



# BARGE "KIRBY 32004B"

## ULLAGE TRIM TABLE

	1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.	
	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>
1 PORT	00-1/4	- 00-1/4	00-3/8	- 00-3/8	00-5/8	- 00-5/8	00-3/4	- 00-3/4	01-0/8	- 01-0/8	01-1/8	- 01-1/8
1 STBD	00-1/4	- 00-1/4	00-3/8	- 00-3/8	00-5/8	- 00-5/8	00-3/4	- 00-3/4	01-0/8	- 01-0/8	01-1/8	- 01-1/8
2 PORT	00-1/4	- 00-1/4	00-3/8	- 00-3/8	00-5/8	- 00-5/8	00-7/8	- 00-7/8	01-0/8	- 01-0/8	01-1/4	- 01-1/4
2 STBD	00-1/4	- 00-1/4	00-3/8	- 00-3/8	00-5/8	- 00-5/8	00-7/8	- 00-7/8	01-0/8	- 01-0/8	01-1/4	- 01-1/4
3 PORT	00-1/8	- 00-1/8	00-3/8	- 00-3/8	00-1/2	- 00-1/2	00-3/4	- 00-3/4	00-7/8	- 00-7/8	01-1/8	- 01-1/8
3 STBD	00-1/4	- 00-1/4	00-3/8	- 00-3/8	00-5/8	- 00-5/8	00-3/4	- 00-3/4	01-0/8	- 01-0/8	01-1/8	- 01-1/8

(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 - 00-3/8"  
 FOR A MEASURED ULLAGE GAUGE OF 4'-00" ON 1 PORT, THE TRIM CORRECTED ULLAGE IS 3'-11 5/8"

LENGTH BETWEEN DRAFT MARKS: 276'-00"

September 29, 2010

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

<http://www.pmacorp.net>



# BARGE "KIRBY 32004B"

## 1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-04 3/4"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT
0		0		0		0	5,185.24	0	4,798.46	0	4,411.68	0	4,024.90	0	3,638.12	0	3,251.34	0	2,864.56
1/4		1/4		1/4		1/4	5,177.18	1/4	4,790.40	1/4	4,403.62	1/4	4,016.84	1/4	3,630.06	1/4	3,243.28	1/4	2,856.50
1/2		1/2		1/2		1/2	5,169.12	1/2	4,782.34	1/2	4,395.56	1/2	4,008.78	1/2	3,622.00	1/2	3,235.22	1/2	2,848.45
3/4		3/4		3/4		3/4	5,161.06	3/4	4,774.28	3/4	4,387.50	3/4	4,000.73	3/4	3,613.95	3/4	3,227.17	3/4	2,840.39
1		1		1		1	5,153.00	1	4,766.23	1	4,379.45	1	3,992.67	1	3,605.89	1	3,219.11	1	2,832.33
1/4		1/4		1/4		1/4	5,144.95	1/4	4,758.17	1/4	4,371.39	1/4	3,984.61	1/4	3,597.83	1/4	3,211.05	1/4	2,824.27
1/2		1/2		1/2		1/2	5,136.89	1/2	4,750.11	1/2	4,363.33	1/2	3,976.55	1/2	3,589.77	1/2	3,202.99	1/2	2,816.21
3/4		3/4		3/4		3/4	5,128.83	3/4	4,742.05	3/4	4,355.27	3/4	3,968.49	3/4	3,581.71	3/4	3,194.94	3/4	2,808.16
2		2		2		2	5,120.77	2	4,733.99	2	4,347.21	2	3,960.44	2	3,573.66	2	3,186.88	2	2,800.10
1/4		1/4		1/4		1/4	5,112.72	1/4	4,725.94	1/4	4,339.16	1/4	3,952.38	1/4	3,565.60	1/4	3,178.82	1/4	2,792.04
1/2		1/2		1/2		1/2	5,104.66	1/2	4,717.88	1/2	4,331.10	1/2	3,944.32	1/2	3,557.54	1/2	3,170.76	1/2	2,783.98
3/4		3/4		3/4		3/4	5,096.60	3/4	4,709.82	3/4	4,323.04	3/4	3,936.26	3/4	3,549.48	3/4	3,162.70	3/4	2,775.92
3		3		3		3	5,088.54	3	4,701.76	3	4,314.98	3	3,928.20	3	3,541.42	3	3,154.65	3	2,767.87
1/4		1/4		1/4		1/4	5,080.48	1/4	4,693.70	1/4	4,306.93	1/4	3,920.15	1/4	3,533.37	1/4	3,146.59	1/4	2,759.81
1/2		1/2		1/2		1/2	5,072.43	1/2	4,685.65	1/2	4,298.87	1/2	3,912.09	1/2	3,525.31	1/2	3,138.53	1/2	2,751.75
3/4		3/4		3/4		3/4	5,064.37	3/4	4,677.59	3/4	4,290.81	3/4	3,904.03	3/4	3,517.25	3/4	3,130.47	3/4	2,743.69
4		4		4		4	5,056.31	4	4,669.53	4	4,282.75	4	3,895.97	4	3,509.19	4	3,122.41	4	2,735.63
1/4		1/4		1/4		1/4	5,048.25	1/4	4,661.47	1/4	4,274.69	1/4	3,887.91	1/4	3,501.14	1/4	3,114.36	1/4	2,727.58
1/2		1/2		1/2		1/2	5,040.19	1/2	4,653.42	1/2	4,266.64	1/2	3,879.86	1/2	3,493.08	1/2	3,106.30	1/2	2,719.52
3/4		3/4		3/4		3/4	5,032.14	3/4	4,645.36	3/4	4,258.58	3/4	3,871.80	3/4	3,485.02	3/4	3,098.24	3/4	2,711.46
5		5		5		5	5,024.08	5	4,637.30	5	4,250.52	5	3,863.74	5	3,476.96	5	3,090.18	5	2,703.40
1/4		1/4		1/4		1/4	5,016.02	1/4	4,629.24	1/4	4,242.46	1/4	3,855.68	1/4	3,468.90	1/4	3,082.12	1/4	2,695.35
1/2		1/2		1/2		1/2	5,007.96	1/2	4,621.18	1/2	4,234.40	1/2	3,847.63	1/2	3,460.85	1/2	3,074.07	1/2	2,687.29
3/4		3/4		3/4		3/4	4,999.90	3/4	4,613.13	3/4	4,226.35	3/4	3,839.57	3/4	3,452.79	3/4	3,066.01	3/4	2,679.23
6		6		6		6	4,991.85	6	4,605.07	6	4,218.29	6	3,831.51	6	3,444.73	6	3,057.95	6	2,671.17
1/4		1/4		1/4	5,344.06	1/4	4,983.79	1/4	4,597.01	1/4	4,210.23	1/4	3,823.45	1/4	3,436.67	1/4	3,049.89	1/4	2,663.11
1/2		1/2		1/2	5,340.20	1/2	4,975.73	1/2	4,588.95	1/2	4,202.17	1/2	3,815.39	1/2	3,428.61	1/2	3,041.84	1/2	2,655.06
3/4		3/4		3/4	5,336.34	3/4	4,967.67	3/4	4,580.89	3/4	4,194.11	3/4	3,807.34	3/4	3,420.56	3/4	3,033.78	3/4	2,647.00
7		7		7	5,331.13	7	4,959.62	7	4,572.84	7	4,186.06	7	3,799.28	7	3,412.50	7	3,025.72	7	2,638.94
1/4		1/4		1/4	5,325.93	1/4	4,951.56	1/4	4,564.78	1/4	4,178.00	1/4	3,791.22	1/4	3,404.44	1/4	3,017.66	1/4	2,630.88
1/2		1/2		1/2	5,320.72	1/2	4,943.50	1/2	4,556.72	1/2	4,169.94	1/2	3,783.16	1/2	3,396.38	1/2	3,009.60	1/2	2,622.82
3/4		3/4		3/4	5,315.52	3/4	4,935.44	3/4	4,548.66	3/4	4,161.88	3/4	3,775.10	3/4	3,388.32	3/4	3,001.55	3/4	2,614.77
8		8		8	5,308.97	8	4,927.38	8	4,540.60	8	4,153.83	8	3,767.05	8	3,380.27	8	2,993.49	8	2,606.71
1/4		1/4		1/4	5,302.42	1/4	4,919.33	1/4	4,532.55	1/4	4,145.77	1/4	3,758.99	1/4	3,372.21	1/4	2,985.43	1/4	2,598.65
1/2		1/2		1/2	5,295.88	1/2	4,911.27	1/2	4,524.49	1/2	4,137.71	1/2	3,750.93	1/2	3,364.15	1/2	2,977.37	1/2	2,590.59
3/4		3/4		3/4	5,289.33	3/4	4,903.21	3/4	4,516.43	3/4	4,129.65	3/4	3,742.87	3/4	3,356.09	3/4	2,969.31	3/4	2,582.53
9		9		9	5,281.44	9	4,895.15	9	4,508.37	9	4,121.59	9	3,734.81	9	3,348.04	9	2,961.26	9	2,574.48
1/4		1/4		1/4	5,273.54	1/4	4,887.09	1/4	4,500.32	1/4	4,113.54	1/4	3,726.76	1/4	3,339.98	1/4	2,953.20	1/4	2,566.42
1/2		1/2		1/2	5,265.65	1/2	4,879.04	1/2	4,492.26	1/2	4,105.48	1/2	3,718.70	1/2	3,331.92	1/2	2,945.14	1/2	2,558.36
3/4		3/4		3/4	5,257.76	3/4	4,870.98	3/4	4,484.20	3/4	4,097.42	3/4	3,710.64	3/4	3,323.86	3/4	2,937.08	3/4	2,550.30
10		10		10	5,249.70	10	4,862.92	10	4,476.14	10	4,089.36	10	3,702.58	10	3,315.80	10	2,929.02	10	2,542.25
1/4		1/4		1/4	5,241.64	1/4	4,854.86	1/4	4,468.08	1/4	4,081.30	1/4	3,694.53	1/4	3,307.75	1/4	2,920.97	1/4	2,534.19
1/2		1/2		1/2	5,233.58	1/2	4,846.80	1/2	4,460.03	1/2	4,073.25	1/2	3,686.47	1/2	3,299.69	1/2	2,912.91	1/2	2,526.13
3/4		3/4		3/4	5,225.53	3/4	4,838.75	3/4	4,451.97	3/4	4,065.19	3/4	3,678.41	3/4	3,291.63	3/4	2,904.85	3/4	2,518.07
11		11		11	5,217.47	11	4,830.69	11	4,443.91	11	4,057.13	11	3,670.35	11	3,283.57	11	2,896.79	11	2,510.01
1/4		1/4		1/4	5,209.41	1/4	4,822.63	1/4	4,435.85	1/4	4,049.07	1/4	3,662.29	1/4	3,275.51	1/4	2,888.74	1/4	2,501.96
1/2		1/2		1/2	5,201.35	1/2	4,814.57	1/2	4,427.79	1/2	4,041.01	1/2	3,654.24	1/2	3,267.46	1/2	2,880.68	1/2	2,493.90
3/4		3/4		3/4	5,193.29	3/4	4,806.52	3/4	4,419.74	3/4	4,032.96	3/4	3,646.18	3/4	3,259.40	3/4	2,872.62	3/4	2,485.84

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.  
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.  
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.  
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN WITH "HERMETIC" CLOSED GAUGING DEVICE.  
 GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 50'-09" FORWARD OF AFT BULKHEAD.

