114.55	1	1	1	1	1	1	1	1
1/4	1,826.03	1/4	1,482.30	1/4	1,138.57	1/4	794.84	1/4	451.11	1/4	107.39	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,818.87	1/2	1,475.14	1/2	1,131.41	1/2	787.68	1/2	443.95	1/2	100.23	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,811.71	3/4	1,467.98	3/4	1,124.25	3/4	780.52	3/4	436.79	3/4	93.07	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	1,804.54	2	1,460.81	2	1,117.09	2	773.36	2	429.63	2	85.90	2	2	2	2	2	2	2	2
1/4	1,797.38	1/4	1,453.65	1/4	1,109.93	1/4	766.20	1/4	422.47	1/4	78.74	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,790.22	1/2	1,446.49	1/2	1,102.77	1/2	759.04	1/2	415.31	1/2	71.58	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,783.06	3/4	1,439.33	3/4	1,095.61	3/4	751.88	3/4	408.15	3/4	64.42	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	1,775.90	3	1,432.17	3	1,088.44	3	744.71	3	400.99	3	57.26	3	3	3	3	3	3	3	3
1/4	1,768.74	1/4	1,425.01	1/4	1,081.28	1/4	737.55	1/4	393.83	1/4	50.10	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,761.58	1/2	1,417.85	1/2	1,074.12	1/2	730.39	1/2	386.67	1/2	44.22	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,754.42	3/4	1,410.69	3/4	1,066.96	3/4	723.23	3/4	379.51	3/4	38.34	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	1,747.25	4	1,403.53	4	1,059.80	4	716.07	4	372.34	4	32.45	4	4	4	4	4	4	4	4
1/4	1,740.09	1/4	1,396.37	1/4	1,052.64	1/4	708.91	1/4	365.18	1/4	26.57	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,732.93	1/2	1,389.21	1/2	1,045.48	1/2	701.75	1/2	358.02	1/2	22.48	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,725.77	3/4	1,382.05	3/4	1,038.32	3/4	694.59	3/4	350.86	3/4	18.39	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	1,718.61	5	1,374.88	5	1,031.15	5	687.43	5	343.70	5	14.30	5	5	5	5	5	5	5	5
1/4	1,711.45	1/4	1,367.72	1/4	1,023.99	1/4	680.27	1/4	336.54	1/4	10.21	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,704.29	1/2	1,360.56	1/2	1,016.83	1/2	673.11	1/2	329.38	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,697.13	3/4	1,353.40	3/4	1,009.67	3/4	665.95	3/4	322.22	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	1,689.97	6	1,346.24	6	1,002.51	6	658.78	6	315.05	6	6	6	6	6	6	6	6	6	6
1/4	1,682.81	1/4	1,339.08	1/4	995.35	1/4	651.62	1/4	307.89	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,675.65	1/2	1,331.92	1/2	988.19	1/2	644.46	1/2	300.73	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,668.49	3/4	1,324.76	3/4	981.03	3/4	637.30	3/4	293.57	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	1,661.32	7	1,317.59	7	973.87	7	630.14	7	286.41	7	7	7	7	7	7	7	7	7	7
1/4	1,654.16	1/4	1,310.43	1/4	966.71	1/4	622.98	1/4	279.25	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,647.00	1/2	1,303.27	1/2	959.55	1/2	615.82	1/2	272.09	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,639.84	3/4	1,296.11	3/4	952.39	3/4	608.66	3/4	264.93	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	1,632.68	8	1,288.95	8	945.22	8	601.49	8	257.77	8	8	8	8	8	8	8	8	8	8
1/4	1,625.52	1/4	1,281.79	1/4	938.06	1/4	594.33	1/4	250.61	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,618.36	1/2	1,274.63	1/2	930.90	1/2	587.17	1/2	243.45	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,611.20	3/4	1,267.47	3/4	923.74	3/4	580.01	3/4	236.29	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	1,604.03	9	1,260.31	9	916.58	9	572.85	9	229.12	9	9	9	9	9	9	9	9	9	9
1/4	1,596.87	1/4	1,253.15	1/4	909.42	1/4	565.69	1/4	221.96	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,589.71	1/2	1,245.99	1/2	902.26	1/2	558.53	1/2	214.80	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,582.55	3/4	1,238.83	3/4	895.10	3/4	551.37	3/4	207.64	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	1,575.39	10	1,231.66	10	887.93	10	544.21	10	200.48	10	10	10	10	10	10	10	10	10	10
1/4	1,568.23	1/4	1,224.50	1/4	880.77	1/4	537.05	1/4	193.32	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,561.07	1/2	1,217.34	1/2	873.61	1/2	529.89	1/2	186.16	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,553.91	3/4	1,210.18	3/4	866.45	3/4	522.73	3/4	179.00	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	1,546.75	11	1,203.02	11	859.29	11	515.56	11	171.83	11	11	11	11	11	11	11	11	11	11
1/4	1,539.59	1/4	1,195.86	1/4	852.13	1/4	508.40	1/4	164.67	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,532.43	1/2	1,188.70	1/2	844.97	1/2	501.24	1/2	157.51	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,525.27	3/4	1,181.54	3/4	837.81	3/4	494.08	3/4	150.35	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 07/21/2014 SW  
DECK MEASUREMENTS: 07/25/2014 SW  
PRINTED: 07/25/2014 SW

PRECISION MEASUREMENT  
& ANALYSIS, INC.

