



BARGE "KIRBY 28170"

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	00-3/8	- 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
1 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
2 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	02-5/8	- 02-5/8
2 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	02-5/8	- 02-5/8
3 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
3 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

(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"

April 21, 2011

PRECISION MEASUREMENT
 & ANALYSIS, INC.

P.O. Box 2092
 Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "KIRBY 28170"

1 PORT 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	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0		
									4,527.49		4,195.25		3,839.09		3,472.52		3,105.94		2,739.35		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,520.80	1/4	4,188.03	1/4	3,831.46	1/4	3,464.89	1/4	3,098.30	1/4	2,731.71		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,839.77	1/2	4,514.10	1/2	4,180.80	1/2	3,823.83	1/2	3,457.25	1/2	3,090.66	1/2	2,724.08
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,834.13	3/4	4,507.41	3/4	4,173.58	3/4	3,816.19	3/4	3,449.61	3/4	3,083.03	3/4	2,716.44
1	1	1	1	1	1	1	1	1	4,828.48	1	4,500.71	1	4,166.36	1	3,808.56	1	3,441.97	1	3,075.39	1	2,708.80
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,821.65	1/4	4,493.99	1/4	4,159.11	1/4	3,800.92	1/4	3,434.34	1/4	3,067.75	1/4	2,701.17
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,814.81	1/2	4,487.26	1/2	4,151.85	1/2	3,793.28	1/2	3,426.70	1/2	3,060.11	1/2	2,693.53
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,807.98	3/4	4,480.53	3/4	4,144.59	3/4	3,785.65	3/4	3,419.06	3/4	3,052.48	3/4	2,685.89
2	2	2	2	2	2	2	2	2	4,801.14	2	4,473.81	2	4,137.33	2	3,778.01	2	3,411.42	2	3,044.84	2	2,678.25
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,793.67	1/4	4,467.05	1/4	4,130.04	1/4	3,770.37	1/4	3,403.79	1/4	3,037.20	1/4	2,670.62
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,786.19	1/2	4,460.28	1/2	4,122.74	1/2	3,762.74	1/2	3,396.15	1/2	3,029.56	1/2	2,662.98
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,778.72	3/4	4,453.52	3/4	4,115.44	3/4	3,755.10	3/4	3,388.51	3/4	3,021.93	3/4	2,655.34
3	3	3	3	3	3	3	3	3	4,771.25	3	4,446.76	3	4,108.15	3	3,747.46	3	3,380.88	3	3,014.29	3	2,647.70
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,763.70	1/4	4,439.96	1/4	4,100.82	1/4	3,739.82	1/4	3,373.24	1/4	3,006.65	1/4	2,640.07
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,756.14	1/2	4,433.16	1/2	4,093.49	1/2	3,732.19	1/2	3,365.60	1/2	2,999.02	1/2	2,632.43
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,748.59	3/4	4,426.36	3/4	4,086.16	3/4	3,724.55	3/4	3,357.96	3/4	2,991.38	3/4	2,624.79
4	4	4	4	4	4	4	4	4	4,741.04	4	4,419.56	4	4,078.83	4	3,716.91	4	3,350.33	4	2,983.74	4	2,617.16
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,733.77	1/4	4,412.73	1/4	4,071.46	1/4	3,709.28	1/4	3,342.69	1/4	2,976.10	1/4	2,609.52
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,726.49	1/2	4,405.89	1/2	4,064.10	1/2	3,701.64	1/2	3,335.05	1/2	2,968.47	1/2	2,601.88
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,719.22	3/4	4,399.05	3/4	4,056.74	3/4	3,694.00	3/4	3,327.42	3/4	2,960.83	3/4	2,594.24
5	5	5	5	5	5	5	5	5	4,711.95	5	4,392.22	5	4,049.37	5	3,686.36	5	3,319.78	5	2,953.19	5	2,586.61
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,705.22	1/4	4,385.34	1/4	4,041.97	1/4	3,678.73	1/4	3,312.14	1/4	2,945.56	1/4	2,578.97
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,698.50	1/2	4,378.47	1/2	4,034.58	1/2	3,671.09	1/2	3,304.50	1/2	2,937.92	1/2	2,571.33
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,691.78	3/4	4,371.60	3/4	4,027.18	3/4	3,663.45	3/4	3,296.87	3/4	2,930.28	3/4	2,563.70
6	6	6	6	6	6	6	6	6	4,685.05	6	4,364.72	6	4,019.78	6	3,655.82	6	3,289.23	6	2,922.64	6	2,556.06
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,678.58	1/4	4,357.81	1/4	4,012.34	1/4	3,648.18	1/4	3,281.59	1/4	2,915.01	1/4	2,548.42
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,672.11	1/2	4,350.90	1/2	4,004.91	1/2	3,640.54	1/2	3,273.96	1/2	2,907.37	1/2	2,540.78
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,665.64	3/4	4,343.99	3/4	3,997.47	3/4	3,632.90	3/4	3,266.32	3/4	2,899.73	3/4	2,533.15
7	7	7	7	7	7	7	7	7	4,659.17	7	4,337.08	7	3,990.03	7	3,625.27	7	3,258.68	7	2,892.10	7	2,525.51
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,652.66	1/4	4,330.11	1/4	3,982.56	1/4	3,617.63	1/4	3,251.04	1/4	2,884.46	1/4	2,517.87
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,646.15	1/2	4,323.14	1/2	3,975.09	1/2	3,609.99	1/2	3,243.41	1/2	2,876.82	1/2	2,510.24
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,639.64	3/4	4,316.16	3/4	3,967.61	3/4	3,602.35	3/4	3,235.77	3/4	2,869.18	3/4	2,502.60
8	8	8	8	8	8	8	8	8	4,633.13	8	4,309.19	8	3,960.14	8	3,594.72	8	3,228.13	8	2,861.55	8	2,494.96
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,626.59	1/4	4,302.15	1/4	3,952.63	1/4	3,587.08	1/4	3,220.49	1/4	2,853.91	1/4	2,487.32
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,620.04	1/2	4,295.10	1/2	3,945.12	1/2	3,579.44	1/2	3,212.86	1/2	2,846.27	1/2	2,479.69
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,613.49	3/4	4,288.05	3/4	3,937.61	3/4	3,571.81	3/4	3,205.22	3/4	2,838.63	3/4	2,472.05
9	9	9	9	9	9	9	9	9	4,606.95	9	4,281.00	9	3,930.10	9	3,564.17	9	3,197.58	9	2,831.00	9	2,464.41
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,600.36	1/4	4,273.89	1/4	3,922.55	1/4	3,556.53	1/4	3,189.95	1/4	2,823.36	1/4	2,456.77
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,593.78	1/2	4,266.78	1/2	3,915.00	1/2	3,548.89	1/2	3,182.31	1/2	2,815.72	1/2	2,449.14
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,587.19	3/4	4,259.67	3/4	3,907.45	3/4	3,541.26	3/4	3,174.67	3/4	2,808.09	3/4	2,441.50
10	10	10	10	10	10	10	10	10	4,580.61	10	4,252.56	10	3,899.90	10	3,533.62	10	3,167.03	10	2,800.45	10	2,433.86
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,573.99	1/4	4,245.42	1/4	3,892.32	1/4	3,525.98	1/4	3,159.40	1/4	2,792.81	1/4	2,426.23
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,567.37	1/2	4,238.27	1/2	3,884.73	1/2	3,518.35	1/2	3,151.76	1/2	2,785.17	1/2	2,418.59
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,560.75	3/4	4,231.12	3/4	3,877.15	3/4	3,510.71	3/4	3,144.12	3/4	2,777.54	3/4	2,410.95
11	11	11	11	11	11	11	11	11	4,554.13	11	4,223.98	11	3,869.56	11	3,503.07	11	3,136.49	11	2,769.90	11	2,403.31
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,547.47	1/4	4,216.80	1/4	3,861.94	1/4	3,495.43	1/4	3,128.85	1/4	2,762.26	1/4	2,395.68
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,540.81	1/2	4,209.61	1/2	3,854.33	1/2	3,487.80	1/2	3,121.21	1/2	2,754.63	1/2	2,388.04
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,534.15	3/4	4,202.43	3/4	3,846.71	3/4	3,480.16	3/4	3,113.57	3/4	2,746.99	3/4	2,380.40

