



# BARGE "KIRBY 28080"

## 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	00-1/2	- 00-1/2	00-7/8	- 00-7/8	01-3/8	- 01-3/8	01-7/8	- 01-7/8	02-1/4	- 02-1/4	02-3/4	- 02-3/4
1 STBD	00-1/2	- 00-1/2	00-7/8	- 00-7/8	01-3/8	- 01-3/8	01-7/8	- 01-7/8	02-1/4	- 02-1/4	02-3/4	- 02-3/4
2 PORT	00-1/2	- 00-1/2	00-7/8	- 00-7/8	01-3/8	- 01-3/8	01-7/8	- 01-7/8	02-3/8	- 02-3/8	02-3/4	- 02-3/4
2 STBD	00-1/2	- 00-1/2	00-7/8	- 00-7/8	01-3/8	- 01-3/8	01-7/8	- 01-7/8	02-3/8	- 02-3/8	02-3/4	- 02-3/4
3 PORT	00-1/2	- 00-1/2	00-7/8	- 00-7/8	01-3/8	- 01-3/8	01-7/8	- 01-7/8	02-3/8	- 02-3/8	02-3/4	- 02-3/4
3 STBD	00-1/2	- 00-1/2	00-7/8	- 00-7/8	01-3/8	- 01-3/8	01-7/8	- 01-7/8	02-3/8	- 02-3/8	02-3/4	- 02-3/4

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

LENGTH BETWEEN DRAFT MARKS: 241'-00"

August 3, 2006

**PRECISION MEASUREMENT  
& ANALYSIS, INC.**

P.O. Box 2092  
 Pearland, Texas 77588

<http://www.pmacorp.net>



# BARGE "KIRBY 28080"

## 1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-07 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	
0		0		0		0	4,830.68	0	4,504.19	0	4,170.61	0	3,813.46	0	3,447.14	0	3,080.82	0	2,714.50
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,825.04	1/4	4,497.50	1/4	4,163.39	1/4	3,805.83	1/4	3,439.51	1/4	3,073.19	1/4	2,706.87
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,818.21	1/2	4,490.78	1/2	4,156.14	1/2	3,798.20	1/2	3,431.88	1/2	3,065.55	1/2	2,699.23
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,811.38	3/4	4,484.06	3/4	4,148.89	3/4	3,790.57	3/4	3,424.24	3/4	3,057.92	3/4	2,691.60
1		1		1		1	4,804.55	1	4,477.34	1	4,141.63	1	3,782.93	1	3,416.61	1	3,050.29	1	2,683.97
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,797.71	1/4	4,470.62	1/4	4,134.38	1/4	3,775.30	1/4	3,408.98	1/4	3,042.66	1/4	2,676.34
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,790.25	1/2	4,463.86	1/2	4,127.09	1/2	3,767.67	1/2	3,401.35	1/2	3,035.03	1/2	2,668.71
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,782.78	3/4	4,457.10	3/4	4,119.80	3/4	3,760.04	3/4	3,393.72	3/4	3,027.40	3/4	2,661.07
2		2		2		2	4,775.31	2	4,450.35	2	4,112.51	2	3,752.41	2	3,386.09	2	3,019.76	2	2,653.44
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,767.85	1/4	4,443.59	1/4	4,105.22	1/4	3,744.78	1/4	3,378.45	1/4	3,012.13	1/4	2,645.81
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,760.30	1/2	4,436.79	1/2	4,097.89	1/2	3,737.14	1/2	3,370.82	1/2	3,004.50	1/2	2,638.18
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,752.75	3/4	4,430.00	3/4	4,090.57	3/4	3,729.51	3/4	3,363.19	3/4	2,996.87	3/4	2,630.55
3		3		3		3	4,745.20	3	4,423.21	3	4,083.24	3	3,721.88	3	3,355.56	3	2,989.24	3	2,622.92
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,737.66	1/4	4,416.41	1/4	4,075.92	1/4	3,714.25	1/4	3,347.93	1/4	2,981.61	1/4	2,615.28
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,730.39	1/2	4,409.58	1/2	4,068.56	1/2	3,706.62	1/2	3,340.30	1/2	2,973.97	1/2	2,607.65
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,723.12	3/4	4,402.75	3/4	4,061.20	3/4	3,698.99	3/4	3,332.66	3/4	2,966.34	3/4	2,600.02
4		4		4		4	4,715.85	4	4,395.92	4	4,053.84	4	3,691.35	4	3,325.03	4	2,958.71	4	2,592.39
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,708.59	1/4	4,389.08	1/4	4,046.48	1/4	3,683.72	1/4	3,317.40	1/4	2,951.08	1/4	2,584.76
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,701.87	1/2	4,382.21	1/2	4,039.09	1/2	3,676.09	1/2	3,309.77	1/2	2,943.45	1/2	2,577.13
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,695.15	3/4	4,375.35	3/4	4,031.70	3/4	3,668.46	3/4	3,302.14	3/4	2,935.82	3/4	2,569.49
5		5		5		5	4,688.43	5	4,368.48	5	4,024.30	5	3,660.83	5	3,294.51	5	2,928.18	5	2,561.86
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,681.71	1/4	4,361.61	1/4	4,016.91	1/4	3,653.20	1/4	3,286.87	1/4	2,920.55	1/4	2,554.23
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,675.25	1/2	4,354.70	1/2	4,009.48	1/2	3,645.56	1/2	3,279.24	1/2	2,912.92	1/2	2,546.60
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,668.78	3/4	4,347.79	3/4	4,002.05	3/4	3,637.93	3/4	3,271.61	3/4	2,905.29	3/4	2,538.97
6		6		6		6	4,662.31	6	4,340.89	6	3,994.62	6	3,630.30	6	3,263.98	6	2,897.66	6	2,531.34
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,655.84	1/4	4,333.98	1/4	3,987.19	1/4	3,622.67	1/4	3,256.35	1/4	2,890.03	1/4	2,523.70
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,649.34	1/2	4,327.02	1/2	3,979.72	1/2	3,615.04	1/2	3,248.72	1/2	2,882.39	1/2	2,516.07
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,642.84	3/4	4,320.05	3/4	3,972.25	3/4	3,607.41	3/4	3,241.08	3/4	2,874.76	3/4	2,508.44
7		7		7		7	4,636.33	7	4,313.09	7	3,964.78	7	3,599.77	7	3,233.45	7	2,867.13	7	2,500.81
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,629.83	1/4	4,306.12	1/4	3,957.32	1/4	3,592.14	1/4	3,225.82	1/4	2,859.50	1/4	2,493.18
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,623.28	1/2	4,299.08	1/2	3,949.81	1/2	3,584.51	1/2	3,218.19	1/2	2,851.87	1/2	2,485.55
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,616.74	3/4	4,292.03	3/4	3,942.30	3/4	3,576.88	3/4	3,210.56	3/4	2,844.24	3/4	2,477.91
8		8		8		8	4,610.20	8	4,284.99	8	3,934.80	8	3,569.25	8	3,202.93	8	2,836.60	8	2,470.28
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,603.66	1/4	4,277.94	1/4	3,927.29	1/4	3,561.62	1/4	3,195.29	1/4	2,828.97	1/4	2,462.65
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,597.08	1/2	4,270.84	1/2	3,919.75	1/2	3,553.98	1/2	3,187.66	1/2	2,821.34	1/2	2,455.02
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,590.50	3/4	4,263.74	3/4	3,912.21	3/4	3,546.35	3/4	3,180.03	3/4	2,813.71	3/4	2,447.39
9		9		9		9	4,583.92	9	4,256.63	9	3,904.67	9	3,538.72	9	3,172.40	9	2,806.08	9	2,439.76
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,577.34	1/4	4,249.53	1/4	3,897.12	1/4	3,531.09	1/4	3,164.77	1/4	2,798.45	1/4	2,432.12
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,570.73	1/2	4,242.39	1/2	3,889.54	1/2	3,523.46	1/2	3,157.14	1/2	2,790.81	1/2	2,424.49
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,564.11	3/4	4,235.25	3/4	3,881.96	3/4	3,515.83	3/4	3,149.50	3/4	2,783.18	3/4	2,416.86
10		10		10		10	4,557.49	10	4,228.11	10	3,874.38	10	3,508.19	10	3,141.87	10	2,775.55	10	2,409.23
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,550.88	1/4	4,220.97	1/4	3,866.80	1/4	3,500.56	1/4	3,134.24	1/4	2,767.92	1/4	2,401.60
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,544.22	1/2	4,213.79	1/2	3,859.19	1/2	3,492.93	1/2	3,126.61	1/2	2,760.29	1/2	2,393.97
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,537.57	3/4	4,206.61	3/4	3,851.58	3/4	3,485.30	3/4	3,118.98	3/4	2,752.66	3/4	2,386.33
11		11		11		11	4,530.91	11	4,199.43	11	3,843.97	11	3,477.67	11	3,111.35	11	2,745.02	11	2,378.70
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,524.26	1/4	4,192.25	1/4	3,836.35	1/4	3,470.04	1/4	3,103.71	1/4	2,737.39	1/4	2,371.07
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,517.57	1/2	4,185.04	1/2	3,828.72	1/2	3,462.40	1/2	3,096.08	1/2	2,729.76	1/2	2,363.44
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,836.32	3/4	4,510.88	3/4	4,177.82	3/4	3,821.09	3/4	3,454.77	3/4	3,088.45	3/4	2,722.13

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'-10" OFF CENTERLINE AND 53'-00" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT  
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmacorp.net>