CANCELS AND SUPERCEDES  
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# BARGE "MM 136"

## 3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-05"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN
0		0	4,702.37	0	4,484.92	0	4,231.91	0	3,978.91	0	3,725.90	0	3,432.10	0	3,067.39	0	2,702.69	0	2,337.98
1/4	1/4	1/4	4,700.42	1/4	4,479.65	1/4	4,226.64	1/4	3,973.64	1/4	3,720.63	1/4	3,424.50	1/4	3,059.79	1/4	2,695.09	1/4	2,330.38
1/2	1/2	1/2	4,698.47	1/2	4,474.38	1/2	4,221.37	1/2	3,968.36	1/2	3,715.35	1/2	3,416.90	1/2	3,052.19	1/2	2,687.49	1/2	2,322.78
3/4	3/4	3/4	4,696.52	3/4	4,469.11	3/4	4,216.10	3/4	3,963.09	3/4	3,710.08	3/4	3,409.30	3/4	3,044.60	3/4	2,679.90	3/4	2,315.19
1		1	4,694.57	1	4,463.84	1	4,210.83	1	3,957.82	1	3,704.81	1	3,401.70	1	3,037.00	1	2,672.30	1	2,307.59
1/4	1/4	1/4	4,691.84	1/4	4,458.57	1/4	4,205.56	1/4	3,952.55	1/4	3,699.54	1/4	3,394.10	1/4	3,029.40	1/4	2,664.70	1/4	2,299.99
1/2	1/2	1/2	4,689.11	1/2	4,453.29	1/2	4,200.29	1/2	3,947.28	1/2	3,694.27	1/2	3,386.50	1/2	3,021.80	1/2	2,657.10	1/2	2,292.40
3/4	3/4	3/4	4,686.37	3/4	4,448.02	3/4	4,195.02	3/4	3,942.01	3/4	3,689.00	3/4	3,378.91	3/4	3,014.21	3/4	2,649.50	3/4	2,284.80
2		2	4,683.64	2	4,442.75	2	4,189.75	2	3,936.74	2	3,683.73	2	3,371.31	2	3,006.61	2	2,641.90	2	2,277.20
1/4	1/4	1/4	4,680.13	1/4	4,437.48	1/4	4,184.48	1/4	3,931.47	1/4	3,678.46	1/4	3,363.71	1/4	2,999.01	1/4	2,634.30	1/4	2,269.60
1/2	1/2	1/2	4,676.62	1/2	4,432.21	1/2	4,179.20	1/2	3,926.19	1/2	3,673.19	1/2	3,356.11	1/2	2,991.41	1/2	2,626.70	1/2	2,262.01
3/4	3/4	3/4	4,673.11	3/4	4,426.94	3/4	4,173.93	3/4	3,920.92	3/4	3,667.92	3/4	3,348.52	3/4	2,983.82	3/4	2,619.11	3/4	2,254.41
3		3	4,669.60	3	4,421.67	3	4,168.66	3	3,915.65	3	3,662.65	3	3,340.92	3	2,976.22	3	2,611.51	3	2,246.81
1/4	1/4	1/4	4,665.31	1/4	4,416.40	1/4	4,163.39	1/4	3,910.38	1/4	3,657.38	1/4	3,333.32	1/4	2,968.62	1/4	2,603.91	1/4	2,239.21
1/2	1/2	1/2	4,661.01	1/2	4,411.13	1/2	4,158.12	1/2	3,905.11	1/2	3,652.10	1/2	3,325.72	1/2	2,961.02	1/2	2,596.31	1/2	2,231.62
3/4	3/4	3/4	4,656.72	3/4	4,405.86	3/4	4,152.85	3/4	3,899.84	3/4	3,646.83	3/4	3,318.13	3/4	2,953.42	3/4	2,588.72	3/4	2,224.02
4		4	4,652.42	4	4,400.59	4	4,147.58	4	3,894.57	4	3,641.56	4	3,310.53	4	2,945.82	4	2,581.12	4	2,216.42
1/4	1/4	1/4	4,647.44	1/4	4,395.32	1/4	4,142.31	1/4	3,889.30	1/4	3,636.19	1/4	3,302.93	1/4	2,938.22	1/4	2,573.52	1/4	2,208.82
1/2	1/2	1/2	4,642.47	1/2	4,390.04	1/2	4,137.03	1/2	3,884.03	1/2	3,630.82	1/2	3,295.33	1/2	2,930.62	1/2	2,565.92	1/2	2,201.22
3/4	3/4	3/4	4,637.49	3/4	4,384.77	3/4	4,131.76	3/4	3,878.76	3/4	3,625.46	3/4	3,287.74	3/4	2,923.03	3/4	2,558.33	3/4	2,193.62
5		5	4,632.51	5	4,379.50	5	4,126.49	5	3,873.49	5	3,620.09	5	3,280.14	5	2,915.43	5	2,550.73	5	2,186.02
1/4	1/4	1/4	4,627.24	1/4	4,374.23	1/4	4,121.22	1/4	3,868.22	1/4	3,614.39	1/4	3,272.54	1/4	2,907.83	1/4	2,543.13	1/4	2,178.42
1/2	1/2	1/2	4,621.97	1/2	4,368.96	1/2	4,115.95	1/2	3,862.94	1/2	3,608.68	1/2	3,264.94	1/2	2,900.23	1/2	2,535.53	1/2	2,170.83