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'-06" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT
 & ANALYSIS, INC.
 P.O. Box 2092
 Pearland, Texas 77588
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BARGE "KIRBY 28170"

1 PORT 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	2,372.77	0	2,006.18	0	1,639.59	0	1,273.64	0	909.10	0	542.93	0	195.06	0		0		0	
1/4	2,365.13	1/4	1,998.54	1/4	1,631.95	1/4	1,266.00	1/4	901.52	1/4	535.29	1/4	188.36	1/4	1/4	1/4		1/4	
1/2	2,357.49	1/2	1,990.91	1/2	1,624.31	1/2	1,258.36	1/2	893.93	1/2	527.65	1/2	181.66	1/2	1/2	1/2		1/2	
3/4	2,349.85	3/4	1,983.27	3/4	1,616.67	3/4	1,250.73	3/4	886.35	3/4	520.02	3/4	174.95	3/4	3/4	3/4		3/4	
1	2,342.22	1	1,975.64	1	1,609.04	1	1,243.09	1	878.77	1	512.38	1	168.25	1	1	1		1	
1/4	2,334.58	1/4	1,968.00	1/4	1,601.40	1/4	1,235.45	1/4	871.18	1/4	504.76	1/4	161.63	1/4	1/4	1/4		1/4	
1/2	2,326.94	1/2	1,960.36	1/2	1,593.76	1/2	1,227.81	1/2	863.58	1/2	497.14	1/2	155.01	1/2	1/2	1/2		1/2	
3/4	2,319.31	3/4	1,952.72	3/4	1,586.12	3/4	1,220.17	3/4	855.98	3/4	489.53	3/4	148.40	3/4	3/4	3/4		3/4	
2	2,311.67	2	1,945.09	2	1,578.49	2	1,212.54	2	848.39	2	481.91	2	141.78	2	2	2		2	
1/4	2,304.03	1/4	1,937.45	1/4	1,570.85	1/4	1,204.91	1/4	840.76	1/4	474.36	1/4	135.26	1/4	1/4	1/4		1/4	
1/2	2,296.39	1/2	1,929.81	1/2	1,563.21	1/2	1,197.29	1/2	833.14	1/2	466.80	1/2	128.73	1/2	1/2	1/2		1/2	
3/4	2,288.76	3/4	1,922.17	3/4	1,555.57	3/4	1,189.67	3/4	825.52	3/4	459.25	3/4	122.21	3/4	3/4	3/4		3/4	
3	2,281.12	3	1,914.54	3	1,547.94	3	1,182.04	3	817.90	3	451.70	3	115.68	3	3	3		3	
1/4	2,273.48	1/4	1,906.90	1/4	1,540.30	1/4	1,174.45	1/4	810.26	1/4	444.23	1/4	109.26	1/4	1/4	1/4		1/4	
1/2	2,265.84	1/2	1,899.26	1/2	1,532.66	1/2	1,166.85	1/2	802.62	1/2	436.76	1/2	102.83	1/2	1/2	1/2		1/2	
3/4	2,258.21	3/4	1,891.62	3/4	1,525.02	3/4	1,159.25	3/4	794.98	3/4	429.29	3/4	96.40	3/4	3/4	3/4		3/4	
4	2,250.57	4	1,883.99	4	1,517.39	4	1,151.66	4	787.34	4	421.82	4	89.97	4	4	4		4	
1/4	2,242.93	1/4	1,876.35	1/4	1,509.75	1/4	1,144.08	1/4	779.71	1/4	414.44	1/4	83.65	1/4	1/4	1/4		1/4	
1/2	2,235.30	1/2	1,868.71	1/2	1,502.11	1/2	1,136.49	1/2	772.07	1/2	407.06	1/2	77.33	1/2	1/2	1/2		1/2	
3/4	2,227.66	3/4	1,861.07	3/4	1,494.47	3/4	1,128.91	3/4	764.43	3/4	399.67	3/4	71.01	3/4	3/4	3/4		3/4	
5	2,220.02	5	1,853.44	5	1,486.84	5	1,121.33	5	756.79	5	392.29	5	64.68	5	5	5		5	
1/4	2,212.38	1/4	1,845.80	1/4	1,479.21	1/4	1,113.75	1/4	749.16	1/4	384.99	1/4	58.48	1/4	1/4	1/4		1/4	
1/2	2,204.75	1/2	1,838.16	1/2	1,471.59	1/2	1,106.17	1/2	741.52	1/2	377.69	1/2	52.27	1/2	1/2	1/2		1/2	
3/4	2,197.11	3/4	1,830.52	3/4	1,463.96	3/4	1,098.59	3/4	733.88	3/4	370.39	3/4	46.07	3/4	3/4	3/4		3/4	
6	2,189.47	6	1,822.89	6	1,456.34	6	1,091.01	6	726.24	6	363.10	6	39.87	6	6	6		6	
1/4	2,181.84	1/4	1,815.25	1/4	1,448.73	1/4	1,083.43	1/4	718.60	1/4	355.88	1/4	34.36	1/4	1/4	1/4		1/4	
1/2	2,174.20	1/2	1,807.61	1/2	1,441.12	1/2	1,075.85	1/2	710.97	1/2	348.67	1/2	28.85	1/2	1/2	1/2		1/2	
3/4	2,166.56	3/4	1,799.97	3/4	1,433.51	3/4	1,068.27	3/4	703.33	3/4	341.45	3/4	23.34	3/4	3/4	3/4		3/4	
7	2,158.92	7	1,792.34	7	1,425.90	7	1,060.69	7	695.69	7	334.24	7	17.84	7	7	7		7	
1/4	2,151.29	1/4	1,784.70	1/4	1,418.29	1/4	1,053.11	1/4	688.05	1/4	327.11	1/4	14.27	1/4	1/4	1/4		1/4	
1/2	2,143.65	1/2	1,777.06	1/2	1,410.68	1/2	1,045.53	1/2	680.42	1/2	319.98	1/2	10.71	1/2	1/2	1/2		1/2	
3/4	2,136.01	3/4	1,769.42	3/4	1,403.07	3/4	1,037.95	3/4	672.78	3/4	312.85	3/4	7.15	3/4	3/4	3/4		3/4	
8	2,128.38	8	1,761.79	8	1,395.46	8	1,030.37	8	665.14	8	305.73	8	3.59	8	8	8		8	
1/4	2,120.74	1/4	1,754.15	1/4	1,387.85	1/4	1,022.79	1/4	657.50	1/4	298.68	1/4		1/4	1/4	1/4		1/4	
1/2	2,113.10	1/2	1,746.51	1/2	1,380.24	1/2	1,015.21	1/2	649.86	1/2	291.64	1/2		1/2	1/2	1/2		1/2	
3/4	2,105.46	3/4	1,738.87	3/4	1,372.63	3/4	1,007.63	3/4	642.23	3/4	284.59	3/4		3/4	3/4	3/4		3/4	
9	2,097.83	9	1,731.24	9	1,365.02	9	1,000.05	9	634.59	9	277.55	9		9	9	9		9	
1/4	2,090.19	1/4	1,723.60	1/4	1,357.41	1/4	992.48	1/4	626.95	1/4	270.59	1/4		1/4	1/4	1/4		1/4	
1/2	2,082.55	1/2	1,715.96	1/2	1,349.80	1/2	984.90	1/2	619.31	1/2	263.63	1/2		1/2	1/2	1/2		1/2	
3/4	2,074.91	3/4	1,708.32	3/4	1,342.19	3/4	977.32	3/4	611.67	3/4	256.67	3/4		3/4	3/4	3/4		3/4	
10	2,067.28	10	1,700.69	10	1,334.58	10	969.74	10	604.04	10	249.72	10		10	10	10		10	
1/4	2,059.64	1/4	1,693.05	1/4	1,326.97	1/4	962.16	1/4	596.40	1/4	242.84	1/4		1/4	1/4	1/4		1/4	
1/2	2,052.00	1/2	1,685.41	1/2	1,319.36	1/2	954.58	1/2	588.76	1/2	235.97	1/2		1/2	1/2	1/2		1/2	
3/4	2,044.37	3/4	1,677.77	3/4	1,311.75	3/4	947.00	3/4	581.12	3/4	229.09	3/4		3/4	3/4	3/4		3/4	
11	2,036.73	11	1,670.14	11	1,304.14	11	939.42	11	573.48	11	222.22	11		11	11	11		11	
1/4	2,029.09	1/4	1,662.50	1/4	1,296.51	1/4	931.84	1/4	565.85	1/4	215.43	1/4		1/4	1/4	1/4		1/4	
1/2	2,021.45	1/2	1,654.86	1/2	1,288.89	1/2	924.26	1/2	558.21	1/2	208.64	1/2		1/2	1/2	1/2		1/2	
3/4	2,013.82	3/4	1,647.22	3/4	1,281.27	3/4	916.68	3/4	550.57	3/4	201.85	3/4		3/4	3/4	3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 04/21/2011 CL - SW
CALCULATED: 04/21/2011 CL
PRINTED: 04/21/2011 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 04/2011