# BARGE "KIRBY 28080"

## 1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-07 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	2,348.18	0	1,981.85	0	1,615.52	0	1,249.83	0	885.72	0	519.65	0	174.83	0		0		0	
1/4	2,340.54	1/4	1,974.22	1/4	1,607.89	1/4	1,242.20	1/4	878.14	1/4	512.01	1/4	168.13	1/4		1/4		1/4	
1/2	2,332.91	1/2	1,966.59	1/2	1,600.25	1/2	1,234.57	1/2	870.55	1/2	504.40	1/2	161.52	1/2		1/2		1/2	
3/4	2,325.28	3/4	1,958.96	3/4	1,592.62	3/4	1,226.94	3/4	862.96	3/4	496.79	3/4	154.90	3/4		3/4		3/4	
1	2,317.65	1	1,951.33	1	1,584.99	1	1,219.30	1	855.37	1	489.18	1	148.29	1		1		1	
1/4	2,310.02	1/4	1,943.69	1/4	1,577.36	1/4	1,211.67	1/4	847.78	1/4	481.57	1/4	141.68	1/4		1/4		1/4	
1/2	2,302.38	1/2	1,936.06	1/2	1,569.73	1/2	1,204.05	1/2	840.16	1/2	474.02	1/2	135.16	1/2		1/2		1/2	
3/4	2,294.75	3/4	1,928.43	3/4	1,562.09	3/4	1,196.44	3/4	832.55	3/4	466.47	3/4	128.64	3/4		3/4		3/4	
2	2,287.12	2	1,920.80	2	1,554.46	2	1,188.82	2	824.93	2	458.92	2	122.12	2		2		2	
1/4	2,279.49	1/4	1,913.17	1/4	1,546.83	1/4	1,181.20	1/4	817.31	1/4	451.37	1/4	115.60	1/4		1/4		1/4	
1/2	2,271.86	1/2	1,905.53	1/2	1,539.20	1/2	1,173.61	1/2	809.68	1/2	443.91	1/2	109.18	1/2		1/2		1/2	
3/4	2,264.23	3/4	1,897.90	3/4	1,531.57	3/4	1,166.02	3/4	802.05	3/4	436.45	3/4	102.76	3/4		3/4		3/4	
3	2,256.59	3	1,890.27	3	1,523.93	3	1,158.43	3	794.41	3	428.99	3	96.33	3		3		3	
1/4	2,248.96	1/4	1,882.64	1/4	1,516.30	1/4	1,150.84	1/4	786.78	1/4	421.52	1/4	89.91	1/4		1/4		1/4	
1/2	2,241.33	1/2	1,875.01	1/2	1,508.67	1/2	1,143.26	1/2	779.15	1/2	414.14	1/2	83.59	1/2		1/2		1/2	
3/4	2,233.70	3/4	1,867.37	3/4	1,501.04	3/4	1,135.68	3/4	771.52	3/4	406.77	3/4	77.27	3/4		3/4		3/4	
4	2,226.07	4	1,859.74	4	1,493.41	4	1,128.11	4	763.88	4	399.39	4	70.95	4		4		4	
1/4	2,218.44	1/4	1,852.11	1/4	1,485.77	1/4	1,120.53	1/4	756.25	1/4	392.01	1/4	64.64	1/4		1/4		1/4	
1/2	2,210.80	1/2	1,844.48	1/2	1,478.16	1/2	1,112.96	1/2	748.62	1/2	384.72	1/2	58.44	1/2		1/2		1/2	
3/4	2,203.17	3/4	1,836.85	3/4	1,470.54	3/4	1,105.38	3/4	740.99	3/4	377.42	3/4	52.24	3/4		3/4		3/4	
5	2,195.54	5	1,829.21	5	1,462.92	5	1,097.81	5	733.36	5	370.13	5	46.04	5		5		5	
1/4	2,187.91	1/4	1,821.58	1/4	1,455.30	1/4	1,090.23	1/4	725.72	1/4	362.84	1/4	39.84	1/4		1/4		1/4	
1/2	2,180.28	1/2	1,813.95	1/2	1,447.70	1/2	1,082.66	1/2	718.09	1/2	355.63	1/2	34.33	1/2		1/2		1/2	
3/4	2,172.65	3/4	1,806.32	3/4	1,440.09	3/4	1,075.08	3/4	710.46	3/4	348.42	3/4	28.83	3/4		3/4		3/4	
6	2,165.01	6	1,798.69	6	1,432.49	6	1,067.51	6	702.83	6	341.21	6	23.33	6		6		6	
1/4	2,157.38	1/4	1,791.05	1/4	1,424.88	1/4	1,059.94	1/4	695.19	1/4	334.00	1/4	17.82	1/4		1/4		1/4	
1/2	2,149.75	1/2	1,783.42	1/2	1,417.28	1/2	1,052.36	1/2	687.56	1/2	326.88	1/2	14.26	1/2		1/2		1/2	
3/4	2,142.12	3/4	1,775.79	3/4	1,409.68	3/4	1,044.79	3/4	679.93	3/4	319.76	3/4	10.70	3/4		3/4		3/4	
7	2,134.49	7	1,768.16	7	1,402.07	7	1,037.21	7	672.30	7	312.63	7	7.15	7		7		7	
1/4	2,126.86	1/4	1,760.53	1/4	1,394.47	1/4	1,029.64	1/4	664.67	1/4	305.51	1/4	3.59	1/4		1/4		1/4	
1/2	2,119.22	1/2	1,752.89	1/2	1,386.86	1/2	1,022.06	1/2	657.03	1/2	298.47	1/2		1/2		1/2		1/2	
3/4	2,111.59	3/4	1,745.26	3/4	1,379.26	3/4	1,014.49	3/4	649.40	3/4	291.43	3/4		3/4		3/4		3/4	
8	2,103.96	8	1,737.63	8	1,371.65	8	1,006.92	8	641.77	8	284.39	8		8		8		8	
1/4	2,096.33	1/4	1,730.00	1/4	1,364.05	1/4	999.34	1/4	634.14	1/4	277.35	1/4		1/4		1/4		1/4	
1/2	2,088.70	1/2	1,722.37	1/2	1,356.44	1/2	991.77	1/2	626.50	1/2	270.40	1/2		1/2		1/2		1/2	
3/4	2,081.07	3/4	1,714.73	3/4	1,348.84	3/4	984.19	3/4	618.87	3/4	263.45	3/4		3/4		3/4		3/4	
9	2,073.43	9	1,707.10	9	1,341.23	9	976.62	9	611.24	9	256.49	9		9		9		9	
1/4	2,065.80	1/4	1,699.47	1/4	1,333.63	1/4	969.04	1/4	603.61	1/4	249.54	1/4		1/4		1/4		1/4	
1/2	2,058.17	1/2	1,691.84	1/2	1,326.02	1/2	961.47	1/2	595.97	1/2	242.67	1/2		1/2		1/2		1/2	
3/4	2,050.54	3/4	1,684.21	3/4	1,318.42	3/4	953.90	3/4	588.34	3/4	235.80	3/4		3/4		3/4		3/4	
10	2,042.91	10	1,676.57	10	1,310.81	10	946.32	10	580.71	10	228.93	10		10		10		10	
1/4	2,035.28	1/4	1,668.94	1/4	1,303.21	1/4	938.75	1/4	573.07	1/4	222.06	1/4		1/4		1/4		1/4	
1/2	2,027.64	1/2	1,661.31	1/2	1,295.59	1/2	931.17	1/2	565.44	1/2	215.28	1/2		1/2		1/2		1/2	
3/4	2,020.01	3/4	1,653.68	3/4	1,287.97	3/4	923.60	3/4	557.81	3/4	208.49	3/4		3/4		3/4		3/4	
11	2,012.38	11	1,646.05	11	1,280.35	11	916.02	11	550.18	11	201.71	11		11		11		11	
1/4	2,004.75	1/4	1,638.41	1/4	1,272.73	1/4	908.45	1/4	542.54	1/4	194.92	1/4		1/4		1/4		1/4	
1/2	1,997.12	1/2	1,630.78	1/2	1,265.10	1/2	900.87	1/2	534.91	1/2	188.22	1/2		1/2		1/2		1/2	
3/4	1,989.49	3/4	1,623.15	3/4	1,257.47	3/4	893.30	3/4	527.28	3/4	181.53	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 08/02/2006 CL - SW  
CALCULATED: 08/03/2006 CL  
PRINTED: 08/03/2006 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 08/2006

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



# BARGE "KIRBY 28080"

## 1 STBD ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-07 1/2"

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		0	4,509.59	0	4,176.73	0	3,820.22	0	3,454.11	0	3,088.01	0	2,721.90
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,502.90	1/4	4,169.52	1/4	3,812.59	1/4	3,446.49	1/4	3,080.38	1/4	2,714.28
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,823.55	1/2	4,496.22	1/2	4,162.31	1/2	3,804.97	1/2	3,438.86	1/2	3,072.75
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,816.73	3/4	4,489.50	3/4	4,155.06	3/4	3,797.34	3/4	3,431.23	3/4	2,699.02
1		1		1		1		1	4,809.90	1	4,482.78	1	4,147.81	1	3,789.71	1	3,423.61	1	3,057.50
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,803.07	1/4	4,476.07	1/4	4,140.56	1/4	3,782.08	1/4	3,415.98	1/4	3,049.87
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,796.25	1/2	4,469.35	1/2	4,133.31	1/2	3,774.46	1/2	3,408.35	1/2	3,042.25
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,788.78	3/4	4,462.59	3/4	4,126.03	3/4	3,766.83	3/4	3,400.72	3/4	2,668.51
2		2		2		2		2	4,781.32	2	4,455.84	2	4,118.74	2	3,759.20	2	3,393.10	2	3,026.99
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,773.86	1/4	4,449.09	1/4	4,111.46	1/4	3,751.58	1/4	3,385.47	1/4	3,019.36
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,766.40	1/2	4,442.34	1/2	4,104.17	1/2	3,743.95	1/2	3,377.84	1/2	3,011.74
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,758.85	3/4	4,435.55	3/4	4,096.85	3/4	3,736.32	3/4	3,370.22	3/4	3,004.11
3		3		3		3		3	4,751.31	3	4,428.76	3	4,089.53	3	3,728.69	3	3,362.59	3	2,996.48
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,743.77	1/4	4,421.97	1/4	4,082.21	1/4	3,721.07	1/4	3,354.96	1/4	2,988.86
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,736.23	1/2	4,415.18	1/2	4,074.89	1/2	3,713.44	1/2	3,347.33	1/2	2,981.23
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,728.96	3/4	4,408.35	3/4	4,067.53	3/4	3,705.81	3/4	3,339.71	3/4	2,973.60
4		4		4		4		4	4,721.70	4	4,401.52	4	4,060.18	4	3,698.18	4	3,332.08	4	2,965.97
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,714.43	1/4	4,394.69	1/4	4,052.82	1/4	3,690.56	1/4	3,324.45	1/4	2,958.35
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,707.17	1/2	4,387.86	1/2	4,045.47	1/2	3,682.93	1/2	3,316.82	1/2	2,950.72
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,700.46	3/4	4,381.00	3/4	4,038.08	3/4	3,675.30	3/4	3,309.20	3/4	2,943.09
5		5		5		5		5	4,693.74	5	4,374.13	5	4,030.69	5	3,667.68	5	3,301.57	5	2,935.46
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,687.03	1/4	4,367.27	1/4	4,023.30	1/4	3,660.05	1/4	3,293.94	1/4	2,927.84
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,680.31	1/2	4,360.41	1/2	4,015.92	1/2	3,652.42	1/2	3,286.32	1/2	2,920.21
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,673.85	3/4	4,353.50	3/4	4,008.49	3/4	3,644.79	3/4	3,278.69	3/4	2,912.58
6		6		6		6		6	4,667.39	6	4,346.60	6	4,001.06	6	3,637.17	6	3,271.06	6	2,904.96
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,660.93	1/4	4,339.70	1/4	3,993.64	1/4	3,629.54	1/4	3,263.43	1/4	2,897.33
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,654.46	1/2	4,332.80	1/2	3,986.21	1/2	3,621.91	1/2	3,255.81	1/2	2,889.70
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,647.96	3/4	4,325.83	3/4	3,978.75	3/4	3,614.29	3/4	3,248.18	3/4	2,882.07
7		7		7		7		7	4,641.46	7	4,318.87	7	3,971.28	7	3,606.66	7	3,240.55	7	2,874.45
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,634.96	1/4	4,311.91	1/4	3,963.82	1/4	3,599.03	1/4	3,232.93	1/4	2,866.82
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,628.46	1/2	4,304.95	1/2	3,956.36	1/2	3,591.40	1/2	3,225.30	1/2	2,859.19
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,621.92	3/4	4,297.91	3/4	3,948.85	3/4	3,583.78	3/4	3,217.67	3/4	2,851.57
8		8		8		8		8	4,615.39	8	4,290.87	8	3,941.35	8	3,576.15	8	3,210.04	8	2,843.94
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,608.85	1/4	4,283.83	1/4	3,933.85	1/4	3,568.52	1/4	3,202.42	1/4	2,836.31
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,602.31	1/2	4,276.79	1/2	3,926.35	1/2	3,560.90	1/2	3,194.79	1/2	2,828.68
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,595.73	3/4	4,269.69	3/4	3,918.81	3/4	3,553.27	3/4	3,187.16	3/4	2,821.06
9		9		9		9		9	4,589.16	9	4,262.59	9	3,911.28	9	3,545.64	9	3,179.54	9	2,813.43
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,582.58	1/4	4,255.49	1/4	3,903.74	1/4	3,538.01	1/4	3,171.91	1/4	2,805.80
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,576.01	1/2	4,248.39	1/2	3,896.20	1/2	3,530.39	1/2	3,164.28	1/2	2,798.18
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,569.40	3/4	4,241.26	3/4	3,888.62	3/4	3,522.76	3/4	3,156.65	3/4	2,790.55
10		10		10		10		10	4,562.78	10	4,234.12	10	3,881.05	10	3,515.13	10	3,149.03	10	2,782.92
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,556.17	1/4	4,226.98	1/4	3,873.47	1/4	3,507.50	1/4	3,141.40	1/4	2,775.29
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,549.56	1/2	4,219.85	1/2	3,865.90	1/2	3,499.88	1/2	3,133.77	1/2	2,767.67
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,542.91	3/4	4,212.67	3/4	3,858.29	3/4	3,492.25	3/4	3,126.14	3/4	2,760.04
11		11		11		11		11	4,536.26	11	4,205.50	11	3,850.68	11	3,484.62	11	3,118.52	11	2,752.41
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,529.61	1/4	4,198.33	1/4	3,843.07	1/4	3,477.00	1/4	3,110.89	1/4	2,744.78
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,522.96	1/2	4,191.15	1/2	3,835.47	1/2	3,469.37	1/2	3,103.26	1/2	2,737.16
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,516.27	3/4	4,183.94	3/4	3,827.84	3/4	3,461.74	3/4	3,095.64	3/4	2,729.53

