



BARGE "KIRBY 28163"

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

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

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

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

LENGTH BETWEEN DRAFT MARKS: 241'-06"

March 15, 2011

PRECISION MEASUREMENT
 & ANALYSIS, INC.

P.O. Box 2092
 Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "KIRBY 28163"

1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-07 3/4"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0
		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	
		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
0		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	
		1/2		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	
1		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	
		1/2		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	
2		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	
		1/2		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	
		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	
		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
4		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	
		1/2		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	
5		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	
		1/2		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	
6		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	
		1/2		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	
7		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	
		1/2		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	
8		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	
		1/2		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	
9		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	
		1/2		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	
10		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	
		1/2		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	
11																			
		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	
		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
		0		0		0		0		0		0		0		0		0	

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 53'-00" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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BARGE "KIRBY 28163"

1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-07 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	2,363.44	0	1,997.12	0	1,630.78	0	1,265.10	0	900.87	0	534.91	0	188.22	0		0		0	
1/4	2,355.81	1/4	1,989.49	1/4	1,623.15	1/4	1,257.47	1/4	893.30	1/4	527.28	1/4	181.53	1/4	1/4		1/4		1/4
1/2	2,348.18	1/2	1,981.85	1/2	1,615.52	1/2	1,249.83	1/2	885.72	1/2	519.65	1/2	174.83	1/2	1/2		1/2		1/2
3/4	2,340.54	3/4	1,974.22	3/4	1,607.89	3/4	1,242.20	3/4	878.14	3/4	512.01	3/4	168.13	3/4	3/4		3/4		3/4
1	2,332.91	1	1,966.59	1	1,600.25	1	1,234.57	1	870.55	1	504.40	1	161.52	1	1		1		1
1/4	2,325.28	1/4	1,958.96	1/4	1,592.62	1/4	1,226.94	1/4	862.96	1/4	496.79	1/4	154.90	1/4	1/4		1/4		1/4
1/2	2,317.65	1/2	1,951.33	1/2	1,584.99	1/2	1,219.30	1/2	855.37	1/2	489.18	1/2	148.29	1/2	1/2		1/2		1/2
3/4	2,310.02	3/4	1,943.69	3/4	1,577.36	3/4	1,211.67	3/4	847.78	3/4	481.57	3/4	141.68	3/4	3/4		3/4		3/4
2	2,302.38	2	1,936.06	2	1,569.73	2	1,204.05	2	840.16	2	474.02	2	135.16	2	2		2		2
1/4	2,294.75	1/4	1,928.43	1/4	1,562.09	1/4	1,196.44	1/4	832.55	1/4	466.47	1/4	128.64	1/4	1/4		1/4		1/4
1/2	2,287.12	1/2	1,920.80	1/2	1,554.46	1/2	1,188.82	1/2	824.93	1/2	458.92	1/2	122.12	1/2	1/2		1/2		1/2
3/4	2,279.49	3/4	1,913.17	3/4	1,546.83	3/4	1,181.20	3/4	817.31	3/4	451.37	3/4	115.60	3/4	3/4		3/4		3/4
3	2,271.86	3	1,905.53	3	1,539.20	3	1,173.61	3	809.68	3	443.91	3	109.18	3	3		3		3
1/4	2,264.23	1/4	1,897.90	1/4	1,531.57	1/4	1,166.02	1/4	802.05	1/4	436.45	1/4	102.76	1/4	1/4		1/4		1/4
1/2	2,256.59	1/2	1,890.27	1/2	1,523.93	1/2	1,158.43	1/2	794.41	1/2	428.99	1/2	96.33	1/2	1/2		1/2		1/2
3/4	2,248.96	3/4	1,882.64	3/4	1,516.30	3/4	1,150.84	3/4	786.78	3/4	421.52	3/4	89.91	3/4	3/4		3/4		3/4
4	2,241.33	4	1,875.01	4	1,508.67	4	1,143.26	4	779.15	4	414.14	4	83.59	4	4		4		4
1/4	2,233.70	1/4	1,867.37	1/4	1,501.04	1/4	1,135.68	1/4	771.52	1/4	406.77	1/4	77.27	1/4	1/4		1/4		1/4
1/2	2,226.07	1/2	1,859.74	1/2	1,493.41	1/2	1,128.11	1/2	763.88	1/2	399.39	1/2	70.95	1/2	1/2		1/2		1/2
3/4	2,218.44	3/4	1,852.11	3/4	1,485.77	3/4	1,120.53	3/4	756.25	3/4	392.01	3/4	64.64	3/4	3/4		3/4		3/4
5	2,210.80	5	1,844.48	5	1,478.16	5	1,112.96	5	748.62	5	384.72	5	58.44	5	5		5		5
1/4	2,203.17	1/4	1,836.85	1/4	1,470.54	1/4	1,105.38	1/4	740.99	1/4	377.42	1/4	52.24	1/4	1/4		1/4		1/4
1/2	2,195.54	1/2	1,829.21	1/2	1,462.92	1/2	1,097.81	1/2	733.36	1/2	370.13	1/2	46.04	1/2	1/2		1/2		1/2
3/4	2,187.91	3/4	1,821.58	3/4	1,455.30	3/4	1,090.23	3/4	725.72	3/4	362.84	3/4	39.84	3/4	3/4		3/4		3/4
6	2,180.28	6	1,813.95	6	1,447.70	6	1,082.66	6	718.09	6	355.63	6	34.33	6	6		6		6
1/4	2,172.65	1/4	1,806.32	1/4	1,440.09	1/4	1,075.08	1/4	710.46	1/4	348.42	1/4	28.83	1/4	1/4		1/4		1/4
1/2	2,165.01	1/2	1,798.69	1/2	1,432.49	1/2	1,067.51	1/2	702.83	1/2	341.21	1/2	23.33	1/2	1/2		1/2		1/2
3/4	2,157.38	3/4	1,791.05	3/4	1,424.88	3/4	1,059.94	3/4	695.19	3/4	334.00	3/4	17.82	3/4	3/4		3/4		3/4
7	2,149.75	7	1,783.42	7	1,417.28	7	1,052.36	7	687.56	7	326.88	7	14.26	7	7		7		7
1/4	2,142.12	1/4	1,775.79	1/4	1,409.68	1/4	1,044.79	1/4	679.93	1/4	319.76	1/4	10.70	1/4	1/4		1/4		1/4
1/2	2,134.49	1/2	1,768.16	1/2	1,402.07	1/2	1,037.21	1/2	672.30	1/2	312.63	1/2	7.15	1/2	1/2		1/2		1/2
3/4	2,126.86	3/4	1,760.53	3/4	1,394.47	3/4	1,029.64	3/4	664.67	3/4	305.51	3/4	3.59	3/4	3/4		3/4		3/4
8	2,119.22	8	1,752.89	8	1,386.86	8	1,022.06	8	657.03	8	298.47	8		8	8		8		8
1/4	2,111.59	1/4	1,745.26	1/4	1,379.26	1/4	1,014.49	1/4	649.40	1/4	291.43	1/4		1/4	1/4		1/4		1/4
1/2	2,103.96	1/2	1,737.63	1/2	1,371.65	1/2	1,006.92	1/2	641.77	1/2	284.39	1/2		1/2	1/2		1/2		1/2
3/4	2,096.33	3/4	1,730.00	3/4	1,364.05	3/4	999.34	3/4	634.14	3/4	277.35	3/4		3/4	3/4		3/4		3/4
9	2,088.70	9	1,722.37	9	1,356.44	9	991.77	9	626.50	9	270.40	9		9	9		9		9
1/4	2,081.07	1/4	1,714.73	1/4	1,348.84	1/4	984.19	1/4	618.87	1/4	263.45	1/4		1/4	1/4		1/4		1/4
1/2	2,073.43	1/2	1,707.10	1/2	1,341.23	1/2	976.62	1/2	611.24	1/2	256.49	1/2		1/2	1/2		1/2		1/2
3/4	2,065.80	3/4	1,699.47	3/4	1,333.63	3/4	969.04	3/4	603.61	3/4	249.54	3/4		3/4	3/4		3/4		3/4
10	2,058.17	10	1,691.84	10	1,326.02	10	961.47	10	595.97	10	242.67	10		10	10		10		10
1/4	2,050.54	1/4	1,684.21	1/4	1,318.42	1/4	953.90	1/4	588.34	1/4	235.80	1/4		1/4	1/4		1/4		1/4
1/2	2,042.91	1/2	1,676.57	1/2	1,310.81	1/2	946.32	1/2	580.71	1/2	228.93	1/2		1/2	1/2		1/2		1/2
3/4	2,035.28	3/4	1,668.94	3/4	1,303.21	3/4	938.75	3/4	573.07	3/4	222.06	3/4		3/4	3/4		3/4		3/4
11	2,027.64	11	1,661.31	11	1,295.59	11	931.17	11	565.44	11	215.28	11		11	11		11		11
1/4	2,020.01	1/4	1,653.68	1/4	1,287.97	1/4	923.60	1/4	557.81	1/4	208.49	1/4		1/4	1/4		1/4		1/4
1/2	2,012.38	1/2	1,646.05	1/2	1,280.35	1/2	916.02	1/2	550.18	1/2	201.71	1/2		1/2	1/2		1/2		1/2
3/4	2,004.75	3/4	1,638.41	3/4	1,272.73	3/4	908.45	3/4	542.54	3/4	194.92	3/4		3/4	3/4		3/4		3/4

STRAPPED: 03/15/2011 CL - SW
CALCULATED: 03/15/2011 CL
PRINTED: 03/15/2011 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 03/2011

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT
& ANALYSIS, INC.
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BARGE "KIRBY 28163"