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



BARGE "KIRBY 28170"

1 STBD ULLAGE TABLE

CAPACITIES GIVEN IN 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	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0
									4,508.79		4,174.97		3,817.58		3,451.00		3,084.41		2,717.83		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,829.86	1/4	4,502.10	1/4	4,167.75	1/4	3,809.95	1/4	3,443.36	1/4	3,076.78	1/4	2,710.19
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,823.02	1/2	4,495.37	1/2	4,160.49	1/2	3,802.31	1/2	3,435.72	1/2	3,069.14	1/2	2,702.55
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,816.19	3/4	4,488.64	3/4	4,153.23	3/4	3,794.67	3/4	3,428.09	3/4	3,061.50	3/4	2,694.92
1	1	1	1	1	1	1	1	1	4,809.35	1	4,481.92	1	4,145.98	1	3,787.04	1	3,420.45	1	3,053.86	1	2,687.28
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,802.52	1/4	4,475.19	1/4	4,138.72	1/4	3,779.40	1/4	3,412.81	1/4	3,046.23	1/4	2,679.64
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,795.04	1/2	4,468.43	1/2	4,131.42	1/2	3,771.76	1/2	3,405.18	1/2	3,038.59	1/2	2,672.00
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,787.57	3/4	4,461.67	3/4	4,124.13	3/4	3,764.12	3/4	3,397.54	3/4	3,030.95	3/4	2,664.37
2	2	2	2	2	2	2	2	2	4,780.10	2	4,454.91	2	4,116.83	2	3,756.49	2	3,389.90	2	3,023.32	2	2,656.73
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,772.63	1/4	4,448.15	1/4	4,109.54	1/4	3,748.85	1/4	3,382.26	1/4	3,015.68	1/4	2,649.09
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,765.08	1/2	4,441.35	1/2	4,102.21	1/2	3,741.21	1/2	3,374.63	1/2	3,008.04	1/2	2,641.46
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,757.52	3/4	4,434.55	3/4	4,094.88	3/4	3,733.58	3/4	3,366.99	3/4	3,000.40	3/4	2,633.82
3	3	3	3	3	3	3	3	3	4,749.97	3	4,427.75	3	4,087.54	3	3,725.94	3	3,359.35	3	2,992.77	3	2,626.18
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,742.42	1/4	4,420.95	1/4	4,080.21	1/4	3,718.30	1/4	3,351.72	1/4	2,985.13	1/4	2,618.54
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,735.14	1/2	4,414.11	1/2	4,072.85	1/2	3,710.66	1/2	3,344.08	1/2	2,977.49	1/2	2,610.91
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,727.87	3/4	4,407.28	3/4	4,065.49	3/4	3,703.03	3/4	3,336.44	3/4	2,969.85	3/4	2,603.27
4	4	4	4	4	4	4	4	4	4,720.60	4	4,400.44	4	4,058.12	4	3,695.39	4	3,328.80	4	2,962.22	4	2,595.63
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,713.33	1/4	4,393.60	1/4	4,050.76	1/4	3,687.75	1/4	3,321.17	1/4	2,954.58	1/4	2,587.99
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,706.60	1/2	4,386.73	1/2	4,043.36	1/2	3,680.11	1/2	3,313.53	1/2	2,946.94	1/2	2,580.36
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,699.88	3/4	4,379.85	3/4	4,035.96	3/4	3,672.48	3/4	3,305.89	3/4	2,939.31	3/4	2,572.72
5	5	5	5	5	5	5	5	5	4,693.16	5	4,372.98	5	4,028.56	5	3,664.84	5	3,298.25	5	2,931.67	5	2,565.08
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,686.43	1/4	4,366.11	1/4	4,021.17	1/4	3,657.20	1/4	3,290.62	1/4	2,924.03	1/4	2,557.45
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,679.96	1/2	4,359.20	1/2	4,013.73	1/2	3,649.57	1/2	3,282.98	1/2	2,916.39	1/2	2,549.81
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,673.49	3/4	4,352.28	3/4	4,006.29	3/4	3,641.93	3/4	3,275.34	3/4	2,908.76	3/4	2,542.17
6	6	6	6	6	6	6	6	6	4,667.02	6	4,345.37	6	3,998.86	6	3,634.29	6	3,267.71	6	2,901.12	6	2,534.53
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,660.55	1/4	4,338.46	1/4	3,991.42	1/4	3,626.65	1/4	3,260.07	1/4	2,893.48	1/4	2,526.90
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,654.04	1/2	4,331.49	1/2	3,983.95	1/2	3,619.02	1/2	3,252.43	1/2	2,885.85	1/2	2,519.26
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,647.53	3/4	4,324.52	3/4	3,976.48	3/4	3,611.38	3/4	3,244.79	3/4	2,878.21	3/4	2,511.62
7	7	7	7	7	7	7	7	7	4,641.02	7	4,317.55	7	3,969.00	7	3,603.74	7	3,237.16	7	2,870.57	7	2,503.99
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,634.51	1/4	4,310.58	1/4	3,961.53	1/4	3,596.11	1/4	3,229.52	1/4	2,862.93	1/4	2,496.35
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,627.97	1/2	4,303.53	1/2	3,954.02	1/2	3,588.47	1/2	3,221.88	1/2	2,855.30	1/2	2,488.71
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,621.42	3/4	4,296.48	3/4	3,946.51	3/4	3,580.83	3/4	3,214.25	3/4	2,847.66	3/4	2,481.07
8	8	8	8	8	8	8	8	8	4,614.87	8	4,289.43	8	3,939.00	8	3,573.19	8	3,206.61	8	2,840.02	8	2,473.44
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,608.33	1/4	4,282.38	1/4	3,931.49	1/4	3,565.56	1/4	3,198.97	1/4	2,832.39	1/4	2,465.80
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,601.74	1/2	4,275.27	1/2	3,923.94	1/2	3,557.92	1/2	3,191.33	1/2	2,824.75	1/2	2,458.16
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,595.16	3/4	4,268.17	3/4	3,916.39	3/4	3,550.28	3/4	3,183.70	3/4	2,817.11	3/4	2,450.53
9	9	9	9	9	9	9	9	9	4,588.58	9	4,261.06	9	3,908.84	9	3,542.65	9	3,176.06	9	2,809.47	9	2,442.89
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,581.99	1/4	4,253.95	1/4	3,901.29	1/4	3,535.01	1/4	3,168.42	1/4	2,801.84	1/4	2,435.25
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,575.37	1/2	4,246.80	1/2	3,893.71	1/2	3,527.37	1/2	3,160.78	1/2	2,794.20	1/2	2,427.61
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,568.75	3/4	4,239.66	3/4	3,886.12	3/4	3,519.73	3/4	3,153.15	3/4	2,786.56	3/4	2,419.98
10	10	10	10	10	10	10	10	10	4,562.13	10	4,232.51	10	3,878.54	10	3,512.10	10	3,145.51	10	2,778.92	10	2,412.34
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,555.51	1/4	4,225.37	1/4	3,870.95	1/4	3,504.46	1/4	3,137.87	1/4	2,771.29	1/4	2,404.70
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,548.85	1/2	4,218.18	1/2	3,863.33	1/2	3,496.82	1/2	3,130.24	1/2	2,763.65	1/2	2,397.06
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,542.19	3/4	4,211.00	3/4	3,855.72	3/4	3,489.18	3/4	3,122.60	3/4	2,756.01	3/4	2,389.43
11	11	11	11	11	11	11	11	11	4,535.53	11	4,203.82	11	3,848.10	11	3,481.55	11	3,114.96	11	2,748.38	11	2,381.79
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,528.87	1/4	4,196.63	1/4	3,840.48	1/4	3,473.91	1/4	3,107.32	1/4	2,740.74	1/4	2,374.15
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,522.18	1/2	4,189.41	1/2	3,832.85	1/2	3,466.27	1/2	3,099.69	1/2	2,733.10	1/2	2,366.52
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,515.49	3/4	4,182.19	3/4	3,825.21	3/4	3,458.64	3/4	3,092.05	3/4	2,725.46	3/4	2,358.88