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'-10" OFF CENTERLINE AND 53'-00" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT  
 & ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmacorp.net>



# BARGE "KIRBY 28080"

## 1 STBD ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-07 1/2"

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	2,355.80	0	1,989.69	0	1,623.57	0	1,258.11	0	892.99	0	526.96	0	181.41	0		0		0	
1/4	2,348.17	1/4	1,982.07	1/4	1,615.95	1/4	1,250.48	1/4	885.39	1/4	519.33	1/4	174.72	1/4	1/4	1/4		1/4	1/4
1/2	2,340.54	1/2	1,974.44	1/2	1,608.32	1/2	1,242.85	1/2	877.79	1/2	511.70	1/2	168.02	1/2	1/2	1/2		1/2	1/2
3/4	2,332.92	3/4	1,966.81	3/4	1,600.69	3/4	1,235.22	3/4	870.18	3/4	504.09	3/4	161.41	3/4	3/4	3/4		3/4	3/4
1	2,325.29	1	1,959.18	1	1,593.06	1	1,227.60	1	862.56	1	496.49	1	154.81	1		1		1	
1/4	2,317.66	1/4	1,951.56	1/4	1,585.44	1/4	1,219.97	1/4	854.95	1/4	488.88	1/4	148.20	1/4	1/4	1/4		1/4	1/4
1/2	2,310.03	1/2	1,943.93	1/2	1,577.81	1/2	1,212.34	1/2	847.33	1/2	481.27	1/2	141.59	1/2	1/2	1/2		1/2	1/2
3/4	2,302.41	3/4	1,936.30	3/4	1,570.18	3/4	1,204.71	3/4	839.70	3/4	473.73	3/4	135.08	3/4	3/4	3/4		3/4	3/4
2	2,294.78	2	1,928.67	2	1,562.55	2	1,197.08	2	832.07	2	466.19	2	128.56	2		2		2	
1/4	2,287.15	1/4	1,921.05	1/4	1,554.93	1/4	1,189.46	1/4	824.45	1/4	458.64	1/4	122.04	1/4	1/4	1/4		1/4	1/4
1/2	2,279.53	1/2	1,913.42	1/2	1,547.30	1/2	1,181.83	1/2	816.82	1/2	451.10	1/2	115.53	1/2	1/2	1/2		1/2	1/2
3/4	2,271.90	3/4	1,905.79	3/4	1,539.67	3/4	1,174.21	3/4	809.19	3/4	443.64	3/4	109.11	3/4	3/4	3/4		3/4	3/4
3	2,264.27	3	1,898.16	3	1,532.04	3	1,166.60	3	801.56	3	436.18	3	102.69	3		3		3	
1/4	2,256.64	1/4	1,890.54	1/4	1,524.42	1/4	1,158.98	1/4	793.94	1/4	428.72	1/4	96.27	1/4	1/4	1/4		1/4	1/4
1/2	2,249.02	1/2	1,882.91	1/2	1,516.79	1/2	1,151.37	1/2	786.31	1/2	421.26	1/2	89.85	1/2	1/2	1/2		1/2	1/2
3/4	2,241.39	3/4	1,875.28	3/4	1,509.16	3/4	1,143.76	3/4	778.68	3/4	413.89	3/4	83.54	3/4	3/4	3/4		3/4	3/4
4	2,233.76	4	1,867.65	4	1,501.53	4	1,136.16	4	771.05	4	406.52	4	77.22	4		4		4	
1/4	2,226.14	1/4	1,860.03	1/4	1,493.91	1/4	1,128.56	1/4	763.42	1/4	399.14	1/4	70.91	1/4	1/4	1/4		1/4	1/4
1/2	2,218.51	1/2	1,852.40	1/2	1,486.28	1/2	1,120.96	1/2	755.80	1/2	391.77	1/2	64.59	1/2	1/2	1/2		1/2	1/2
3/4	2,210.88	3/4	1,844.77	3/4	1,478.67	3/4	1,113.36	3/4	748.17	3/4	384.48	3/4	58.40	3/4	3/4	3/4		3/4	3/4
5	2,203.25	5	1,837.14	5	1,471.05	5	1,105.77	5	740.54	5	377.19	5	52.20	5		5		5	
1/4	2,195.63	1/4	1,829.52	1/4	1,463.44	1/4	1,098.17	1/4	732.91	1/4	369.90	1/4	46.01	1/4	1/4	1/4		1/4	1/4
1/2	2,188.00	1/2	1,821.89	1/2	1,455.83	1/2	1,090.57	1/2	725.29	1/2	362.61	1/2	39.81	1/2	1/2	1/2		1/2	1/2
3/4	2,180.37	3/4	1,814.26	3/4	1,448.23	3/4	1,082.97	3/4	717.66	3/4	355.41	3/4	34.31	3/4	3/4	3/4		3/4	3/4
6	2,172.74	6	1,806.63	6	1,440.63	6	1,075.37	6	710.03	6	348.21	6	28.81	6		6		6	
1/4	2,165.12	1/4	1,799.01	1/4	1,433.03	1/4	1,067.77	1/4	702.40	1/4	341.00	1/4	23.31	1/4	1/4	1/4		1/4	1/4
1/2	2,157.49	1/2	1,791.38	1/2	1,425.43	1/2	1,060.17	1/2	694.77	1/2	333.80	1/2	17.81	1/2	1/2	1/2		1/2	1/2
3/4	2,149.86	3/4	1,783.75	3/4	1,417.83	3/4	1,052.57	3/4	687.15	3/4	326.68	3/4	14.25	3/4	3/4	3/4		3/4	3/4
7	2,142.24	7	1,776.12	7	1,410.23	7	1,044.97	7	679.52	7	319.56	7	10.70	7		7		7	
1/4	2,134.61	1/4	1,768.50	1/4	1,402.63	1/4	1,037.38	1/4	671.89	1/4	312.44	1/4	7.14	1/4	1/4	1/4		1/4	1/4
1/2	2,126.98	1/2	1,760.87	1/2	1,395.03	1/2	1,029.78	1/2	664.26	1/2	305.32	1/2	3.58	1/2	1/2	1/2		1/2	1/2
3/4	2,119.35	3/4	1,753.24	3/4	1,387.43	3/4	1,022.18	3/4	656.63	3/4	298.29	3/4		3/4	3/4	3/4		3/4	3/4
8	2,111.73	8	1,745.61	8	1,379.83	8	1,014.58	8	649.01	8	291.25	8		8		8		8	
1/4	2,104.10	1/4	1,737.99	1/4	1,372.23	1/4	1,006.98	1/4	641.38	1/4	284.22	1/4		1/4	1/4	1/4		1/4	1/4
1/2	2,096.47	1/2	1,730.36	1/2	1,364.63	1/2	999.38	1/2	633.75	1/2	277.18	1/2		1/2	1/2	1/2		1/2	1/2
3/4	2,088.85	3/4	1,722.73	3/4	1,357.02	3/4	991.78	3/4	626.12	3/4	270.23	3/4		3/4	3/4	3/4		3/4	3/4
9	2,081.22	9	1,715.10	9	1,349.42	9	984.18	9	618.50	9	263.28	9		9		9		9	
1/4	2,073.59	1/4	1,707.48	1/4	1,341.82	1/4	976.58	1/4	610.87	1/4	256.33	1/4		1/4	1/4	1/4		1/4	1/4
1/2	2,065.96	1/2	1,699.85	1/2	1,334.22	1/2	968.99	1/2	603.24	1/2	249.38	1/2		1/2	1/2	1/2		1/2	1/2
3/4	2,058.34	3/4	1,692.22	3/4	1,326.62	3/4	961.39	3/4	595.61	3/4	242.52	3/4		3/4	3/4	3/4		3/4	3/4
10	2,050.71	10	1,684.59	10	1,319.02	10	953.79	10	587.98	10	235.65	10		10		10		10	
1/4	2,043.08	1/4	1,676.97	1/4	1,311.42	1/4	946.19	1/4	580.35	1/4	228.79	1/4		1/4	1/4	1/4		1/4	1/4
1/2	2,035.46	1/2	1,669.34	1/2	1,303.82	1/2	938.59	1/2	572.73	1/2	221.92	1/2		1/2	1/2	1/2		1/2	1/2
3/4	2,027.83	3/4	1,661.71	3/4	1,296.21	3/4	930.99	3/4	565.10	3/4	215.14	3/4		3/4	3/4	3/4		3/4	3/4
11	2,020.20	11	1,654.08	11	1,288.59	11	923.39	11	557.47	11	208.36	11		11		11		11	
1/4	2,012.57	1/4	1,646.46	1/4	1,280.98	1/4	915.79	1/4	549.84	1/4	201.58	1/4		1/4	1/4	1/4		1/4	1/4
1/2	2,004.95	1/2	1,638.83	1/2	1,273.36	1/2	908.19	1/2	542.21	1/2	194.80	1/2		1/2	1/2	1/2		1/2	1/2
3/4	1,997.32	3/4	1,631.20	3/4	1,265.74	3/4	900.59	3/4	534.59	3/4	188.11	3/4		3/4	3/4	3/4		3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 08/02/2006 CL - SW  
CALCULATED: 08/03/2006 CL  
PRINTED: 08/03/2006 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 08/2006