1 STBD
ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-09"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.			
IN		IN		IN		IN		IN		IN		IN		IN		IN		IN		IN	
0		0		0		0		0	4,552.26	0	4,222.35	0	3,868.19	0	3,501.95	0	3,135.63	0	2,769.31		
1/4		1/4		1/4		1/4		1/4	4,545.60	1/4	4,215.17	1/4	3,860.58	1/4	3,494.32	1/4	3,128.00	1/4	2,761.67		
1/2		1/2		1/2		1/2		1/2	4,538.95	1/2	4,207.99	1/2	3,852.97	1/2	3,486.69	1/2	3,120.36	1/2	2,754.04		
3/4		3/4		3/4		3/4		3/4	4,532.30	3/4	4,200.82	3/4	3,845.35	3/4	3,479.05	3/4	3,112.73	3/4	2,746.41		
1		1		1		1		1	4,525.64	1	4,193.64	1	3,837.74	1	3,471.42	1	3,105.10	1	2,738.78		
1/4		1/4		1/4		1/4		1/4	4,518.95	1/4	4,186.42	1/4	3,830.11	1/4	3,463.79	1/4	3,097.47	1/4	2,731.15		
1/2		1/2		1/2		1/2		1/2	4,512.26	1/2	4,179.21	1/2	3,822.48	1/2	3,456.16	1/2	3,089.84	1/2	2,723.52		
3/4		3/4		3/4		3/4		3/4	4,505.57	3/4	4,171.99	3/4	3,814.85	3/4	3,448.53	3/4	3,082.21	3/4	2,715.88		
2		2		2		2	4,826.41	2	4,498.89	2	4,164.78	2	3,807.22	2	3,440.90	2	3,074.57	2	2,708.25		
1/4		1/4		1/4		1/4	4,819.58	1/4	4,492.16	1/4	4,157.52	1/4	3,799.59	1/4	3,433.26	1/4	3,066.94	1/4	2,700.62		
1/2		1/2		1/2		1/2	4,812.75	1/2	4,485.44	1/2	4,150.27	1/2	3,791.95	1/2	3,425.63	1/2	3,059.31	1/2	2,692.99		
3/4		3/4		3/4		3/4	4,805.92	3/4	4,478.72	3/4	4,143.02	3/4	3,784.32	3/4	3,418.00	3/4	3,051.68	3/4	2,685.36		
3		3		3		3	4,799.09	3	4,472.00	3	4,135.77	3	3,776.69	3	3,410.37	3	3,044.05	3	2,677.73		
1/4		1/4		1/4		1/4	4,791.62	1/4	4,465.24	1/4	4,128.48	1/4	3,769.06	1/4	3,402.74	1/4	3,036.42	1/4	2,670.09		
1/2		1/2		1/2		1/2	4,784.16	1/2	4,458.49	1/2	4,121.19	1/2	3,761.43	1/2	3,395.11	1/2	3,028.78	1/2	2,662.46		
3/4		3/4		3/4		3/4	4,776.69	3/4	4,451.73	3/4	4,113.90	3/4	3,753.80	3/4	3,387.47	3/4	3,021.15	3/4	2,654.83		
4		4		4		4	4,769.22	4	4,444.97	4	4,106.60	4	3,746.16	4	3,379.84	4	3,013.52	4	2,647.20		
1/4		1/4		1/4		1/4	4,761.68	1/4	4,438.18	1/4	4,099.28	1/4	3,738.53	1/4	3,372.21	1/4	3,005.89	1/4	2,639.57		
1/2		1/2		1/2		1/2	4,754.13	1/2	4,431.38	1/2	4,091.95	1/2	3,730.90	1/2	3,364.58	1/2	2,998.26	1/2	2,631.94		
3/4		3/4		3/4		3/4	4,746.58	3/4	4,424.59	3/4	4,084.63	3/4	3,723.27	3/4	3,356.95	3/4	2,990.63	3/4	2,624.30		
5		5		5		5	4,739.03	5	4,417.79	5	4,077.30	5	3,715.64	5	3,349.31	5	2,982.99	5	2,616.67		
1/4		1/4		1/4		1/4	4,731.77	1/4	4,410.96	1/4	4,069.95	1/4	3,708.00	1/4	3,341.68	1/4	2,975.36	1/4	2,609.04		
1/2		1/2		1/2		1/2	4,724.50	1/2	4,404.13	1/2	4,062.59	1/2	3,700.37	1/2	3,334.05	1/2	2,967.73	1/2	2,601.41		
3/4		3/4		3/4		3/4	4,717.23	3/4	4,397.30	3/4	4,055.23	3/4	3,692.74	3/4	3,326.42	3/4	2,960.10	3/4	2,593.78		
6		6		6		6	4,709.96	6	4,390.47	6	4,047.87	6	3,685.11	6	3,318.79	6	2,952.47	6	2,586.14		
1/4		1/4		1/4		1/4	4,703.25	1/4	4,383.60	1/4	4,040.48	1/4	3,677.48	1/4	3,311.16	1/4	2,944.83	1/4	2,578.51		
1/2		1/2		1/2		1/2	4,696.53	1/2	4,376.73	1/2	4,033.08	1/2	3,669.85	1/2	3,303.52	1/2	2,937.20	1/2	2,570.88		
3/4		3/4		3/4		3/4	4,689.81	3/4	4,369.86	3/4	4,025.69	3/4	3,662.21	3/4	3,295.89	3/4	2,929.57	3/4	2,563.25		
7		7		7		7	4,683.09	7	4,362.99	7	4,018.30	7	3,654.58	7	3,288.26	7	2,921.94	7	2,555.62		
1/4		1/4		1/4		1/4	4,676.62	1/4	4,356.09	1/4	4,010.87	1/4	3,646.95	1/4	3,280.63	1/4	2,914.31	1/4	2,547.99		
1/2		1/2		1/2		1/2	4,670.16	1/2	4,349.18	1/2	4,003.44	1/2	3,639.32	1/2	3,273.00	1/2	2,906.68	1/2	2,540.35		
3/4		3/4		3/4		3/4	4,663.69	3/4	4,342.27	3/4	3,996.01	3/4	3,631.69	3/4	3,265.37	3/4	2,899.04	3/4	2,532.72		
8		8		8		8	4,657.22	8	4,335.37	8	3,988.57	8	3,624.06	8	3,257.73	8	2,891.41	8	2,525.09		
1/4		1/4		1/4		1/4	4,650.72	1/4	4,328.40	1/4	3,981.11	1/4	3,616.42	1/4	3,250.10	1/4	2,883.78	1/4	2,517.46		
1/2		1/2		1/2		1/2	4,644.21	1/2	4,321.44	1/2	3,973.64	1/2	3,608.79	1/2	3,242.47	1/2	2,876.15	1/2	2,509.83		
3/4		3/4		3/4		3/4	4,637.71	3/4	4,314.47	3/4	3,966.17	3/4	3,601.16	3/4	3,234.84	3/4	2,868.52	3/4	2,502.20		
9		9		9		9	4,631.21	9	4,307.51	9	3,958.70	9	3,593.53	9	3,227.21	9	2,860.89	9	2,494.56		
1/4		1/4		1/4		1/4	4,624.66	1/4	4,300.46	1/4	3,951.20	1/4	3,585.90	1/4	3,219.58	1/4	2,853.25	1/4	2,486.93		
1/2		1/2		1/2		1/2	4,618.12	1/2	4,293.42	1/2	3,943.69	1/2	3,578.27	1/2	3,211.94	1/2	2,845.62	1/2	2,479.30		
3/4		3/4		3/4		3/4	4,611.58	3/4	4,286.37	3/4	3,936.19	3/4	3,570.63	3/4	3,204.31	3/4	2,837.99	3/4	2,471.67		
10		10		10		10	4,605.04	10	4,279.33	10	3,928.68	10	3,563.00	10	3,196.68	10	2,830.36	10	2,464.04		
1/4		1/4		1/4		1/4	4,598.46	1/4	4,272.22	1/4	3,921.14	1/4	3,555.37	1/4	3,189.05	1/4	2,822.73	1/4	2,456.41		
1/2		1/2		1/2		1/2	4,591.88	1/2	4,265.12	1/2	3,913.60	1/2	3,547.74	1/2	3,181.42	1/2	2,815.10	1/2	2,448.77		
3/4		3/4		3/4		3/4	4,585.30	3/4	4,258.02	3/4	3,906.05	3/4	3,540.11	3/4	3,173.79	3/4	2,807.46	3/4	2,441.14		
11		11		11		11	4,578.72	11	4,250.91	11	3,898.51	11	3,532.48	11	3,166.15	11	2,799.83	11	2,433.51		
1/4		1/4		1/4		1/4	4,572.11	1/4	4,243.77	1/4	3,890.93	1/4	3,524.84	1/4	3,158.52	1/4	2,792.20	1/4	2,425.88		
1/2		1/2		1/2		1/2	4,565.49	1/2	4,236.63	1/2	3,883.35	1/2	3,517.21	1/2	3,150.89	1/2	2,784.57	1/2	2,418.25		
3/4		3/4		3/4		3/4	4,558.87	3/4	4,229.49	3/4	3,875.77	3/4	3,509.58	3/4	3,143.26	3/4	2,776.94	3/4	2,410.62		

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 53'-00" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "KIRBY 28163"

**1 STBD
ULLAGE TABLE**

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-09"