3/4	3/4	3/4	4,616.70	3/4	4,363.69	3/4	4,110.68	3/4	3,857.67	3/4	3,602.98	3/4	3,257.34	3/4	2,892.64	3/4	2,527.94	3/4	2,163.23
6		6	4,611.43	6	4,358.42	6	4,105.41	6	3,852.40	6	3,597.28	6	3,249.74	6	2,885.04	6	2,520.34	6	2,155.63
1/4	1/4	1/4	4,606.16	1/4	4,353.15	1/4	4,100.14	1/4	3,847.13	1/4	3,591.23	1/4	3,242.14	1/4	2,877.44	1/4	2,512.74	1/4	2,148.03
1/2	1/2	1/2	4,600.89	1/2	4,347.87	1/2	4,094.87	1/2	3,841.86	1/2	3,585.18	1/2	3,234.54	1/2	2,869.84	1/2	2,505.14	1/2	2,140.44
3/4	3/4	3/4	4,595.61	3/4	4,342.60	3/4	4,089.60	3/4	3,836.59	3/4	3,579.13	3/4	3,226.95	3/4	2,862.25	3/4	2,497.54	3/4	2,132.84
7		7	4,590.34	7	4,337.33	7	4,084.33	7	3,831.32	7	3,573.08	7	3,219.35	7	2,854.65	7	2,489.94	7	2,125.24
1/4	1/4	1/4	4,585.07	1/4	4,332.06	1/4	4,079.06	1/4	3,826.05	1/4	3,566.69	1/4	3,211.75	1/4	2,847.05	1/4	2,482.34	1/4	2,117.64
1/2	1/2	1/2	4,579.80	1/2	4,326.79	1/2	4,073.78	1/2	3,820.77	1/2	3,560.29	1/2	3,204.15	1/2	2,839.45	1/2	2,474.74	1/2	2,110.05
3/4	3/4	3/4	4,574.53	3/4	4,321.52	3/4	4,068.51	3/4	3,815.50	3/4	3,553.90	3/4	3,196.56	3/4	2,831.86	3/4	2,467.15	3/4	2,102.45
8		8	4,569.26	8	4,316.25	8	4,063.24	8	3,810.23	8	3,547.51	8	3,188.96	8	2,824.26	8	2,459.55	8	2,094.85
1/4	1/4	1/4	4,563.99	1/4	4,310.98	1/4	4,057.97	1/4	3,804.96	1/4	3,540.77	1/4	3,181.36	1/4	2,816.66	1/4	2,451.95	1/4	2,087.25
1/2	1/2	1/2	4,558.72	1/2	4,305.71	1/2	4,052.70	1/2	3,799.69	1/2	3,534.03	1/2	3,173.76	1/2	2,809.06	1/2	2,444.35	1/2	2,079.66
3/4	3/4	3/4	4,553.44	3/4	4,300.44	3/4	4,047.43	3/4	3,794.42	3/4	3,527.29	3/4	3,166.17	3/4	2,801.46	3/4	2,436.76	3/4	2,072.06
9		9	4,548.17	9	4,295.17	9	4,042.16	9	3,789.15	9	3,520.55	9	3,158.57	9	2,793.86	9	2,429.16	9	2,064.46
1/4	1/4	1/4	4,542.90	1/4	4,289.90	1/4	4,036.89	1/4	3,783.88	1/4	3,513.46	1/4	3,150.97	1/4	2,786.26	1/4	2,421.56	1/4	2,056.86
1/2	1/2	1/2	4,537.63	1/2	4,284.62	1/2	4,031.61	1/2	3,778.61	1/2	3,506.38	1/2	3,143.37	1/2	2,778.66	1/2	2,413.96	1/2	2,049.26
3/4	3/4	3/4	4,532.36	3/4	4,279.35	3/4	4,026.34	3/4	3,773.34	3/4	3,499.29	3/4	3,135.78	3/4	2,771.07	3/4	2,406.37	3/4	2,041.66
10	4,708.88	10	4,527.09	10	4,274.08	10	4,021.07	10	3,768.07	10	3,492.21	10	3,128.18	10	2,763.47	10	2,398.77	10	2,034.06
1/4	4,708.42	1/4	4,521.82	1/4	4,268.81	1/4	4,015.80	1/4	3,762.80	1/4	3,484.78	1/4	3,120.58	1/4	2,755.87	1/4	2,391.17	1/4	2,026.46
1/2	4,707.96	1/2	4,516.55	1/2	4,263.54	1/2	4,010.53	1/2	3,757.52	1/2	3,477.35	1/2	3,112.98	1/2	2,748.27	1/2	2,383.57	1/2	2,018.87
3/4	4,707.50	3/4	4,511.28	3/4	4,258.27	3/4	4,005.26	3/4	3,752.25	3/4	3,469.92	3/4	3,105.38	3/4	2,740.68	3/4	2,375.98	3/4	2,011.27
11	4,707.04	11	4,506.01	11	4,253.00	11	3,999.99	11	3,746.98	11	3,462.49	11	3,097.78	11	2,733.08	11	2,368.38	11	2,003.67
1/4	4,705.87	1/4	4,500.74	1/4	4,247.73	1/4	3,994.72	1/4	3,741.71	1/4	3,454.89	1/4	3,090.18	1/4	2,725.48	1/4	2,360.78	1/4	1,996.07
1/2	4,704.71	1/2	4,495.46	1/2	4,242.45	1/2	3,989.45	1/2	3,736.44	1/2	3,447.29	1/2	3,082.58	1/2	2,717.88	1/2	2,353.18	1/2	1,988.48
3/4	4,703.54	3/4	4,490.19	3/4	4,237.18	3/4	3,984.18	3/4	3,731.17	3/4	3,439.70	3/4	3,074.99	3/4	2,710.29	3/4	2,345.58	3/4	1,980.88