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



# BARGE "KIRBY 28080"

## 2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-07 1/2"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.		
IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	
0	0	0	0	0	0	0	0	4,531.33	0	4,200.45	0	3,846.05	0	3,482.13	0	3,118.19	0	2,754.26		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,849.03	1/4	4,524.69	1/4	4,193.29	1/4	3,838.47	1/4	3,474.54	1/4	3,110.61	1/4	2,746.68
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,843.43	1/2	4,518.04	1/2	4,186.12	1/2	3,830.89	1/2	3,466.96	1/2	3,103.03	1/2	2,739.10
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,836.64	3/4	4,511.37	3/4	4,178.91	3/4	3,823.31	3/4	3,459.38	3/4	3,095.45	3/4	2,731.52
1	1	1	1	1	1	1	1	4,829.86	1	4,504.69	1	4,171.71	1	3,815.73	1	3,451.80	1	3,087.87	1	2,723.94
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,823.07	1/4	4,498.01	1/4	4,164.50	1/4	3,808.15	1/4	3,444.22	1/4	3,080.29	1/4	2,716.35
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,816.28	1/2	4,491.33	1/2	4,157.29	1/2	3,800.57	1/2	3,436.63	1/2	3,072.70	1/2	2,708.77
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,808.86	3/4	4,484.62	3/4	4,150.05	3/4	3,792.98	3/4	3,429.05	3/4	3,065.12	3/4	2,701.19
2	2	2	2	2	2	2	2	4,801.45	2	4,477.91	2	4,142.81	2	3,785.40	2	3,421.47	2	3,057.54	2	2,693.61
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,794.03	1/4	4,471.19	1/4	4,135.57	1/4	3,777.82	1/4	3,413.89	1/4	3,049.96	1/4	2,686.03
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,786.61	1/2	4,464.48	1/2	4,128.32	1/2	3,770.24	1/2	3,406.31	1/2	3,042.38	1/2	2,678.44
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,779.11	3/4	4,457.73	3/4	4,121.05	3/4	3,762.66	3/4	3,398.72	3/4	3,034.79	3/4	2,670.86
3	3	3	3	3	3	3	3	4,771.61	3	4,450.98	3	4,113.77	3	3,755.07	3	3,391.14	3	3,027.21	3	2,663.28
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,764.12	1/4	4,444.23	1/4	4,106.49	1/4	3,747.49	1/4	3,383.56	1/4	3,019.63	1/4	2,655.70
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,756.62	1/2	4,437.48	1/2	4,099.21	1/2	3,739.91	1/2	3,375.98	1/2	3,012.05	1/2	2,648.12
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,749.40	3/4	4,430.70	3/4	4,091.90	3/4	3,732.33	3/4	3,368.40	3/4	3,004.47	3/4	2,640.53
4	4	4	4	4	4	4	4	4,742.18	4	4,423.91	4	4,084.59	4	3,724.75	4	3,360.82	4	2,996.88	4	2,632.95
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,734.96	1/4	4,417.12	1/4	4,077.28	1/4	3,717.16	1/4	3,353.23	1/4	2,989.30	1/4	2,625.37
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,727.74	1/2	4,410.34	1/2	4,069.97	1/2	3,709.58	1/2	3,345.65	1/2	2,981.72	1/2	2,617.79
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,721.07	3/4	4,403.51	3/4	4,062.63	3/4	3,702.00	3/4	3,338.07	3/4	2,974.14	3/4	2,610.21
5	5	5	5	5	5	5	5	4,714.39	5	4,396.69	5	4,055.28	5	3,694.42	5	3,330.49	5	2,966.56	5	2,602.63
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,707.72	1/4	4,389.86	1/4	4,047.94	1/4	3,686.84	1/4	3,322.91	1/4	2,958.97	1/4	2,595.04
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,701.04	1/2	4,383.04	1/2	4,040.59	1/2	3,679.26	1/2	3,315.32	1/2	2,951.39	1/2	2,587.46
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,694.62	3/4	4,376.18	3/4	4,033.21	3/4	3,671.67	3/4	3,307.74	3/4	2,943.81	3/4	2,579.88
6	6	6	6	6	6	6	6	4,688.19	6	4,369.32	6	4,025.83	6	3,664.09	6	3,300.16	6	2,936.23	6	2,572.30
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,681.77	1/4	4,362.46	1/4	4,018.44	1/4	3,656.51	1/4	3,292.58	1/4	2,928.65	1/4	2,564.72
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,675.35	1/2	4,355.60	1/2	4,011.06	1/2	3,648.93	1/2	3,285.00	1/2	2,921.07	1/2	2,557.13
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,668.88	3/4	4,348.68	3/4	4,003.64	3/4	3,641.35	3/4	3,277.41	3/4	2,913.48	3/4	2,549.55
7	7	7	7	7	7	7	7	4,662.42	7	4,341.76	7	3,996.22	7	3,633.76	7	3,269.83	7	2,905.90	7	2,541.97
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,655.96	1/4	4,334.84	1/4	3,988.80	1/4	3,626.18	1/4	3,262.25	1/4	2,898.32	1/4	2,534.39
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,649.50	1/2	4,327.92	1/2	3,981.38	1/2	3,618.60	1/2	3,254.67	1/2	2,890.74	1/2	2,526.81
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,643.00	3/4	4,320.92	3/4	3,973.93	3/4	3,611.02	3/4	3,247.09	3/4	2,883.16	3/4	2,519.22
8	8	8	8	8	8	8	8	4,636.50	8	4,313.92	8	3,966.47	8	3,603.44	8	3,239.51	8	2,875.57	8	2,511.64
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,630.00	1/4	4,306.92	1/4	3,959.02	1/4	3,595.85	1/4	3,231.92	1/4	2,867.99	1/4	2,504.06
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,623.50	1/2	4,299.92	1/2	3,951.56	1/2	3,588.27	1/2	3,224.34	1/2	2,860.41	1/2	2,496.48
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,616.97	3/4	4,292.87	3/4	3,944.07	3/4	3,580.69	3/4	3,216.76	3/4	2,852.83	3/4	2,488.90
9	9	9	9	9	9	9	9	4,610.43	9	4,285.81	9	3,936.57	9	3,573.11	9	3,209.18	9	2,845.25	9	2,481.32
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,603.89	1/4	4,278.75	1/4	3,929.08	1/4	3,565.53	1/4	3,201.60	1/4	2,837.66	1/4	2,473.73
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,597.36	1/2	4,271.69	1/2	3,921.58	1/2	3,557.94	1/2	3,194.01	1/2	2,830.08	1/2	2,466.15
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,590.79	3/4	4,264.60	3/4	3,914.05	3/4	3,550.36	3/4	3,186.43	3/4	2,822.50	3/4	2,458.57
10	10	10	10	10	10	10	10	4,584.21	10	4,257.51	10	3,906.52	10	3,542.78	10	3,178.85	10	2,814.92	10	2,450.99
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,577.64	1/4	4,250.41	1/4	3,898.99	1/4	3,535.20	1/4	3,171.27	1/4	2,807.34	1/4	2,443.41
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,571.07	1/2	4,243.32	1/2	3,891.46	1/2	3,527.62	1/2	3,163.69	1/2	2,799.75	1/2	2,435.82
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,564.46	3/4	4,236.19	3/4	3,883.90	3/4	3,520.04	3/4	3,156.10	3/4	2,792.17	3/4	2,428.24
11	11	11	11	11	11	11	11	4,557.85	11	4,229.05	11	3,876.34	11	3,512.45	11	3,148.52	11	2,784.59	11	2,420.66
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,551.24	1/4	4,221.92	1/4	3,868.77	1/4	3,504.87	1/4	3,140.94	1/4	2,777.01	1/4	2,413.08
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,544.62	1/2	4,214.79	1/2	3,861.21	1/2	3,497.29	1/2	3,133.36	1/2	2,769.43	1/2	2,405.50
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,537.98	3/4	4,207.62	3/4	3,853.63	3/4	3,489.71	3/4	3,125.78	3/4	2,761.85	3/4	2,397.91

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'-10" OFF CENTERLINE AND 53'-00" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT  
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmacorp.net>