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'-06" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



BARGE "KIRBY 28170"

1 STBD ULLAGE TABLE

CAPACITIES GIVEN IN 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.	
0	2,351.24	0	1,984.66	0	1,618.06	0	1,252.12	0	886.55	0	520.01	0	174.95	0		0		0	
1/4	2,343.60	1/4	1,977.02	1/4	1,610.42	1/4	1,244.48	1/4	878.94	1/4	512.37	1/4	168.24	1/4	1/4		1/4	1/4	
1/2	2,335.97	1/2	1,969.39	1/2	1,602.79	1/2	1,236.84	1/2	871.31	1/2	504.75	1/2	161.63	1/2	1/2		1/2	1/2	
3/4	2,328.33	3/4	1,961.75	3/4	1,595.15	3/4	1,229.20	3/4	863.69	3/4	497.14	3/4	155.01	3/4	3/4		3/4	3/4	
1	2,320.69	1	1,954.11	1	1,587.51	1	1,221.56	1	856.06	1	489.52	1	148.39	1	1		1	1	
1/4	2,313.06	1/4	1,946.47	1/4	1,579.87	1/4	1,213.92	1/4	848.44	1/4	481.90	1/4	141.78	1/4	1/4		1/4	1/4	
1/2	2,305.42	1/2	1,938.84	1/2	1,572.24	1/2	1,206.29	1/2	840.80	1/2	474.35	1/2	135.25	1/2	1/2		1/2	1/2	
3/4	2,297.78	3/4	1,931.20	3/4	1,564.60	3/4	1,198.65	3/4	833.16	3/4	466.80	3/4	128.73	3/4	3/4		3/4	3/4	
2	2,290.14	2	1,923.56	2	1,556.96	2	1,191.01	2	825.53	2	459.24	2	122.20	2	2		2	2	
1/4	2,282.51	1/4	1,915.92	1/4	1,549.32	1/4	1,183.37	1/4	817.89	1/4	451.69	1/4	115.68	1/4	1/4		1/4	1/4	
1/2	2,274.87	1/2	1,908.29	1/2	1,541.69	1/2	1,175.75	1/2	810.25	1/2	444.22	1/2	109.25	1/2	1/2		1/2	1/2	
3/4	2,267.23	3/4	1,900.65	3/4	1,534.05	3/4	1,168.12	3/4	802.61	3/4	436.75	3/4	102.82	3/4	3/4		3/4	3/4	
3	2,259.60	3	1,893.01	3	1,526.41	3	1,160.50	3	794.97	3	429.28	3	96.40	3	3		3	3	
1/4	2,251.96	1/4	1,885.37	1/4	1,518.77	1/4	1,152.87	1/4	787.34	1/4	421.82	1/4	89.97	1/4	1/4		1/4	1/4	
1/2	2,244.32	1/2	1,877.74	1/2	1,511.14	1/2	1,145.26	1/2	779.70	1/2	414.43	1/2	83.65	1/2	1/2		1/2	1/2	
3/4	2,236.68	3/4	1,870.10	3/4	1,503.50	3/4	1,137.65	3/4	772.06	3/4	407.05	3/4	77.32	3/4	3/4		3/4	3/4	
4	2,229.05	4	1,862.46	4	1,495.86	4	1,130.04	4	764.42	4	399.67	4	71.00	4	4		4	4	
1/4	2,221.41	1/4	1,854.82	1/4	1,488.22	1/4	1,122.43	1/4	756.78	1/4	392.28	1/4	64.68	1/4	1/4		1/4	1/4	
1/2	2,213.77	1/2	1,847.19	1/2	1,480.60	1/2	1,114.82	1/2	749.15	1/2	384.98	1/2	58.48	1/2	1/2		1/2	1/2	
3/4	2,206.13	3/4	1,839.55	3/4	1,472.98	3/4	1,107.21	3/4	741.51	3/4	377.68	3/4	52.27	3/4	3/4		3/4	3/4	
5	2,198.50	5	1,831.91	5	1,465.35	5	1,099.60	5	733.87	5	370.39	5	46.07	5	5		5	5	
1/4	2,190.86	1/4	1,824.27	1/4	1,457.73	1/4	1,091.99	1/4	726.23	1/4	363.09	1/4	39.86	1/4	1/4		1/4	1/4	
1/2	2,183.22	1/2	1,816.64	1/2	1,450.12	1/2	1,084.38	1/2	718.60	1/2	355.87	1/2	34.36	1/2	1/2		1/2	1/2	
3/4	2,175.59	3/4	1,809.00	3/4	1,442.51	3/4	1,076.77	3/4	710.96	3/4	348.66	3/4	28.85	3/4	3/4		3/4	3/4	
6	2,167.95	6	1,801.36	6	1,434.90	6	1,069.17	6	703.32	6	341.45	6	23.34	6	6		6	6	
1/4	2,160.31	1/4	1,793.72	1/4	1,427.29	1/4	1,061.56	1/4	695.68	1/4	334.23	1/4	17.83	1/4	1/4		1/4	1/4	
1/2	2,152.67	1/2	1,786.09	1/2	1,419.68	1/2	1,053.95	1/2	688.04	1/2	327.10	1/2	14.27	1/2	1/2		1/2	1/2	
3/4	2,145.04	3/4	1,778.45	3/4	1,412.07	3/4	1,046.34	3/4	680.41	3/4	319.98	3/4	10.71	3/4	3/4		3/4	3/4	
7	2,137.40	7	1,770.81	7	1,404.46	7	1,038.73	7	672.77	7	312.85	7	7.15	7	7		7	7	
1/4	2,129.76	1/4	1,763.17	1/4	1,396.85	1/4	1,031.12	1/4	665.13	1/4	305.72	1/4	3.59	1/4	1/4		1/4	1/4	
1/2	2,122.13	1/2	1,755.54	1/2	1,389.24	1/2	1,023.51	1/2	657.49	1/2	298.67	1/2		1/2	1/2		1/2	1/2	
3/4	2,114.49	3/4	1,747.90	3/4	1,381.63	3/4	1,015.90	3/4	649.86	3/4	291.63	3/4		3/4	3/4		3/4	3/4	
8	2,106.85	8	1,740.26	8	1,374.02	8	1,008.30	8	642.22	8	284.59	8		8	8		8	8	
1/4	2,099.21	1/4	1,732.62	1/4	1,366.41	1/4	1,000.69	1/4	634.58	1/4	277.54	1/4		1/4	1/4		1/4	1/4	
1/2	2,091.58	1/2	1,724.99	1/2	1,358.80	1/2	993.08	1/2	626.94	1/2	270.58	1/2		1/2	1/2		1/2	1/2	
3/4	2,083.94	3/4	1,717.35	3/4	1,351.19	3/4	985.47	3/4	619.30	3/4	263.63	3/4		3/4	3/4		3/4	3/4	
9	2,076.30	9	1,709.71	9	1,343.58	9	977.86	9	611.67	9	256.67	9		9	9		9	9	
1/4	2,068.67	1/4	1,702.07	1/4	1,335.97	1/4	970.25	1/4	604.03	1/4	249.71	1/4		1/4	1/4		1/4	1/4	
1/2	2,061.03	1/2	1,694.44	1/2	1,328.36	1/2	962.64	1/2	596.39	1/2	242.83	1/2		1/2	1/2		1/2	1/2	
3/4	2,053.39	3/4	1,686.80	3/4	1,320.75	3/4	955.03	3/4	588.75	3/4	235.96	3/4		3/4	3/4		3/4	3/4	
10	2,045.75	10	1,679.16	10	1,313.14	10	947.43	10	581.11	10	229.09	10		10	10		10	10	
1/4	2,038.12	1/4	1,671.52	1/4	1,305.53	1/4	939.82	1/4	573.48	1/4	222.21	1/4		1/4	1/4		1/4	1/4	
1/2	2,030.48	1/2	1,663.89	1/2	1,297.90	1/2	932.21	1/2	565.84	1/2	215.42	1/2		1/2	1/2		1/2	1/2	
3/4	2,022.84	3/4	1,656.25	3/4	1,290.28	3/4	924.60	3/4	558.20	3/4	208.63	3/4		3/4	3/4		3/4	3/4	
11	2,015.20	11	1,648.61	11	1,282.65	11	916.99	11	550.56	11	201.85	11		11	11		11	11	
1/4	2,007.57	1/4	1,640.97	1/4	1,275.03	1/4	909.38	1/4	542.92	1/4	195.06	1/4		1/4	1/4		1/4	1/4	
1/2	1,999.93	1/2	1,633.34	1/2	1,267.39	1/2	901.77	1/2	535.28	1/2	188.35	1/2		1/2	1/2		1/2	1/2	
3/4	1,992.30	3/4	1,625.70	3/4	1,259.75	3/4	894.16	3/4	527.65	3/4	181.65	3/4		3/4	3/4		3/4	3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 04/21/2011 CL - SW
CALCULATED: 04/21/2011 CL
PRINTED: 04/21/2011 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 04/2011

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



BARGE "KIRBY 28170"