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.	
IN		IN		IN		IN		IN		IN		IN		IN		IN		IN	
0	2,402.98	0	2,036.66	0	1,670.33	0	1,304.59	0	939.15	0	573.07	0	222.05	0		0		0	
1/4	2,395.35	1/4	2,029.03	1/4	1,662.70	1/4	1,296.98	1/4	931.54	1/4	565.43	1/4	215.27	1/4	1/4		1/4		1/4
1/2	2,387.72	1/2	2,021.40	1/2	1,655.07	1/2	1,289.36	1/2	923.94	1/2	557.80	1/2	208.49	1/2	1/2		1/2		1/2
3/4	2,380.09	3/4	2,013.77	3/4	1,647.43	3/4	1,281.74	3/4	916.34	3/4	550.17	3/4	201.70	3/4	3/4		3/4		3/4
1	2,372.46	1	2,006.14	1	1,639.80	1	1,274.12	1	908.73	1	542.53	1	194.92	1	1		1		1
1/4	2,364.83	1/4	1,998.50	1/4	1,632.17	1/4	1,266.49	1/4	901.13	1/4	534.90	1/4	188.22	1/4	1/4		1/4		1/4
1/2	2,357.19	1/2	1,990.87	1/2	1,624.54	1/2	1,258.85	1/2	893.52	1/2	527.27	1/2	181.52	1/2	1/2		1/2		1/2
3/4	2,349.56	3/4	1,983.24	3/4	1,616.91	3/4	1,251.22	3/4	885.92	3/4	519.64	3/4	174.82	3/4	3/4		3/4		3/4
2	2,341.93	2	1,975.61	2	1,609.27	2	1,243.59	2	878.31	2	512.00	2	168.12	2	2		2		2
1/4	2,334.30	1/4	1,967.98	1/4	1,601.64	1/4	1,235.96	1/4	870.69	1/4	504.39	1/4	161.51	1/4	1/4		1/4		1/4
1/2	2,326.67	1/2	1,960.35	1/2	1,594.01	1/2	1,228.32	1/2	863.07	1/2	496.78	1/2	154.90	1/2	1/2		1/2		1/2
3/4	2,319.04	3/4	1,952.71	3/4	1,586.38	3/4	1,220.69	3/4	855.45	3/4	489.17	3/4	148.29	3/4	3/4		3/4		3/4
3	2,311.40	3	1,945.08	3	1,578.75	3	1,213.06	3	847.83	3	481.56	3	141.68	3	3		3		3
1/4	2,303.77	1/4	1,937.45	1/4	1,571.11	1/4	1,205.43	1/4	840.20	1/4	474.01	1/4	135.16	1/4	1/4		1/4		1/4
1/2	2,296.14	1/2	1,929.82	1/2	1,563.48	1/2	1,197.79	1/2	832.57	1/2	466.46	1/2	128.64	1/2	1/2		1/2		1/2
3/4	2,288.51	3/4	1,922.19	3/4	1,555.85	3/4	1,190.16	3/4	824.93	3/4	458.91	3/4	122.12	3/4	3/4		3/4		3/4
4	2,280.88	4	1,914.55	4	1,548.22	4	1,182.53	4	817.30	4	451.37	4	115.60	4	4		4		4
1/4	2,273.25	1/4	1,906.92	1/4	1,540.59	1/4	1,174.91	1/4	809.67	1/4	443.90	1/4	109.17	1/4	1/4		1/4		1/4
1/2	2,265.61	1/2	1,899.29	1/2	1,532.95	1/2	1,167.29	1/2	802.04	1/2	436.44	1/2	102.75	1/2	1/2		1/2		1/2
3/4	2,257.98	3/4	1,891.66	3/4	1,525.32	3/4	1,159.67	3/4	794.41	3/4	428.98	3/4	96.33	3/4	3/4		3/4		3/4
5	2,250.35	5	1,884.03	5	1,517.69	5	1,152.05	5	786.77	5	421.51	5	89.91	5	5		5		5
1/4	2,242.72	1/4	1,876.39	1/4	1,510.06	1/4	1,144.44	1/4	779.14	1/4	414.14	1/4	83.59	1/4	1/4		1/4		1/4
1/2	2,235.09	1/2	1,868.76	1/2	1,502.43	1/2	1,136.84	1/2	771.51	1/2	406.76	1/2	77.27	1/2	1/2		1/2		1/2
3/4	2,227.46	3/4	1,861.13	3/4	1,494.79	3/4	1,129.23	3/4	763.88	3/4	399.38	3/4	70.95	3/4	3/4		3/4		3/4
6	2,219.82	6	1,853.50	6	1,487.16	6	1,121.63	6	756.24	6	392.00	6	64.63	6	6		6		6
1/4	2,212.19	1/4	1,845.87	1/4	1,479.54	1/4	1,114.02	1/4	748.61	1/4	384.71	1/4	58.43	1/4	1/4		1/4		1/4
1/2	2,204.56	1/2	1,838.23	1/2	1,471.93	1/2	1,106.42	1/2	740.98	1/2	377.42	1/2	52.23	1/2	1/2		1/2		1/2
3/4	2,196.93	3/4	1,830.60	3/4	1,464.31	3/4	1,098.82	3/4	733.35	3/4	370.12	3/4	46.03	3/4	3/4		3/4		3/4
7	2,189.30	7	1,822.97	7	1,456.69	7	1,091.21	7	725.71	7	362.83	7	39.83	7	7		7		7
1/4	2,181.66	1/4	1,815.34	1/4	1,449.08	1/4	1,083.61	1/4	718.08	1/4	355.62	1/4	34.33	1/4	1/4		1/4		1/4
1/2	2,174.03	1/2	1,807.71	1/2	1,441.48	1/2	1,076.01	1/2	710.45	1/2	348.41	1/2	28.83	1/2	1/2		1/2		1/2
3/4	2,166.40	3/4	1,800.07	3/4	1,433.88	3/4	1,068.40	3/4	702.82	3/4	341.20	3/4	23.32	3/4	3/4		3/4		3/4
8	2,158.77	8	1,792.44	8	1,426.27	8	1,060.80	8	695.19	8	333.99	8	17.82	8	8		8		8
1/4	2,151.14	1/4	1,784.81	1/4	1,418.67	1/4	1,053.20	1/4	687.55	1/4	326.87	1/4	14.26	1/4	1/4		1/4		1/4
1/2	2,143.51	1/2	1,777.18	1/2	1,411.06	1/2	1,045.59	1/2	679.92	1/2	319.75	1/2	10.70	1/2	1/2		1/2		1/2
3/4	2,135.87	3/4	1,769.55	3/4	1,403.46	3/4	1,037.99	3/4	672.29	3/4	312.62	3/4	7.14	3/4	3/4		3/4		3/4
9	2,128.24	9	1,761.91	9	1,395.85	9	1,030.39	9	664.66	9	305.50	9	3.59	9	9		9		9
1/4	2,120.61	1/4	1,754.28	1/4	1,388.25	1/4	1,022.78	1/4	657.02	1/4	298.46	1/4		1/4	1/4		1/4		1/4
1/2	2,112.98	1/2	1,746.65	1/2	1,380.64	1/2	1,015.18	1/2	649.39	1/2	291.42	1/2		1/2	1/2		1/2		1/2
3/4	2,105.35	3/4	1,739.02	3/4	1,373.04	3/4	1,007.58	3/4	641.76	3/4	284.38	3/4		3/4	3/4		3/4		3/4
10	2,097.72	10	1,731.39	10	1,365.43	10	999.97	10	634.13	10	277.35	10		10	10		10		10
1/4	2,090.08	1/4	1,723.75	1/4	1,357.83	1/4	992.37	1/4	626.49	1/4	270.39	1/4		1/4	1/4		1/4		1/4
1/2	2,082.45	1/2	1,716.12	1/2	1,350.22	1/2	984.77	1/2	618.86	1/2	263.44	1/2		1/2	1/2		1/2		1/2
3/4	2,074.82	3/4	1,708.49	3/4	1,342.62	3/4	977.16	3/4	611.23	3/4	256.48	3/4		3/4	3/4		3/4		3/4
11	2,067.19	11	1,700.86	11	1,335.01	11	969.56	11	603.60	11	249.53	11		11	11		11		11
1/4	2,059.56	1/4	1,693.23	1/4	1,327.41	1/4	961.96	1/4	595.96	1/4	242.66	1/4		1/4	1/4		1/4		1/4
1/2	2,051.93	1/2	1,685.59	1/2	1,319.80	1/2	954.35	1/2	588.33	1/2	235.79	1/2		1/2	1/2		1/2		1/2
3/4	2,044.29	3/4	1,677.96	3/4	1,312.20	3/4	946.75	3/4	580.70	3/4	228.92	3/4		3/4	3/4		3/4		3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 03/15/2011 CL - SW
CALCULATED: 03/15/2011 CL
PRINTED: 03/15/2011 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 03/2011

PRECISION MEASUREMENT
& ANALYSIS, INC.
P.O. Box 2092
Pearland, Texas 77588
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BARGE "KIRBY 28163"