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



# BARGE "KIRBY 32004B"

## 1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-04 3/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,477.78	0	2,091.00	0	1,704.22	0	1,317.44	0	931.13	0	544.36	0	157.59	0		0			
1/4	2,469.72	1/4	2,082.95	1/4	1,696.17	1/4	1,309.39	1/4	923.07	1/4	536.30	1/4	149.53	1/4		1/4			
1/2	2,461.67	1/2	2,074.89	1/2	1,688.11	1/2	1,301.33	1/2	915.01	1/2	528.24	1/2	141.47	1/2		1/2			
3/4	2,453.61	3/4	2,066.83	3/4	1,680.05	3/4	1,293.27	3/4	906.95	3/4	520.19	3/4	133.42	3/4		3/4			
1	2,445.55	1	2,058.77	1	1,671.99	1	1,285.22	1	898.90	1	512.13	1	125.36	1		1			
1/4	2,437.49	1/4	2,050.71	1/4	1,663.93	1/4	1,277.17	1/4	890.84	1/4	504.07	1/4	117.30	1/4		1/4			
1/2	2,429.43	1/2	2,042.66	1/2	1,655.88	1/2	1,269.12	1/2	882.78	1/2	496.01	1/2	109.24	1/2		1/2			
3/4	2,421.38	3/4	2,034.60	3/4	1,647.82	3/4	1,261.06	3/4	874.72	3/4	487.95	3/4	101.18	3/4		3/4			
2	2,413.32	2	2,026.54	2	1,639.76	2	1,253.02	2	866.67	2	479.90	2	93.13	2		2			
1/4	2,405.26	1/4	2,018.48	1/4	1,631.70	1/4	1,244.98	1/4	858.61	1/4	471.84	1/4	85.07	1/4		1/4			
1/2	2,397.20	1/2	2,010.42	1/2	1,623.64	1/2	1,236.93	1/2	850.55	1/2	463.78	1/2	77.01	1/2		1/2			
3/4	2,389.15	3/4	2,002.37	3/4	1,615.59	3/4	1,228.89	3/4	842.49	3/4	455.72	3/4	68.95	3/4		3/4			
3	2,381.09	3	1,994.31	3	1,607.53	3	1,220.84	3	834.44	3	447.67	3	61.78	3		3			
1/4	2,373.03	1/4	1,986.25	1/4	1,599.47	1/4	1,212.80	1/4	826.38	1/4	439.61	1/4	54.60	1/4		1/4			
1/2	2,364.97	1/2	1,978.19	1/2	1,591.41	1/2	1,204.76	1/2	818.32	1/2	431.55	1/2	47.42	1/2		1/2			
3/4	2,356.91	3/4	1,970.13	3/4	1,583.36	3/4	1,196.71	3/4	810.26	3/4	423.49	3/4	40.25	3/4		3/4			
4	2,348.86	4	1,962.08	4	1,575.30	4	1,188.67	4	802.20	4	415.44	4	34.96	4		4			
1/4	2,340.80	1/4	1,954.02	1/4	1,567.24	1/4	1,180.63	1/4	794.15	1/4	407.38	1/4	29.67	1/4		1/4			
1/2	2,332.74	1/2	1,945.96	1/2	1,559.18	1/2	1,172.58	1/2	786.09	1/2	399.32	1/2	24.38	1/2		1/2			
3/4	2,324.68	3/4	1,937.90	3/4	1,551.12	3/4	1,164.54	3/4	778.03	3/4	391.26	3/4	19.09	3/4		3/4			
5	2,316.62	5	1,929.84	5	1,543.07	5	1,156.49	5	769.97	5	383.20	5		5		5			
1/4	2,308.57	1/4	1,921.79	1/4	1,535.01	1/4	1,148.45	1/4	761.92	1/4	375.15	1/4		1/4		1/4			
1/2	2,300.51	1/2	1,913.73	1/2	1,526.95	1/2	1,140.41	1/2	753.86	1/2	367.09	1/2		1/2		1/2			
3/4	2,292.45	3/4	1,905.67	3/4	1,518.89	3/4	1,132.36	3/4	745.80	3/4	359.03	3/4		3/4		3/4			
6	2,284.39	6	1,897.61	6	1,510.83	6	1,124.32	6	737.74	6	350.97	6		6		6			
1/4	2,276.33	1/4	1,889.56	1/4	1,502.78	1/4	1,116.28	1/4	729.69	1/4	342.92	1/4		1/4		1/4			
1/2	2,268.28	1/2	1,881.50	1/2	1,494.72	1/2	1,108.23	1/2	721.63	1/2	334.86	1/2		1/2		1/2			
3/4	2,260.22	3/4	1,873.44	3/4	1,486.66	3/4	1,100.19	3/4	713.57	3/4	326.80	3/4		3/4		3/4			
7	2,252.16	7	1,865.38	7	1,478.60	7	1,092.15	7	705.51	7	318.74	7		7		7			
1/4	2,244.10	1/4	1,857.32	1/4	1,470.54	1/4	1,084.10	1/4	697.45	1/4	310.69	1/4		1/4		1/4			
1/2	2,236.05	1/2	1,849.27	1/2	1,462.49	1/2	1,076.06	1/2	689.40	1/2	302.63	1/2		1/2		1/2			
3/4	2,227.99	3/4	1,841.21	3/4	1,454.43	3/4	1,068.02	3/4	681.34	3/4	294.57	3/4		3/4		3/4			
8	2,219.93	8	1,833.15	8	1,446.37	8	1,059.97	8	673.28	8	286.51	8		8		8			
1/4	2,211.87	1/4	1,825.09	1/4	1,438.31	1/4	1,051.93	1/4	665.22	1/4	278.45	1/4		1/4		1/4			
1/2	2,203.81	1/2	1,817.03	1/2	1,430.26	1/2	1,043.89	1/2	657.17	1/2	270.40	1/2		1/2		1/2			
3/4	2,195.76	3/4	1,808.98	3/4	1,422.20	3/4	1,035.84	3/4	649.11	3/4	262.34	3/4		3/4		3/4			
9	2,187.70	9	1,800.92	9	1,414.14	9	1,027.79	9	641.05	9	254.28	9		9		9			
1/4	2,179.64	1/4	1,792.86	1/4	1,406.08	1/4	1,019.74	1/4	632.99	1/4	246.22	1/4		1/4		1/4			
1/2	2,171.58	1/2	1,784.80	1/2	1,398.02	1/2	1,011.69	1/2	624.94	1/2	238.17	1/2		1/2		1/2			
3/4	2,163.52	3/4	1,776.74	3/4	1,389.97	3/4	1,003.64	3/4	616.88	3/4	230.11	3/4		3/4		3/4			
10	2,155.47	10	1,768.69	10	1,381.91	10	995.59	10	608.82	10	222.05	10		10		10			
1/4	2,147.41	1/4	1,760.63	1/4	1,373.85	1/4	987.53	1/4	600.76	1/4	213.99	1/4		1/4		1/4			
1/2	2,139.35	1/2	1,752.57	1/2	1,365.79	1/2	979.47	1/2	592.70	1/2	205.93	1/2		1/2		1/2			
3/4	2,131.29	3/4	1,744.51	3/4	1,357.73	3/4	971.42	3/4	584.65	3/4	197.88	3/4		3/4		3/4			
11	2,123.23	11	1,736.46	11	1,349.68	11	963.36	11	576.59	11	189.82	11		11		11			
1/4	2,115.18	1/4	1,728.40	1/4	1,341.62	1/4	955.30	1/4	568.53	1/4	181.76	1/4		1/4		1/4			
1/2	2,107.12	1/2	1,720.34	1/2	1,333.56	1/2	947.24	1/2	560.47	1/2	173.70	1/2		1/2		1/2			
3/4	2,099.06	3/4	1,712.28	3/4	1,325.50	3/4	939.19	3/4	552.42	3/4	165.65	3/4		3/4		3/4			

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 09/29/2010 CL - SW  
CALCULATED: 09/29/2010 CL  
PRINTED: 09/29/2010 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 09/2010

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



# BARGE "KIRBY 32004B"

## 1 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-05"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.			
IN		IN		IN		IN		IN		IN		IN		IN		IN		IN			
0		0		0		0	5,189.83	0	4,803.48	0	4,417.12	0	4,030.77	0	3,644.42	0	3,258.07	0	2,871.72		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,181.78	1/4	4,795.43	1/4	4,409.08	1/4	4,022.72	1/4	3,636.37	1/4	3,250.02	1/4	2,863.67		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,173.73	1/2	4,787.38	1/2	4,401.03	1/2	4,014.67	1/2	3,628.32	1/2	3,241.97	1/2	2,855.62		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,165.68	3/4	4,779.33	3/4	4,392.98	3/4	4,006.63	3/4	3,620.27	3/4	3,233.92	3/4	2,847.57		
1		1		1		1	5,157.63	1	4,771.28	1	4,384.93	1	3,998.58	1	3,612.22	1	3,225.87	1	2,839.52		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,149.58	1/4	4,763.23	1/4	4,376.88	1/4	3,990.53	1/4	3,604.18	1/4	3,217.82	1/4	2,831.47		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,141.53	1/2	4,755.18	1/2	4,368.83	1/2	3,982.48	1/2	3,596.13	1/2	3,209.77	1/2	2,823.42		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,133.49	3/4	4,747.13	3/4	4,360.78	3/4	3,974.43	3/4	3,588.08	3/4	3,201.73	3/4	2,815.37		
2		2		2		2	5,125.44	2	4,739.08	2	4,352.73	2	3,966.38	2	3,580.03	2	3,193.68	2	2,807.32		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,117.39	1/4	4,731.04	1/4	4,344.68	1/4	3,958.33	1/4	3,571.98	1/4	3,185.63	1/4	2,799.28		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,109.34	1/2	4,722.99	1/2	4,336.63	1/2	3,950.28	1/2	3,563.93	1/2	3,177.58	1/2	2,791.23		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,101.29	3/4	4,714.94	3/4	4,328.59	3/4	3,942.23	3/4	3,555.88	3/4	3,169.53	3/4	2,783.18		
3		3		3		3	5,093.24	3	4,706.89	3	4,320.54	3	3,934.18	3	3,547.83	3	3,161.48	3	2,775.13		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,085.19	1/4	4,698.84	1/4	4,312.49	1/4	3,926.14	1/4	3,539.78	1/4	3,153.43	1/4	2,767.08		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,077.14	1/2	4,690.79	1/2	4,304.44	1/2	3,918.09	1/2	3,531.73	1/2	3,145.38	1/2	2,759.03		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,069.09	3/4	4,682.74	3/4	4,296.39	3/4	3,910.04	3/4	3,523.69	3/4	3,137.33	3/4	2,750.98		
4		4		4		4	5,061.04	4	4,674.69	4	4,288.34	4	3,901.99	4	3,515.64	4	3,129.28	4	2,742.93		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,053.00	1/4	4,666.64	1/4	4,280.29	1/4	3,893.94	1/4	3,507.59	1/4	3,121.24	1/4	2,734.88		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,044.95	1/2	4,658.59	1/2	4,272.24	1/2	3,885.89	1/2	3,499.54	1/2	3,113.19	1/2	2,726.83		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,036.90	3/4	4,650.55	3/4	4,264.19	3/4	3,877.84	3/4	3,491.49	3/4	3,105.14	3/4	2,718.79		
5		5		5		5	5,028.85	5	4,642.50	5	4,256.14	5	3,869.79	5	3,483.44	5	3,097.09	5	2,710.74		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,020.80	1/4	4,634.45	1/4	4,248.10	1/4	3,861.74	1/4	3,475.39	1/4	3,089.04	1/4	2,702.69		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,012.75	1/2	4,626.40	1/2	4,240.05	1/2	3,853.69	1/2	3,467.34	1/2	3,080.99	1/2	2,694.64		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,004.70	3/4	4,618.35	3/4	4,232.00	3/4	3,845.65	3/4	3,459.29	3/4	3,072.94	3/4	2,686.59		
6		6		6		6	4,996.65	6	4,610.30	6	4,223.95	6	3,837.60	6	3,451.24	6	3,064.89	6	2,678.54		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,988.60	1/4	4,602.25	1/4	4,215.90	1/4	3,829.55	1/4	3,443.20	1/4	3,056.84	1/4	2,670.49		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,338.04	1/2	4,980.55	1/2	4,207.85	1/2	3,821.50	1/2	3,435.15	1/2	3,048.79	1/2	2,662.44		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,334.35	3/4	4,972.51	3/4	4,586.15	3/4	4,199.80	3/4	3,813.45	3/4	3,427.10	3/4	3,040.75	3/4	2,654.39
7		7		7		7	5,330.66	7	4,964.46	7	4,578.10	7	4,191.75	7	3,805.40	7	3,419.05	7	3,032.70	7	2,646.34
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,325.63	1/4	4,956.41	1/4	4,570.06	1/4	4,183.70	1/4	3,797.35	1/4	3,411.00	1/4	3,024.65	1/4	2,638.30
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,320.60	1/2	4,948.36	1/2	4,562.01	1/2	4,175.65	1/2	3,789.30	1/2	3,402.95	1/2	3,016.60	1/2	2,630.25
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,315.57	3/4	4,940.31	3/4	4,553.96	3/4	4,167.61	3/4	3,781.25	3/4	3,394.90	3/4	3,008.55	3/4	2,622.20
8		8		8		8	5,310.54	8	4,932.26	8	4,545.91	8	4,159.56	8	3,773.20	8	3,386.85	8	3,000.50	8	2,614.15
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,304.17	1/4	4,924.21	1/4	4,537.86	1/4	4,151.51	1/4	3,765.16	1/4	3,378.80	1/4	2,992.45	1/4	2,606.10
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,297.80	1/2	4,916.16	1/2	4,529.81	1/2	4,143.46	1/2	3,757.11	1/2	3,370.75	1/2	2,984.40	1/2	2,598.05
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,291.42	3/4	4,908.11	3/4	4,521.76	3/4	4,135.41	3/4	3,749.06	3/4	3,362.71	3/4	2,976.35	3/4	2,590.00
9		9		9		9	5,285.05	9	4,900.06	9	4,513.71	9	4,127.36	9	3,741.01	9	3,354.66	9	2,968.30	9	2,581.95
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,277.34	1/4	4,892.02	1/4	4,505.66	1/4	4,119.31	1/4	3,732.96	1/4	3,346.61	1/4	2,960.26	1/4	2,573.90
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,269.64	1/2	4,883.97	1/2	4,497.61	1/2	4,111.26	1/2	3,724.91	1/2	3,338.56	1/2	2,952.21	1/2	2,565.85
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,261.93	3/4	4,875.92	3/4	4,489.57	3/4	4,103.21	3/4	3,716.86	3/4	3,330.51	3/4	2,944.16	3/4	2,557.81
10		10		10		10	5,254.22	10	4,867.87	10	4,481.52	10	4,095.16	10	3,708.81	10	3,322.46	10	2,936.11	10	2,549.76
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,246.17	1/4	4,859.82	1/4	4,473.47	1/4	4,087.12	1/4	3,700.76	1/4	3,314.41	1/4	2,928.06	1/4	2,541.71
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,238.12	1/2	4,851.77	1/2	4,465.42	1/2	4,079.07	1/2	3,692.71	1/2	3,306.36	1/2	2,920.01	1/2	2,533.66
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,230.07	3/4	4,843.72	3/4	4,457.37	3/4	4,071.02	3/4	3,684.67	3/4	3,298.31	3/4	2,911.96	3/4	2,525.61
11		11		11		11	5,222.02	11	4,835.67	11	4,449.32	11	4,062.97	11	3,676.62	11	3,290.26	11	2,903.91	11	2,517.56
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,213.98	1/4	4,827.62	1/4	4,441.27	1/4	4,054.92	1/4	3,668.57	1/4	3,282.22	1/4	2,895.86	1/4	2,509.51
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,205.93	1/2	4,819.57	1/2	4,433.22	1/2	4,046.87	1/2	3,660.52	1/2	3,274.17	1/2	2,887.81	1/2	2,501.46
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,197.88	3/4	4,811.53	3/4	4,425.17	3/4	4,038.82	3/4	3,652.47	3/4	3,266.12	3/4	2,879.77	3/4	2,493.41

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.  
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.  
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.  
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN WITH "HERMETIC" CLOSED GAUGING DEVICE.  
 GAUGE POINT: (HERMETIC) LOCATED 13'-00" OFF CENTERLINE AND 50'-09" FORWARD OF AFT BULKHEAD.