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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 LIP OF 2" HERMETIC VALVE.  
 GAUGE POINT: (HERMETIC) LOCATED 11'-00" OFF CENTERLINE AND 44'-00" FORWARD OF AFT BULKHEAD.

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

*Paul J. Adams*



# BARGE "MM 136"

# 3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-05"

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.	
IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT
0	1,973.28	0	1,608.58	0	1,243.87	0	879.90	0	516.25	0	151.79	0		0		0		0	
1/4	1,965.68	1/4	1,600.98	1/4	1,236.27	1/4	872.34	1/4	508.66	1/4	144.19	1/4		1/4		1/4		1/4	
1/2	1,958.09	1/2	1,593.38	1/2	1,228.67	1/2	864.77	1/2	501.06	1/2	136.60	1/2		1/2		1/2		1/2	
3/4	1,950.49	3/4	1,585.78	3/4	1,221.08	3/4	857.21	3/4	493.47	3/4	129.00	3/4		3/4		3/4		3/4	
1	1,942.89	1	1,578.18	1	1,213.48	1	849.65	1	485.88	1	121.41	1		1		1		1	
1/4	1,935.29	1/4	1,570.58	1/4	1,205.88	1/4	842.09	1/4	478.29	1/4	113.82	1/4		1/4		1/4		1/4	
1/2	1,927.70	1/2	1,562.99	1/2	1,198.28	1/2	834.52	1/2	470.69	1/2	106.22	1/2		1/2		1/2		1/2	
3/4	1,920.10	3/4	1,555.39	3/4	1,190.69	3/4	826.96	3/4	463.10	3/4	98.63	3/4		3/4		3/4		3/4	
2	1,912.50	2	1,547.79	2	1,183.09	2	819.40	2	455.51	2	91.04	2		2		2		2	
1/4	1,904.90	1/4	1,540.19	1/4	1,175.49	1/4	811.84	1/4	447.91	1/4	83.45	1/4		1/4		1/4		1/4	
1/2	1,897.30	1/2	1,532.60	1/2	1,167.89	1/2	804.27	1/2	440.32	1/2	75.85	1/2		1/2		1/2		1/2	
3/4	1,889.70	3/4	1,525.00	3/4	1,160.30	3/4	796.71	3/4	432.72	3/4	68.26	3/4		3/4		3/4		3/4	
3	1,882.10	3	1,517.40	3	1,152.70	3	789.15	3	425.13	3	60.67	3		3		3		3	
1/4	1,874.50	1/4	1,509.80	1/4	1,145.10	1/4	781.59	1/4	417.54	1/4	53.89	1/4		1/4		1/4		1/4	
1/2	1,866.91	1/2	1,502.21	1/2	1,137.50	1/2	774.02	1/2	409.94	1/2	47.11	1/2		1/2		1/2		1/2	
3/4	1,859.31	3/4	1,494.61	3/4	1,129.90	3/4	766.46	3/4	402.35	3/4	40.34	3/4		3/4		3/4		3/4	
4	1,851.71	4	1,487.01	4	1,122.30	4	758.90	4	394.76	4	33.56	4		4		4		4	
1/4	1,844.11	1/4	1,479.41	1/4	1,114.70	1/4	751.33	1/4	387.17	1/4	28.68	1/4		1/4		1/4		1/4	
1/2	1,836.52	1/2	1,471.82	1/2	1,107.10	1/2	743.77	1/2	379.57	1/2	23.80	1/2		1/2		1/2		1/2	
3/4	1,828.92	3/4	1,464.22	3/4	1,099.51	3/4	736.20	3/4	371.98	3/4	18.92	3/4		3/4		3/4		3/4	
5	1,821.32	5	1,456.62	5	1,091.91	5	728.64	5	364.39	5	14.04	5		5		5		5	