2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-08 1/2"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.			
IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT		
0		0		0		0		0	4,558.40	0	4,229.57	0	3,876.81	0	3,512.88	0	3,148.90	0	2,784.93		
1/4		1/4		1/4		1/4		1/4	4,551.79	1/4	4,222.44	1/4	3,869.25	1/4	3,505.29	1/4	3,141.32	1/4	2,777.35		
1/2		1/2		1/2		1/2		1/2	4,545.18	1/2	4,215.31	1/2	3,861.68	1/2	3,497.71	1/2	3,133.74	1/2	2,769.76		
3/4		3/4		3/4		3/4		3/4	4,538.53	3/4	4,208.14	3/4	3,854.10	3/4	3,490.13	3/4	3,126.15	3/4	2,762.18		
1		1		1		1		1	4,531.89	1	4,200.97	1	3,846.52	1	3,482.55	1	3,118.57	1	2,754.60		
1/4		1/4		1/4		1/4		1/4	4,849.62	1/4	4,525.24	1/4	4,193.80	1/4	3,838.94	1/4	3,474.96	1/4	3,110.99	1/4	2,747.01
1/2		1/2		1/2		1/2		1/2	4,844.02	1/2	4,518.59	1/2	4,186.63	1/2	3,831.35	1/2	3,467.38	1/2	3,103.41	1/2	2,739.43
3/4		3/4		3/4		3/4		3/4	4,837.23	3/4	4,511.92	3/4	4,179.42	3/4	3,823.77	3/4	3,459.80	3/4	3,095.82	3/4	2,731.85
2		2		2		2		2	4,830.45	2	4,505.24	2	4,172.21	2	3,816.19	2	3,452.21	2	3,088.24	2	2,724.27
1/4		1/4		1/4		1/4		1/4	4,823.66	1/4	4,498.56	1/4	4,165.01	1/4	3,808.61	1/4	3,444.63	1/4	3,080.66	1/4	2,716.68
1/2		1/2		1/2		1/2		1/2	4,816.87	1/2	4,491.88	1/2	4,157.80	1/2	3,801.02	1/2	3,437.05	1/2	3,073.07	1/2	2,709.10
3/4		3/4		3/4		3/4		3/4	4,809.45	3/4	4,485.17	3/4	4,150.56	3/4	3,793.44	3/4	3,429.47	3/4	3,065.49	3/4	2,701.52
3		3		3		3		3	4,802.03	3	4,478.45	3	4,143.31	3	3,785.86	3	3,421.88	3	3,057.91	3	2,693.93
1/4		1/4		1/4		1/4		1/4	4,794.61	1/4	4,471.74	1/4	4,136.07	1/4	3,778.27	1/4	3,414.30	1/4	3,050.33	1/4	2,686.35
1/2		1/2		1/2		1/2		1/2	4,787.19	1/2	4,465.03	1/2	4,128.83	1/2	3,770.69	1/2	3,406.72	1/2	3,042.74	1/2	2,678.77
3/4		3/4		3/4		3/4		3/4	4,779.69	3/4	4,458.28	3/4	4,121.55	3/4	3,763.11	3/4	3,399.13	3/4	3,035.16	3/4	2,671.19
4		4		4		4		4	4,772.20	4	4,451.53	4	4,114.27	4	3,755.53	4	3,391.55	4	3,027.58	4	2,663.60
1/4		1/4		1/4		1/4		1/4	4,764.70	1/4	4,444.78	1/4	4,106.99	1/4	3,747.94	1/4	3,383.97	1/4	3,019.99	1/4	2,656.02
1/2		1/2		1/2		1/2		1/2	4,757.20	1/2	4,438.02	1/2	4,099.71	1/2	3,740.36	1/2	3,376.39	1/2	3,012.41	1/2	2,648.44
3/4		3/4		3/4		3/4		3/4	4,749.98	3/4	4,431.24	3/4	4,092.40	3/4	3,732.78	3/4	3,368.80	3/4	3,004.83	3/4	2,640.85
5		5		5		5		5	4,742.76	5	4,424.45	5	4,085.09	5	3,725.20	5	3,361.22	5	2,997.25	5	2,633.27
1/4		1/4		1/4		1/4		1/4	4,735.54	1/4	4,417.66	1/4	4,077.78	1/4	3,717.61	1/4	3,353.64	1/4	2,989.66	1/4	2,625.69
1/2		1/2		1/2		1/2		1/2	4,728.32	1/2	4,410.87	1/2	4,070.47	1/2	3,710.03	1/2	3,346.06	1/2	2,982.08	1/2	2,618.11
3/4		3/4		3/4		3/4		3/4	4,721.64	3/4	4,404.05	3/4	4,063.12	3/4	3,702.45	3/4	3,338.47	3/4	2,974.50	3/4	2,610.52
6		6		6		6		6	4,714.97	6	4,397.22	6	4,055.78	6	3,694.86	6	3,330.89	6	2,966.92	6	2,602.94
1/4		1/4		1/4		1/4		1/4	4,708.29	1/4	4,390.40	1/4	4,048.43	1/4	3,687.28	1/4	3,323.31	1/4	2,959.33	1/4	2,595.36
1/2		1/2		1/2		1/2		1/2	4,701.62	1/2	4,383.57	1/2	4,041.08	1/2	3,679.70	1/2	3,315.72	1/2	2,951.75	1/2	2,587.78
3/4		3/4		3/4		3/4		3/4	4,695.19	3/4	4,376.71	3/4	4,033.70	3/4	3,672.12	3/4	3,308.14	3/4	2,944.17	3/4	2,580.19
7		7		7		7		7	4,688.77	7	4,369.85	7	4,026.32	7	3,664.53	7	3,300.56	7	2,936.58	7	2,572.61
1/4		1/4		1/4		1/4		1/4	4,682.34	1/4	4,362.99	1/4	4,018.93	1/4	3,656.95	1/4	3,292.98	1/4	2,929.00	1/4	2,565.03
1/2		1/2		1/2		1/2		1/2	4,675.91	1/2	4,356.13	1/2	4,011.55	1/2	3,649.37	1/2	3,285.39	1/2	2,921.42	1/2	2,557.44
3/4		3/4		3/4		3/4		3/4	4,669.45	3/4	4,349.21	3/4	4,004.13	3/4	3,641.78	3/4	3,277.81	3/4	2,913.84	3/4	2,549.86
8		8		8		8		8	4,662.99	8	4,342.29	8	3,996.71	8	3,634.20	8	3,270.23	8	2,906.25	8	2,542.28
1/4		1/4		1/4		1/4		1/4	4,656.53	1/4	4,335.37	1/4	3,989.29	1/4	3,626.62	1/4	3,262.64	1/4	2,898.67	1/4	2,534.70
1/2		1/2		1/2		1/2		1/2	4,650.06	1/2	4,328.45	1/2	3,981.87	1/2	3,619.04	1/2	3,255.06	1/2	2,891.09	1/2	2,527.11
3/4		3/4		3/4		3/4		3/4	4,643.57	3/4	4,321.45	3/4	3,974.41	3/4	3,611.45	3/4	3,247.48	3/4	2,883.50	3/4	2,519.53
9		9		9		9		9	4,637.07	9	4,314.45	9	3,966.96	9	3,603.87	9	3,239.90	9	2,875.92	9	2,511.95
1/4		1/4		1/4		1/4		1/4	4,630.57	1/4	4,307.45	1/4	3,959.50	1/4	3,596.29	1/4	3,232.31	1/4	2,868.34	1/4	2,504.36
1/2		1/2		1/2		1/2		1/2	4,624.07	1/2	4,300.45	1/2	3,952.04	1/2	3,588.70	1/2	3,224.73	1/2	2,860.76	1/2	2,496.78
3/4		3/4		3/4		3/4		3/4	4,617.53	3/4	4,293.39	3/4	3,944.55	3/4	3,581.12	3/4	3,217.15	3/4	2,853.17	3/4	2,489.20
10		10		10		10		10	4,610.99	10	4,286.33	10	3,937.05	10	3,573.54	10	3,209.56	10	2,845.59	10	2,481.62
1/4		1/4		1/4		1/4		1/4	4,604.46	1/4	4,279.27	1/4	3,929.56	1/4	3,565.96	1/4	3,201.98	1/4	2,838.01	1/4	2,474.03
1/2		1/2		1/2		1/2		1/2	4,597.92	1/2	4,272.21	1/2	3,922.06	1/2	3,558.37	1/2	3,194.40	1/2	2,830.42	1/2	2,466.45
3/4		3/4		3/4		3/4		3/4	4,591.35	3/4	4,265.12	3/4	3,914.53	3/4	3,550.79	3/4	3,186.82	3/4	2,822.84	3/4	2,458.87
11		11		11		11		11	4,584.77	11	4,258.02	11	3,907.00	11	3,543.21	11	3,179.23	11	2,815.26	11	2,451.28
1/4		1/4		1/4		1/4		1/4	4,578.20	1/4	4,250.93	1/4	3,899.47	1/4	3,535.63	1/4	3,171.65	1/4	2,807.68	1/4	2,443.70
1/2		1/2		1/2		1/2		1/2	4,571.62	1/2	4,243.83	1/2	3,891.94	1/2	3,528.04	1/2	3,164.07	1/2	2,800.09	1/2	2,436.12
3/4		3/4		3/4		3/4		3/4	4,565.01	3/4	4,236.70	3/4	3,884.37	3/4	3,520.46	3/4	3,156.49	3/4	2,792.51	3/4	2,428.54

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 52'-09" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



BARGE "KIRBY 28163"

2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-08 1/2"