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



# BARGE "KIRBY 32004B"

## 1 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-05"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,485.36	0	2,099.01	0	1,712.66	0	1,326.32	0	942.13	0	555.82	0	169.49	0		0			
1/4	2,477.32	1/4	2,090.96	1/4	1,704.61	1/4	1,318.30	1/4	934.09	1/4	547.78	1/4	161.44	1/4		1/4			
1/2	2,469.27	1/2	2,082.91	1/2	1,696.56	1/2	1,310.28	1/2	926.05	1/2	539.73	1/2	153.39	1/2		1/2			
3/4	2,461.22	3/4	2,074.87	3/4	1,688.51	3/4	1,302.26	3/4	918.01	3/4	531.68	3/4	145.34	3/4		3/4			
1	2,453.17	1	2,066.82	1	1,680.46	1	1,294.24	1	909.97	1	523.63	1	137.29	1		1			
1/4	2,445.12	1/4	2,058.77	1/4	1,672.42	1/4	1,286.23	1/4	901.92	1/4	515.58	1/4	129.24	1/4		1/4			
1/2	2,437.07	1/2	2,050.72	1/2	1,664.37	1/2	1,278.23	1/2	893.87	1/2	507.53	1/2	121.19	1/2		1/2			
3/4	2,429.02	3/4	2,042.67	3/4	1,656.32	3/4	1,270.22	3/4	885.82	3/4	499.48	3/4	113.15	3/4		3/4			
2	2,420.97	2	2,034.62	2	1,648.27	2	1,262.22	2	877.77	2	491.43	2	105.10	2		2			
1/4	2,412.92	1/4	2,026.57	1/4	1,640.22	1/4	1,254.22	1/4	869.72	1/4	483.39	1/4	97.05	1/4		1/4			
1/2	2,404.87	1/2	2,018.52	1/2	1,632.17	1/2	1,246.22	1/2	861.67	1/2	475.34	1/2	89.00	1/2		1/2			
3/4	2,396.83	3/4	2,010.47	3/4	1,624.12	3/4	1,238.22	3/4	853.63	3/4	467.29	3/4	80.95	3/4		3/4			
3	2,388.78	3	2,002.42	3	1,616.07	3	1,230.22	3	845.58	3	459.24	3	72.90	3		3			
1/4	2,380.73	1/4	1,994.38	1/4	1,608.02	1/4	1,222.22	1/4	837.53	1/4	451.19	1/4	65.61	1/4		1/4			
1/2	2,372.68	1/2	1,986.33	1/2	1,599.97	1/2	1,214.23	1/2	829.48	1/2	443.14	1/2	58.31	1/2		1/2			
3/4	2,364.63	3/4	1,978.28	3/4	1,591.93	3/4	1,206.23	3/4	821.43	3/4	435.09	3/4	51.02	3/4		3/4			
4	2,356.58	4	1,970.23	4	1,583.88	4	1,198.23	4	813.38	4	427.04	4	43.72	4		4			
1/4	2,348.53	1/4	1,962.18	1/4	1,575.83	1/4	1,190.23	1/4	805.33	1/4	419.00	1/4	38.19	1/4		1/4			
1/2	2,340.48	1/2	1,954.13	1/2	1,567.78	1/2	1,182.24	1/2	797.28	1/2	410.95	1/2	32.65	1/2		1/2			
3/4	2,332.43	3/4	1,946.08	3/4	1,559.73	3/4	1,174.24	3/4	789.24	3/4	402.90	3/4	27.12	3/4		3/4			
5	2,324.38	5	1,938.03	5	1,551.68	5	1,166.24	5	781.19	5	394.85	5	21.59	5		5			
1/4	2,316.34	1/4	1,929.98	1/4	1,543.63	1/4	1,158.25	1/4	773.14	1/4	386.80	1/4		1/4		1/4			
1/2	2,308.29	1/2	1,921.93	1/2	1,535.58	1/2	1,150.25	1/2	765.09	1/2	378.75	1/2		1/2		1/2			
3/4	2,300.24	3/4	1,913.89	3/4	1,527.53	3/4	1,142.25	3/4	757.04	3/4	370.70	3/4		3/4		3/4			
6	2,292.19	6	1,905.84	6	1,519.48	6	1,134.26	6	748.99	6	362.66	6		6		6			
1/4	2,284.14	1/4	1,897.79	1/4	1,511.44	1/4	1,126.26	1/4	740.94	1/4	354.61	1/4		1/4		1/4			
1/2	2,276.09	1/2	1,889.74	1/2	1,503.39	1/2	1,118.26	1/2	732.90	1/2	346.56	1/2		1/2		1/2			
3/4	2,268.04	3/4	1,881.69	3/4	1,495.34	3/4	1,110.26	3/4	724.85	3/4	338.51	3/4		3/4		3/4			
7	2,259.99	7	1,873.64	7	1,487.29	7	1,102.27	7	716.80	7	330.46	7		7		7			
1/4	2,251.94	1/4	1,865.59	1/4	1,479.24	1/4	1,094.27	1/4	708.75	1/4	322.41	1/4		1/4		1/4			
1/2	2,243.89	1/2	1,857.54	1/2	1,471.19	1/2	1,086.27	1/2	700.70	1/2	314.36	1/2		1/2		1/2			
3/4	2,235.85	3/4	1,849.49	3/4	1,463.14	3/4	1,078.28	3/4	692.65	3/4	306.31	3/4		3/4		3/4			
8	2,227.80	8	1,841.44	8	1,455.09	8	1,070.28	8	684.60	8	298.27	8		8		8			
1/4	2,219.75	1/4	1,833.40	1/4	1,447.04	1/4	1,062.28	1/4	676.55	1/4	290.22	1/4		1/4		1/4			
1/2	2,211.70	1/2	1,825.35	1/2	1,438.99	1/2	1,054.28	1/2	668.51	1/2	282.17	1/2		1/2		1/2			
3/4	2,203.65	3/4	1,817.30	3/4	1,430.95	3/4	1,046.29	3/4	660.46	3/4	274.12	3/4		3/4		3/4			
9	2,195.60	9	1,809.25	9	1,422.90	9	1,038.29	9	652.41	9	266.07	9		9		9			
1/4	2,187.55	1/4	1,801.20	1/4	1,414.85	1/4	1,030.28	1/4	644.36	1/4	258.02	1/4		1/4		1/4			
1/2	2,179.50	1/2	1,793.15	1/2	1,406.80	1/2	1,022.28	1/2	636.31	1/2	249.97	1/2		1/2		1/2			
3/4	2,171.45	3/4	1,785.10	3/4	1,398.75	3/4	1,014.27	3/4	628.26	3/4	241.92	3/4		3/4		3/4			
10	2,163.40	10	1,777.05	10	1,390.70	10	1,006.27	10	620.21	10	233.88	10		10		10			
1/4	2,155.36	1/4	1,769.00	1/4	1,382.65	1/4	998.25	1/4	612.16	1/4	225.83	1/4		1/4		1/4			
1/2	2,147.31	1/2	1,760.95	1/2	1,374.60	1/2	990.24	1/2	604.12	1/2	217.78	1/2		1/2		1/2			
3/4	2,139.26	3/4	1,752.91	3/4	1,366.55	3/4	982.22	3/4	596.07	3/4	209.73	3/4		3/4		3/4			
11	2,131.21	11	1,744.86	11	1,358.50	11	974.21	11	588.02	11	201.68	11		11		11			
1/4	2,123.16	1/4	1,736.81	1/4	1,350.46	1/4	966.19	1/4	579.97	1/4	193.63	1/4		1/4		1/4			
1/2	2,115.11	1/2	1,728.76	1/2	1,342.41	1/2	958.17	1/2	571.92	1/2	185.58	1/2		1/2		1/2			
3/4	2,107.06	3/4	1,720.71	3/4	1,334.37	3/4	950.15	3/4	563.87	3/4	177.54	3/4		3/4		3/4			

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 09/29/2010 CL - SW  
CALCULATED: 09/29/2010 CL  
PRINTED: 09/29/2010 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 09/2010