2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN 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	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT
0		0		0		0	4,849.62	0	4,525.24	0	4,193.80	0	3,838.94	0	3,474.96	0	3,110.99	0	2,747.01
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,844.02	1/4	4,518.59	1/4	4,186.63	1/4	3,831.35	1/4	3,467.38	1/4	3,103.41	1/4	2,739.43
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,837.23	1/2	4,511.92	1/2	4,179.42	1/2	3,823.77	1/2	3,459.80	1/2	3,095.82	1/2	2,731.85
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,830.45	3/4	4,505.24	3/4	4,172.21	3/4	3,816.19	3/4	3,452.21	3/4	3,088.24	3/4	2,724.27
1		1		1		1	4,823.66	1	4,498.56	1	4,165.01	1	3,808.61	1	3,444.63	1	3,080.66	1	2,716.68
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,816.87	1/4	4,491.88	1/4	4,157.80	1/4	3,801.02	1/4	3,437.05	1/4	3,073.07	1/4	2,709.10
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,809.45	1/2	4,485.17	1/2	4,150.56	1/2	3,793.44	1/2	3,429.47	1/2	3,065.49	1/2	2,701.52
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,802.03	3/4	4,478.45	3/4	4,143.31	3/4	3,785.86	3/4	3,421.88	3/4	3,057.91	3/4	2,693.93
2		2		2		2	4,794.61	2	4,471.74	2	4,136.07	2	3,778.27	2	3,414.30	2	3,050.33	2	2,686.35
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,787.19	1/4	4,465.03	1/4	4,128.83	1/4	3,770.69	1/4	3,406.72	1/4	3,042.74	1/4	2,678.77
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,779.69	1/2	4,458.28	1/2	4,121.55	1/2	3,763.11	1/2	3,399.13	1/2	3,035.16	1/2	2,671.19
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,772.20	3/4	4,451.53	3/4	4,114.27	3/4	3,755.53	3/4	3,391.55	3/4	3,027.58	3/4	2,663.60
3		3		3		3	4,764.70	3	4,444.78	3	4,106.99	3	3,747.94	3	3,383.97	3	3,019.99	3	2,656.02
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,757.20	1/4	4,438.02	1/4	4,099.71	1/4	3,740.36	1/4	3,376.39	1/4	3,012.41	1/4	2,648.44
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,749.98	1/2	4,431.24	1/2	4,092.40	1/2	3,732.78	1/2	3,368.80	1/2	3,004.83	1/2	2,640.85
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,742.76	3/4	4,424.45	3/4	4,085.09	3/4	3,725.20	3/4	3,361.22	3/4	2,997.25	3/4	2,633.27
4		4		4		4	4,735.54	4	4,417.66	4	4,077.78	4	3,717.61	4	3,353.64	4	2,989.66	4	2,625.69
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,728.32	1/4	4,410.87	1/4	4,070.47	1/4	3,710.03	1/4	3,346.06	1/4	2,982.08	1/4	2,618.11
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,721.64	1/2	4,404.05	1/2	4,063.12	1/2	3,702.45	1/2	3,338.47	1/2	2,974.50	1/2	2,610.52
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,714.97	3/4	4,397.22	3/4	4,055.78	3/4	3,694.86	3/4	3,330.89	3/4	2,966.92	3/4	2,602.94
5		5		5		5	4,708.29	5	4,390.40	5	4,048.43	5	3,687.28	5	3,323.31	5	2,959.33	5	2,595.36
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,701.62	1/4	4,383.57	1/4	4,041.08	1/4	3,679.70	1/4	3,315.72	1/4	2,951.75	1/4	2,587.78
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,695.19	1/2	4,376.71	1/2	4,033.70	1/2	3,672.12	1/2	3,308.14	1/2	2,944.17	1/2	2,580.19
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,688.77	3/4	4,369.85	3/4	4,026.32	3/4	3,664.53	3/4	3,300.56	3/4	2,936.58	3/4	2,572.61
6		6		6		6	4,682.34	6	4,362.99	6	4,018.93	6	3,656.95	6	3,292.98	6	2,929.00	6	2,565.03
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,675.91	1/4	4,356.13	1/4	4,011.55	1/4	3,649.37	1/4	3,285.39	1/4	2,921.42	1/4	2,557.44
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,669.45	1/2	4,349.21	1/2	4,004.13	1/2	3,641.78	1/2	3,277.81	1/2	2,913.84	1/2	2,549.86
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,662.99	3/4	4,342.29	3/4	3,996.71	3/4	3,634.20	3/4	3,270.23	3/4	2,906.25	3/4	2,542.28
7		7		7		7	4,656.53	7	4,335.37	7	3,989.29	7	3,626.62	7	3,262.64	7	2,898.67	7	2,534.70
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,650.06	1/4	4,328.45	1/4	3,981.87	1/4	3,619.04	1/4	3,255.06	1/4	2,891.09	1/4	2,527.11
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,643.57	1/2	4,321.45	1/2	3,974.41	1/2	3,611.45	1/2	3,247.48	1/2	2,883.50	1/2	2,519.53
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,637.07	3/4	4,314.45	3/4	3,966.96	3/4	3,603.87	3/4	3,239.90	3/4	2,875.92	3/4	2,511.95
8		8		8		8	4,630.57	8	4,307.45	8	3,959.50	8	3,596.29	8	3,232.31	8	2,868.34	8	2,504.36
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,624.07	1/4	4,300.45	1/4	3,952.04	1/4	3,588.70	1/4	3,224.73	1/4	2,860.76	1/4	2,496.78
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,617.53	1/2	4,293.39	1/2	3,944.55	1/2	3,581.12	1/2	3,217.15	1/2	2,853.17	1/2	2,489.20
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,610.99	3/4	4,286.33	3/4	3,937.05	3/4	3,573.54	3/4	3,209.56	3/4	2,845.59	3/4	2,481.62
9		9		9		9	4,604.46	9	4,279.27	9	3,929.56	9	3,565.96	9	3,201.98	9	2,838.01	9	2,474.03
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,597.92	1/4	4,272.21	1/4	3,922.06	1/4	3,558.37	1/4	3,194.40	1/4	2,830.42	1/4	2,466.45
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,591.35	1/2	4,265.12	1/2	3,914.53	1/2	3,550.79	1/2	3,186.82	1/2	2,822.84	1/2	2,458.87
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,584.77	3/4	4,258.02	3/4	3,907.00	3/4	3,543.21	3/4	3,179.23	3/4	2,815.26	3/4	2,451.28
10		10		10		10	4,578.20	10	4,250.93	10	3,899.47	10	3,535.63	10	3,171.65	10	2,807.68	10	2,443.70
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,571.62	1/4	4,243.83	1/4	3,891.94	1/4	3,528.04	1/4	3,164.07	1/4	2,800.09	1/4	2,436.12
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,565.01	1/2	4,236.70	1/2	3,884.37	1/2	3,520.46	1/2	3,156.49	1/2	2,792.51	1/2	2,428.54
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,558.40	3/4	4,229.57	3/4	3,876.81	3/4	3,512.88	3/4	3,148.90	3/4	2,784.93	3/4	2,420.95
11		11		11		11	4,551.79	11	4,222.44	11	3,869.25	11	3,505.29	11	3,141.32	11	2,777.35	11	2,413.37
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,545.18	1/4	4,215.31	1/4	3,861.68	1/4	3,497.71	1/4	3,133.74	1/4	2,769.76	1/4	2,405.79
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,538.53	1/2	4,208.14	1/2	3,854.10	1/2	3,490.13	1/2	3,126.15	1/2	2,762.18	1/2	2,398.21
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,531.89	3/4	4,200.97	3/4	3,846.52	3/4	3,482.55	3/4	3,118.57	3/4	2,754.60	3/4	2,390.62

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 52'-06" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "KIRBY 28170"

2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-07 1/4"

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

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 04/21/2011 CL - SW
CALCULATED: 04/21/2011 CL
PRINTED: 04/21/2011 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 04/2011

PRECISION MEASUREMENT
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BARGE "KIRBY 28170"