1/4	1,813.72	1/4	1,449.02	1/4	1,084.31	1/4	721.08	1/4	356.80	1/4		1/4		1/4		1/4		1/4	
1/2	1,806.13	1/2	1,441.42	1/2	1,076.71	1/2	713.51	1/2	349.20	1/2		1/2		1/2		1/2		1/2	
3/4	1,798.53	3/4	1,433.82	3/4	1,069.12	3/4	705.95	3/4	341.61	3/4		3/4		3/4		3/4		3/4	
6	1,790.93	6	1,426.22	6	1,061.52	6	698.39	6	334.02	6		6		6		6		6	
1/4	1,783.33	1/4	1,418.62	1/4	1,053.93	1/4	690.82	1/4	326.43	1/4		1/4		1/4		1/4		1/4	
1/2	1,775.74	1/2	1,411.03	1/2	1,046.34	1/2	683.25	1/2	318.83	1/2		1/2		1/2		1/2		1/2	
3/4	1,768.14	3/4	1,403.43	3/4	1,038.75	3/4	675.68	3/4	311.24	3/4		3/4		3/4		3/4		3/4	
7	1,760.54	7	1,395.83	7	1,031.16	7	668.11	7	303.65	7		7		7		7		7	
1/4	1,752.94	1/4	1,388.23	1/4	1,023.60	1/4	660.52	1/4	296.05	1/4		1/4		1/4		1/4		1/4	
1/2	1,745.34	1/2	1,380.64	1/2	1,016.03	1/2	652.92	1/2	288.46	1/2		1/2		1/2		1/2		1/2	
3/4	1,737.74	3/4	1,373.04	3/4	1,008.47	3/4	645.33	3/4	280.86	3/4		3/4		3/4		3/4		3/4	
8	1,730.14	8	1,365.44	8	1,000.91	8	637.74	8	273.27	8		8		8		8		8	
1/4	1,722.54	1/4	1,357.84	1/4	993.35	1/4	630.15	1/4	265.68	1/4		1/4		1/4		1/4		1/4	
1/2	1,714.95	1/2	1,350.25	1/2	985.78	1/2	622.55	1/2	258.08	1/2		1/2		1/2		1/2		1/2	
3/4	1,707.35	3/4	1,342.65	3/4	978.22	3/4	614.96	3/4	250.49	3/4		3/4		3/4		3/4		3/4	
9	1,699.75	9	1,335.05	9	970.66	9	607.37	9	242.90	9		9		9		9		9	
1/4	1,692.15	1/4	1,327.43	1/4	963.10	1/4	599.77	1/4	235.31	1/4		1/4		1/4		1/4		1/4	
1/2	1,684.56	1/2	1,319.81	1/2	955.53	1/2	592.18	1/2	227.71	1/2		1/2		1/2		1/2		1/2	
3/4	1,676.96	3/4	1,312.18	3/4	947.97	3/4	584.58	3/4	220.12	3/4		3/4		3/4		3/4		3/4	
10	1,669.36	10	1,304.56	10	940.41	10	576.99	10	212.53	10		10		10		10		10	
1/4	1,661.76	1/4	1,296.99	1/4	932.84	1/4	569.40	1/4	204.94	1/4		1/4		1/4		1/4		1/4	
1/2	1,654.17	1/2	1,289.41	1/2	925.28	1/2	561.80	1/2	197.34	1/2		1/2		1/2		1/2		1/2	
3/4	1,646.57	3/4	1,281.84	3/4	917.71	3/4	554.21	3/4	189.75	3/4		3/4		3/4		3/4		3/4	
11	1,638.97	11	1,274.26	11	910.15	11	546.62	11	182.16	11		11		11		11		11	
1/4	1,631.37	1/4	1,266.66	1/4	902.59	1/4	539.03	1/4	174.57	1/4		1/4		1/4		1/4		1/4	
1/2	1,623.78	1/2	1,259.07	1/2	895.02	1/2	531.43	1/2	166.97	1/2		1/2		1/2		1/2		1/2	
3/4	1,616.18	3/4	1,251.47	3/4	887.46	3/4	523.84	3/4	159.38	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 07/21/2014 SW  
DECK MEASUREMENTS: 07/25/2014 SW  
PRINTED: 07/25/2014 SW