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



# BARGE "KIRBY 32004B"

## 2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-04 3/4"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.			
IN		IN		IN		IN		IN		IN		IN		IN		IN		IN			
0		0		0		0	5,206.22	0	4,817.87	0	4,429.53	0	4,041.18	0	3,652.84	0	3,264.50	0	2,876.15		
1/4		1/4		1/4		1/4	5,198.13	1/4	4,809.78	1/4	4,421.44	1/4	4,033.09	1/4	3,644.75	1/4	3,256.40	1/4	2,868.06		
1/2		1/2		1/2		1/2	5,190.03	1/2	4,801.69	1/2	4,413.35	1/2	4,025.00	1/2	3,636.66	1/2	3,248.31	1/2	2,859.97		
3/4		3/4		3/4		3/4	5,181.94	3/4	4,793.60	3/4	4,405.26	3/4	4,016.91	3/4	3,628.57	3/4	3,240.22	3/4	2,851.88		
1		1		1		1	5,173.85	1	4,785.51	1	4,397.17	1	4,008.82	1	3,620.48	1	3,232.13	1	2,843.79		
1/4		1/4		1/4		1/4	5,165.76	1/4	4,777.42	1/4	4,389.07	1/4	4,000.73	1/4	3,612.39	1/4	3,224.04	1/4	2,835.70		
1/2		1/2		1/2		1/2	5,157.67	1/2	4,769.33	1/2	4,380.98	1/2	3,992.64	1/2	3,604.30	1/2	3,215.95	1/2	2,827.61		
3/4		3/4		3/4		3/4	5,149.58	3/4	4,761.24	3/4	4,372.89	3/4	3,984.55	3/4	3,596.21	3/4	3,207.86	3/4	2,819.52		
2		2		2		2	5,141.49	2	4,753.15	2	4,364.80	2	3,976.46	2	3,588.12	2	3,199.77	2	2,811.43		
1/4		1/4		1/4		1/4	5,133.40	1/4	4,745.06	1/4	4,356.71	1/4	3,968.37	1/4	3,580.02	1/4	3,191.68	1/4	2,803.34		
1/2		1/2		1/2		1/2	5,125.31	1/2	4,736.97	1/2	4,348.62	1/2	3,960.28	1/2	3,571.93	1/2	3,183.59	1/2	2,795.25		
3/4		3/4		3/4		3/4	5,117.22	3/4	4,728.88	3/4	4,340.53	3/4	3,952.19	3/4	3,563.84	3/4	3,175.50	3/4	2,787.16		
3		3		3		3	5,109.13	3	4,720.79	3	4,332.44	3	3,944.10	3	3,555.75	3	3,167.41	3	2,779.07		
1/4		1/4		1/4		1/4	5,101.04	1/4	4,712.69	1/4	4,324.35	1/4	3,936.01	1/4	3,547.66	1/4	3,159.32	1/4	2,770.98		
1/2		1/2		1/2		1/2	5,092.95	1/2	4,704.60	1/2	4,316.26	1/2	3,927.92	1/2	3,539.57	1/2	3,151.23	1/2	2,762.88		
3/4		3/4		3/4		3/4	5,084.86	3/4	4,696.51	3/4	4,308.17	3/4	3,919.83	3/4	3,531.48	3/4	3,143.14	3/4	2,754.79		
4		4		4		4	5,076.77	4	4,688.42	4	4,300.08	4	3,911.74	4	3,523.39	4	3,135.05	4	2,746.70		
1/4		1/4		1/4		1/4	5,068.68	1/4	4,680.33	1/4	4,291.99	1/4	3,903.64	1/4	3,515.30	1/4	3,126.96	1/4	2,738.61		
1/2		1/2		1/2		1/2	5,060.59	1/2	4,672.24	1/2	4,283.90	1/2	3,895.55	1/2	3,507.21	1/2	3,118.87	1/2	2,730.52		
3/4		3/4		3/4		3/4	5,052.50	3/4	4,664.15	3/4	4,275.81	3/4	3,887.46	3/4	3,499.12	3/4	3,110.78	3/4	2,722.43		
5		5		5		5	5,044.41	5	4,656.06	5	4,267.72	5	3,879.37	5	3,491.03	5	3,102.69	5	2,714.34		
1/4		1/4		1/4		1/4	5,036.31	1/4	4,647.97	1/4	4,259.63	1/4	3,871.28	1/4	3,482.94	1/4	3,094.59	1/4	2,706.25		
1/2		1/2		1/2		1/2	5,028.22	1/2	4,639.88	1/2	4,251.54	1/2	3,863.19	1/2	3,474.85	1/2	3,086.50	1/2	2,698.16		
3/4		3/4		3/4		3/4	5,020.13	3/4	4,631.79	3/4	4,243.45	3/4	3,855.10	3/4	3,466.76	3/4	3,078.41	3/4	2,690.07		
6		6		6		6	5,012.04	6	4,623.70	6	4,235.36	6	3,847.01	6	3,458.67	6	3,070.32	6	2,681.98		
1/4		1/4		1/4		1/4	5,365.65	1/4	5,003.95	1/4	4,615.61	1/4	4,227.26	1/4	3,838.92	1/4	3,450.58	1/4	3,062.23	1/4	2,673.89
1/2		1/2		1/2		1/2	5,361.77	1/2	4,995.86	1/2	4,607.52	1/2	4,219.17	1/2	3,830.83	1/2	3,442.49	1/2	3,054.14	1/2	2,665.80
3/4		3/4		3/4		3/4	5,357.89	3/4	4,987.77	3/4	4,599.43	3/4	4,211.08	3/4	3,822.74	3/4	3,434.40	3/4	3,046.05	3/4	2,657.71
7		7		7		7	5,352.67	7	4,979.68	7	4,591.34	7	4,202.99	7	3,814.65	7	3,426.31	7	3,037.96	7	2,649.62
1/4		1/4		1/4		1/4	5,347.44	1/4	4,971.59	1/4	4,583.25	1/4	4,194.90	1/4	3,806.56	1/4	3,418.21	1/4	3,029.87	1/4	2,641.53
1/2		1/2		1/2		1/2	5,342.22	1/2	4,963.50	1/2	4,575.16	1/2	4,186.81	1/2	3,798.47	1/2	3,410.12	1/2	3,021.78	1/2	2,633.44
3/4		3/4		3/4		3/4	5,336.99	3/4	4,955.41	3/4	4,567.07	3/4	4,178.72	3/4	3,790.38	3/4	3,402.03	3/4	3,013.69	3/4	2,625.35
8		8		8		8	5,330.42	8	4,947.32	8	4,558.98	8	4,170.63	8	3,782.29	8	3,393.94	8	3,005.60	8	2,617.26
1/4		1/4		1/4		1/4	5,323.84	1/4	4,939.23	1/4	4,550.88	1/4	4,162.54	1/4	3,774.20	1/4	3,385.85	1/4	2,997.51	1/4	2,609.17
1/2		1/2		1/2		1/2	5,317.27	1/2	4,931.14	1/2	4,542.79	1/2	4,154.45	1/2	3,766.11	1/2	3,377.76	1/2	2,989.42	1/2	2,601.07
3/4		3/4		3/4		3/4	5,310.69	3/4	4,923.05	3/4	4,534.70	3/4	4,146.36	3/4	3,758.02	3/4	3,369.67	3/4	2,981.33	3/4	2,592.98
9		9		9		9	5,302.78	9	4,914.96	9	4,526.61	9	4,138.27	9	3,749.93	9	3,361.58	9	2,973.24	9	2,584.89
1/4		1/4		1/4		1/4	5,294.86	1/4	4,906.87	1/4	4,518.52	1/4	4,130.18	1/4	3,741.83	1/4	3,353.49	1/4	2,965.15	1/4	2,576.80
1/2		1/2		1/2		1/2	5,286.95	1/2	4,898.78	1/2	4,510.43	1/2	4,122.09	1/2	3,733.74	1/2	3,345.40	1/2	2,957.06	1/2	2,568.71
3/4		3/4		3/4		3/4	5,279.03	3/4	4,890.69	3/4	4,502.34	3/4	4,114.00	3/4	3,725.65	3/4	3,337.31	3/4	2,948.97	3/4	2,560.62
10		10		10		10	5,270.94	10	4,882.60	10	4,494.25	10	4,105.91	10	3,717.56	10	3,329.22	10	2,940.88	10	2,552.53
1/4		1/4		1/4		1/4	5,262.85	1/4	4,874.50	1/4	4,486.16	1/4	4,097.82	1/4	3,709.47	1/4	3,321.13	1/4	2,932.78	1/4	2,544.44
1/2		1/2		1/2		1/2	5,254.76	1/2	4,866.41	1/2	4,478.07	1/2	4,089.73	1/2	3,701.38	1/2	3,313.04	1/2	2,924.69	1/2	2,536.35
3/4		3/4		3/4		3/4	5,246.67	3/4	4,858.32	3/4	4,469.98	3/4	4,081.64	3/4	3,693.29	3/4	3,304.95	3/4	2,916.60	3/4	2,528.26
11		11		11		11	5,238.58	11	4,850.23	11	4,461.89	11	4,073.55	11	3,685.20	11	3,296.86	11	2,908.51	11	2,520.17
1/4		1/4		1/4		1/4	5,230.49	1/4	4,842.14	1/4	4,453.80	1/4	4,065.45	1/4	3,677.11	1/4	3,288.77	1/4	2,900.42	1/4	2,512.08
1/2		1/2		1/2		1/2	5,222.40	1/2	4,834.05	1/2	4,445.71	1/2	4,057.36	1/2	3,669.02	1/2	3,280.68	1/2	2,892.33	1/2	2,503.99
3/4		3/4		3/4		3/4	5,214.31	3/4	4,825.96	3/4	4,437.62	3/4	4,049.27	3/4	3,660.93	3/4	3,272.59	3/4	2,884.24	3/4	2,495.90

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.  
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.  
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.  
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN WITH "HERMETIC" CLOSED GAUGING DEVICE.  
 GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 51'-03" FORWARD OF AFT BULKHEAD.

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





# BARGE "KIRBY 32004B"

## 2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-04 3/4"

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.	
IN		IN		IN		IN		IN		IN		IN		IN		IN		IN	
0	2,487.81	0	2,099.46	0	1,711.12	0	1,322.78	0	934.43	0	546.55	0	158.22	0		0		0	
1/4	2,479.72	1/4	2,091.37	1/4	1,703.03	1/4	1,314.69	1/4	926.34	1/4	538.46	1/4	150.13	1/4		1/4		1/4	
1/2	2,471.63	1/2	2,083.28	1/2	1,694.94	1/2	1,306.59	1/2	918.25	1/2	530.37	1/2	142.04	1/2		1/2		1/2	
3/4	2,463.54	3/4	2,075.19	3/4	1,686.85	3/4	1,298.50	3/4	910.16	3/4	522.28	3/4	133.95	3/4		3/4		3/4	
1	2,455.45	1	2,067.10	1	1,678.76	1	1,290.41	1	902.08	1	514.19	1	125.86	1		1		1	
1/4	2,447.36	1/4	2,059.01	1/4	1,670.67	1/4	1,282.32	1/4	893.99	1/4	506.10	1/4	117.77	1/4		1/4		1/4	
1/2	2,439.26	1/2	2,050.92	1/2	1,662.58	1/2	1,274.23	1/2	885.91	1/2	498.01	1/2	109.68	1/2		1/2		1/2	
3/4	2,431.17	3/4	2,042.83	3/4	1,654.49	3/4	1,266.14	3/4	877.82	3/4	489.92	3/4	101.59	3/4		3/4		3/4	
2	2,423.08	2	2,034.74	2	1,646.40	2	1,258.05	2	869.75	2	481.83	2	93.50	2		2		2	
1/4	2,414.99	1/4	2,026.65	1/4	1,638.31	1/4	1,249.96	1/4	861.67	1/4	473.74	1/4	85.41	1/4		1/4		1/4	
1/2	2,406.90	1/2	2,018.56	1/2	1,630.21	1/2	1,241.87	1/2	853.59	1/2	465.65	1/2	77.32	1/2		1/2		1/2	
3/4	2,398.81	3/4	2,010.47	3/4	1,622.12	3/4	1,233.78	3/4	845.52	3/4	457.56	3/4	69.23	3/4		3/4		3/4	
3	2,390.72	3	2,002.38	3	1,614.03	3	1,225.69	3	837.44	3	449.47	3	62.02	3		3		3	
1/4	2,382.63	1/4	1,994.29	1/4	1,605.94	1/4	1,217.60	1/4	829.36	1/4	441.38	1/4	54.82	1/4		1/4		1/4	
1/2	2,374.54	1/2	1,986.20	1/2	1,597.85	1/2	1,209.51	1/2	821.29	1/2	433.29	1/2	47.61	1/2		1/2		1/2	
3/4	2,366.45	3/4	1,978.11	3/4	1,589.76	3/4	1,201.42	3/4	813.21	3/4	425.20	3/4	40.41	3/4		3/4		3/4	
4	2,358.36	4	1,970.02	4	1,581.67	4	1,193.33	4	805.14	4	417.11	4	35.10	4		4		4	
1/4	2,350.27	1/4	1,961.93	1/4	1,573.58	1/4	1,185.24	1/4	797.06	1/4	409.02	1/4	29.79	1/4		1/4		1/4	
1/2	2,342.18	1/2	1,953.83	1/2	1,565.49	1/2	1,177.15	1/2	788.98	1/2	400.93	1/2	24.48	1/2		1/2		1/2	
3/4	2,334.09	3/4	1,945.74	3/4	1,557.40	3/4	1,169.06	3/4	780.91	3/4	392.84	3/4	19.17	3/4		3/4		3/4	
5	2,326.00	5	1,937.65	5	1,549.31	5	1,160.97	5	772.83	5	384.75	5		5		5		5	
1/4	2,317.91	1/4	1,929.56	1/4	1,541.22	1/4	1,152.88	1/4	764.76	1/4	376.66	1/4		1/4		1/4		1/4	
1/2	2,309.82	1/2	1,921.47	1/2	1,533.13	1/2	1,144.78	1/2	756.68	1/2	368.57	1/2		1/2		1/2		1/2	
3/4	2,301.73	3/4	1,913.38	3/4	1,525.04	3/4	1,136.69	3/4	748.60	3/4	360.48	3/4		3/4		3/4		3/4	
6	2,293.64	6	1,905.29	6	1,516.95	6	1,128.60	6	740.53	6	352.39	6		6		6		6	
1/4	2,285.55	1/4	1,897.20	1/4	1,508.86	1/4	1,120.51	1/4	732.45	1/4	344.30	1/4		1/4		1/4		1/4	
1/2	2,277.45	1/2	1,889.11	1/2	1,500.77	1/2	1,112.42	1/2	724.38	1/2	336.21	1/2		1/2		1/2		1/2	
3/4	2,269.36	3/4	1,881.02	3/4	1,492.68	3/4	1,104.33	3/4	716.30	3/4	328.12	3/4		3/4		3/4		3/4	
7	2,261.27	7	1,872.93	7	1,484.59	7	1,096.24	7	708.22	7	320.03	7		7		7		7	
1/4	2,253.18	1/4	1,864.84	1/4	1,476.50	1/4	1,088.15	1/4	700.15	1/4	311.94	1/4		1/4		1/4		1/4	
1/2	2,245.09	1/2	1,856.75	1/2	1,468.40	1/2	1,080.06	1/2	692.07	1/2	303.85	1/2		1/2		1/2		1/2	
3/4	2,237.00	3/4	1,848.66	3/4	1,460.31	3/4	1,071.97	3/4	684.00	3/4	295.76	3/4		3/4		3/4		3/4	
8	2,228.91	8	1,840.57	8	1,452.22	8	1,063.88	8	675.92	8	287.67	8		8		8		8	
1/4	2,220.82	1/4	1,832.48	1/4	1,444.13	1/4	1,055.79	1/4	667.84	1/4	279.58	1/4		1/4		1/4		1/4	
1/2	2,212.73	1/2	1,824.39	1/2	1,436.04	1/2	1,047.70	1/2	659.77	1/2	271.49	1/2		1/2		1/2		1/2	
3/4	2,204.64	3/4	1,816.30	3/4	1,427.95	3/4	1,039.61	3/4	651.69	3/4	263.40	3/4		3/4		3/4		3/4	
9	2,196.55	9	1,808.21	9	1,419.86	9	1,031.52	9	643.61	9	255.31	9		9		9		9	
1/4	2,188.46	1/4	1,800.12	1/4	1,411.77	1/4	1,023.43	1/4	635.53	1/4	247.21	1/4		1/4		1/4		1/4	
1/2	2,180.37	1/2	1,792.02	1/2	1,403.68	1/2	1,015.34	1/2	627.44	1/2	239.12	1/2		1/2		1/2		1/2	
3/4	2,172.28	3/4	1,783.93	3/4	1,395.59	3/4	1,007.25	3/4	619.36	3/4	231.03	3/4		3/4		3/4		3/4	
10	2,164.19	10	1,775.84	10	1,387.50	10	999.16	10	611.27	10	222.94	10		10		10		10	
1/4	2,156.10	1/4	1,767.75	1/4	1,379.41	1/4	991.07	1/4	603.18	1/4	214.85	1/4		1/4		1/4		1/4	
1/2	2,148.01	1/2	1,759.66	1/2	1,371.32	1/2	982.97	1/2	595.09	1/2	206.76	1/2		1/2		1/2		1/2	
3/4	2,139.92	3/4	1,751.57	3/4	1,363.23	3/4	974.88	3/4	587.00	3/4	198.67	3/4		3/4		3/4		3/4	
11	2,131.83	11	1,743.48	11	1,355.14	11	966.79	11	578.91	11	190.58	11		11		11		11	
1/4	2,123.74	1/4	1,735.39	1/4	1,347.05	1/4	958.70	1/4	570.82	1/4	182.49	1/4		1/4		1/4		1/4	
1/2	2,115.64	1/2	1,727.30	1/2	1,338.96	1/2	950.61	1/2	562.73	1/2	174.40	1/2		1/2		1/2		1/2	
3/4	2,107.55	3/4	1,719.21	3/4	1,330.87	3/4	942.52	3/4	554.64	3/4	166.31	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 09/29/2010 CL - SW  
CALCULATED: 09/29/2010 CL  
PRINTED: 09/29/2010 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 09/2010