2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN 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	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT		
0		0		0		0		0	4,540.93	0	4,209.48	0	3,854.62	0	3,490.65	0	3,126.67	0	2,762.70		
1/4		1/4		1/4		1/4		1/4	4,859.72	1/4	4,534.29	1/4	4,202.31	1/4	3,847.04	1/4	3,483.07	1/4	3,119.09	1/4	2,755.12
1/2		1/2		1/2		1/2		1/2	4,852.93	1/2	4,527.61	1/2	4,195.11	1/2	3,839.46	1/2	3,475.48	1/2	3,111.51	1/2	2,747.53
3/4		3/4		3/4		3/4		3/4	4,846.14	3/4	4,520.93	3/4	4,187.90	3/4	3,831.87	3/4	3,467.90	3/4	3,103.93	3/4	2,739.95
1		1		1		1		1	4,839.35	1	4,514.25	1	4,180.69	1	3,824.29	1	3,460.32	1	3,096.34	1	2,732.37
1/4		1/4		1/4		1/4		1/4	4,832.57	1/4	4,507.57	1/4	4,173.49	1/4	3,816.71	1/4	3,452.73	1/4	3,088.76	1/4	2,724.79
1/2		1/2		1/2		1/2		1/2	4,825.15	1/2	4,500.86	1/2	4,166.24	1/2	3,809.13	1/2	3,445.15	1/2	3,081.18	1/2	2,717.20
3/4		3/4		3/4		3/4		3/4	4,817.73	3/4	4,494.14	3/4	4,159.00	3/4	3,801.54	3/4	3,437.57	3/4	3,073.59	3/4	2,709.62
2		2		2		2		2	4,810.31	2	4,487.43	2	4,151.76	2	3,793.96	2	3,429.99	2	3,066.01	2	2,702.04
1/4		1/4		1/4		1/4		1/4	4,802.89	1/4	4,480.72	1/4	4,144.51	1/4	3,786.38	1/4	3,422.40	1/4	3,058.43	1/4	2,694.45
1/2		1/2		1/2		1/2		1/2	4,795.39	1/2	4,473.97	1/2	4,137.23	1/2	3,778.79	1/2	3,414.82	1/2	3,050.85	1/2	2,686.87
3/4		3/4		3/4		3/4		3/4	4,787.89	3/4	4,467.22	3/4	4,129.96	3/4	3,771.21	3/4	3,407.24	3/4	3,043.26	3/4	2,679.29
3		3		3		3		3	4,780.39	3	4,460.46	3	4,122.68	3	3,763.63	3	3,399.65	3	3,035.68	3	2,671.71
1/4		1/4		1/4		1/4		1/4	4,772.89	1/4	4,453.71	1/4	4,115.40	1/4	3,756.05	1/4	3,392.07	1/4	3,028.10	1/4	2,664.12
1/2		1/2		1/2		1/2		1/2	4,765.67	1/2	4,446.93	1/2	4,108.09	1/2	3,748.46	1/2	3,384.49	1/2	3,020.51	1/2	2,656.54
3/4		3/4		3/4		3/4		3/4	4,758.45	3/4	4,440.14	3/4	4,100.78	3/4	3,740.88	3/4	3,376.91	3/4	3,012.93	3/4	2,648.96
4		4		4		4		4	4,751.23	4	4,433.35	4	4,093.47	4	3,733.30	4	3,369.32	4	3,005.35	4	2,641.37
1/4		1/4		1/4		1/4		1/4	4,744.01	1/4	4,426.56	1/4	4,086.15	1/4	3,725.72	1/4	3,361.74	1/4	2,997.77	1/4	2,633.79
1/2		1/2		1/2		1/2		1/2	4,737.34	1/2	4,419.74	1/2	4,078.81	1/2	3,718.13	1/2	3,354.16	1/2	2,990.18	1/2	2,626.21
3/4		3/4		3/4		3/4		3/4	4,730.66	3/4	4,412.91	3/4	4,071.46	3/4	3,710.55	3/4	3,346.58	3/4	2,982.60	3/4	2,618.63
5		5		5		5		5	4,723.99	5	4,406.09	5	4,064.12	5	3,702.97	5	3,338.99	5	2,975.02	5	2,611.04
1/4		1/4		1/4		1/4		1/4	4,717.31	1/4	4,399.26	1/4	4,056.77	1/4	3,695.38	1/4	3,331.41	1/4	2,967.44	1/4	2,603.46
1/2		1/2		1/2		1/2		1/2	4,710.89	1/2	4,392.40	1/2	4,049.39	1/2	3,687.80	1/2	3,323.83	1/2	2,959.85	1/2	2,595.88