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.	
0	2,420.95	0	2,056.98	0	1,692.99	0	1,332.89	0	980.65	0	621.68	0	257.66	0		0		0	
1/4	2,413.37	1/4	2,049.40	1/4	1,685.41	1/4	1,325.31	1/4	973.40	1/4	614.10	1/4	250.08	1/4	1/4	1/4		1/4	
1/2	2,405.79	1/2	2,041.81	1/2	1,677.83	1/2	1,317.72	1/2	966.15	1/2	606.52	1/2	242.49	1/2	1/2	1/2		1/2	
3/4	2,398.21	3/4	2,034.23	3/4	1,670.24	3/4	1,310.14	3/4	958.89	3/4	598.93	3/4	234.91	3/4	3/4	3/4		3/4	
1	2,390.62	1	2,026.65	1	1,662.66	1	1,302.56	1	951.64	1	591.35	1	227.33	1	1	1		1	
1/4	2,383.04	1/4	2,019.06	1/4	1,655.08	1/4	1,294.97	1/4	944.38	1/4	583.77	1/4	219.74	1/4	1/4	1/4		1/4	
1/2	2,375.46	1/2	2,011.48	1/2	1,647.49	1/2	1,287.39	1/2	937.13	1/2	576.18	1/2	212.16	1/2	1/2	1/2		1/2	
3/4	2,367.87	3/4	2,003.89	3/4	1,639.91	3/4	1,279.80	3/4	929.86	3/4	568.60	3/4	204.58	3/4	3/4	3/4		3/4	
2	2,360.29	2	1,996.31	2	1,632.33	2	1,272.22	2	922.59	2	561.01	2	197.00	2	2	2		2	
1/4	2,352.71	1/4	1,988.73	1/4	1,624.74	1/4	1,264.64	1/4	915.32	1/4	553.43	1/4	189.42	1/4	1/4	1/4		1/4	
1/2	2,345.13	1/2	1,981.15	1/2	1,617.16	1/2	1,257.05	1/2	908.05	1/2	545.85	1/2	181.84	1/2	1/2	1/2		1/2	
3/4	2,337.54	3/4	1,973.56	3/4	1,609.58	3/4	1,249.62	3/4	900.77	3/4	538.26	3/4	174.26	3/4	3/4	3/4		3/4	
3	2,329.96	3	1,965.98	3	1,602.00	3	1,242.19	3	893.49	3	530.68	3	166.69	3	3	3		3	
1/4	2,322.38	1/4	1,958.40	1/4	1,594.41	1/4	1,234.76	1/4	886.20	1/4	523.10	1/4	159.11	1/4	1/4	1/4		1/4	
1/2	2,314.79	1/2	1,950.81	1/2	1,586.83	1/2	1,227.32	1/2	878.92	1/2	515.51	1/2	151.54	1/2	1/2	1/2		1/2	
3/4	2,307.21	3/4	1,943.23	3/4	1,579.25	3/4	1,220.05	3/4	871.49	3/4	507.93	3/4	143.98	3/4	3/4	3/4		3/4	
4	2,299.63	4	1,935.65	4	1,571.66	4	1,212.78	4	864.06	4	500.34	4	136.41	4	4	4		4	
1/4	2,292.05	1/4	1,928.06	1/4	1,564.08	1/4	1,205.51	1/4	856.63	1/4	492.76	1/4	128.85	1/4	1/4	1/4		1/4	
1/2	2,284.46	1/2	1,920.48	1/2	1,556.50	1/2	1,198.24	1/2	849.19	1/2	485.18	1/2	121.29	1/2	1/2	1/2		1/2	
3/4	2,276.88	3/4	1,912.90	3/4	1,549.00	3/4	1,190.99	3/4	841.61	3/4	477.59	3/4	113.75	3/4	3/4	3/4		3/4	
5	2,269.30	5	1,905.32	5	1,541.49	5	1,183.73	5	834.03	5	470.01	5	106.21	5	5	5		5	
1/4	2,261.71	1/4	1,897.73	1/4	1,533.99	1/4	1,176.48	1/4	826.44	1/4	462.42	1/4	98.66	1/4	1/4	1/4		1/4	
1/2	2,254.13	1/2	1,890.15	1/2	1,526.49	1/2	1,169.22	1/2	818.86	1/2	454.84	1/2	91.12	1/2	1/2	1/2		1/2	
3/4	2,246.55	3/4	1,882.57	3/4	1,519.07	3/4	1,161.97	3/4	811.28	3/4	447.26	3/4	83.61	3/4	3/4	3/4		3/4	
6	2,238.97	6	1,874.98	6	1,511.65	6	1,154.72	6	803.69	6	439.67	6	76.10	6	6	6		6	
1/4	2,231.38	1/4	1,867.40	1/4	1,504.23	1/4	1,147.47	1/4	796.11	1/4	432.09	1/4	68.59	1/4	1/4	1/4		1/4	
1/2	2,223.80	1/2	1,859.82	1/2	1,496.81	1/2	1,140.21	1/2	788.53	1/2	424.51	1/2	61.08	1/2	1/2	1/2		1/2	
3/4	2,216.22	3/4	1,852.23	3/4	1,489.38	3/4	1,132.96	3/4	780.94	3/4	416.92	3/4	54.18	3/4	3/4	3/4		3/4	
7	2,208.64	7	1,844.65	7	1,481.96	7	1,125.71	7	773.36	7	409.34	7	47.28	7	7	7		7	
1/4	2,201.05	1/4	1,837.07	1/4	1,474.54	1/4	1,118.45	1/4	765.78	1/4	401.75	1/4	40.38	1/4	1/4	1/4		1/4	
1/2	2,193.47	1/2	1,829.49	1/2	1,467.12	1/2	1,111.20	1/2	758.19	1/2	394.17	1/2	33.48	1/2	1/2	1/2		1/2	
3/4	2,185.89	3/4	1,821.90	3/4	1,459.70	3/4	1,103.95	3/4	750.61	3/4	386.59	3/4	28.42	3/4	3/4	3/4		3/4	
8	2,178.30	8	1,814.32	8	1,452.28	8	1,096.70	8	743.03	8	379.00	8	23.37	8	8	8		8	
1/4	2,170.72	1/4	1,806.74	1/4	1,444.86	1/4	1,089.44	1/4	735.44	1/4	371.42	1/4	18.32	1/4	1/4	1/4		1/4	
1/2	2,163.14	1/2	1,799.15	1/2	1,437.44	1/2	1,082.19	1/2	727.86	1/2	363.84	1/2	13.26	1/2	1/2	1/2		1/2	
3/4	2,155.56	3/4	1,791.57	3/4	1,430.02	3/4	1,074.94	3/4	720.27	3/4	356.25	3/4		3/4	3/4	3/4		3/4	
9	2,147.97	9	1,783.99	9	1,422.60	9	1,067.69	9	712.69	9	348.67	9		9	9	9		9	
1/4	2,140.39	1/4	1,776.40	1/4	1,415.18	1/4	1,060.43	1/4	705.11	1/4	341.08	1/4		1/4	1/4	1/4		1/4	
1/2	2,132.81	1/2	1,768.82	1/2	1,407.75	1/2	1,053.18	1/2	697.52	1/2	333.50	1/2		1/2	1/2	1/2		1/2	
3/4	2,125.22	3/4	1,761.24	3/4	1,400.33	3/4	1,045.93	3/4	689.94	3/4	325.92	3/4		3/4	3/4	3/4		3/4	
10	2,117.64	10	1,753.66	10	1,392.91	10	1,038.67	10	682.36	10	318.33	10		10	10	10		10	
1/4	2,110.06	1/4	1,746.07	1/4	1,385.49	1/4	1,031.42	1/4	674.77	1/4	310.75	1/4		1/4	1/4	1/4		1/4	
1/2	2,102.48	1/2	1,738.49	1/2	1,378.07	1/2	1,024.17	1/2	667.19	1/2	303.16	1/2		1/2	1/2	1/2		1/2	
3/4	2,094.89	3/4	1,730.91	3/4	1,370.57	3/4	1,016.92	3/4	659.60	3/4	295.58	3/4		3/4	3/4	3/4		3/4	
11	2,087.31	11	1,723.32	11	1,363.06	11	1,009.66	11	652.02	11	288.00	11		11	11	11		11	
1/4	2,079.73	1/4	1,715.74	1/4	1,355.56	1/4	1,002.41	1/4	644.44	1/4	280.41	1/4		1/4	1/4	1/4		1/4	
1/2	2,072.14	1/2	1,708.16	1/2	1,348.06	1/2	995.16	1/2	636.85	1/2	272.83	1/2		1/2	1/2	1/2		1/2	
3/4	2,064.56	3/4	1,700.57	3/4	1,340.47	3/4	987.90	3/4	629.27	3/4	265.25	3/4		3/4	3/4	3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 03/15/2011 CL - SW
CALCULATED: 03/15/2011 CL
PRINTED: 03/15/2011 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 03/2011

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



BARGE "KIRBY 28163"