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



# BARGE "KIRBY 32004B"

2 STBD

ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-05"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.			
IN		IN		IN		IN		IN		IN		IN		IN		IN		IN			
0		0		0		0	5,191.83	0	4,804.35	0	4,416.87	0	4,029.39	0	3,641.91	0	3,254.43	0	2,866.95		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,183.76	1/4	4,796.28	1/4	4,408.80	1/4	4,021.32	1/4	3,633.84	1/4	3,246.36	1/4	2,858.88		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,175.69	1/2	4,788.21	1/2	4,400.73	1/2	4,013.25	1/2	3,625.77	1/2	3,238.29	1/2	2,850.81		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,167.62	3/4	4,780.14	3/4	4,392.66	3/4	4,005.18	3/4	3,617.70	3/4	3,230.22	3/4	2,842.74		
1		1		1		1	5,159.54	1	4,772.06	1	4,384.58	1	3,997.10	1	3,609.62	1	3,222.14	1	2,834.66		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,151.47	1/4	4,763.99	1/4	4,376.51	1/4	3,989.03	1/4	3,601.55	1/4	3,214.07	1/4	2,826.59		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,143.40	1/2	4,755.92	1/2	4,368.44	1/2	3,980.96	1/2	3,593.48	1/2	3,206.00	1/2	2,818.52		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,135.33	3/4	4,747.85	3/4	4,360.37	3/4	3,972.89	3/4	3,585.41	3/4	3,197.93	3/4	2,810.45		
2		2		2		2	5,127.25	2	4,739.77	2	4,352.29	2	3,964.81	2	3,577.33	2	3,189.85	2	2,802.37		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,119.18	1/4	4,731.70	1/4	4,344.22	1/4	3,956.74	1/4	3,569.26	1/4	3,181.78	1/4	2,794.30		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,111.11	1/2	4,723.63	1/2	4,336.15	1/2	3,948.67	1/2	3,561.19	1/2	3,173.71	1/2	2,786.23		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,103.04	3/4	4,715.56	3/4	4,328.08	3/4	3,940.60	3/4	3,553.12	3/4	3,165.64	3/4	2,778.16		
3		3		3		3	5,094.96	3	4,707.48	3	4,320.00	3	3,932.52	3	3,545.04	3	3,157.56	3	2,770.08		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,086.89	1/4	4,699.41	1/4	4,311.93	1/4	3,924.45	1/4	3,536.97	1/4	3,149.49	1/4	2,762.01		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,078.82	1/2	4,691.34	1/2	4,303.86	1/2	3,916.38	1/2	3,528.90	1/2	3,141.42	1/2	2,753.94		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,070.75	3/4	4,683.27	3/4	4,295.79	3/4	3,908.31	3/4	3,520.83	3/4	3,133.35	3/4	2,745.87		
4		4		4		4	5,062.67	4	4,675.19	4	4,287.71	4	3,900.23	4	3,512.75	4	3,125.27	4	2,737.79		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,054.60	1/4	4,667.12	1/4	4,279.64	1/4	3,892.16	1/4	3,504.68	1/4	3,117.20	1/4	2,729.72		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,046.53	1/2	4,659.05	1/2	4,271.57	1/2	3,884.09	1/2	3,496.61	1/2	3,109.13	1/2	2,721.65		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,038.46	3/4	4,650.98	3/4	4,263.50	3/4	3,876.02	3/4	3,488.54	3/4	3,101.06	3/4	2,713.58		
5		5		5		5	5,030.38	5	4,642.90	5	4,255.42	5	3,867.94	5	3,480.46	5	3,092.98	5	2,705.50		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,022.31	1/4	4,634.83	1/4	4,247.35	1/4	3,859.87	1/4	3,472.39	1/4	3,084.91	1/4	2,697.43		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,014.24	1/2	4,626.76	1/2	4,239.28	1/2	3,851.80	1/2	3,464.32	1/2	3,076.84	1/2	2,689.36		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,006.17	3/4	4,618.69	3/4	4,231.21	3/4	3,843.73	3/4	3,456.25	3/4	3,068.77	3/4	2,681.29		
6		6		6		6	4,998.09	6	4,610.61	6	4,223.13	6	3,835.65	6	3,448.17	6	3,060.69	6	2,673.21		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,990.02	1/4	4,602.54	1/4	4,215.06	1/4	3,827.58	1/4	3,440.10	1/4	3,052.62	1/4	2,665.14		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,340.51	1/2	4,981.95	1/2	4,594.47	1/2	4,206.99	1/2	3,819.51	1/2	3,432.03	1/2	3,044.55	1/2	2,657.07
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,336.80	3/4	4,973.88	3/4	4,586.40	3/4	4,198.92	3/4	3,811.44	3/4	3,423.96	3/4	3,036.48	3/4	2,649.00
7		7		7		7	5,333.10	7	4,965.80	7	4,578.32	7	4,190.84	7	3,803.36	7	3,415.88	7	3,028.40	7	2,640.92
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,328.06	1/4	4,957.73	1/4	4,570.25	1/4	4,182.77	1/4	3,795.29	1/4	3,407.81	1/4	3,020.33	1/4	2,632.85
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,323.01	1/2	4,949.66	1/2	4,562.18	1/2	4,174.70	1/2	3,787.22	1/2	3,399.74	1/2	3,012.26	1/2	2,624.78
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,317.97	3/4	4,941.59	3/4	4,554.11	3/4	4,166.63	3/4	3,779.15	3/4	3,391.67	3/4	3,004.19	3/4	2,616.71
8		8		8		8	5,312.92	8	4,933.51	8	4,546.03	8	4,158.55	8	3,771.07	8	3,383.59	8	2,996.11	8	2,608.63
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,306.53	1/4	4,925.44	1/4	4,537.96	1/4	4,150.48	1/4	3,763.00	1/4	3,375.52	1/4	2,988.04	1/4	2,600.56
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,300.14	1/2	4,917.37	1/2	4,529.89	1/2	4,142.41	1/2	3,754.93	1/2	3,367.45	1/2	2,979.97	1/2	2,592.49
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,293.75	3/4	4,909.30	3/4	4,521.82	3/4	4,134.34	3/4	3,746.86	3/4	3,359.38	3/4	2,971.90	3/4	2,584.42
9		9		9		9	5,287.36	9	4,901.22	9	4,513.74	9	4,126.26	9	3,738.78	9	3,351.30	9	2,963.82	9	2,576.34
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,279.62	1/4	4,893.15	1/4	4,505.67	1/4	4,118.19	1/4	3,730.71	1/4	3,343.23	1/4	2,955.75	1/4	2,568.27
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,271.89	1/2	4,885.08	1/2	4,497.60	1/2	4,110.12	1/2	3,722.64	1/2	3,335.16	1/2	2,947.68	1/2	2,560.20
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,264.15	3/4	4,877.01	3/4	4,489.53	3/4	4,102.05	3/4	3,714.57	3/4	3,327.09	3/4	2,939.61	3/4	2,552.13
10		10		10		10	5,256.41	10	4,868.93	10	4,481.45	10	4,093.97	10	3,706.49	10	3,319.01	10	2,931.53	10	2,544.05
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,248.34	1/4	4,860.86	1/4	4,473.38	1/4	4,085.90	1/4	3,698.42	1/4	3,310.94	1/4	2,923.46	1/4	2,535.98
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,240.27	1/2	4,852.79	1/2	4,465.31	1/2	4,077.83	1/2	3,690.35	1/2	3,302.87	1/2	2,915.39	1/2	2,527.91
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,232.20	3/4	4,844.72	3/4	4,457.24	3/4	4,069.76	3/4	3,682.28	3/4	3,294.80	3/4	2,907.32	3/4	2,519.84
11		11		11		11	5,224.12	11	4,836.64	11	4,449.16	11	4,061.68	11	3,674.20	11	3,286.72	11	2,899.24	11	2,511.76
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,216.05	1/4	4,828.57	1/4	4,441.09	1/4	4,053.61	1/4	3,666.13	1/4	3,278.65	1/4	2,891.17	1/4	2,503.69
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,207.98	1/2	4,820.50	1/2	4,433.02	1/2	4,045.54	1/2	3,658.06	1/2	3,270.58	1/2	2,883.10	1/2	2,495.62
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,199.91	3/4	4,812.43	3/4	4,424.95	3/4	4,037.47	3/4	3,649.99	3/4	3,262.51	3/4	2,875.03	3/4	2,487.55

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.  
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.  
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.  
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN WITH "HERMETIC" CLOSED GAUGING DEVICE.  
 GAUGE POINT: (HERMETIC) LOCATED 13'-00" OFF CENTERLINE AND 51'-03" FORWARD OF AFT BULKHEAD.