3/4		3/4		3/4		3/4		3/4	4,704.46	3/4	4,385.54	3/4	4,042.00	3/4	3,680.22	3/4	3,316.24	3/4	2,952.27	3/4	2,588.30
6		6		6		6		6	4,698.03	6	4,378.68	6	4,034.62	6	3,672.64	6	3,308.66	6	2,944.69	6	2,580.71
1/4		1/4		1/4		1/4		1/4	4,691.61	1/4	4,371.82	1/4	4,027.24	1/4	3,665.05	1/4	3,301.08	1/4	2,937.10	1/4	2,573.13
1/2		1/2		1/2		1/2		1/2	4,685.15	1/2	4,364.89	1/2	4,019.82	1/2	3,657.47	1/2	3,293.50	1/2	2,929.52	1/2	2,565.55
3/4		3/4		3/4		3/4		3/4	4,678.68	3/4	4,357.97	3/4	4,012.40	3/4	3,649.89	3/4	3,285.91	3/4	2,921.94	3/4	2,557.96
7		7		7		7		7	4,672.22	7	4,351.05	7	4,004.98	7	3,642.30	7	3,278.33	7	2,914.36	7	2,550.38
1/4		1/4		1/4		1/4		1/4	4,665.76	1/4	4,344.13	1/4	3,997.56	1/4	3,634.72	1/4	3,270.75	1/4	2,906.77	1/4	2,542.80
1/2		1/2		1/2		1/2		1/2	4,659.26	1/2	4,337.13	1/2	3,990.10	1/2	3,627.14	1/2	3,263.16	1/2	2,899.19	1/2	2,535.22
3/4		3/4		3/4		3/4		3/4	4,652.76	3/4	4,330.13	3/4	3,982.64	3/4	3,619.56	3/4	3,255.58	3/4	2,891.61	3/4	2,527.63
8		8		8		8		8	4,646.26	8	4,323.13	8	3,975.18	8	3,611.97	8	3,248.00	8	2,884.02	8	2,520.05
1/4		1/4		1/4		1/4		1/4	4,639.76	1/4	4,316.13	1/4	3,967.73	1/4	3,604.39	1/4	3,240.42	1/4	2,876.44	1/4	2,512.47
1/2		1/2		1/2		1/2		1/2	4,633.22	1/2	4,309.08	1/2	3,960.23	1/2	3,596.81	1/2	3,232.83	1/2	2,868.86	1/2	2,504.88
3/4		3/4		3/4		3/4		3/4	4,626.69	3/4	4,302.02	3/4	3,952.74	3/4	3,589.22	3/4	3,225.25	3/4	2,861.28	3/4	2,497.30
9		9		9		9		9	4,620.15	9	4,294.96	9	3,945.24	9	3,581.64	9	3,217.67	9	2,853.69	9	2,489.72
1/4		1/4		1/4		1/4		1/4	4,613.61	1/4	4,287.90	1/4	3,937.75	1/4	3,574.06	1/4	3,210.08	1/4	2,846.11	1/4	2,482.14
1/2		1/2		1/2		1/2		1/2	4,607.04	1/2	4,280.81	1/2	3,930.22	1/2	3,566.48	1/2	3,202.50	1/2	2,838.53	1/2	2,474.55
3/4		3/4		3/4		3/4		3/4	4,600.46	3/4	4,273.71	3/4	3,922.68	3/4	3,558.89	3/4	3,194.92	3/4	2,830.94	3/4	2,466.97
10		10		10		10		10	4,593.89	10	4,266.62	10	3,915.15	10	3,551.31	10	3,187.34	10	2,823.36	10	2,459.39
1/4		1/4		1/4		1/4		1/4	4,587.31	1/4	4,259.52	1/4	3,907.62	1/4	3,543.73	1/4	3,179.75	1/4	2,815.78	1/4	2,451.80
1/2		1/2		1/2		1/2		1/2	4,580.70	1/2	4,252.39	1/2	3,900.06	1/2	3,536.15	1/2	3,172.17	1/2	2,808.20	1/2	2,444.22
3/4		3/4		3/4		3/4		3/4	4,574.09	3/4	4,245.26	3/4	3,892.50	3/4	3,528.56	3/4	3,164.59	3/4	2,800.61	3/4	2,436.64
11		11		11		11		11	4,567.48	11	4,238.12	11	3,884.93	11	3,520.98	11	3,157.01	11	2,793.03	11	2,429.06
1/4		1/4		1/4		1/4		1/4	4,560.87	1/4	4,230.99	1/4	3,877.37	1/4	3,513.40	1/4	3,149.42	1/4	2,785.45	1/4	2,421.47
1/2		1/2		1/2		1/2		1/2	4,554.22	1/2	4,223.82	1/2	3,869.79	1/2	3,505.81	1/2	3,141.84	1/2	2,777.87	1/2	2,413.89
3/4		3/4		3/4		3/4		3/4	4,547.58	3/4	4,216.65	3/4	3,862.20	3/4	3,498.23	3/4	3,134.26	3/4	2,770.28	3/4	2,406.31