# BARGE "KIRBY 28080"

## 2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-07 1/2"

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	2,390.33	0	2,026.40	0	1,662.46	0	1,302.40	0	951.52	0	591.28	0	227.30	0		0		0	
1/4	2,382.75	1/4	2,018.82	1/4	1,654.87	1/4	1,294.81	1/4	944.27	1/4	583.70	1/4	219.72	1/4	1/4	1/4		1/4	
1/2	2,375.17	1/2	2,011.23	1/2	1,647.29	1/2	1,287.23	1/2	937.01	1/2	576.11	1/2	212.13	1/2	1/2	1/2		1/2	
3/4	2,367.59	3/4	2,003.65	3/4	1,639.71	3/4	1,279.65	3/4	929.74	3/4	568.53	3/4	204.55	3/4	3/4	3/4		3/4	
1	2,360.00	1	1,996.07	1	1,632.13	1	1,272.07	1	922.48	1	560.95	1	196.97	1		1		1	
1/4	2,352.42	1/4	1,988.49	1/4	1,624.55	1/4	1,264.48	1/4	915.21	1/4	553.36	1/4	189.39	1/4	1/4	1/4		1/4	
1/2	2,344.84	1/2	1,980.91	1/2	1,616.96	1/2	1,256.90	1/2	907.94	1/2	545.78	1/2	181.81	1/2	1/2	1/2		1/2	
3/4	2,337.26	3/4	1,973.32	3/4	1,609.38	3/4	1,249.47	3/4	900.66	3/4	538.20	3/4	174.24	3/4	3/4	3/4		3/4	
2	2,329.68	2	1,965.74	2	1,601.80	2	1,242.04	2	893.38	2	530.62	2	166.67	2		2		2	
1/4	2,322.10	1/4	1,958.16	1/4	1,594.22	1/4	1,234.60	1/4	886.10	1/4	523.03	1/4	159.09	1/4	1/4	1/4		1/4	
1/2	2,314.51	1/2	1,950.58	1/2	1,586.64	1/2	1,227.17	1/2	878.82	1/2	515.45	1/2	151.52	1/2	1/2	1/2		1/2	
3/4	2,306.93	3/4	1,942.99	3/4	1,579.05	3/4	1,219.90	3/4	871.38	3/4	507.87	3/4	143.96	3/4	3/4	3/4		3/4	
3	2,299.35	3	1,935.41	3	1,571.47	3	1,212.64	3	863.95	3	500.28	3	136.40	3		3		3	
1/4	2,291.77	1/4	1,927.83	1/4	1,563.89	1/4	1,205.37	1/4	856.52	1/4	492.70	1/4	128.84	1/4	1/4	1/4		1/4	
1/2	2,284.19	1/2	1,920.25	1/2	1,556.31	1/2	1,198.10	1/2	849.09	1/2	485.12	1/2	121.28	1/2	1/2	1/2		1/2	
3/4	2,276.60	3/4	1,912.67	3/4	1,548.81	3/4	1,190.84	3/4	841.51	3/4	477.53	3/4	113.73	3/4	3/4	3/4		3/4	
4	2,269.02	4	1,905.08	4	1,541.31	4	1,183.59	4	833.92	4	469.95	4	106.19	4		4		4	
1/4	2,261.44	1/4	1,897.50	1/4	1,533.80	1/4	1,176.34	1/4	826.34	1/4	462.37	1/4	98.65	1/4	1/4	1/4		1/4	
1/2	2,253.86	1/2	1,889.92	1/2	1,526.30	1/2	1,169.08	1/2	818.76	1/2	454.79	1/2	91.11	1/2	1/2	1/2		1/2	
3/4	2,246.28	3/4	1,882.34	3/4	1,518.88	3/4	1,161.83	3/4	811.18	3/4	447.20	3/4	83.60	3/4	3/4	3/4		3/4	
5	2,238.69	5	1,874.76	5	1,511.46	5	1,154.58	5	803.59	5	439.62	5	76.09	5		5		5	
1/4	2,231.11	1/4	1,867.17	1/4	1,504.04	1/4	1,147.33	1/4	796.01	1/4	432.04	1/4	68.59	1/4	1/4	1/4		1/4	
1/2	2,223.53	1/2	1,859.59	1/2	1,496.62	1/2	1,140.07	1/2	788.43	1/2	424.45	1/2	61.08	1/2	1/2	1/2		1/2	
3/4	2,215.95	3/4	1,852.01	3/4	1,489.20	3/4	1,132.82	3/4	780.85	3/4	416.87	3/4	54.18	3/4	3/4	3/4		3/4	
6	2,208.37	6	1,844.43	6	1,481.78	6	1,125.57	6	773.26	6	409.29	6	47.28	6		6		6	
1/4	2,200.78	1/4	1,836.85	1/4	1,474.36	1/4	1,118.32	1/4	765.68	1/4	401.71	1/4	40.38	1/4	1/4	1/4		1/4	
1/2	2,193.20	1/2	1,829.26	1/2	1,466.94	1/2	1,111.07	1/2	758.10	1/2	394.12	1/2	33.47	1/2	1/2	1/2		1/2	
3/4	2,185.62	3/4	1,821.68	3/4	1,459.52	3/4	1,103.81	3/4	750.52	3/4	386.54	3/4	28.42	3/4	3/4	3/4		3/4	
7	2,178.04	7	1,814.10	7	1,452.10	7	1,096.56	7	742.93	7	378.96	7	23.37	7		7		7	
1/4	2,170.46	1/4	1,806.52	1/4	1,444.68	1/4	1,089.31	1/4	735.35	1/4	371.37	1/4	18.32	1/4	1/4	1/4		1/4	
1/2	2,162.88	1/2	1,798.93	1/2	1,437.26	1/2	1,082.06	1/2	727.77	1/2	363.79	1/2	13.26	1/2	1/2	1/2		1/2	
3/4	2,155.29	3/4	1,791.35	3/4	1,429.84	3/4	1,074.81	3/4	720.19	3/4	356.21	3/4		3/4	3/4	3/4		3/4	
8	2,147.71	8	1,783.77	8	1,422.42	8	1,067.55	8	712.60	8	348.63	8		8		8		8	
1/4	2,140.13	1/4	1,776.19	1/4	1,415.00	1/4	1,060.30	1/4	705.02	1/4	341.04	1/4		1/4	1/4	1/4		1/4	
1/2	2,132.55	1/2	1,768.61	1/2	1,407.58	1/2	1,053.05	1/2	697.44	1/2	333.46	1/2		1/2	1/2	1/2		1/2	
3/4	2,124.97	3/4	1,761.02	3/4	1,400.16	3/4	1,045.80	3/4	689.86	3/4	325.88	3/4		3/4	3/4	3/4		3/4	
9	2,117.38	9	1,753.44	9	1,392.74	9	1,038.55	9	682.27	9	318.29	9		9		9		9	
1/4	2,109.80	1/4	1,745.86	1/4	1,385.32	1/4	1,031.30	1/4	674.69	1/4	310.71	1/4		1/4	1/4	1/4		1/4	
1/2	2,102.22	1/2	1,738.28	1/2	1,377.90	1/2	1,024.04	1/2	667.11	1/2	303.13	1/2		1/2	1/2	1/2		1/2	
3/4	2,094.64	3/4	1,730.70	3/4	1,370.40	3/4	1,016.79	3/4	659.52	3/4	295.55	3/4		3/4	3/4	3/4		3/4	
10	2,087.06	10	1,723.11	10	1,362.90	10	1,009.54	10	651.94	10	287.96	10		10		10		10	
1/4	2,079.47	1/4	1,715.53	1/4	1,355.39	1/4	1,002.29	1/4	644.36	1/4	280.38	1/4		1/4	1/4	1/4		1/4	
1/2	2,071.89	1/2	1,707.95	1/2	1,347.89	1/2	995.04	1/2	636.78	1/2	272.80	1/2		1/2	1/2	1/2		1/2	
3/4	2,064.31	3/4	1,700.37	3/4	1,340.31	3/4	987.78	3/4	629.19	3/4	265.21	3/4		3/4	3/4	3/4		3/4	
11	2,056.73	11	1,692.79	11	1,332.73	11	980.53	11	621.61	11	257.63	11		11		11		11	
1/4	2,049.15	1/4	1,685.20	1/4	1,325.14	1/4	973.28	1/4	614.03	1/4	250.05	1/4		1/4	1/4	1/4		1/4	
1/2	2,041.56	1/2	1,677.62	1/2	1,317.56	1/2	966.03	1/2	606.44	1/2	242.46	1/2		1/2	1/2	1/2		1/2	
3/4	2,033.98	3/4	1,670.04	3/4	1,309.98	3/4	958.77	3/4	598.86	3/4	234.88	3/4		3/4	3/4	3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 08/02/2006 CL - SW  
CALCULATED: 08/03/2006 CL  
PRINTED: 08/03/2006 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 08/2006

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





# BARGE "KIRBY 28080"

## 2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-07"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT
0		0		0		0	4,863.20	0	4,537.53	0	4,205.32	0	3,849.81	0	3,485.57	0	3,121.33	0	2,757.09
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,856.40	1/4	4,530.85	1/4	4,198.11	1/4	3,842.22	1/4	3,477.98	1/4	3,113.74	1/4	2,749.51
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,849.61	1/2	4,524.16	1/2	4,190.90	1/2	3,834.63	1/2	3,470.39	1/2	3,106.16	1/2	2,741.92
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,842.82	3/4	4,517.48	3/4	4,183.69	3/4	3,827.05	3/4	3,462.81	3/4	3,098.57	3/4	2,734.33
1		1		1		1	4,836.02	1	4,510.80	1	4,176.47	1	3,819.46	1	3,455.22	1	3,090.98	1	2,726.74
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,828.60	1/4	4,504.08	1/4	4,169.22	1/4	3,811.87	1/4	3,447.63	1/4	3,083.39	1/4	2,719.15
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,821.17	1/2	4,497.36	1/2	4,161.98	1/2	3,804.28	1/2	3,440.04	1/2	3,075.80	1/2	2,711.56
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,813.75	3/4	4,490.64	3/4	4,154.73	3/4	3,796.69	3/4	3,432.45	3/4	3,068.22	3/4	2,703.98
2		2		2		2	4,806.32	2	4,483.92	2	4,147.48	2	3,789.10	2	3,424.87	2	3,060.63	2	2,696.39
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,798.82	1/4	4,477.17	1/4	4,140.19	1/4	3,781.52	1/4	3,417.28	1/4	3,053.04	1/4	2,688.80
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,791.32	1/2	4,470.41	1/2	4,132.91	1/2	3,773.93	1/2	3,409.69	1/2	3,045.45	1/2	2,681.21
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,783.81	3/4	4,463.66	3/4	4,125.63	3/4	3,766.34	3/4	3,402.10	3/4	3,037.86	3/4	2,673.62
3		3		3		3	4,776.31	3	4,456.90	3	4,118.34	3	3,758.75	3	3,394.51	3	3,030.27	3	2,666.04
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,769.08	1/4	4,450.11	1/4	4,111.03	1/4	3,751.16	1/4	3,386.92	1/4	3,022.69	1/4	2,658.45
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,761.86	1/2	4,443.31	1/2	4,103.71	1/2	3,743.57	1/2	3,379.34	1/2	3,015.10	1/2	2,650.86
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,754.63	3/4	4,436.52	3/4	4,096.39	3/4	3,735.99	3/4	3,371.75	3/4	3,007.51	3/4	2,643.27
4		4		4		4	4,747.41	4	4,429.73	4	4,089.08	4	3,728.40	4	3,364.16	4	2,999.92	4	2,635.68
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,740.73	1/4	4,422.90	1/4	4,081.73	1/4	3,720.81	1/4	3,356.57	1/4	2,992.33	1/4	2,628.09
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,734.05	1/2	4,416.07	1/2	4,074.37	1/2	3,713.22	1/2	3,348.98	1/2	2,984.74	1/2	2,620.51
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,727.37	3/4	4,409.24	3/4	4,067.02	3/4	3,705.63	3/4	3,341.39	3/4	2,977.16	3/4	2,612.92
5		5		5		5	4,720.69	5	4,402.41	5	4,059.67	5	3,698.04	5	3,333.81	5	2,969.57	5	2,605.33
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,714.26	1/4	4,395.54	1/4	4,052.28	1/4	3,690.46	1/4	3,326.22	1/4	2,961.98	1/4	2,597.74
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,707.83	1/2	4,388.68	1/2	4,044.90	1/2	3,682.87	1/2	3,318.63	1/2	2,954.39	1/2	2,590.15
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,701.40	3/4	4,381.81	3/4	4,037.51	3/4	3,675.28	3/4	3,311.04	3/4	2,946.80	3/4	2,582.56
6		6		6		6	4,694.97	6	4,374.94	6	4,030.12	6	3,667.69	6	3,303.45	6	2,939.21	6	2,574.98
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,688.50	1/4	4,368.02	1/4	4,022.69	1/4	3,660.10	1/4	3,295.86	1/4	2,931.63	1/4	2,567.39
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,682.03	1/2	4,361.09	1/2	4,015.27	1/2	3,652.51	1/2	3,288.28	1/2	2,924.04	1/2	2,559.80
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,675.56	3/4	4,354.17	3/4	4,007.84	3/4	3,644.93	3/4	3,280.69	3/4	2,916.45	3/4	2,552.21
7		7		7		7	4,669.10	7	4,347.24	7	4,000.42	7	3,637.34	7	3,273.10	7	2,908.86	7	2,544.62
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,662.59	1/4	4,340.24	1/4	3,992.95	1/4	3,629.75	1/4	3,265.51	1/4	2,901.27	1/4	2,537.03
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,656.09	1/2	4,333.23	1/2	3,985.49	1/2	3,622.16	1/2	3,257.92	1/2	2,893.68	1/2	2,529.45
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,649.58	3/4	4,326.23	3/4	3,978.03	3/4	3,614.57	3/4	3,250.33	3/4	2,886.10	3/4	2,521.86
8		8		8		8	4,643.08	8	4,319.22	8	3,970.56	8	3,606.98	8	3,242.75	8	2,878.51	8	2,514.27
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,636.54	1/4	4,312.16	1/4	3,963.06	1/4	3,599.40	1/4	3,235.16	1/4	2,870.92	1/4	2,506.68
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,629.99	1/2	4,305.10	1/2	3,955.56	1/2	3,591.81	1/2	3,227.57	1/2	2,863.33	1/2	2,499.09
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,623.45	3/4	4,298.03	3/4	3,948.07	3/4	3,584.22	3/4	3,219.98	3/4	2,855.74	3/4	2,491.50
9		9		9		9	4,616.91	9	4,290.97	9	3,940.57	9	3,576.63	9	3,212.39	9	2,848.15	9	2,483.92
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,610.33	1/4	4,283.87	1/4	3,933.03	1/4	3,569.04	1/4	3,204.80	1/4	2,840.57	1/4	2,476.33
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,603.75	1/2	4,276.77	1/2	3,925.49	1/2	3,561.45	1/2	3,197.22	1/2	2,832.98	1/2	2,468.74
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,597.18	3/4	4,269.67	3/4	3,917.95	3/4	3,553.87	3/4	3,189.63	3/4	2,825.39	3/4	2,461.15
10		10		10		10	4,590.60	10	4,262.57	10	3,910.42	10	3,546.28	10	3,182.04	10	2,817.80	10	2,453.56
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,583.98	1/4	4,255.43	1/4	3,902.85	1/4	3,538.69	1/4	3,174.45	1/4	2,810.21	1/4	2,445.97
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,577.36	1/2	4,248.29	1/2	3,895.28	1/2	3,531.10	1/2	3,166.86	1/2	2,802.62	1/2	2,438.39
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,570.75	3/4	4,241.16	3/4	3,887.71	3/4	3,523.51	3/4	3,159.27	3/4	2,795.04	3/4	2,430.80
11		11		11		11	4,564.13	11	4,234.02	11	3,880.14	11	3,515.92	11	3,151.69	11	2,787.45	11	2,423.21
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,557.48	1/4	4,226.84	1/4	3,872.56	1/4	3,508.34	1/4	3,144.10	1/4	2,779.86	1/4	2,415.62
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,550.83	1/2	4,219.67	1/2	3,864.98	1/2	3,500.75	1/2	3,136.51	1/2	2,772.27	1/2	2,408.03
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,544.18	3/4	4,212.50	3/4	3,857.39	3/4	3,493.16	3/4	3,128.92	3/4	2,764.68	3/4	2,400.44