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





# BARGE "KIRBY 32004B"

## 2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-05"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,479.47	0	2,091.99	0	1,704.51	0	1,317.03	0	929.56	0	556.53	0	169.98	0		0			
1/4	2,471.40	1/4	2,083.92	1/4	1,696.44	1/4	1,308.96	1/4	921.61	1/4	548.65	1/4	161.91	1/4		1/4			
1/2	2,463.33	1/2	2,075.85	1/2	1,688.37	1/2	1,300.89	1/2	913.66	1/2	540.77	1/2	153.84	1/2		1/2			
3/4	2,455.26	3/4	2,067.78	3/4	1,680.30	3/4	1,292.82	3/4	905.70	3/4	532.89	3/4	145.76	3/4		3/4			
1	2,447.18	1	2,059.70	1	1,672.22	1	1,284.74	1	897.75	1	525.01	1	137.69	1		1			
1/4	2,439.11	1/4	2,051.63	1/4	1,664.15	1/4	1,276.67	1/4	889.96	1/4	516.97	1/4	129.62	1/4		1/4			
1/2	2,431.04	1/2	2,043.56	1/2	1,656.08	1/2	1,268.60	1/2	882.16	1/2	508.94	1/2	121.55	1/2		1/2			
3/4	2,422.97	3/4	2,035.49	3/4	1,648.01	3/4	1,260.53	3/4	874.37	3/4	500.91	3/4	113.48	3/4		3/4			
2	2,414.89	2	2,027.41	2	1,639.93	2	1,252.45	2	866.58	2	492.87	2	105.40	2		2			
1/4	2,406.82	1/4	2,019.34	1/4	1,631.86	1/4	1,244.38	1/4	858.83	1/4	484.80	1/4	97.33	1/4		1/4			
1/2	2,398.75	1/2	2,011.27	1/2	1,623.79	1/2	1,236.31	1/2	851.08	1/2	476.73	1/2	89.26	1/2		1/2			
3/4	2,390.68	3/4	2,003.20	3/4	1,615.72	3/4	1,228.24	3/4	843.33	3/4	468.66	3/4	81.19	3/4		3/4			
3	2,382.60	3	1,995.12	3	1,607.64	3	1,220.16	3	835.58	3	460.58	3	73.11	3		3			
1/4	2,374.53	1/4	1,987.05	1/4	1,599.57	1/4	1,212.09	1/4	827.84	1/4	452.51	1/4	65.04	1/4		1/4			
1/2	2,366.46	1/2	1,978.98	1/2	1,591.50	1/2	1,204.02	1/2	820.09	1/2	444.44	1/2	56.97	1/2		1/2			
3/4	2,358.39	3/4	1,970.91	3/4	1,583.43	3/4	1,195.95	3/4	812.34	3/4	436.37	3/4	48.90	3/4		3/4			
4	2,350.31	4	1,962.83	4	1,575.35	4	1,187.87	4	804.60	4	428.29	4	40.83	4		4			
1/4	2,342.24	1/4	1,954.76	1/4	1,567.28	1/4	1,179.80	1/4	796.85	1/4	420.22	1/4	32.76	1/4		1/4			
1/2	2,334.17	1/2	1,946.69	1/2	1,559.21	1/2	1,171.73	1/2	789.11	1/2	412.15	1/2	24.69	1/2		1/2			
3/4	2,326.10	3/4	1,938.62	3/4	1,551.14	3/4	1,163.66	3/4	781.36	3/4	404.08	3/4	16.62	3/4		3/4			
5	2,318.02	5	1,930.54	5	1,543.06	5	1,155.58	5	773.61	5	396.01	5	8.55	5		5			
1/4	2,309.95	1/4	1,922.47	1/4	1,534.99	1/4	1,147.51	1/4	765.87	1/4	387.93	1/4		1/4		1/4			
1/2	2,301.88	1/2	1,914.40	1/2	1,526.92	1/2	1,139.44	1/2	758.12	1/2	379.86	1/2		1/2		1/2			
3/4	2,293.81	3/4	1,906.33	3/4	1,518.85	3/4	1,131.37	3/4	750.37	3/4	371.79	3/4		3/4		3/4			
6	2,285.73	6	1,898.25	6	1,510.77	6	1,123.29	6	742.63	6	363.72	6		6		6			
1/4	2,277.66	1/4	1,890.18	1/4	1,502.70	1/4	1,115.22	1/4	734.88	1/4	355.64	1/4		1/4		1/4			
1/2	2,269.59	1/2	1,882.11	1/2	1,494.63	1/2	1,107.15	1/2	727.13	1/2	347.57	1/2		1/2		1/2			
3/4	2,261.52	3/4	1,874.04	3/4	1,486.56	3/4	1,099.08	3/4	719.39	3/4	339.50	3/4		3/4		3/4			
7	2,253.44	7	1,865.96	7	1,478.48	7	1,091.00	7	711.64	7	331.43	7		7		7			
1/4	2,245.37	1/4	1,857.89	1/4	1,470.41	1/4	1,082.93	1/4	703.89	1/4	323.36	1/4		1/4		1/4			
1/2	2,237.30	1/2	1,849.82	1/2	1,462.34	1/2	1,074.86	1/2	696.15	1/2	315.28	1/2		1/2		1/2			
3/4	2,229.23	3/4	1,841.75	3/4	1,454.27	3/4	1,066.79	3/4	688.40	3/4	307.21	3/4		3/4		3/4			
8	2,221.15	8	1,833.67	8	1,446.19	8	1,058.71	8	680.65	8	299.14	8		8		8			
1/4	2,213.08	1/4	1,825.60	1/4	1,438.12	1/4	1,050.64	1/4	672.91	1/4	291.07	1/4		1/4		1/4			
1/2	2,205.01	1/2	1,817.53	1/2	1,430.05	1/2	1,042.57	1/2	665.16	1/2	282.99	1/2		1/2		1/2			
3/4	2,196.94	3/4	1,809.46	3/4	1,421.98	3/4	1,034.50	3/4	657.41	3/4	274.92	3/4		3/4		3/4			
9	2,188.86	9	1,801.38	9	1,413.90	9	1,026.42	9	649.67	9	266.85	9		9		9			
1/4	2,180.79	1/4	1,793.31	1/4	1,405.83	1/4	1,018.35	1/4	641.91	1/4	258.78	1/4		1/4		1/4			
1/2	2,172.72	1/2	1,785.24	1/2	1,397.76	1/2	1,010.28	1/2	634.16	1/2	250.70	1/2		1/2		1/2			
3/4	2,164.65	3/4	1,777.17	3/4	1,389.69	3/4	1,002.21	3/4	626.41	3/4	242.63	3/4		3/4		3/4			
10	2,156.57	10	1,769.09	10	1,381.61	10	994.13	10	618.65	10	234.56	10		10		10			
1/4	2,148.50	1/4	1,761.02	1/4	1,373.54	1/4	986.06	1/4	610.89	1/4	226.49	1/4		1/4		1/4			
1/2	2,140.43	1/2	1,752.95	1/2	1,365.47	1/2	977.99	1/2	603.12	1/2	218.42	1/2		1/2		1/2			
3/4	2,132.36	3/4	1,744.88	3/4	1,357.40	3/4	969.92	3/4	595.36	3/4	210.34	3/4		3/4		3/4			
11	2,124.28	11	1,736.80	11	1,349.32	11	961.84	11	587.60	11	202.27	11		11		11			
1/4	2,116.21	1/4	1,728.73	1/4	1,341.25	1/4	953.77	1/4	579.83	1/4	194.20	1/4		1/4		1/4			
1/2	2,108.14	1/2	1,720.66	1/2	1,333.18	1/2	945.70	1/2	572.06	1/2	186.13	1/2		1/2		1/2			
3/4	2,100.07	3/4	1,712.59	3/4	1,325.11	3/4	937.63	3/4	564.30	3/4	178.05	3/4		3/4		3/4			

STRAPPED: 09/29/2010 CL - SW  
CALCULATED: 09/29/2010 CL  
PRINTED: 09/29/2010 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 09/2010

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



# BARGE "KIRBY 32004B"

## 3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-04 3/4"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.			
IN		IN		IN		IN		IN		IN		IN		IN		IN		IN			
0		0		0		0	4,989.60	0	4,653.91	0	4,318.66	0	3,983.41	0	3,648.23	0	3,280.59	0	2,890.50		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,982.47	1/4	4,646.93	1/4	4,311.68	1/4	3,976.43	1/4	3,641.26	1/4	3,272.46	1/4	2,882.37		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,975.34	1/2	4,639.94	1/2	4,304.69	1/2	3,969.44	1/2	3,634.28	1/2	3,264.34	1/2	2,874.24		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,968.21	3/4	4,632.96	3/4	4,297.71	3/4	3,962.46	3/4	3,627.31	3/4	3,256.21	3/4	2,866.12		
1		1		1		1	4,961.23	1	4,625.98	1	4,290.72	1	3,955.47	1	3,620.33	1	3,248.08	1	2,857.99		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,954.24	1/4	4,618.99	1/4	4,283.74	1/4	3,948.49	1/4	3,613.36	1/4	3,239.96	1/4	2,849.86		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,947.26	1/2	4,612.01	1/2	4,276.76	1/2	3,941.50	1/2	3,606.38	1/2	3,231.83	1/2	2,841.74		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,940.27	3/4	4,605.02	3/4	4,269.77	3/4	3,934.52	3/4	3,599.40	3/4	3,223.70	3/4	2,833.61		
2		2		2		2	4,933.29	2	4,598.04	2	4,262.79	2	3,927.54	2	3,592.43	2	3,215.57	2	2,825.48		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,926.31	1/4	4,591.05	1/4	4,255.80	1/4	3,920.55	1/4	3,585.45	1/4	3,207.45	1/4	2,817.36		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,919.32	1/2	4,584.07	1/2	4,248.82	1/2	3,913.57	1/2	3,578.48	1/2	3,199.32	1/2	2,809.23		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,912.34	3/4	4,577.09	3/4	4,241.83	3/4	3,906.58	3/4	3,571.50	3/4	3,191.19	3/4	2,801.10		
3		3		3		3	4,905.35	3	4,570.10	3	4,234.85	3	3,899.60	3	3,564.53	3	3,183.07	3	2,792.98		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,898.37	1/4	4,563.12	1/4	4,227.87	1/4	3,892.61	1/4	3,557.55	1/4	3,174.94	1/4	2,784.85		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,891.38	1/2	4,556.13	1/2	4,220.88	1/2	3,885.63	1/2	3,550.58	1/2	3,166.81	1/2	2,776.72		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,884.40	3/4	4,549.15	3/4	4,213.90	3/4	3,878.65	3/4	3,543.60	3/4	3,158.69	3/4	2,768.59		
4		4		4		4	4,877.41	4	4,542.16	4	4,206.91	4	3,871.66	4	3,536.62	4	3,150.56	4	2,760.47		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,870.43	1/4	4,535.18	1/4	4,199.93	1/4	3,864.68	1/4	3,529.65	1/4	3,142.43	1/4	2,752.34		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,863.45	1/2	4,528.19	1/2	4,192.94	1/2	3,857.69	1/2	3,522.67	1/2	3,134.31	1/2	2,744.21		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,856.46	3/4	4,521.21	3/4	4,185.96	3/4	3,850.71	3/4	3,515.70	3/4	3,126.18	3/4	2,736.09		
5		5		5		5	4,849.48	5	4,514.23	5	4,178.97	5	3,843.72	5	3,507.71	5	3,118.05	5	2,727.96		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,842.49	1/4	4,507.24	1/4	4,171.99	1/4	3,836.74	1/4	3,499.73	1/4	3,109.92	1/4	2,719.83		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,835.51	1/2	4,500.26	1/2	4,165.01	1/2	3,829.75	1/2	3,491.75	1/2	3,101.80	1/2	2,711.71		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,828.52	3/4	4,493.27	3/4	4,158.02	3/4	3,822.77	3/4	3,483.76	3/4	3,093.67	3/4	2,703.58		
6		6		6		6	4,821.54	6	4,486.29	6	4,151.04	6	3,815.79	6	3,475.64	6	3,085.54	6	2,695.45		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,148.95	1/4	4,814.55	1/4	4,479.30	1/4	4,144.05	1/4	3,808.80	1/4	3,467.51	1/4	3,077.42	1/4	2,687.33
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,145.05	1/2	4,807.57	1/2	4,472.32	1/2	4,137.07	1/2	3,801.82	1/2	3,459.38	1/2	3,069.29	1/2	2,679.20
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,141.15	3/4	4,800.59	3/4	4,465.33	3/4	4,130.08	3/4	3,794.83	3/4	3,451.25	3/4	3,061.16	3/4	2,671.07
7		7		7		7	5,135.89	7	4,793.60	7	4,458.35	7	4,123.10	7	3,787.85	7	3,443.13	7	3,053.04	7	2,662.95
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,130.64	1/4	4,786.62	1/4	4,451.37	1/4	4,116.11	1/4	3,780.86	1/4	3,435.00	1/4	3,044.91	1/4	2,654.82
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,125.38	1/2	4,779.63	1/2	4,444.38	1/2	4,109.13	1/2	3,773.88	1/2	3,426.87	1/2	3,036.78	1/2	2,646.69
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,120.13	3/4	4,772.65	3/4	4,437.40	3/4	4,102.15	3/4	3,766.89	3/4	3,418.75	3/4	3,028.66	3/4	2,638.56
8		8		8		8	5,113.51	8	4,765.66	8	4,430.41	8	4,095.16	8	3,759.91	8	3,410.62	8	3,020.53	8	2,630.44
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,106.90	1/4	4,758.68	1/4	4,423.43	1/4	4,088.18	1/4	3,752.93	1/4	3,402.49	1/4	3,012.40	1/4	2,622.31
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,100.29	1/2	4,751.70	1/2	4,416.44	1/2	4,081.19	1/2	3,745.94	1/2	3,394.37	1/2	3,004.28	1/2	2,614.18
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,093.68	3/4	4,744.71	3/4	4,409.46	3/4	4,074.21	3/4	3,738.96	3/4	3,386.24	3/4	2,996.15	3/4	2,606.06
9		9		9		9	5,085.71	9	4,737.73	9	4,402.48	9	4,067.22	9	3,731.97	9	3,378.11	9	2,988.02	9	2,597.93
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,077.74	1/4	4,730.74	1/4	4,395.49	1/4	4,060.24	1/4	3,724.99	1/4	3,369.99	1/4	2,979.89	1/4	2,589.80
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,069.78	1/2	4,723.76	1/2	4,388.51	1/2	4,053.26	1/2	3,718.00	1/2	3,361.86	1/2	2,971.77	1/2	2,581.68
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,061.81	3/4	4,716.77	3/4	4,381.52	3/4	4,046.27	3/4	3,711.02	3/4	3,353.73	3/4	2,963.64	3/4	2,573.55
10		10		10		10	5,053.67	10	4,709.79	10	4,374.54	10	4,039.29	10	3,704.04	10	3,345.60	10	2,955.51	10	2,565.42
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,045.54	1/4	4,702.80	1/4	4,367.55	1/4	4,032.30	1/4	3,697.07	1/4	3,337.48	1/4	2,947.39	1/4	2,557.30
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,037.40	1/2	4,695.82	1/2	4,360.57	1/2	4,025.32	1/2	3,690.09	1/2	3,329.35	1/2	2,939.26	1/2	2,549.17
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,029.27	3/4	4,688.84	3/4	4,353.58	3/4	4,018.33	3/4	3,683.11	3/4	3,321.22	3/4	2,931.13	3/4	2,541.04
11		11		11		11	5,021.13	11	4,681.85	11	4,346.60	11	4,011.35	11	3,676.14	11	3,313.10	11	2,923.01	11	2,532.91
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,013.00	1/4	4,674.87	1/4	4,339.62	1/4	4,004.36	1/4	3,669.16	1/4	3,304.97	1/4	2,914.88	1/4	2,524.79
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,004.86	1/2	4,667.88	1/2	4,332.63	1/2	3,997.38	1/2	3,662.18	1/2	3,296.84	1/2	2,906.75	1/2	2,516.66
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,996.73	3/4	4,660.90	3/4	4,325.65	3/4	3,990.40	3/4	3,655.21	3/4	3,288.72	3/4	2,898.63	3/4	2,508.53

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.  
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.  
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.  
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN WITH "HERMETIC" CLOSED GAUGING DEVICE.  
 GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 51'-00" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT  
& ANALYSIS, INC.