CANCELS AND SUPERCEDES  
ALL PRIOR TO 07/2014

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





# BARGE "MM 136"

3 STBD  
ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-05"

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	4,702.37	0	4,484.92	0	4,231.91	0	3,978.91	0	3,725.90	0	3,432.10	0	3,067.39	0	2,702.69	0	2,337.98
1/4	1/4	1/4	4,700.42	1/4	4,479.65	1/4	4,226.64	1/4	3,973.64	1/4	3,720.63	1/4	3,424.50	1/4	3,059.79	1/4	2,695.09	1/4	2,330.38
1/2	1/2	1/2	4,698.47	1/2	4,474.38	1/2	4,221.37	1/2	3,968.36	1/2	3,715.35	1/2	3,416.90	1/2	3,052.19	1/2	2,687.49	1/2	2,322.78
3/4	3/4	3/4	4,696.52	3/4	4,469.11	3/4	4,216.10	3/4	3,963.09	3/4	3,710.08	3/4	3,409.30	3/4	3,044.60	3/4	2,679.90	3/4	2,315.19
1		1	4,694.57	1	4,463.84	1	4,210.83	1	3,957.82	1	3,704.81	1	3,401.70	1	3,037.00	1	2,672.30	1	2,307.59
1/4	1/4	1/4	4,691.84	1/4	4,458.57	1/4	4,205.56	1/4	3,952.55	1/4	3,699.54	1/4	3,394.10	1/4	3,029.40	1/4	2,664.70	1/4	2,299.99
1/2	1/2	1/2	4,689.11	1/2	4,453.29	1/2	4,200.29	1/2	3,947.28	1/2	3,694.27	1/2	3,386.50	1/2	3,021.80	1/2	2,657.10	1/2	2,292.40
3/4	3/4	3/4	4,686.37	3/4	4,448.02	3/4	4,195.02	3/4	3,942.01	3/4	3,689.00	3/4	3,378.91	3/4	3,014.21	3/4	2,649.50	3/4	2,284.80
2		2	4,683.64	2	4,442.75	2	4,189.75	2	3,936.74	2	3,683.73	2	3,371.31	2	3,006.61	2	2,641.90	2	2,277.20
1/4	1/4	1/4	4,680.13	1/4	4,437.48	1/4	4,184.48	1/4	3,931.47	1/4	3,678.46	1/4	3,363.71	1/4	2,999.01	1/4	2,634.30	1/4	2,269.60
1/2	1/2	1/2	4,676.62	1/2	4,432.21	1/2	4,179.20	1/2	3,926.19	1/2	3,673.19	1/2	3,356.11	1/2	2,991.41	1/2	2,626.70	1/2	2,262.01
3/4	3/4	3/4	4,673.11	3/4	4,426.94	3/4	4,173.93	3/4	3,920.92	3/4	3,667.92	3/4	3,348.52	3/4	2,983.82	3/4	2,619.11	3/4	2,254.41
3		3	4,669.60	3	4,421.67	3	4,168.66	3	3,915.65	3	3,662.65	3	3,340.92	3	2,976.22	3	2,611.51	3	2,246.81
1/4	1/4	1/4	4,665.31	1/4	4,416.40	1/4	4,163.39	1/4	3,910.38	1/4	3,657.38	1/4	3,333.32	1/4	2,968.62	1/4	2,603.91	1/4	2,239.21
1/2	1/2	1/2	4,661.01	1/2	4,411.13	1/2	4,158.12	1/2	3,905.11	1/2	3,652.10	1/2	3,325.72	1/2	2,961.02	1/2	2,596.31	1/2	2,231.62
3/4	3/4	3/4	4,656.72	3/4	4,405.86	3/4	4,152.85	3/4	3,899.84	3/4	3,646.83	3/4	3,318.13	3/4	2,953.42	3/4	2,588.72	3/4	2,224.02
4		4	4,652.42	4	4,400.59	4	4,147.58	4	3,894.57	4	3,641.56	4	3,310.53	4	2,945.82	4	2,581.12	4	2,216.42
1/4	1/4	1/4	4,647.44	1/4	4,395.32	1/4	4,142.31	1/4	3,889.30	1/4	3,636.19	1/4	3,302.93	1/4	2,938.22	1/4	2,573.52	1/4	2,208.82
1/2	1/2	1/2	4,642.47	1/2	4,390.04	1/2	4,137.03	1/2	3,884.03	1/2	3,630.82	1/2	3,295.33	1/2	2,930.62	1/2	2,565.92	1/2	2,201.22
3/4	3/4	3/4	4,637.49	3/4	4,384.77	3/4	4,131.76	3/4	3,878.76	3/4	3,625.46	3/4	3,287.74	3/4	2,923.03	3/4	2,558.33	3/4	2,193.62
5		5	4,632.51	5	4,379.50	5	4,126.49	5	3,873.49	5	3,620.09	5	3,280.14	5	2,915.43	5	2,550.73	5	2,186.02
1/4	1/4	1/4	4,627.24	1/4	4,374.23	1/4	4,121.22	1/4	3,868.22	1/4	3,614.39	1/4	3,272.54	1/4	2,907.83	1/4	2,543.13	1/4	2,178.42
1/2	1/2	1/2	4,621.97	1/2	4,368.96	1/2	4,115.95	1/2	3,862.94	1/2	3,608.68	1/2	3,264.94	1/2	2,900.23	1/2	2,535.53	1/2	2,170.83