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'-10" OFF CENTERLINE AND 53'-00" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT  
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmacorp.net>





# BARGE "KIRBY 28080"

## 2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-07"

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	2,392.86	0	2,028.62	0	1,664.37	0	1,304.01	0	940.82	0	576.60	0	212.31	0		0		0	
1/4	2,385.27	1/4	2,021.03	1/4	1,656.78	1/4	1,296.42	1/4	933.24	1/4	569.01	1/4	204.73	1/4		1/4		1/4	
1/2	2,377.68	1/2	2,013.44	1/2	1,649.19	1/2	1,288.83	1/2	925.66	1/2	561.42	1/2	197.14	1/2		1/2		1/2	
3/4	2,370.09	3/4	2,005.85	3/4	1,641.60	3/4	1,281.24	3/4	918.09	3/4	553.83	3/4	189.55	3/4		3/4		3/4	
1	2,362.50	1	1,998.26	1	1,634.02	1	1,273.65	1	910.51	1	546.24	1	181.97	1		1		1	
1/4	2,354.91	1/4	1,990.68	1/4	1,626.43	1/4	1,266.06	1/4	902.92	1/4	538.65	1/4	174.39	1/4		1/4		1/4	
1/2	2,347.33	1/2	1,983.09	1/2	1,618.84	1/2	1,258.47	1/2	895.33	1/2	531.06	1/2	166.81	1/2		1/2		1/2	
3/4	2,339.74	3/4	1,975.50	3/4	1,611.25	3/4	1,250.88	3/4	887.74	3/4	523.47	3/4	159.23	3/4		3/4		3/4	
2	2,332.15	2	1,967.91	2	1,603.66	2	1,243.29	2	880.15	2	515.88	2	151.65	2		2		2	
1/4	2,324.56	1/4	1,960.32	1/4	1,596.07	1/4	1,235.72	1/4	872.57	1/4	508.29	1/4	144.08	1/4		1/4		1/4	
1/2	2,316.97	1/2	1,952.73	1/2	1,588.49	1/2	1,228.14	1/2	864.98	1/2	500.70	1/2	136.51	1/2		1/2		1/2	
3/4	2,309.39	3/4	1,945.14	3/4	1,580.90	3/4	1,220.56	3/4	857.39	3/4	493.11	3/4	128.94	3/4		3/4		3/4	
3	2,301.80	3	1,937.56	3	1,573.31	3	1,212.99	3	849.80	3	485.53	3	121.38	3		3		3	
1/4	2,294.21	1/4	1,929.97	1/4	1,565.80	1/4	1,205.43	1/4	842.21	1/4	477.94	1/4	113.83	1/4		1/4		1/4	
1/2	2,286.62	1/2	1,922.38	1/2	1,558.29	1/2	1,197.86	1/2	834.62	1/2	470.35	1/2	106.28	1/2		1/2		1/2	
3/4	2,279.03	3/4	1,914.79	3/4	1,550.79	3/4	1,190.30	3/4	827.03	3/4	462.76	3/4	98.73	3/4		3/4		3/4	
4	2,271.44	4	1,907.20	4	1,543.28	4	1,182.74	4	819.44	4	455.17	4	91.19	4		4		4	
1/4	2,263.86	1/4	1,899.61	1/4	1,535.85	1/4	1,175.18	1/4	811.86	1/4	447.58	1/4	83.67	1/4		1/4		1/4	
1/2	2,256.27	1/2	1,892.03	1/2	1,528.43	1/2	1,167.62	1/2	804.27	1/2	439.99	1/2	76.16	1/2		1/2		1/2	
3/4	2,248.68	3/4	1,884.44	3/4	1,521.00	3/4	1,160.06	3/4	796.68	3/4	432.40	3/4	68.64	3/4		3/4		3/4	
5	2,241.09	5	1,876.85	5	1,513.57	5	1,152.50	5	789.09	5	424.81	5	61.13	5		5		5	
1/4	2,233.50	1/4	1,869.26	1/4	1,506.15	1/4	1,144.94	1/4	781.50	1/4	417.22	1/4	54.22	1/4		1/4		1/4	
1/2	2,225.91	1/2	1,861.67	1/2	1,498.72	1/2	1,137.38	1/2	773.91	1/2	409.63	1/2	47.32	1/2		1/2		1/2	
3/4	2,218.33	3/4	1,854.08	3/4	1,491.30	3/4	1,129.82	3/4	766.32	3/4	402.04	3/4	40.41	3/4		3/4		3/4	
6	2,210.74	6	1,846.49	6	1,483.87	6	1,122.26	6	758.73	6	394.45	6	33.50	6		6		6	
1/4	2,203.15	1/4	1,838.91	1/4	1,476.44	1/4	1,114.70	1/4	751.15	1/4	386.86	1/4	28.45	1/4		1/4		1/4	
1/2	2,195.56	1/2	1,831.32	1/2	1,469.02	1/2	1,107.14	1/2	743.56	1/2	379.28	1/2	23.39	1/2		1/2		1/2	
3/4	2,187.97	3/4	1,823.73	3/4	1,461.59	3/4	1,099.58	3/4	735.97	3/4	371.69	3/4	18.33	3/4		3/4		3/4	
7	2,180.38	7	1,816.14	7	1,454.16	7	1,092.02	7	728.38	7	364.10	7	13.27	7		7		7	
1/4	2,172.80	1/4	1,808.55	1/4	1,446.74	1/4	1,084.46	1/4	720.79	1/4	356.51	1/4		1/4		1/4		1/4	
1/2	2,165.21	1/2	1,800.96	1/2	1,439.31	1/2	1,076.90	1/2	713.20	1/2	348.92	1/2		1/2		1/2		1/2	
3/4	2,157.62	3/4	1,793.37	3/4	1,431.89	3/4	1,069.34	3/4	705.61	3/4	341.33	3/4		3/4		3/4		3/4	
8	2,150.03	8	1,785.79	8	1,424.46	8	1,061.78	8	698.02	8	333.74	8		8		8		8	
1/4	2,142.44	1/4	1,778.20	1/4	1,417.03	1/4	1,054.22	1/4	690.43	1/4	326.15	1/4		1/4		1/4		1/4	
1/2	2,134.85	1/2	1,770.61	1/2	1,409.60	1/2	1,046.66	1/2	682.85	1/2	318.56	1/2		1/2		1/2		1/2	
3/4	2,127.27	3/4	1,763.02	3/4	1,402.18	3/4	1,039.10	3/4	675.26	3/4	310.97	3/4		3/4		3/4		3/4	
9	2,119.68	9	1,755.43	9	1,394.75	9	1,031.54	9	667.67	9	303.38	9		9		9		9	
1/4	2,112.09	1/4	1,747.84	1/4	1,387.24	1/4	1,023.98	1/4	660.08	1/4	295.79	1/4		1/4		1/4		1/4	
1/2	2,104.50	1/2	1,740.26	1/2	1,379.74	1/2	1,016.42	1/2	652.49	1/2	288.20	1/2		1/2		1/2		1/2	
3/4	2,096.91	3/4	1,732.67	3/4	1,372.23	3/4	1,008.86	3/4	644.90	3/4	280.61	3/4		3/4		3/4		3/4	
10	2,089.32	10	1,725.08	10	1,364.72	10	1,001.30	10	637.31	10	273.03	10		10		10		10	
1/4	2,081.74	1/4	1,717.49	1/4	1,357.13	1/4	993.74	1/4	629.72	1/4	265.44	1/4		1/4		1/4		1/4	
1/2	2,074.15	1/2	1,709.90	1/2	1,349.54	1/2	986.18	1/2	622.13	1/2	257.85	1/2		1/2		1/2		1/2	
3/4	2,066.56	3/4	1,702.31	3/4	1,341.95	3/4	978.62	3/4	614.54	3/4	250.26	3/4		3/4		3/4		3/4	
11	2,058.97	11	1,694.72	11	1,334.36	11	971.06	11	606.95	11	242.67	11		11		11		11	
1/4	2,051.38	1/4	1,687.14	1/4	1,326.77	1/4	963.50	1/4	599.37	1/4	235.08	1/4		1/4		1/4		1/4	
1/2	2,043.79	1/2	1,679.55	1/2	1,319.19	1/2	955.94	1/2	591.78	1/2	227.49	1/2		1/2		1/2		1/2	
3/4	2,036.21	3/4	1,671.96	3/4	1,311.60	3/4	948.38	3/4	584.19	3/4	219.90	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 08/02/2006 CL - SW  
CALCULATED: 08/03/2006 CL  
PRINTED: 08/03/2006 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 08/2006