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



# BARGE "KIRBY 32004B"

## 3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-04 3/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,500.40	0	2,109.97	0	1,719.52	0	1,329.18	0	939.44	0	549.57	0	159.11	0		0			
1/4	2,492.27	1/4	2,101.83	1/4	1,711.39	1/4	1,321.06	1/4	931.31	1/4	541.44	1/4	150.97	1/4		1/4			
1/2	2,484.14	1/2	2,093.70	1/2	1,703.26	1/2	1,312.94	1/2	923.17	1/2	533.32	1/2	142.83	1/2		1/2			
3/4	2,476.00	3/4	2,085.56	3/4	1,695.12	3/4	1,304.83	3/4	915.03	3/4	525.19	3/4	134.70	3/4		3/4			
1	2,467.87	1	2,077.43	1	1,686.99	1	1,296.71	1	906.90	1	517.06	1	126.56	1		1			
1/4	2,459.74	1/4	2,069.29	1/4	1,678.85	1/4	1,288.59	1/4	898.76	1/4	508.93	1/4	118.43	1/4		1/4			
1/2	2,451.60	1/2	2,061.16	1/2	1,670.72	1/2	1,280.47	1/2	890.63	1/2	500.79	1/2	110.29	1/2		1/2			
3/4	2,443.47	3/4	2,053.03	3/4	1,662.58	3/4	1,272.35	3/4	882.49	3/4	492.66	3/4	102.16	3/4		3/4			
2	2,435.33	2	2,044.89	2	1,654.45	2	1,264.23	2	874.36	2	484.53	2	94.02	2		2			
1/4	2,427.20	1/4	2,036.76	1/4	1,646.32	1/4	1,256.11	1/4	866.22	1/4	476.39	1/4	85.89	1/4		1/4			
1/2	2,419.06	1/2	2,028.62	1/2	1,638.18	1/2	1,248.00	1/2	858.08	1/2	468.25	1/2	77.75	1/2		1/2			
3/4	2,410.93	3/4	2,020.49	3/4	1,630.05	3/4	1,239.88	3/4	849.95	3/4	460.12	3/4	69.61	3/4		3/4			
3	2,402.80	3	2,012.35	3	1,621.91	3	1,231.76	3	841.81	3	451.98	3	62.37	3		3			
1/4	2,394.66	1/4	2,004.22	1/4	1,613.78	1/4	1,223.65	1/4	833.68	1/4	443.85	1/4	55.12	1/4		1/4			
1/2	2,386.53	1/2	1,996.09	1/2	1,605.64	1/2	1,215.53	1/2	825.54	1/2	435.71	1/2	47.88	1/2		1/2			
3/4	2,378.39	3/4	1,987.95	3/4	1,597.51	3/4	1,207.41	3/4	817.41	3/4	427.58	3/4	40.63	3/4		3/4			
4	2,370.26	4	1,979.82	4	1,589.38	4	1,199.30	4	809.28	4	419.44	4	35.29	4		4			
1/4	2,362.13	1/4	1,971.68	1/4	1,581.24	1/4	1,191.18	1/4	801.15	1/4	411.31	1/4	29.95	1/4		1/4			
1/2	2,353.99	1/2	1,963.55	1/2	1,573.11	1/2	1,183.06	1/2	793.03	1/2	403.17	1/2	24.61	1/2		1/2			
3/4	2,345.86	3/4	1,955.42	3/4	1,564.97	3/4	1,174.95	3/4	784.90	3/4	395.03	3/4	19.27	3/4		3/4			
5	2,337.72	5	1,947.28	5	1,556.84	5	1,166.83	5	776.78	5	386.90	5		5		5			
1/4	2,329.59	1/4	1,939.15	1/4	1,548.71	1/4	1,158.71	1/4	768.67	1/4	378.76	1/4		1/4		1/4			
1/2	2,321.45	1/2	1,931.01	1/2	1,540.57	1/2	1,150.60	1/2	760.55	1/2	370.63	1/2		1/2		1/2			
3/4	2,313.32	3/4	1,922.88	3/4	1,532.44	3/4	1,142.48	3/4	752.44	3/4	362.49	3/4		3/4		3/4			
6	2,305.19	6	1,914.74	6	1,524.30	6	1,134.36	6	744.32	6	354.36	6		6		6			
1/4	2,297.05	1/4	1,906.61	1/4	1,516.17	1/4	1,126.25	1/4	736.21	1/4	346.22	1/4		1/4		1/4			
1/2	2,288.92	1/2	1,898.48	1/2	1,508.03	1/2	1,118.13	1/2	728.09	1/2	338.09	1/2		1/2		1/2			
3/4	2,280.78	3/4	1,890.34	3/4	1,499.90	3/4	1,110.01	3/4	719.98	3/4	329.95	3/4		3/4		3/4			
7	2,272.65	7	1,882.21	7	1,491.77	7	1,101.90	7	711.87	7	321.82	7		7		7			
1/4	2,264.51	1/4	1,874.07	1/4	1,483.63	1/4	1,093.78	1/4	703.75	1/4	313.68	1/4		1/4		1/4			
1/2	2,256.38	1/2	1,865.94	1/2	1,475.50	1/2	1,085.66	1/2	695.64	1/2	305.54	1/2		1/2		1/2			
3/4	2,248.25	3/4	1,857.80	3/4	1,467.36	3/4	1,077.55	3/4	687.52	3/4	297.41	3/4		3/4		3/4			
8	2,240.11	8	1,849.67	8	1,459.23	8	1,069.43	8	679.41	8	289.27	8		8		8			
1/4	2,231.98	1/4	1,841.54	1/4	1,451.09	1/4	1,061.31	1/4	671.29	1/4	281.14	1/4		1/4		1/4			
1/2	2,223.84	1/2	1,833.40	1/2	1,442.96	1/2	1,053.20	1/2	663.18	1/2	273.00	1/2		1/2		1/2			
3/4	2,215.71	3/4	1,825.27	3/4	1,434.83	3/4	1,045.08	3/4	655.06	3/4	264.87	3/4		3/4		3/4			
9	2,207.58	9	1,817.13	9	1,426.69	9	1,036.96	9	646.95	9	256.73	9		9		9			
1/4	2,199.44	1/4	1,809.00	1/4	1,418.56	1/4	1,028.85	1/4	638.83	1/4	248.60	1/4		1/4		1/4			
1/2	2,191.31	1/2	1,800.87	1/2	1,410.42	1/2	1,020.73	1/2	630.72	1/2	240.46	1/2		1/2		1/2			
3/4	2,183.17	3/4	1,792.73	3/4	1,402.29	3/4	1,012.61	3/4	622.61	3/4	232.32	3/4		3/4		3/4			
10	2,175.04	10	1,784.60	10	1,394.16	10	1,004.49	10	614.49	10	224.19	10		10		10			
1/4	2,166.90	1/4	1,776.46	1/4	1,386.03	1/4	996.36	1/4	606.38	1/4	216.05	1/4		1/4		1/4			
1/2	2,158.77	1/2	1,768.33	1/2	1,377.91	1/2	988.24	1/2	598.26	1/2	207.92	1/2		1/2		1/2			
3/4	2,150.64	3/4	1,760.19	3/4	1,369.78	3/4	980.11	3/4	590.15	3/4	199.78	3/4		3/4		3/4			
11	2,142.50	11	1,752.06	11	1,361.66	11	971.98	11	582.03	11	191.65	11		11		11			
1/4	2,134.37	1/4	1,743.93	1/4	1,353.54	1/4	963.85	1/4	573.92	1/4	183.51	1/4		1/4		1/4			
1/2	2,126.23	1/2	1,735.79	1/2	1,345.42	1/2	955.71	1/2	565.80	1/2	175.38	1/2		1/2		1/2			
3/4	2,118.10	3/4	1,727.66	3/4	1,337.30	3/4	947.58	3/4	557.69	3/4	167.24	3/4		3/4		3/4			

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 09/29/2010 CL - SW  
CALCULATED: 09/29/2010 CL  
PRINTED: 09/29/2010 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 09/2010