3/4	3/4	3/4	4,616.70	3/4	4,363.69	3/4	4,110.68	3/4	3,857.67	3/4	3,602.98	3/4	3,257.34	3/4	2,892.64	3/4	2,527.94	3/4	2,163.23
6		6	4,611.43	6	4,358.42	6	4,105.41	6	3,852.40	6	3,597.28	6	3,249.74	6	2,885.04	6	2,520.34	6	2,155.63
1/4	1/4	1/4	4,606.16	1/4	4,353.15	1/4	4,100.14	1/4	3,847.13	1/4	3,591.23	1/4	3,242.14	1/4	2,877.44	1/4	2,512.74	1/4	2,148.03
1/2	1/2	1/2	4,600.89	1/2	4,347.87	1/2	4,094.87	1/2	3,841.86	1/2	3,585.18	1/2	3,234.54	1/2	2,869.84	1/2	2,505.14	1/2	2,140.44
3/4	3/4	3/4	4,595.61	3/4	4,342.60	3/4	4,089.60	3/4	3,836.59	3/4	3,579.13	3/4	3,226.95	3/4	2,862.25	3/4	2,497.54	3/4	2,132.84
7		7	4,590.34	7	4,337.33	7	4,084.33	7	3,831.32	7	3,573.08	7	3,219.35	7	2,854.65	7	2,489.94	7	2,125.24
1/4	1/4	1/4	4,585.07	1/4	4,332.06	1/4	4,079.06	1/4	3,826.05	1/4	3,566.69	1/4	3,211.75	1/4	2,847.05	1/4	2,482.34	1/4	2,117.64
1/2	1/2	1/2	4,579.80	1/2	4,326.79	1/2	4,073.78	1/2	3,820.77	1/2	3,560.29	1/2	3,204.15	1/2	2,839.45	1/2	2,474.74	1/2	2,110.05
3/4	3/4	3/4	4,574.53	3/4	4,321.52	3/4	4,068.51	3/4	3,815.50	3/4	3,553.90	3/4	3,196.56	3/4	2,831.86	3/4	2,467.15	3/4	2,102.45
8		8	4,569.26	8	4,316.25	8	4,063.24	8	3,810.23	8	3,547.51	8	3,188.96	8	2,824.26	8	2,459.55	8	2,094.85
1/4	1/4	1/4	4,563.99	1/4	4,310.98	1/4	4,057.97	1/4	3,804.96	1/4	3,540.77	1/4	3,181.36	1/4	2,816.66	1/4	2,451.95	1/4	2,087.25
1/2	1/2	1/2	4,558.72	1/2	4,305.71	1/2	4,052.70	1/2	3,799.69	1/2	3,534.03	1/2	3,173.76	1/2	2,809.06	1/2	2,444.35	1/2	2,079.66
3/4	3/4	3/4	4,553.44	3/4	4,300.44	3/4	4,047.43	3/4	3,794.42	3/4	3,527.29	3/4	3,166.17	3/4	2,801.46	3/4	2,436.76	3/4	2,072.06
9		9	4,548.17	9	4,295.17	9	4,042.16	9	3,789.15	9	3,520.55	9	3,158.57	9	2,793.86	9	2,429.16	9	2,064.46
1/4	1/4	1/4	4,542.90	1/4	4,289.90	1/4	4,036.89	1/4	3,783.88	1/4	3,513.46	1/4	3,150.97	1/4	2,786.26	1/4	2,421.56	1/4	2,056.86
1/2	1/2	1/2	4,537.63	1/2	4,284.62	1/2	4,031.61	1/2	3,778.61	1/2	3,506.38	1/2	3,143.37	1/2	2,778.66	1/2	2,413.96	1/2	2,049.26
3/4	3/4	3/4	4,532.36	3/4	4,279.35	3/4	4,026.34	3/4	3,773.34	3/4	3,499.29	3/4	3,135.78	3/4	2,771.07	3/4	2,406.37	3/4	2,041.66
10	4,708.88	10	4,527.09	10	4,274.08	10	4,021.07	10	3,768.07	10	3,492.21	10	3,128.18	10	2,763.47	10	2,398.77	10	2,034.06
1/4	4,708.42	1/4	4,521.82	1/4	4,268.81	1/4	4,015.80	1/4	3,762.80	1/4	3,484.78	1/4	3,120.58	1/4	2,755.87	1/4	2,391.17	1/4	2,026.46
1/2	4,707.96	1/2	4,516.55	1/2	4,263.54	1/2	4,010.53	1/2	3,757.52	1/2	3,477.35	1/2	3,112.98	1/2	2,748.27	1/2	2,383.57	1/2	2,018.87
3/4	4,707.50	3/4	4,511.28	3/4	4,258.27	3/4	4,005.26	3/4	3,752.25	3/4	3,469.92	3/4	3,105.38	3/4	2,740.68	3/4	2,375.98	3/4	2,011.27
11	4,707.04	11	4,506.01	11	4,253.00	11	3,999.99	11	3,746.98	11	3,462.49	11	3,097.78	11	2,733.08	11	2,368.38	11	2,003.67
1/4	4,705.87	1/4	4,500.74	1/4	4,247.73	1/4	3,994.72	1/4	3,741.71	1/4	3,454.89	1/4	3,090.18	1/4	2,725.48	1/4	2,360.78	1/4	1,996.07
1/2	4,704.71	1/2	4,495.46	1/2	4,242.45	1/2	3,989.45	1/2	3,736.44	1/2	3,447.29	1/2	3,082.58	1/2	2,717.88	1/2	2,353.18	1/2	1,988.48
3/4	4,703.54	3/4	4,490.19	3/4	4,237.18	3/4	3,984.18	3/4	3,731.17	3/4	3,439.70	3/4	3,074.99	3/4	2,710.29	3/4	2,345.58	3/4	1,980.88