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



# BARGE "KIRBY 28080"

## 3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-05 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		0	4,212.63	0	3,951.74	0	3,676.94	0	3,395.92	0	3,034.35	0	2,670.64
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,462.31	1/4	4,207.34	1/4	3,946.12	1/4	3,671.11	1/4	3,389.21	1/4	3,026.78
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,457.58	1/2	4,202.04	1/2	3,940.51	1/2	3,665.27	1/2	3,382.49	1/2	3,019.20
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,452.85	3/4	4,196.75	3/4	3,934.90	3/4	3,659.44	3/4	3,375.77	3/4	3,011.62
1		1		1		1		1	4,447.81	1	4,191.44	1	3,929.26	1	3,653.60	1	3,368.18	1	3,004.04
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,442.77	1/4	4,186.13	1/4	3,923.63	1/4	3,647.76	1/4	3,360.58	1/4	2,996.47
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,437.73	1/2	4,180.82	1/2	3,917.99	1/2	3,641.93	1/2	3,352.98	1/2	2,988.89
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,432.69	3/4	4,175.50	3/4	3,912.36	3/4	3,636.09	3/4	3,345.38	3/4	2,981.31
2		2		2		2		2	4,427.01	2	4,170.17	2	3,906.70	2	3,630.26	2	3,337.79	2	2,973.74
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,421.34	1/4	4,164.84	1/4	3,901.05	1/4	3,624.42	1/4	3,330.19	1/4	2,966.16
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,415.67	1/2	4,159.51	1/2	3,895.40	1/2	3,618.58	1/2	3,322.59	1/2	2,958.58
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,409.99	3/4	4,154.18	3/4	3,889.74	3/4	3,612.75	3/4	3,314.99	3/4	2,951.00
3		3		3		3		3	4,404.24	3	4,148.83	3	3,884.07	3	3,606.91	3	3,307.40	3	2,943.43
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,398.49	1/4	4,143.48	1/4	3,878.40	1/4	3,601.07	1/4	3,299.80	1/4	2,935.85
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,392.74	1/2	4,138.13	1/2	3,872.72	1/2	3,595.24	1/2	3,292.20	1/2	2,928.27
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,386.99	3/4	4,132.78	3/4	3,867.05	3/4	3,589.40	3/4	3,284.60	3/4	2,920.69
4		4		4		4		4	4,381.38	4	4,127.41	4	3,861.36	4	3,583.57	4	3,277.01	4	2,913.12
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,375.78	1/4	4,122.04	1/4	3,855.67	1/4	3,577.73	1/4	3,269.41	1/4	2,905.54
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,370.18	1/2	4,116.67	1/2	3,849.98	1/2	3,571.89	1/2	3,261.81	1/2	2,897.96
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,364.58	3/4	4,111.30	3/4	3,844.29	3/4	3,566.06	3/4	3,254.22	3/4	2,890.39
5		5		5		5		5	4,359.27	5	4,105.91	5	3,838.58	5	3,560.22	5	3,246.62	5	2,882.81
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,353.96	1/4	4,100.52	1/4	3,832.87	1/4	3,554.38	1/4	3,239.02	1/4	2,875.23
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,348.65	1/2	4,095.13	1/2	3,827.16	1/2	3,548.55	1/2	3,231.42	1/2	2,867.65
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,343.34	3/4	4,089.74	3/4	3,821.45	3/4	3,542.71	3/4	3,223.83	3/4	2,860.08
6		6		6		6		6	4,338.16	6	4,084.33	6	3,815.72	6	3,536.87	6	3,216.24	6	2,852.50
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,332.99	1/4	4,078.92	1/4	3,810.00	1/4	3,531.04	1/4	3,208.65	1/4	2,844.92
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,327.81	1/2	4,073.51	1/2	3,804.27	1/2	3,525.20	1/2	3,201.06	1/2	2,837.34
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,322.63	3/4	4,068.10	3/4	3,798.54	3/4	3,519.37	3/4	3,193.48	3/4	2,829.77
7		7		7		7		7	4,317.44	7	4,062.65	7	3,792.79	7	3,513.53	7	3,185.90	7	2,822.19
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,312.24	1/4	4,057.20	1/4	3,787.04	1/4	3,507.69	1/4	3,178.32	1/4	2,814.61
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,307.05	1/2	4,051.75	1/2	3,781.29	1/2	3,501.86	1/2	3,170.75	1/2	2,807.03
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,301.85	3/4	4,046.30	3/4	3,775.54	3/4	3,496.02	3/4	3,163.17	3/4	2,799.46
8		8		8		8		8	4,296.64	8	4,040.78	8	3,769.77	8	3,490.18	8	3,155.59	8	2,791.88
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,291.42	1/4	4,035.27	1/4	3,764.00	1/4	3,484.35	1/4	3,148.01	1/4	2,784.30
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,286.21	1/2	4,029.76	1/2	3,758.23	1/2	3,478.51	1/2	3,140.44	1/2	2,776.73
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,280.99	3/4	4,024.24	3/4	3,752.47	3/4	3,472.68	3/4	3,132.86	3/4	2,769.15
9		9		9		9		9	4,275.76	9	4,018.69	9	3,746.68	9	3,466.84	9	3,125.28	9	2,761.57
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,270.52	1/4	4,013.14	1/4	3,740.89	1/4	3,461.00	1/4	3,117.70	1/4	2,753.99
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,265.29	1/2	4,007.58	1/2	3,735.10	1/2	3,455.17	1/2	3,110.13	1/2	2,746.42
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,260.05	3/4	4,002.03	3/4	3,729.31	3/4	3,449.33	3/4	3,102.55	3/4	2,738.84
10		10		10		10		10	4,254.79	10	3,996.45	10	3,723.50	10	3,443.49	10	3,094.97	10	2,731.26
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,249.54	1/4	3,990.88	1/4	3,717.69	1/4	3,437.66	1/4	3,087.40	1/4	2,723.68
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,244.28	1/2	3,985.30	1/2	3,711.88	1/2	3,431.82	1/2	3,079.82	1/2	2,716.11
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,239.03	3/4	3,979.73	3/4	3,706.08	3/4	3,425.99	3/4	3,072.24	3/4	2,708.53
11		11		11		11		11	4,233.75	11	3,974.13	11	3,700.25	11	3,420.15	11	3,064.66	11	2,700.95
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,228.48	1/4	3,968.54	1/4	3,694.42	1/4	3,414.31	1/4	3,057.09	1/4	2,693.38
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,223.20	1/2	3,962.95	1/2	3,688.60	1/2	3,408.48	1/2	3,049.51	1/2	2,685.80
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,217.93	3/4	3,957.35	3/4	3,682.77	3/4	3,402.64	3/4	3,041.93	3/4	2,678.22

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'-10" OFF CENTERLINE AND 53'-00" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT  
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmacorp.net>



# BARGE "KIRBY 28080"

## 3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-05 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	2,306.93	0	1,943.22	0	1,579.57	0	1,220.39	0	865.79	0	509.00	0	144.60	0		0		0	
1/4	2,299.36	1/4	1,935.64	1/4	1,572.02	1/4	1,212.83	1/4	858.43	1/4	501.40	1/4	137.32	1/4	1/4	1/4		1/4	
1/2	2,291.78	1/2	1,928.07	1/2	1,564.46	1/2	1,205.26	1/2	851.07	1/2	493.80	1/2	130.03	1/2	1/2	1/2		1/2	
3/4	2,284.20	3/4	1,920.49	3/4	1,556.91	3/4	1,197.70	3/4	843.71	3/4	486.20	3/4	122.75	3/4	3/4	3/4		3/4	
1	2,276.62	1	1,912.91	1	1,549.36	1	1,190.14	1	836.33	1	478.61	1	116.42	1		1		1	
1/4	2,269.05	1/4	1,905.33	1/4	1,541.80	1/4	1,182.58	1/4	828.96	1/4	471.01	1/4	110.09	1/4	1/4	1/4		1/4	
1/2	2,261.47	1/2	1,897.76	1/2	1,534.25	1/2	1,175.01	1/2	821.58	1/2	463.41	1/2	103.76	1/2	1/2	1/2		1/2	
3/4	2,253.89	3/4	1,890.18	3/4	1,526.69	3/4	1,167.45	3/4	814.21	3/4	455.81	3/4	97.43	3/4	3/4	3/4		3/4	
2	2,246.31	2	1,882.60	2	1,519.14	2	1,160.00	2	806.82	2	448.21	2	92.37	2		2		2	
1/4	2,238.74	1/4	1,875.02	1/4	1,511.59	1/4	1,152.54	1/4	799.43	1/4	440.62	1/4	87.31	1/4	1/4	1/4		1/4	
1/2	2,231.16	1/2	1,867.45	1/2	1,504.03	1/2	1,145.08	1/2	792.05	1/2	433.02	1/2	82.25	1/2	1/2	1/2		1/2	
3/4	2,223.58	3/4	1,859.87	3/4	1,496.48	3/4	1,137.62	3/4	784.66	3/4	425.42	3/4	77.19	3/4	3/4	3/4		3/4	
3	2,216.01	3	1,852.29	3	1,488.92	3	1,130.28	3	777.27	3	417.82	3	73.41	3		3		3	
1/4	2,208.43	1/4	1,844.71	1/4	1,481.37	1/4	1,122.93	1/4	769.88	1/4	410.22	1/4	69.63	1/4	1/4	1/4		1/4	
1/2	2,200.85	1/2	1,837.14	1/2	1,473.82	1/2	1,115.58	1/2	762.50	1/2	402.62	1/2	65.85	1/2	1/2	1/2		1/2	
3/4	2,193.27	3/4	1,829.56	3/4	1,466.26	3/4	1,108.23	3/4	755.11	3/4	395.03	3/4	62.07	3/4	3/4	3/4		3/4	
4	2,185.70	4	1,821.98	4	1,458.79	4	1,100.89	4	747.72	4	387.43	4	59.57	4		4		4	
1/4	2,178.12	1/4	1,814.40	1/4	1,451.32	1/4	1,093.55	1/4	740.33	1/4	379.83	1/4	57.07	1/4	1/4	1/4		1/4	
1/2	2,170.54	1/2	1,806.83	1/2	1,443.84	1/2	1,086.21	1/2	732.95	1/2	372.23	1/2	54.58	1/2	1/2	1/2		1/2	
3/4	2,162.96	3/4	1,799.25	3/4	1,436.37	3/4	1,078.86	3/4	725.56	3/4	364.63	3/4	52.08	3/4	3/4	3/4		3/4	
5	2,155.39	5	1,791.67	5	1,428.97	5	1,071.52	5	718.17	5	357.03	5	50.88	5		5		5	
1/4	2,147.81	1/4	1,784.09	1/4	1,421.56	1/4	1,064.18	1/4	710.78	1/4	349.44	1/4	49.68	1/4	1/4	1/4		1/4	
1/2	2,140.23	1/2	1,776.52	1/2	1,414.16	1/2	1,056.84	1/2	703.40	1/2	341.84	1/2	48.48	1/2	1/2	1/2		1/2	
3/4	2,132.66	3/4	1,768.94	3/4	1,406.75	3/4	1,049.50	3/4	696.01	3/4	334.24	3/4	47.29	3/4	3/4	3/4		3/4	
6	2,125.08	6	1,761.36	6	1,399.34	6	1,042.16	6	688.62	6	326.64	6		6		6		6	
1/4	2,117.50	1/4	1,753.78	1/4	1,391.92	1/4	1,034.82	1/4	681.23	1/4	319.04	1/4		1/4	1/4	1/4		1/4	
1/2	2,109.92	1/2	1,746.21	1/2	1,384.51	1/2	1,027.48	1/2	673.85	1/2	311.44	1/2		1/2	1/2	1/2		1/2	
3/4	2,102.35	3/4	1,738.63	3/4	1,377.09	3/4	1,020.14	3/4	666.46	3/4	303.85	3/4		3/4	3/4	3/4		3/4	
7	2,094.77	7	1,731.05	7	1,369.67	7	1,012.80	7	659.07	7	296.25	7		7		7		7	
1/4	2,087.19	1/4	1,723.47	1/4	1,362.26	1/4	1,005.46	1/4	651.68	1/4	288.65	1/4		1/4	1/4	1/4		1/4	
1/2	2,079.61	1/2	1,715.90	1/2	1,354.84	1/2	998.12	1/2	644.30	1/2	281.05	1/2		1/2	1/2	1/2		1/2	
3/4	2,072.04	3/4	1,708.32	3/4	1,347.42	3/4	990.78	3/4	636.91	3/4	273.45	3/4		3/4	3/4	3/4		3/4	
8	2,064.46	8	1,700.74	8	1,340.01	8	983.44	8	629.52	8	265.85	8		8		8		8	
1/4	2,056.88	1/4	1,693.16	1/4	1,332.59	1/4	976.10	1/4	622.13	1/4	258.26	1/4		1/4	1/4	1/4		1/4	
1/2	2,049.30	1/2	1,685.59	1/2	1,325.17	1/2	968.76	1/2	614.75	1/2	250.66	1/2		1/2	1/2	1/2		1/2	
3/4	2,041.73	3/4	1,678.01	3/4	1,317.76	3/4	961.42	3/4	607.36	3/4	243.06	3/4		3/4	3/4	3/4		3/4	
9	2,034.15	9	1,670.43	9	1,310.35	9	954.07	9	599.86	9	235.46	9		9		9		9	
1/4	2,026.57	1/4	1,662.85	1/4	1,302.94	1/4	946.72	1/4	592.37	1/4	227.86	1/4		1/4	1/4	1/4		1/4	
1/2	2,019.00	1/2	1,655.28	1/2	1,295.53	1/2	939.37	1/2	584.88	1/2	220.26	1/2		1/2	1/2	1/2		1/2	
3/4	2,011.42	3/4	1,647.70	3/4	1,288.12	3/4	932.02	3/4	577.38	3/4	212.67	3/4		3/4	3/4	3/4		3/4	
10	2,003.84	10	1,640.12	10	1,280.64	10	924.66	10	569.79	10	205.07	10		10		10		10	
1/4	1,996.26	1/4	1,632.54	1/4	1,273.16	1/4	917.30	1/4	562.19	1/4	197.47	1/4		1/4	1/4	1/4		1/4	
1/2	1,988.69	1/2	1,624.97	1/2	1,265.68	1/2	909.94	1/2	554.59	1/2	189.87	1/2		1/2	1/2	1/2		1/2	
3/4	1,981.11	3/4	1,617.39	3/4	1,258.20	3/4	902.58	3/4	546.99	3/4	182.27	3/4		3/4	3/4	3/4		3/4	
11	1,973.53	11	1,609.82	11	1,250.64	11	895.23	11	539.39	11	174.67	11		11		11		11	
1/4	1,965.95	1/4	1,602.26	1/4	1,243.07	1/4	887.87	1/4	531.79	1/4	167.08	1/4		1/4	1/4	1/4		1/4	
1/2	1,958.38	1/2	1,594.69	1/2	1,235.51	1/2	880.51	1/2	524.20	1/2	159.48	1/2		1/2	1/2	1/2		1/2	
3/4	1,950.80	3/4	1,587.13	3/4	1,227.95	3/4	873.15	3/4	516.60	3/4	151.88	3/4		3/4	3/4	3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 08/02/2006 CL - SW  
CALCULATED: 08/03/2006 CL  
PRINTED: 08/03/2006 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 08/2006