2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-08"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.			
IN		IN		IN		IN		IN		IN		IN		IN		IN		IN		IN	
0		0		0		0		0	4,560.87	0	4,230.99	0	3,877.37	0	3,513.40	0	3,149.42	0	2,785.45		
1/4		1/4		1/4		1/4		1/4	4,554.22	1/4	4,223.82	1/4	3,869.79	1/4	3,505.81	1/4	3,141.84	1/4	2,777.87		
1/2		1/2		1/2		1/2		1/2	4,547.58	1/2	4,216.65	1/2	3,862.20	1/2	3,498.23	1/2	3,134.26	1/2	2,770.28		
3/4		3/4		3/4		3/4		3/4	4,540.93	3/4	4,209.48	3/4	3,854.62	3/4	3,490.65	3/4	3,126.67	3/4	2,762.70		
1		1		1		1	4,859.72	1	4,534.29	1	4,202.31	1	3,847.04	1	3,483.07	1	3,119.09	1	2,755.12		
1/4		1/4		1/4		1/4	4,852.93	1/4	4,527.61	1/4	4,195.11	1/4	3,839.46	1/4	3,475.48	1/4	3,111.51	1/4	2,747.53		
1/2		1/2		1/2		1/2	4,846.14	1/2	4,520.93	1/2	4,187.90	1/2	3,831.87	1/2	3,467.90	1/2	3,103.93	1/2	2,739.95		
3/4		3/4		3/4		3/4	4,839.35	3/4	4,514.25	3/4	4,180.69	3/4	3,824.29	3/4	3,460.32	3/4	3,096.34	3/4	2,732.37		
2		2		2		2	4,832.57	2	4,507.57	2	4,173.49	2	3,816.71	2	3,452.73	2	3,088.76	2	2,724.79		
1/4		1/4		1/4		1/4	4,825.15	1/4	4,500.86	1/4	4,166.24	1/4	3,809.13	1/4	3,445.15	1/4	3,081.18	1/4	2,717.20		
1/2		1/2		1/2		1/2	4,817.73	1/2	4,494.14	1/2	4,159.00	1/2	3,801.54	1/2	3,437.57	1/2	3,073.59	1/2	2,709.62		
3/4		3/4		3/4		3/4	4,810.31	3/4	4,487.43	3/4	4,151.76	3/4	3,793.96	3/4	3,429.99	3/4	3,066.01	3/4	2,702.04		
3		3		3		3	4,802.89	3	4,480.72	3	4,144.51	3	3,786.38	3	3,422.40	3	3,058.43	3	2,694.45		
1/4		1/4		1/4		1/4	4,795.39	1/4	4,473.97	1/4	4,137.23	1/4	3,778.79	1/4	3,414.82	1/4	3,050.85	1/4	2,686.87		
1/2		1/2		1/2		1/2	4,787.89	1/2	4,467.22	1/2	4,129.96	1/2	3,771.21	1/2	3,407.24	1/2	3,043.26	1/2	2,679.29		
3/4		3/4		3/4		3/4	4,780.39	3/4	4,460.46	3/4	4,122.68	3/4	3,763.63	3/4	3,399.65	3/4	3,035.68	3/4	2,671.71		
4		4		4		4	4,772.89	4	4,453.71	4	4,115.40	4	3,756.05	4	3,392.07	4	3,028.10	4	2,664.12		
1/4		1/4		1/4		1/4	4,765.67	1/4	4,446.93	1/4	4,108.09	1/4	3,748.46	1/4	3,384.49	1/4	3,020.51	1/4	2,656.54		
1/2		1/2		1/2		1/2	4,758.45	1/2	4,440.14	1/2	4,100.78	1/2	3,740.88	1/2	3,376.91	1/2	3,012.93	1/2	2,648.96		
3/4		3/4		3/4		3/4	4,751.23	3/4	4,433.35	3/4	4,093.47	3/4	3,733.30	3/4	3,369.32	3/4	3,005.35	3/4	2,641.37		
5		5		5		5	4,744.01	5	4,426.56	5	4,086.15	5	3,725.72	5	3,361.74	5	2,997.77	5	2,633.79		
1/4		1/4		1/4		1/4	4,737.34	1/4	4,419.74	1/4	4,078.81	1/4	3,718.13	1/4	3,354.16	1/4	2,990.18	1/4	2,626.21		
1/2		1/2		1/2		1/2	4,730.66	1/2	4,412.91	1/2	4,071.46	1/2	3,710.55	1/2	3,346.58	1/2	2,982.60	1/2	2,618.63		
3/4		3/4		3/4		3/4	4,723.99	3/4	4,406.09	3/4	4,064.12	3/4	3,702.97	3/4	3,338.99	3/4	2,975.02	3/4	2,611.04		
6		6		6		6	4,717.31	6	4,399.26	6	4,056.77	6	3,695.38	6	3,331.41	6	2,967.44	6	2,603.46		
1/4		1/4		1/4		1/4	4,710.89	1/4	4,392.40	1/4	4,049.39	1/4	3,687.80	1/4	3,323.83	1/4	2,959.85	1/4	2,595.88		
1/2		1/2		1/2		1/2	4,704.46	1/2	4,385.54	1/2	4,042.00	1/2	3,680.22	1/2	3,316.24	1/2	2,952.27	1/2	2,588.30		
3/4		3/4		3/4		3/4	4,698.03	3/4	4,378.68	3/4	4,034.62	3/4	3,672.64	3/4	3,308.66	3/4	2,944.69	3/4	2,580.71		
7		7		7		7	4,691.61	7	4,371.82	7	4,027.24	7	3,665.05	7	3,301.08	7	2,937.10	7	2,573.13		
1/4		1/4		1/4		1/4	4,685.15	1/4	4,364.89	1/4	4,019.82	1/4	3,657.47	1/4	3,293.50	1/4	2,929.52	1/4	2,565.55		
1/2		1/2		1/2		1/2	4,678.68	1/2	4,357.97	1/2	4,012.40	1/2	3,649.89	1/2	3,285.91	1/2	2,921.94	1/2	2,557.96		
3/4		3/4		3/4		3/4	4,672.22	3/4	4,351.05	3/4	4,004.98	3/4	3,642.30	3/4	3,278.33	3/4	2,914.36	3/4	2,550.38		
8		8		8		8	4,665.76	8	4,344.13	8	3,997.56	8	3,634.72	8	3,270.75	8	2,906.77	8	2,542.80		
1/4		1/4		1/4		1/4	4,659.26	1/4	4,337.13	1/4	3,990.10	1/4	3,627.14	1/4	3,263.16	1/4	2,899.19	1/4	2,535.22		
1/2		1/2		1/2		1/2	4,652.76	1/2	4,330.13	1/2	3,982.64	1/2	3,619.56	1/2	3,255.58	1/2	2,891.61	1/2	2,527.63		
3/4		3/4		3/4		3/4	4,646.26	3/4	4,323.13	3/4	3,975.18	3/4	3,611.97	3/4	3,248.00	3/4	2,884.02	3/4	2,520.05		
9		9		9		9	4,639.76	9	4,316.13	9	3,967.73	9	3,604.39	9	3,240.42	9	2,876.44	9	2,512.47		
1/4		1/4		1/4		1/4	4,633.22	1/4	4,309.08	1/4	3,960.23	1/4	3,596.81	1/4	3,232.83	1/4	2,868.86	1/4	2,504.88		
1/2		1/2		1/2		1/2	4,626.69	1/2	4,302.02	1/2	3,952.74	1/2	3,589.22	1/2	3,225.25	1/2	2,861.28	1/2	2,497.30		
3/4		3/4		3/4		3/4	4,620.15	3/4	4,294.96	3/4	3,945.24	3/4	3,581.64	3/4	3,217.67	3/4	2,853.69	3/4	2,489.72		
10		10		10		10	4,613.61	10	4,287.90	10	3,937.75	10	3,574.06	10	3,210.08	10	2,846.11	10	2,482.14		
1/4		1/4		1/4		1/4	4,607.04	1/4	4,280.81	1/4	3,930.22	1/4	3,566.48	1/4	3,202.50	1/4	2,838.53	1/4	2,474.55		
1/2		1/2		1/2		1/2	4,600.46	1/2	4,273.71	1/2	3,922.68	1/2	3,558.89	1/2	3,194.92	1/2	2,830.94	1/2	2,466.97		
3/4		3/4		3/4		3/4	4,593.89	3/4	4,266.62	3/4	3,915.15	3/4	3,551.31	3/4	3,187.34	3/4	2,823.36	3/4	2,459.39		
11		11		11		11	4,587.31	11	4,259.52	11	3,907.62	11	3,543.73	11	3,179.75	11	2,815.78	11	2,451.80		
1/4		1/4		1/4		1/4	4,580.70	1/4	4,252.39	1/4	3,900.06	1/4	3,536.15	1/4	3,172.17	1/4	2,808.20	1/4	2,444.22		
1/2		1/2		1/2		1/2	4,574.09	1/2	4,245.26	1/2	3,892.50	1/2	3,528.56	1/2	3,164.59	1/2	2,800.61	1/2	2,436.64		
3/4		3/4		3/4		3/4	4,567.48	3/4	4,238.12	3/4	3,884.93	3/4	3,520.98	3/4	3,157.01	3/4	2,793.03	3/4	2,429.06		

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 52'-09" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "KIRBY 28163"

2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-08"

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	2,421.47	0	2,057.50	0	1,693.51	0	1,333.41	0	970.37	0	606.52	0	242.49	0		0		0	
1/4	2,413.89	1/4	2,049.92	1/4	1,685.93	1/4	1,325.83	1/4	962.81	1/4	598.93	1/4	234.91	1/4		1/4		1/4	
1/2	2,406.31	1/2	2,042.33	1/2	1,678.35	1/2	1,318.24	1/2	955.26	1/2	591.35	1/2	227.33	1/2		1/2		1/2	
3/4	2,398.73	3/4	2,034.75	3/4	1,670.76	3/4	1,310.66	3/4	947.70	3/4	583.77	3/4	219.74	3/4		3/4		3/4	
1	2,391.14	1	2,027.17	1	1,663.18	1	1,303.07	1	940.14	1	576.18	1	212.16	1		1		1	
1/4	2,383.56	1/4	2,019.59	1/4	1,655.60	1/4	1,295.49	1/4	932.57	1/4	568.60	1/4	204.58	1/4		1/4		1/4	
1/2	2,375.98	1/2	2,012.00	1/2	1,648.01	1/2	1,287.91	1/2	925.00	1/2	561.01	1/2	197.00	1/2		1/2		1/2	
3/4	2,368.39	3/4	2,004.42	3/4	1,640.43	3/4	1,280.32	3/4	917.43	3/4	553.43	3/4	189.42	3/4		3/4		3/4	
2	2,360.81	2	1,996.84	2	1,632.85	2	1,272.74	2	909.86	2	545.85	2	181.84	2		2		2	
1/4	2,353.23	1/4	1,989.25	1/4	1,625.26	1/4	1,265.16	1/4	902.27	1/4	538.26	1/4	174.26	1/4		1/4		1/4	
1/2	2,345.65	1/2	1,981.67	1/2	1,617.68	1/2	1,257.57	1/2	894.69	1/2	530.68	1/2	166.69	1/2		1/2		1/2	
3/4	2,338.06	3/4	1,974.09	3/4	1,610.10	3/4	1,249.99	3/4	887.11	3/4	523.10	3/4	159.11	3/4		3/4		3/4	
3	2,330.48	3	1,966.50	3	1,602.52	3	1,242.40	3	879.52	3	515.51	3	151.54	3		3		3	
1/4	2,322.90	1/4	1,958.92	1/4	1,594.93	1/4	1,234.83	1/4	871.94	1/4	507.93	1/4	143.98	1/4		1/4		1/4	
1/2	2,315.31	1/2	1,951.34	1/2	1,587.35	1/2	1,227.26	1/2	864.36	1/2	500.34	1/2	136.41	1/2		1/2		1/2	
3/4	2,307.73	3/4	1,943.76	3/4	1,579.77	3/4	1,219.69	3/4	856.77	3/4	492.76	3/4	128.85	3/4		3/4		3/4	
4	2,300.15	4	1,936.17	4	1,572.18	4	1,212.12	4	849.19	4	485.18	4	121.29	4		4		4	
1/4	2,292.57	1/4	1,928.59	1/4	1,564.68	1/4	1,204.56	1/4	841.61	1/4	477.59	1/4	113.75	1/4		1/4		1/4	
1/2	2,284.98	1/2	1,921.01	1/2	1,557.18	1/2	1,197.01	1/2	834.02	1/2	470.01	1/2	106.21	1/2		1/2		1/2	
3/4	2,277.40	3/4	1,913.42	3/4	1,549.68	3/4	1,189.45	3/4	826.44	3/4	462.42	3/4	98.66	3/4		3/4		3/4	
5	2,269.82	5	1,905.84	5	1,542.17	5	1,181.89	5	818.86	5	454.84	5	91.12	5		5		5	
1/4	2,262.23	1/4	1,898.26	1/4	1,534.75	1/4	1,174.34	1/4	811.27	1/4	447.26	1/4	83.61	1/4		1/4		1/4	
1/2	2,254.65	1/2	1,890.67	1/2	1,527.33	1/2	1,166.79	1/2	803.69	1/2	439.67	1/2	76.10	1/2		1/2		1/2	
3/4	2,247.07	3/4	1,883.09	3/4	1,519.91	3/4	1,159.23	3/4	796.11	3/4	432.09	3/4	68.59	3/4		3/4		3/4	
6	2,239.49	6	1,875.51	6	1,512.49	6	1,151.68	6	788.52	6	424.51	6	61.09	6		6		6	
1/4	2,231.90	1/4	1,867.92	1/4	1,505.07	1/4	1,144.12	1/4	780.94	1/4	416.92	1/4	54.18	1/4		1/4		1/4	
1/2	2,224.32	1/2	1,860.34	1/2	1,497.65	1/2	1,136.57	1/2	773.36	1/2	409.34	1/2	47.28	1/2		1/2		1/2	
3/4	2,216.74	3/4	1,852.76	3/4	1,490.23	3/4	1,129.01	3/4	765.77	3/4	401.75	3/4	40.38	3/4		3/4		3/4	
7	2,209.16	7	1,845.17	7	1,482.81	7	1,121.46	7	758.19	7	394.17	7	33.48	7		7		7	
1/4	2,201.57	1/4	1,837.59	1/4	1,475.39	1/4	1,113.90	1/4	750.61	1/4	386.59	1/4	28.42	1/4		1/4		1/4	
1/2	2,193.99	1/2	1,830.01	1/2	1,467.97	1/2	1,106.35	1/2	743.02	1/2	379.00	1/2	23.37	1/2		1/2		1/2	
3/4	2,186.41	3/4	1,822.43	3/4	1,460.55	3/4	1,098.80	3/4	735.44	3/4	371.42	3/4	18.32	3/4		3/4		3/4	
8	2,178.82	8	1,814.84	8	1,453.12	8	1,091.24	8	727.86	8	363.84	8	13.26	8		8		8	
1/4	2,171.24	1/4	1,807.26	1/4	1,445.70	1/4	1,083.69	1/4	720.27	1/4	356.25	1/4		1/4		1/4		1/4	
1/2	2,163.66	1/2	1,799.68	1/2	1,438.28	1/2	1,076.13	1/2	712.69	1/2	348.67	1/2		1/2		1/2		1/2	
3/4	2,156.08	3/4	1,792.09	3/4	1,430.86	3/4	1,068.58	3/4	705.11	3/4	341.08	3/4		3/4		3/4		3/4	
9	2,148.49	9	1,784.51	9	1,423.44	9	1,061.02	9	697.52	9	333.50	9		9		9		9	
1/4	2,140.91	1/4	1,776.93	1/4	1,416.02	1/4	1,053.47	1/4	689.94	1/4	325.92	1/4		1/4		1/4		1/4	
1/2	2,133.33	1/2	1,769.34	1/2	1,408.60	1/2	1,045.91	1/2	682.36	1/2	318.33	1/2		1/2		1/2		1/2	
3/4	2,125.74	3/4	1,761.76	3/4	1,401.18	3/4	1,038.36	3/4	674.77	3/4	310.75	3/4		3/4		3/4		3/4	
10	2,118.16	10	1,754.18	10	1,393.75	10	1,030.80	10	667.19	10	303.16	10		10		10		10	
1/4	2,110.58	1/4	1,746.59	1/4	1,386.25	1/4	1,023.25	1/4	659.60	1/4	295.58	1/4		1/4		1/4		1/4	
1/2	2,103.00	1/2	1,739.01	1/2	1,378.75	1/2	1,015.70	1/2	652.02	1/2	288.00	1/2		1/2		1/2		1/2	
3/4	2,095.41	3/4	1,731.43	3/4	1,371.25	3/4	1,008.14	3/4	644.44	3/4	280.41	3/4		3/4		3/4		3/4	
11	2,087.83	11	1,723.85	11	1,363.74	11	1,000.59	11	636.85	11	272.83	11		11		11		11	
1/4	2,080.25	1/4	1,716.26	1/4	1,356.16	1/4	993.03	1/4	629.27	1/4	265.25	1/4		1/4		1/4		1/4	
1/2	2,072.66	1/2	1,708.68	1/2	1,348.58	1/2	985.48	1/2	621.68	1/2	257.66	1/2		1/2		1/2		1/2	
3/4	2,065.08	3/4	1,701.10	3/4	1,340.99	3/4	977.92	3/4	614.10	3/4	250.08	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 03/15/2011 CL - SW
CALCULATED: 03/15/2011 CL
PRINTED: 03/15/2011 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 03/2011