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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 LIP OF 2" HERMETIC VALVE.  
 GAUGE POINT: (HERMETIC) LOCATED 11'-00" OFF CENTERLINE AND 44'-00" FORWARD OF AFT BULKHEAD.

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



# BARGE "MM 136"

## 3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-05"

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.	
0	1,973.28	0	1,608.58	0	1,243.87	0	879.90	0	516.25	0	151.79	0	0	0	0	0	0	0	0
1/4	1,965.68	1/4	1,600.98	1/4	1,236.27	1/4	872.34	1/4	508.66	1/4	144.19	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,958.09	1/2	1,593.38	1/2	1,228.67	1/2	864.77	1/2	501.06	1/2	136.60	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,950.49	3/4	1,585.78	3/4	1,221.08	3/4	857.21	3/4	493.47	3/4	129.00	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	1,942.89	1	1,578.18	1	1,213.48	1	849.65	1	485.88	1	121.41	1	1	1	1	1	1	1	1
1/4	1,935.29	1/4	1,570.58	1/4	1,205.88	1/4	842.09	1/4	478.29	1/4	113.82	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,927.70	1/2	1,562.99	1/2	1,198.28	1/2	834.52	1/2	470.69	1/2	106.22	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,920.10	3/4	1,555.39	3/4	1,190.69	3/4	826.96	3/4	463.10	3/4	98.63	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	1,912.50	2	1,547.79	2	1,183.09	2	819.40	2	455.51	2	91.04	2	2	2	2	2	2	2	2
1/4	1,904.90	1/4	1,540.19	1/4	1,175.49	1/4	811.84	1/4	447.91	1/4	83.45	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,897.30	1/2	1,532.60	1/2	1,167.89	1/2	804.27	1/2	440.32	1/2	75.85	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,889.70	3/4	1,525.00	3/4	1,160.30	3/4	796.71	3/4	432.72	3/4	68.26	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	1,882.10	3	1,517.40	3	1,152.70	3	789.15	3	425.13	3	60.67	3	3	3	3	3	3	3	3
1/4	1,874.50	1/4	1,509.80	1/4	1,145.10	1/4	781.59	1/4	417.54	1/4	53.89	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,866.91	1/2	1,502.21	1/2	1,137.50	1/2	774.02	1/2	409.94	1/2	47.11	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,859.31	3/4	1,494.61	3/4	1,129.90	3/4	766.46	3/4	402.35	3/4	40.34	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	1,851.71	4	1,487.01	4	1,122.30	4	758.90	4	394.76	4	33.56	4	4	4	4	4	4	4	4
1/4	1,844.11	1/4	1,479.41	1/4	1,114.70	1/4	751.33	1/4	387.17	1/4	28.68	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,836.52	1/2	1,471.82	1/2	1,107.10	1/2	743.77	1/2	379.57	1/2	23.80	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,828.92	3/4	1,464.22	3/4	1,099.51	3/4	736.20	3/4	371.98	3/4	18.92	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	1,821.32	5	1,456.62	5	1,091.91	5	728.64	5	364.39	5	14.04	5	5	5	5	5	5	5	5
1/4	1,813.72	1/4	1,449.02	1/4	1,084.31	1/4	721.08	1/4	356.80	1/4	11.00	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,806.13	1/2	1,441.42	1/2	1,076.71	1/2	713.51	1/2	349.20	1/2	8.00	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,798.53	3/4	1,433.82	3/4	1,069.12	3/4	705.95	3/4	341.61	3/4	5.00	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	1,790.93	6	1,426.22	6	1,061.52	6	698.39	6	334.02	6	2.00	6	6	6	6	6	6	6	6
1/4	1,783.33	1/4	1,418.62	1/4	1,053.93	1/4	690.82	1/4	326.43	1/4	1.00	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,775.74	1/2	1,411.03	1/2	1,046.34	1/2	683.25	1/2	318.83	1/2	0.50	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,768.14	3/4	1,403.43	3/4	1,038.75	3/4	675.68	3/4	311.24	3/4	0.25	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	1,760.54	7	1,395.83	7	1,031.16	7	668.11	7	303.65	7	0.12	7	7	7	7	7	7	7	7
1/4	1,752.94	1/4	1,388.23	1/4	1,023.60	1/4	660.52	1/4	296.05	1/4	0.06	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,745.34	1/2	1,380.64	1/2	1,016.03	1/2	652.92	1/2	288.46	1/2	0.03	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,737.74	3/4	1,373.04	3/4	1,008.47	3/4	645.33	3/4	280.86	3/4	0.01	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	1,730.14	8	1,365.44	8	1,000.91	8	637.74	8	273.27	8	0.00	8	8	8	8	8	8	8	8
1/4	1,722.54	1/4	1,357.84	1/4	993.35	1/4	630.15	1/4	265.68	1/4	0.00	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,714.95	1/2	1,350.25	1/2	985.78	1/2	622.55	1/2	258.08	1/2	0.00	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,707.35	3/4	1,342.65	3/4	978.22	3/4	614.96	3/4	250.49	3/4	0.00	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	1,699.75	9	1,335.05	9	970.66	9	607.37	9	242.90	9	0.00	9	9	9	9	9	9	9	9
1/4	1,692.15	1/4	1,327.43	1/4	963.10	1/4	599.77	1/4	235.31	1/4	0.00	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,684.56	1/2	1,319.81	1/2	955.53	1/2	592.18	1/2	227.71	1/2	0.00	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,676.96	3/4	1,312.18	3/4	947.97	3/4	584.58	3/4	220.12	3/4	0.00	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	1,669.36	10	1,304.56	10	940.41	10	576.99	10	212.53	10	0.00	10	10	10	10	10	10	10	10
1/4	1,661.76	1/4	1,296.99	1/4	932.84	1/4	569.40	1/4	204.94	1/4	0.00	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,654.17	1/2	1,289.41	1/2	925.28	1/2	561.80	1/2	197.34	1/2	0.00	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,646.57	3/4	1,281.84	3/4	917.71	3/4	554.21	3/4	189.75	3/4	0.00	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	1,638.97	11	1,274.26	11	910.15	11	546.62	11	182.16	11	0.00	11	11	11	11	11	11	11	11
1/4	1,631.37	1/4	1,266.66	1/4	902.59	1/4	539.03	1/4	174.57	1/4	0.00	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,623.78	1/2	1,259.07	1/2	895.02	1/2	531.43	1/2	166.97	1/2	0.00	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,616.18	3/4	1,251.47	3/4	887.46	3/4	523.84	3/4	159.38	3/4	0.00	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 07/21/2014 SW  
DECK MEASUREMENTS: 07/25/2014 SW  
PRINTED: 07/25/2014 SW

CANCELS AND SUPERCEDES  
ALL PRIOR TO 07/2014

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