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



# BARGE "KIRBY 28080"

## 3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-05 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		0		0		0		0		0		0	
1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
1		1		1		1		1		1		1		1		1		1	
1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
2		2		2		2		2		2		2		2		2		2	
1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
3		3		3		3		3		3		3		3		3		3	
1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
4		4		4		4		4		4		4		4		4		4	
1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
5		5		5		5		5		5		5		5		5		5	
1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
6		6		6		6		6		6		6		6		6		6	
1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
7		7		7		7		7		7		7		7		7		7	
1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
8		8		8		8		8		8		8		8		8		8	
1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
9		9		9		9		9		9		9		9		9		9	
1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
10		10		10		10		10		10		10		10		10		10	
1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
11		11		11		11		11		11		11		11		11		11	
1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
						4,493.60													
						4,239.81													

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'-10" OFF CENTERLINE AND 53'-00" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT  
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmacorp.net>



# BARGE "KIRBY 28080"

## 3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-05 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	2,326.88	0	1,962.30	0	1,597.70	0	1,236.99	0	873.37	0	508.88	0	144.56	0		0		0	
1/4	2,319.29	1/4	1,954.70	1/4	1,590.11	1/4	1,229.39	1/4	865.80	1/4	501.28	1/4	137.28	1/4		1/4		1/4	
1/2	2,311.69	1/2	1,947.11	1/2	1,582.51	1/2	1,221.80	1/2	858.23	1/2	493.69	1/2	130.00	1/2		1/2		1/2	
3/4	2,304.10	3/4	1,939.51	3/4	1,574.92	3/4	1,214.20	3/4	850.66	3/4	486.09	3/4	122.72	3/4		3/4		3/4	
1	2,296.50	1	1,931.91	1	1,567.32	1	1,206.60	1	843.08	1	478.49	1	116.39	1		1		1	
1/4	2,288.91	1/4	1,924.32	1/4	1,559.73	1/4	1,199.01	1/4	835.49	1/4	470.90	1/4	110.07	1/4		1/4		1/4	
1/2	2,281.31	1/2	1,916.72	1/2	1,552.13	1/2	1,191.41	1/2	827.91	1/2	463.30	1/2	103.74	1/2		1/2		1/2	
3/4	2,273.72	3/4	1,909.13	3/4	1,544.53	3/4	1,183.81	3/4	820.33	3/4	455.70	3/4	97.41	3/4		3/4		3/4	
2	2,266.12	2	1,901.53	2	1,536.94	2	1,176.22	2	812.73	2	448.11	2	92.35	2		2		2	
1/4	2,258.52	1/4	1,893.94	1/4	1,529.34	1/4	1,168.62	1/4	805.13	1/4	440.51	1/4	87.29	1/4		1/4		1/4	
1/2	2,250.93	1/2	1,886.34	1/2	1,521.75	1/2	1,161.02	1/2	797.54	1/2	432.91	1/2	82.23	1/2		1/2		1/2	
3/4	2,243.33	3/4	1,878.74	3/4	1,514.15	3/4	1,153.43	3/4	789.94	3/4	425.32	3/4	77.18	3/4		3/4		3/4	
3	2,235.74	3	1,871.15	3	1,506.56	3	1,145.84	3	782.34	3	417.72	3	73.40	3		3		3	
1/4	2,228.14	1/4	1,863.55	1/4	1,498.96	1/4	1,138.26	1/4	774.75	1/4	410.12	1/4	69.61	1/4		1/4		1/4	
1/2	2,220.55	1/2	1,855.96	1/2	1,491.36	1/2	1,130.68	1/2	767.15	1/2	402.53	1/2	65.83	1/2		1/2		1/2	
3/4	2,212.95	3/4	1,848.36	3/4	1,483.77	3/4	1,123.09	3/4	759.56	3/4	394.93	3/4	62.05	3/4		3/4		3/4	
4	2,205.36	4	1,840.77	4	1,476.25	4	1,115.52	4	751.96	4	387.34	4	59.56	4		4		4	
1/4	2,197.76	1/4	1,833.17	1/4	1,468.74	1/4	1,107.96	1/4	744.36	1/4	379.74	1/4	57.06	1/4		1/4		1/4	
1/2	2,190.17	1/2	1,825.57	1/2	1,461.22	1/2	1,100.39	1/2	736.77	1/2	372.14	1/2	54.56	1/2		1/2		1/2	
3/4	2,182.57	3/4	1,817.98	3/4	1,453.71	3/4	1,092.82	3/4	729.17	3/4	364.55	3/4	52.07	3/4		3/4		3/4	
5	2,174.97	5	1,810.38	5	1,446.28	5	1,085.25	5	721.58	5	356.95	5	50.87	5		5		5	
1/4	2,167.38	1/4	1,802.79	1/4	1,438.84	1/4	1,077.68	1/4	713.98	1/4	349.35	1/4	49.67	1/4		1/4		1/4	
1/2	2,159.78	1/2	1,795.19	1/2	1,431.41	1/2	1,070.12	1/2	706.38	1/2	341.76	1/2	48.47	1/2		1/2		1/2	
3/4	2,152.19	3/4	1,787.60	3/4	1,423.97	3/4	1,062.55	3/4	698.79	3/4	334.16	3/4	47.27	3/4		3/4		3/4	
6	2,144.59	6	1,780.00	6	1,416.54	6	1,054.98	6	691.19	6	326.56	6		6		6		6	
1/4	2,137.00	1/4	1,772.40	1/4	1,409.11	1/4	1,047.41	1/4	683.60	1/4	318.97	1/4		1/4		1/4		1/4	
1/2	2,129.40	1/2	1,764.81	1/2	1,401.67	1/2	1,039.85	1/2	676.00	1/2	311.37	1/2		1/2		1/2		1/2	
3/4	2,121.81	3/4	1,757.21	3/4	1,394.24	3/4	1,032.28	3/4	668.40	3/4	303.77	3/4		3/4		3/4		3/4	
7	2,114.21	7	1,749.62	7	1,386.81	7	1,024.71	7	660.81	7	296.18	7		7		7		7	
1/4	2,106.61	1/4	1,742.02	1/4	1,379.37	1/4	1,017.15	1/4	653.21	1/4	288.58	1/4		1/4		1/4		1/4	
1/2	2,099.02	1/2	1,734.43	1/2	1,371.94	1/2	1,009.58	1/2	645.61	1/2	280.98	1/2		1/2		1/2		1/2	
3/4	2,091.42	3/4	1,726.83	3/4	1,364.50	3/4	1,002.01	3/4	638.02	3/4	273.39	3/4		3/4		3/4		3/4	
8	2,083.83	8	1,719.23	8	1,357.07	8	994.44	8	630.42	8	265.79	8		8		8		8	
1/4	2,076.23	1/4	1,711.64	1/4	1,349.64	1/4	986.88	1/4	622.83	1/4	258.19	1/4		1/4		1/4		1/4	
1/2	2,068.64	1/2	1,704.04	1/2	1,342.20	1/2	979.31	1/2	615.23	1/2	250.60	1/2		1/2		1/2		1/2	
3/4	2,061.04	3/4	1,696.45	3/4	1,334.77	3/4	971.74	3/4	607.63	3/4	243.00	3/4		3/4		3/4		3/4	
9	2,053.45	9	1,688.85	9	1,327.33	9	964.17	9	600.04	9	235.41	9		9		9		9	
1/4	2,045.85	1/4	1,681.26	1/4	1,319.90	1/4	956.61	1/4	592.44	1/4	227.81	1/4		1/4		1/4		1/4	
1/2	2,038.26	1/2	1,673.66	1/2	1,312.47	1/2	949.04	1/2	584.84	1/2	220.21	1/2		1/2		1/2		1/2	
3/4	2,030.66	3/4	1,666.06	3/4	1,305.03	3/4	941.47	3/4	577.25	3/4	212.62	3/4		3/4		3/4		3/4	
10	2,023.06	10	1,658.47	10	1,297.52	10	933.91	10	569.65	10	205.02	10		10		10		10	
1/4	2,015.47	1/4	1,650.87	1/4	1,290.00	1/4	926.34	1/4	562.05	1/4	197.42	1/4		1/4		1/4		1/4	
1/2	2,007.87	1/2	1,643.28	1/2	1,282.49	1/2	918.77	1/2	554.46	1/2	189.83	1/2		1/2		1/2		1/2	
3/4	2,000.28	3/4	1,635.68	3/4	1,274.97	3/4	911.20	3/4	546.86	3/4	182.23	3/4		3/4		3/4		3/4	
11	1,992.68	11	1,628.09	11	1,267.37	11	903.64	11	539.27	11	174.63	11		11		11		11	
1/4	1,985.09	1/4	1,620.49	1/4	1,259.78	1/4	896.07	1/4	531.67	1/4	167.04	1/4		1/4		1/4		1/4	
1/2	1,977.49	1/2	1,612.89	1/2	1,252.18	1/2	888.50	1/2	524.07	1/2	159.44	1/2		1/2		1/2		1/2	
3/4	1,969.90	3/4	1,605.30	3/4	1,244.59	3/4	880.94	3/4	516.48	3/4	151.84	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 08/02/2006 CL - SW  
CALCULATED: 08/03/2006 CL  
PRINTED: 08/03/2006 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 08/2006

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