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



# BARGE "KIRBY 32004B"

3 STBD

ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-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		0		0	4,949.24	0	4,615.00	0	4,281.91	0	3,948.82	0	3,615.79	0	3,252.41	0	2,865.02		
1/4		1/4		1/4		1/4	4,942.01	1/4	4,608.06	1/4	4,274.97	1/4	3,941.89	1/4	3,608.86	1/4	3,244.34	1/4	2,856.95		
1/2		1/2		1/2		1/2	4,934.78	1/2	4,601.12	1/2	4,268.03	1/2	3,934.95	1/2	3,601.92	1/2	3,236.27	1/2	2,848.88		
3/4		3/4		3/4		3/4	4,927.55	3/4	4,594.18	3/4	4,261.09	3/4	3,928.01	3/4	3,594.99	3/4	3,228.20	3/4	2,840.81		
1		1		1		1	4,920.33	1	4,587.24	1	4,254.15	1	3,921.07	1	3,588.06	1	3,220.13	1	2,832.74		
1/4		1/4		1/4		1/4	4,913.39	1/4	4,580.30	1/4	4,247.21	1/4	3,914.13	1/4	3,581.13	1/4	3,212.06	1/4	2,824.67		
1/2		1/2		1/2		1/2	4,906.45	1/2	4,573.36	1/2	4,240.28	1/2	3,907.19	1/2	3,574.20	1/2	3,203.99	1/2	2,816.60		
3/4		3/4		3/4		3/4	4,899.51	3/4	4,566.42	3/4	4,233.34	3/4	3,900.25	3/4	3,567.26	3/4	3,195.92	3/4	2,808.53		
2		2		2		2	4,892.57	2	4,559.48	2	4,226.40	2	3,893.31	2	3,560.33	2	3,187.85	2	2,800.46		
1/4		1/4		1/4		1/4	4,885.63	1/4	4,552.54	1/4	4,219.46	1/4	3,886.37	1/4	3,553.40	1/4	3,179.78	1/4	2,792.38		
1/2		1/2		1/2		1/2	4,878.69	1/2	4,545.60	1/2	4,212.52	1/2	3,879.43	1/2	3,546.47	1/2	3,171.71	1/2	2,784.31		
3/4		3/4		3/4		3/4	4,871.75	3/4	4,538.67	3/4	4,205.58	3/4	3,872.49	3/4	3,539.54	3/4	3,163.64	3/4	2,776.24		
3		3		3		3	4,864.81	3	4,531.73	3	4,198.64	3	3,865.55	3	3,532.60	3	3,155.57	3	2,768.17		
1/4		1/4		1/4		1/4	4,857.87	1/4	4,524.79	1/4	4,191.70	1/4	3,858.61	1/4	3,525.68	1/4	3,147.50	1/4	2,760.10		
1/2		1/2		1/2		1/2	4,850.93	1/2	4,517.85	1/2	4,184.76	1/2	3,851.67	1/2	3,518.76	1/2	3,139.42	1/2	2,752.03		
3/4		3/4		3/4		3/4	4,843.99	3/4	4,510.91	3/4	4,177.82	3/4	3,844.74	3/4	3,511.84	3/4	3,131.35	3/4	2,743.96		
4		4		4		4	4,837.06	4	4,503.97	4	4,170.88	4	3,837.80	4	3,504.91	4	3,123.28	4	2,735.89		
1/4		1/4		1/4		1/4	4,830.12	1/4	4,497.03	1/4	4,163.94	1/4	3,830.86	1/4	3,498.00	1/4	3,115.21	1/4	2,727.82		
1/2		1/2		1/2		1/2	4,823.18	1/2	4,490.09	1/2	4,157.00	1/2	3,823.92	1/2	3,491.08	1/2	3,107.14	1/2	2,719.75		
3/4		3/4		3/4		3/4	4,816.24	3/4	4,483.15	3/4	4,150.06	3/4	3,816.98	3/4	3,484.16	3/4	3,099.07	3/4	2,711.68		
5		5		5		5	4,809.30	5	4,476.21	5	4,143.13	5	3,810.04	5	3,477.24	5	3,091.00	5	2,703.61		
1/4		1/4		1/4		1/4	4,802.36	1/4	4,469.27	1/4	4,136.19	1/4	3,803.10	1/4	3,469.46	1/4	3,082.93	1/4	2,695.54		
1/2		1/2		1/2		1/2	4,795.42	1/2	4,462.33	1/2	4,129.25	1/2	3,796.16	1/2	3,461.67	1/2	3,074.86	1/2	2,687.47		
3/4		3/4		3/4		3/4	4,788.48	3/4	4,455.39	3/4	4,122.31	3/4	3,789.22	3/4	3,453.89	3/4	3,066.79	3/4	2,679.40		
6		6		6		6	4,781.54	6	4,448.45	6	4,115.37	6	3,782.28	6	3,446.11	6	3,058.72	6	2,671.32		
1/4		1/4		1/4		1/4	4,774.60	1/4	4,441.52	1/4	4,108.43	1/4	3,775.34	1/4	3,438.04	1/4	3,050.65	1/4	2,663.25		
1/2		1/2		1/2		1/2	5,098.24	1/2	4,767.66	1/2	4,434.58	1/2	4,101.49	1/2	3,768.40	1/2	3,429.97	1/2	3,042.58	1/2	2,655.18
3/4		3/4		3/4		3/4	5,094.53	3/4	4,760.72	3/4	4,427.64	3/4	4,094.55	3/4	3,761.46	3/4	3,421.90	3/4	3,034.51	3/4	2,647.11
7		7		7		7	5,090.82	7	4,753.78	7	4,420.70	7	4,087.61	7	3,754.52	7	3,413.83	7	3,026.44	7	2,639.04
1/4		1/4		1/4		1/4	5,085.77	1/4	4,746.84	1/4	4,413.76	1/4	4,080.67	1/4	3,747.59	1/4	3,405.76	1/4	3,018.36	1/4	2,630.97
1/2		1/2		1/2		1/2	5,080.71	1/2	4,739.91	1/2	4,406.82	1/2	4,073.73	1/2	3,740.65	1/2	3,397.69	1/2	3,010.29	1/2	2,622.90
3/4		3/4		3/4		3/4	5,075.65	3/4	4,732.97	3/4	4,399.88	3/4	4,066.79	3/4	3,733.71	3/4	3,389.62	3/4	3,002.22	3/4	2,614.83
8		8		8		8	5,070.59	8	4,726.03	8	4,392.94	8	4,059.85	8	3,726.77	8	3,381.55	8	2,994.15	8	2,606.76
1/4		1/4		1/4		1/4	5,064.19	1/4	4,719.09	1/4	4,386.00	1/4	4,052.91	1/4	3,719.83	1/4	3,373.48	1/4	2,986.08	1/4	2,598.69
1/2		1/2		1/2		1/2	5,057.78	1/2	4,712.15	1/2	4,379.06	1/2	4,045.98	1/2	3,712.89	1/2	3,365.40	1/2	2,978.01	1/2	2,590.62
3/4		3/4		3/4		3/4	5,051.38	3/4	4,705.21	3/4	4,372.12	3/4	4,039.04	3/4	3,705.95	3/4	3,357.33	3/4	2,969.94	3/4	2,582.55
9		9		9		9	5,044.97	9	4,698.27	9	4,365.18	9	4,032.10	9	3,699.01	9	3,349.26	9	2,961.87	9	2,574.48
1/4		1/4		1/4		1/4	5,037.22	1/4	4,691.33	1/4	4,358.24	1/4	4,025.16	1/4	3,692.07	1/4	3,341.19	1/4	2,953.80	1/4	2,566.41
1/2		1/2		1/2		1/2	5,029.47	1/2	4,684.39	1/2	4,351.30	1/2	4,018.22	1/2	3,685.13	1/2	3,333.12	1/2	2,945.73	1/2	2,558.33
3/4		3/4		3/4		3/4	5,021.71	3/4	4,677.45	3/4	4,344.36	3/4	4,011.28	3/4	3,678.19	3/4	3,325.05	3/4	2,937.66	3/4	2,550.26
10		10		10		10	5,013.96	10	4,670.51	10	4,337.43	10	4,004.34	10	3,671.25	10	3,316.98	10	2,929.59	10	2,542.19
1/4		1/4		1/4		1/4	5,005.87	1/4	4,663.57	1/4	4,330.49	1/4	3,997.40	1/4	3,664.32	1/4	3,308.91	1/4	2,921.52	1/4	2,534.12
1/2		1/2		1/2		1/2	4,997.78	1/2	4,656.63	1/2	4,323.55	1/2	3,990.46	1/2	3,657.38	1/2	3,300.84	1/2	2,913.45	1/2	2,526.05
3/4		3/4		3/4		3/4	4,989.69	3/4	4,649.69	3/4	4,316.61	3/4	3,983.52	3/4	3,650.45	3/4	3,292.77	3/4	2,905.37	3/4	2,517.98
11		11		11		11	4,981.60	11	4,642.75	11	4,309.67	11	3,976.58	11	3,643.52	11	3,284.70	11	2,897.30	11	2,509.91
1/4		1/4		1/4		1/4	4,973.51	1/4	4,635.82	1/4	4,302.73	1/4	3,969.64	1/4	3,636.58	1/4	3,276.63	1/4	2,889.23	1/4	2,501.84
1/2		1/2		1/2		1/2	4,965.42	1/2	4,628.88	1/2	4,295.79	1/2	3,962.70	1/2	3,629.65	1/2	3,268.56	1/2	2,881.16	1/2	2,493.77
3/4		3/4		3/4		3/4	4,957.33	3/4	4,621.94	3/4	4,288.85	3/4	3,955.76	3/4	3,622.72	3/4	3,260.49	3/4	2,873.09	3/4	2,485.70

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.  
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.  
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.  
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN WITH "HERMETIC" CLOSED GAUGING DEVICE.  
 GAUGE POINT: (HERMETIC) LOCATED 13'-00" OFF CENTERLINE AND 51'-00" FORWARD OF AFT BULKHEAD.

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



# BARGE "KIRBY 32004B"

## 3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-05"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,477.63	0	2,090.92	0	1,704.73	0	1,318.05	0	944.68	0	557.90	0	170.16	0		0			
1/4	2,469.55	1/4	2,082.89	1/4	1,696.65	1/4	1,310.29	1/4	936.60	1/4	549.83	1/4	162.08	1/4		1/4			
1/2	2,461.48	1/2	2,074.87	1/2	1,688.57	1/2	1,302.54	1/2	928.52	1/2	541.76	1/2	154.00	1/2		1/2			
3/4	2,453.40	3/4	2,066.84	3/4	1,680.50	3/4	1,294.78	3/4	920.44	3/4	533.69	3/4	145.92	3/4		3/4			
1	2,445.33	1	2,058.81	1	1,672.42	1	1,287.02	1	912.36	1	525.62	1	137.85	1		1			
1/4	2,437.25	1/4	2,050.79	1/4	1,664.35	1/4	1,279.26	1/4	904.29	1/4	517.54	1/4	129.77	1/4		1/4			
1/2	2,429.18	1/2	2,042.76	1/2	1,656.27	1/2	1,271.50	1/2	896.21	1/2	509.46	1/2	121.69	1/2		1/2			
3/4	2,421.10	3/4	2,034.74	3/4	1,648.20	3/4	1,263.74	3/4	888.13	3/4	501.38	3/4	113.62	3/4		3/4			
2	2,413.02	2	2,026.71	2	1,640.12	2	1,255.98	2	880.05	2	493.30	2	105.54	2		2			
1/4	2,404.95	1/4	2,018.68	1/4	1,632.05	1/4	1,248.23	1/4	871.98	1/4	485.22	1/4	97.46	1/4		1/4			
1/2	2,396.87	1/2	2,010.66	1/2	1,623.97	1/2	1,240.47	1/2	863.90	1/2	477.14	1/2	89.38	1/2		1/2			
3/4	2,388.80	3/4	2,002.63	3/4	1,615.89	3/4	1,232.71	3/4	855.83	3/4	469.06	3/4	81.31	3/4		3/4			
3	2,380.72	3	1,994.60	3	1,607.82	3	1,224.95	3	847.76	3	460.99	3	73.23	3		3			
1/4	2,372.64	1/4	1,986.58	1/4	1,599.74	1/4	1,217.19	1/4	839.68	1/4	452.91	1/4	65.91	1/4		1/4			
1/2	2,364.57	1/2	1,978.55	1/2	1,591.67	1/2	1,209.43	1/2	831.61	1/2	444.83	1/2	58.58	1/2		1/2			
3/4	2,356.49	3/4	1,970.53	3/4	1,583.59	3/4	1,201.67	3/4	823.54	3/4	436.75	3/4	51.26	3/4		3/4			
4	2,348.41	4	1,962.50	4	1,575.52	4	1,193.92	4	815.47	4	428.67	4	43.94	4		4			
1/4	2,340.34	1/4	1,954.47	1/4	1,567.44	1/4	1,186.16	1/4	807.41	1/4	420.59	1/4	38.38	1/4		1/4			
1/2	2,332.26	1/2	1,946.45	1/2	1,559.37	1/2	1,178.40	1/2	799.36	1/2	412.51	1/2	32.82	1/2		1/2			
3/4	2,324.19	3/4	1,938.42	3/4	1,551.29	3/4	1,170.64	3/4	791.30	3/4	404.44	3/4	27.26	3/4		3/4			
5	2,316.11	5	1,930.40	5	1,543.22	5	1,162.88	5	783.25	5	396.36	5	21.70	5		5			
1/4	2,308.03	1/4	1,922.37	1/4	1,535.14	1/4	1,155.12	1/4	775.20	1/4	388.28	1/4		1/4		1/4			
1/2	2,299.96	1/2	1,914.34	1/2	1,527.06	1/2	1,147.36	1/2	767.15	1/2	380.20	1/2		1/2		1/2			
3/4	2,291.88	3/4	1,906.32	3/4	1,518.99	3/4	1,139.60	3/4	759.11	3/4	372.12	3/4		3/4		3/4			
6	2,283.81	6	1,898.29	6	1,510.91	6	1,131.85	6	751.06	6	364.04	6		6		6			
1/4	2,275.73	1/4	1,890.26	1/4	1,502.84	1/4	1,124.09	1/4	743.01	1/4	355.96	1/4		1/4		1/4			
1/2	2,267.65	1/2	1,882.24	1/2	1,494.76	1/2	1,116.33	1/2	734.96	1/2	347.89	1/2		1/2		1/2			
3/4	2,259.57	3/4	1,874.21	3/4	1,486.69	3/4	1,108.57	3/4	726.91	3/4	339.81	3/4		3/4		3/4			
7	2,251.49	7	1,866.19	7	1,478.61	7	1,100.81	7	718.86	7	331.73	7		7		7			
1/4	2,243.45	1/4	1,858.12	1/4	1,470.54	1/4	1,093.05	1/4	710.82	1/4	323.65	1/4		1/4		1/4			
1/2	2,235.42	1/2	1,850.06	1/2	1,462.46	1/2	1,085.29	1/2	702.77	1/2	315.57	1/2		1/2		1/2			
3/4	2,227.38	3/4	1,842.00	3/4	1,454.38	3/4	1,077.54	3/4	694.72	3/4	307.49	3/4		3/4		3/4			
8	2,219.34	8	1,833.93	8	1,446.31	8	1,069.78	8	686.67	8	299.41	8		8		8			
1/4	2,211.31	1/4	1,825.86	1/4	1,438.23	1/4	1,062.02	1/4	678.62	1/4	291.34	1/4		1/4		1/4			
1/2	2,203.29	1/2	1,817.78	1/2	1,430.16	1/2	1,054.26	1/2	670.57	1/2	283.26	1/2		1/2		1/2			
3/4	2,195.26	3/4	1,809.71	3/4	1,422.08	3/4	1,046.50	3/4	662.53	3/4	275.18	3/4		3/4		3/4			
9	2,187.23	9	1,801.63	9	1,414.01	9	1,038.74	9	654.48	9	267.10	9		9		9			
1/4	2,179.21	1/4	1,793.56	1/4	1,405.93	1/4	1,030.98	1/4	646.43	1/4	259.02	1/4		1/4		1/4			
1/2	2,171.18	1/2	1,785.48	1/2	1,397.86	1/2	1,023.23	1/2	638.38	1/2	250.94	1/2		1/2		1/2			
3/4	2,163.15	3/4	1,777.40	3/4	1,389.78	3/4	1,015.47	3/4	630.33	3/4	242.86	3/4		3/4		3/4			
10	2,155.13	10	1,769.33	10	1,381.71	10	1,007.71	10	622.28	10	234.79	10		10		10			
1/4	2,147.10	1/4	1,761.25	1/4	1,373.63	1/4	999.95	1/4	614.24	1/4	226.71	1/4		1/4		1/4			
1/2	2,139.08	1/2	1,753.18	1/2	1,365.55	1/2	992.19	1/2	606.19	1/2	218.63	1/2		1/2		1/2			
3/4	2,131.05	3/4	1,745.10	3/4	1,357.48	3/4	984.43	3/4	598.14	3/4	210.55	3/4		3/4		3/4			
11	2,123.02	11	1,737.03	11	1,349.40	11	976.67	11	590.09	11	202.47	11		11		11			
1/4	2,115.00	1/4	1,728.95	1/4	1,341.57	1/4	968.68	1/4	582.04	1/4	194.39	1/4		1/4		1/4			
1/2	2,106.97	1/2	1,720.88	1/2	1,333.73	1/2	960.68	1/2	573.99	1/2	186.31	1/2		1/2		1/2			
3/4	2,098.95	3/4	1,712.80	3/4	1,325.89	3/4	952.68	3/4	565.95	3/4	178.24	3/4		3/4		3/4			

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 09/29/2010 CL - SW  
CALCULATED: 09/29/2010 CL  
PRINTED: 09/29/2010 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 09/2010

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