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



BARGE "KIRBY 28163"

3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-05 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	2,306.39	0	1,942.76	0	1,579.20	0	1,220.10	0	865.58	0	508.88	0	144.56	0		0		0	
1/4	2,298.81	1/4	1,935.19	1/4	1,571.65	1/4	1,212.54	1/4	858.23	1/4	501.28	1/4	137.28	1/4		1/4		1/4	
1/2	2,291.24	1/2	1,927.61	1/2	1,564.09	1/2	1,204.98	1/2	850.87	1/2	493.69	1/2	130.00	1/2		1/2		1/2	
3/4	2,283.66	3/4	1,920.03	3/4	1,556.54	3/4	1,197.42	3/4	843.51	3/4	486.09	3/4	122.72	3/4		3/4		3/4	
1	2,276.08	1	1,912.46	1	1,548.99	1	1,189.86	1	836.13	1	478.49	1	116.39	1		1		1	
1/4	2,268.51	1/4	1,904.88	1/4	1,541.44	1/4	1,182.30	1/4	828.76	1/4	470.90	1/4	110.07	1/4		1/4		1/4	
1/2	2,260.93	1/2	1,897.31	1/2	1,533.88	1/2	1,174.74	1/2	821.39	1/2	463.30	1/2	103.74	1/2		1/2		1/2	
3/4	2,253.36	3/4	1,889.73	3/4	1,526.33	3/4	1,167.18	3/4	814.02	3/4	455.70	3/4	97.41	3/4		3/4		3/4	
2	2,245.78	2	1,882.16	2	1,518.78	2	1,159.72	2	806.63	2	448.11	2	92.35	2		2		2	
1/4	2,238.21	1/4	1,874.58	1/4	1,511.23	1/4	1,152.27	1/4	799.24	1/4	440.51	1/4	87.29	1/4		1/4		1/4	
1/2	2,230.63	1/2	1,867.00	1/2	1,503.68	1/2	1,144.81	1/2	791.86	1/2	432.91	1/2	82.23	1/2		1/2		1/2	
3/4	2,223.06	3/4	1,859.43	3/4	1,496.12	3/4	1,137.35	3/4	784.47	3/4	425.32	3/4	77.18	3/4		3/4		3/4	
3	2,215.48	3	1,851.85	3	1,488.57	3	1,130.01	3	777.09	3	417.72	3	73.40	3		3		3	
1/4	2,207.90	1/4	1,844.28	1/4	1,481.02	1/4	1,122.66	1/4	769.70	1/4	410.12	1/4	69.61	1/4		1/4		1/4	
1/2	2,200.33	1/2	1,836.70	1/2	1,473.47	1/2	1,115.32	1/2	762.32	1/2	402.53	1/2	65.83	1/2		1/2		1/2	
3/4	2,192.75	3/4	1,829.13	3/4	1,465.91	3/4	1,107.97	3/4	754.93	3/4	394.93	3/4	62.05	3/4		3/4		3/4	
4	2,185.18	4	1,821.55	4	1,458.44	4	1,100.63	4	747.54	4	387.34	4	59.56	4		4		4	
1/4	2,177.60	1/4	1,813.97	1/4	1,450.97	1/4	1,093.29	1/4	740.16	1/4	379.74	1/4	57.06	1/4		1/4		1/4	
1/2	2,170.03	1/2	1,806.40	1/2	1,443.50	1/2	1,085.95	1/2	732.77	1/2	372.14	1/2	54.56	1/2		1/2		1/2	
3/4	2,162.45	3/4	1,798.82	3/4	1,436.03	3/4	1,078.61	3/4	725.39	3/4	364.55	3/4	52.07	3/4		3/4		3/4	
5	2,154.88	5	1,791.25	5	1,428.63	5	1,071.27	5	718.00	5	356.95	5	50.87	5		5		5	
1/4	2,147.30	1/4	1,783.67	1/4	1,421.23	1/4	1,063.93	1/4	710.61	1/4	349.35	1/4	49.67	1/4		1/4		1/4	
1/2	2,139.73	1/2	1,776.10	1/2	1,413.82	1/2	1,056.59	1/2	703.23	1/2	341.76	1/2	48.47	1/2		1/2		1/2	
3/4	2,132.15	3/4	1,768.52	3/4	1,406.42	3/4	1,049.25	3/4	695.84	3/4	334.16	3/4	47.27	3/4		3/4		3/4	
6	2,124.57	6	1,760.94	6	1,399.01	6	1,041.91	6	688.46	6	326.56	6		6		6		6	
1/4	2,117.00	1/4	1,753.37	1/4	1,391.59	1/4	1,034.58	1/4	681.07	1/4	318.97	1/4		1/4		1/4		1/4	
1/2	2,109.42	1/2	1,745.79	1/2	1,384.18	1/2	1,027.24	1/2	673.69	1/2	311.37	1/2		1/2		1/2		1/2	
3/4	2,101.85	3/4	1,738.22	3/4	1,376.76	3/4	1,019.90	3/4	666.30	3/4	303.77	3/4		3/4		3/4		3/4	
7	2,094.27	7	1,730.64	7	1,369.35	7	1,012.56	7	658.91	7	296.18	7		7		7		7	
1/4	2,086.70	1/4	1,723.07	1/4	1,361.93	1/4	1,005.22	1/4	651.53	1/4	288.58	1/4		1/4		1/4		1/4	
1/2	2,079.12	1/2	1,715.49	1/2	1,354.52	1/2	997.88	1/2	644.14	1/2	280.98	1/2		1/2		1/2		1/2	
3/4	2,071.55	3/4	1,707.91	3/4	1,347.10	3/4	990.54	3/4	636.76	3/4	273.39	3/4		3/4		3/4		3/4	
8	2,063.97	8	1,700.34	8	1,339.69	8	983.20	8	629.37	8	265.79	8		8		8		8	
1/4	2,056.39	1/4	1,692.76	1/4	1,332.27	1/4	975.87	1/4	621.99	1/4	258.19	1/4		1/4		1/4		1/4	
1/2	2,048.82	1/2	1,685.19	1/2	1,324.86	1/2	968.53	1/2	614.60	1/2	250.60	1/2		1/2		1/2		1/2	
3/4	2,041.24	3/4	1,677.61	3/4	1,317.44	3/4	961.19	3/4	607.21	3/4	243.00	3/4		3/4		3/4		3/4	
9	2,033.67	9	1,670.04	9	1,310.04	9	953.84	9	599.72	9	235.41	9		9		9		9	
1/4	2,026.09	1/4	1,662.46	1/4	1,302.63	1/4	946.49	1/4	592.23	1/4	227.81	1/4		1/4		1/4		1/4	
1/2	2,018.52	1/2	1,654.88	1/2	1,295.22	1/2	939.15	1/2	584.74	1/2	220.21	1/2		1/2		1/2		1/2	
3/4	2,010.94	3/4	1,647.31	3/4	1,287.82	3/4	931.80	3/4	577.25	3/4	212.62	3/4		3/4		3/4		3/4	
10	2,003.37	10	1,639.73	10	1,280.34	10	924.44	10	569.65	10	205.02	10		10		10		10	
1/4	1,995.79	1/4	1,632.16	1/4	1,272.86	1/4	917.08	1/4	562.05	1/4	197.42	1/4		1/4		1/4		1/4	
1/2	1,988.22	1/2	1,624.58	1/2	1,265.38	1/2	909.73	1/2	554.46	1/2	189.83	1/2		1/2		1/2		1/2	
3/4	1,980.64	3/4	1,617.01	3/4	1,257.90	3/4	902.37	3/4	546.86	3/4	182.23	3/4		3/4		3/4		3/4	
11	1,973.06	11	1,609.44	11	1,250.34	11	895.01	11	539.27	11	174.63	11		11		11		11	
1/4	1,965.49	1/4	1,601.88	1/4	1,242.78	1/4	887.66	1/4	531.67	1/4	167.04	1/4		1/4		1/4		1/4	
1/2	1,957.91	1/2	1,594.31	1/2	1,235.22	1/2	880.30	1/2	524.07	1/2	159.44	1/2		1/2		1/2		1/2	
3/4	1,950.34	3/4	1,586.75	3/4	1,227.66	3/4	872.94	3/4	516.48	3/4	151.84	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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CALCULATED: 03/15/2011 CL
PRINTED: 03/15/2011 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 03/2011

PRECISION MEASUREMENT
& ANALYSIS, INC.
P.O. Box 2092
Pearland, Texas 77588
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BARGE "KIRBY 28163"

3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-05 1/2"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,319.29	0	1,954.70	0	1,590.11	0	1,229.39	0	865.80	0	501.28	0	137.28	0		0		0	
1/4	2,311.69	1/4	1,947.11	1/4	1,582.51	1/4	1,221.80	1/4	858.23	1/4	493.69	1/4	130.00	1/4	1/4		1/4		1/4
1/2	2,304.10	1/2	1,939.51	1/2	1,574.92	1/2	1,214.20	1/2	850.66	1/2	486.09	1/2	122.72	1/2	1/2		1/2		1/2
3/4	2,296.50	3/4	1,931.91	3/4	1,567.32	3/4	1,206.60	3/4	843.08	3/4	478.49	3/4	116.39	3/4	3/4		3/4		3/4
1	2,288.91	1	1,924.32	1	1,559.73	1	1,199.01	1	835.49	1	470.90	1	110.07	1	1		1		1
1/4	2,281.31	1/4	1,916.72	1/4	1,552.13	1/4	1,191.41	1/4	827.91	1/4	463.30	1/4	103.74	1/4	1/4		1/4		1/4
1/2	2,273.72	1/2	1,909.13	1/2	1,544.53	1/2	1,183.81	1/2	820.33	1/2	455.70	1/2	97.41	1/2	1/2		1/2		1/2
3/4	2,266.12	3/4	1,901.53	3/4	1,536.94	3/4	1,176.22	3/4	812.73	3/4	448.11	3/4	92.35	3/4	3/4		3/4		3/4
2	2,258.52	2	1,893.94	2	1,529.34	2	1,168.62	2	805.13	2	440.51	2	87.29	2	2		2		2
1/4	2,250.93	1/4	1,886.34	1/4	1,521.75	1/4	1,161.02	1/4	797.54	1/4	432.91	1/4	82.23	1/4	1/4		1/4		1/4
1/2	2,243.33	1/2	1,878.74	1/2	1,514.15	1/2	1,153.43	1/2	789.94	1/2	425.32	1/2	77.18	1/2	1/2		1/2		1/2
3/4	2,235.74	3/4	1,871.15	3/4	1,506.56	3/4	1,145.84	3/4	782.34	3/4	417.72	3/4	73.40	3/4	3/4		3/4		3/4
3	2,228.14	3	1,863.55	3	1,498.96	3	1,138.26	3	774.75	3	410.12	3	69.61	3	3		3		3
1/4	2,220.55	1/4	1,855.96	1/4	1,491.36	1/4	1,130.68	1/4	767.15	1/4	402.53	1/4	65.83	1/4	1/4		1/4		1/4
1/2	2,212.95	1/2	1,848.36	1/2	1,483.77	1/2	1,123.09	1/2	759.56	1/2	394.93	1/2	62.05	1/2	1/2		1/2		1/2
3/4	2,205.36	3/4	1,840.77	3/4	1,476.25	3/4	1,115.52	3/4	751.96	3/4	387.34	3/4	59.56	3/4	3/4		3/4		3/4
4	2,197.76	4	1,833.17	4	1,468.74	4	1,107.96	4	744.36	4	379.74	4	57.06	4	4		4		4
1/4	2,190.17	1/4	1,825.57	1/4	1,461.22	1/4	1,100.39	1/4	736.77	1/4	372.14	1/4	54.56	1/4	1/4		1/4		1/4
1/2	2,182.57	1/2	1,817.98	1/2	1,453.71	1/2	1,092.82	1/2	729.17	1/2	364.55	1/2	52.07	1/2	1/2		1/2		1/2
3/4	2,174.97	3/4	1,810.38	3/4	1,446.28	3/4	1,085.25	3/4	721.58	3/4	356.95	3/4	50.87	3/4	3/4		3/4		3/4
5	2,167.38	5	1,802.79	5	1,438.84	5	1,077.68	5	713.98	5	349.35	5	49.67	5	5		5		5
1/4	2,159.78	1/4	1,795.19	1/4	1,431.41	1/4	1,070.12	1/4	706.38	1/4	341.76	1/4	48.47	1/4	1/4		1/4		1/4
1/2	2,152.19	1/2	1,787.60	1/2	1,423.97	1/2	1,062.55	1/2	698.79	1/2	334.16	1/2	47.27	1/2	1/2		1/2		1/2
3/4	2,144.59	3/4	1,780.00	3/4	1,416.54	3/4	1,054.98	3/4	691.19	3/4	326.56	3/4		3/4	3/4		3/4		3/4
6	2,137.00	6	1,772.40	6	1,409.11	6	1,047.41	6	683.60	6	318.97	6		6	6		6		6
1/4	2,129.40	1/4	1,764.81	1/4	1,401.67	1/4	1,039.85	1/4	676.00	1/4	311.37	1/4		1/4	1/4		1/4		1/4
1/2	2,121.81	1/2	1,757.21	1/2	1,394.24	1/2	1,032.28	1/2	668.40	1/2	303.77	1/2		1/2	1/2		1/2		1/2
3/4	2,114.21	3/4	1,749.62	3/4	1,386.81	3/4	1,024.71	3/4	660.81	3/4	296.18	3/4		3/4	3/4		3/4		3/4
7	2,106.61	7	1,742.02	7	1,379.37	7	1,017.15	7	653.21	7	288.58	7		7	7		7		7
1/4	2,099.02	1/4	1,734.43	1/4	1,371.94	1/4	1,009.58	1/4	645.61	1/4	280.98	1/4		1/4	1/4		1/4		1/4
1/2	2,091.42	1/2	1,726.83	1/2	1,364.50	1/2	1,002.01	1/2	638.02	1/2	273.39	1/2		1/2	1/2		1/2		1/2
3/4	2,083.83	3/4	1,719.23	3/4	1,357.07	3/4	994.44	3/4	630.42	3/4	265.79	3/4		3/4	3/4		3/4		3/4
8	2,076.23	8	1,711.64	8	1,349.64	8	986.88	8	622.83	8	258.19	8		8	8		8		8
1/4	2,068.64	1/4	1,704.04	1/4	1,342.20	1/4	979.31	1/4	615.23	1/4	250.60	1/4		1/4	1/4		1/4		1/4
1/2	2,061.04	1/2	1,696.45	1/2	1,334.77	1/2	971.74	1/2	607.63	1/2	243.00	1/2		1/2	1/2		1/2		1/2
3/4	2,053.45	3/4	1,688.85	3/4	1,327.33	3/4	964.17	3/4	600.04	3/4	235.41	3/4		3/4	3/4		3/4		3/4
9	2,045.85	9	1,681.26	9	1,319.90	9	956.61	9	592.44	9	227.81	9		9	9		9		9
1/4	2,038.26	1/4	1,673.66	1/4	1,312.47	1/4	949.04	1/4	584.84	1/4	220.21	1/4		1/4	1/4		1/4		1/4
1/2	2,030.66	1/2	1,666.06	1/2	1,305.03	1/2	941.47	1/2	577.25	1/2	212.62	1/2		1/2	1/2		1/2		1/2
3/4	2,023.06	3/4	1,658.47	3/4	1,297.52	3/4	933.91	3/4	569.65	3/4	205.02	3/4		3/4	3/4		3/4		3/4
10	2,015.47	10	1,650.87	10	1,290.00	10	926.34	10	562.05	10	197.42	10		10	10		10		10
1/4	2,007.87	1/4	1,643.28	1/4	1,282.49	1/4	918.77	1/4	554.46	1/4	189.83	1/4		1/4	1/4		1/4		1/4
1/2	2,000.28	1/2	1,635.68	1/2	1,274.97	1/2	911.20	1/2	546.86	1/2	182.23	1/2		1/2	1/2		1/2		1/2
3/4	1,992.68	3/4	1,628.09	3/4	1,267.37	3/4	903.64	3/4	539.27	3/4	174.63	3/4		3/4	3/4		3/4		3/4
11	1,985.09	11	1,620.49	11	1,259.78	11	896.07	11	531.67	11	167.04	11		11	11		11		11
1/4	1,977.49	1/4	1,612.89	1/4	1,252.18	1/4	888.50	1/4	524.07	1/4	159.44	1/4		1/4	1/4		1/4		1/4
1/2	1,969.90	1/2	1,605.30	1/2	1,244.59	1/2	880.94	1/2	516.48	1/2	151.84	1/2		1/2	1/2		1/2		1/2
3/4	1,962.30	3/4	1,597.70	3/4	1,236.99	3/4	873.37	3/4	508.88	3/4	144.56	3/4		3/4	3/4		3/4		3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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