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'-06" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



BARGE "KIRBY 28170"

2 STBD ULLAGE TABLE

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

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 04/21/2011 CL - SW
CALCULATED: 04/21/2011 CL
PRINTED: 04/21/2011 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 04/2011

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



BARGE "KIRBY 28170"

3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN 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	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT
0		0		0		0		0	4,209.63	0	3,948.92	0	3,674.31	0	3,393.50	0	3,032.19	0	2,668.74
1/4		1/4		1/4		1/4	4,459.12	1/4	4,204.33	1/4	3,943.31	1/4	3,668.48	1/4	3,386.79	1/4	3,024.62	1/4	2,661.17
1/2		1/2		1/2		1/2	4,454.40	1/2	4,199.04	1/2	3,937.70	1/2	3,662.65	1/2	3,380.07	1/2	3,017.04	1/2	2,653.59
3/4		3/4		3/4		3/4	4,449.67	3/4	4,193.75	3/4	3,932.09	3/4	3,656.82	3/4	3,373.36	3/4	3,009.47	3/4	2,646.02
1		1		1		1	4,444.63	1	4,188.45	1	3,926.46	1	3,650.99	1	3,365.77	1	3,001.90	1	2,638.45
1/4		1/4		1/4		1/4	4,439.59	1/4	4,183.14	1/4	3,920.83	1/4	3,645.16	1/4	3,358.18	1/4	2,994.33	1/4	2,630.88
1/2		1/2		1/2		1/2	4,434.56	1/2	4,177.83	1/2	3,915.20	1/2	3,639.33	1/2	3,350.59	1/2	2,986.76	1/2	2,623.31
3/4		3/4		3/4		3/4	4,429.52	3/4	4,172.52	3/4	3,909.57	3/4	3,633.49	3/4	3,343.00	3/4	2,979.19	3/4	2,615.73
2		2		2		2	4,423.85	2	4,167.20	2	3,903.91	2	3,627.66	2	3,335.40	2	2,971.61	2	2,608.16
1/4		1/4		1/4		1/4	4,418.18	1/4	4,161.87	1/4	3,898.26	1/4	3,621.83	1/4	3,327.81	1/4	2,964.04	1/4	2,600.59
1/2		1/2		1/2		1/2	4,412.51	1/2	4,156.54	1/2	3,892.61	1/2	3,616.00	1/2	3,320.22	1/2	2,956.47	1/2	2,593.02
3/4		3/4		3/4		3/4	4,406.84	3/4	4,151.22	3/4	3,886.96	3/4	3,610.17	3/4	3,312.63	3/4	2,948.90	3/4	2,585.45
3		3		3		3	4,401.10	3	4,145.87	3	3,881.30	3	3,604.33	3	3,305.04	3	2,941.33	3	2,577.87
1/4		1/4		1/4		1/4	4,395.35	1/4	4,140.52	1/4	3,875.63	1/4	3,598.50	1/4	3,297.44	1/4	2,933.75	1/4	2,570.30
1/2		1/2		1/2		1/2	4,389.60	1/2	4,135.18	1/2	3,869.96	1/2	3,592.67	1/2	3,289.85	1/2	2,926.18	1/2	2,562.73
3/4		3/4		3/4		3/4	4,383.85	3/4	4,129.83	3/4	3,864.29	3/4	3,586.84	3/4	3,282.26	3/4	2,918.61	3/4	2,555.16
4		4		4		4	4,378.26	4	4,124.47	4	3,858.60	4	3,581.01	4	3,274.67	4	2,911.04	4	2,547.59
1/4		1/4		1/4		1/4	4,372.66	1/4	4,119.10	1/4	3,852.92	1/4	3,575.17	1/4	3,267.08	1/4	2,903.47	1/4	2,540.02
1/2		1/2		1/2		1/2	4,367.06	1/2	4,113.73	1/2	3,847.23	1/2	3,569.34	1/2	3,259.48	1/2	2,895.89	1/2	2,532.44
3/4		3/4		3/4		3/4	4,361.46	3/4	4,108.37	3/4	3,841.54	3/4	3,563.51	3/4	3,251.89	3/4	2,888.32	3/4	2,524.87
5		5		5		5	4,356.15	5	4,102.98	5	3,835.84	5	3,557.68	5	3,244.30	5	2,880.75	5	2,517.30
1/4		1/4		1/4		1/4	4,350.85	1/4	4,097.59	1/4	3,830.13	1/4	3,551.85	1/4	3,236.71	1/4	2,873.18	1/4	2,509.73
1/2		1/2		1/2		1/2	4,345.54	1/2	4,092.21	1/2	3,824.43	1/2	3,546.01	1/2	3,229.12	1/2	2,865.61	1/2	2,502.16
3/4		3/4		3/4		3/4	4,340.24	3/4	4,086.82	3/4	3,818.72	3/4	3,540.18	3/4	3,221.52	3/4	2,858.04	3/4	2,494.58
6		6		6		6	4,335.06	6	4,081.42	6	3,813.00	6	3,534.35	6	3,213.94	6	2,850.46	6	2,487.01
1/4		1/4		1/4		1/4	4,329.89	1/4	4,076.01	1/4	3,807.27	1/4	3,528.52	1/4	3,206.36	1/4	2,842.89	1/4	2,479.44
1/2		1/2		1/2		1/2	4,324.72	1/2	4,070.60	1/2	3,801.55	1/2	3,522.68	1/2	3,198.78	1/2	2,835.32	1/2	2,471.87
3/4		3/4		3/4		3/4	4,319.55	3/4	4,065.20	3/4	3,795.83	3/4	3,516.85	3/4	3,191.20	3/4	2,827.75	3/4	2,464.30
7		7		7		7	4,314.36	7	4,059.75	7	3,790.08	7	3,511.02	7	3,183.63	7	2,820.18	7	2,456.72
1/4		1/4		1/4		1/4	4,309.17	1/4	4,054.30	1/4	3,784.34	1/4	3,505.19	1/4	3,176.05	1/4	2,812.60	1/4	2,449.15
1/2		1/2		1/2		1/2	4,303.97	1/2	4,048.86	1/2	3,778.59	1/2	3,499.36	1/2	3,168.48	1/2	2,805.03	1/2	2,441.58
3/4		3/4		3/4		3/4	4,298.78	3/4	4,043.41	3/4	3,772.85	3/4	3,493.52	3/4	3,160.91	3/4	2,797.46	3/4	2,434.01
8		8		8		8	4,293.57	8	4,037.90	8	3,767.08	8	3,487.69	8	3,153.34	8	2,789.89	8	2,426.44
1/4		1/4		1/4		1/4	4,288.36	1/4	4,032.39	1/4	3,761.32	1/4	3,481.86	1/4	3,145.77	1/4	2,782.32	1/4	2,418.86
1/2		1/2		1/2		1/2	4,283.15	1/2	4,026.88	1/2	3,755.55	1/2	3,476.03	1/2	3,138.20	1/2	2,774.74	1/2	2,411.29
3/4		3/4		3/4		3/4	4,277.93	3/4	4,021.37	3/4	3,749.79	3/4	3,470.20	3/4	3,130.62	3/4	2,767.17	3/4	2,403.72
9		9		9		9	4,272.70	9	4,015.82	9	3,744.00	9	3,464.36	9	3,123.05	9	2,759.60	9	2,396.15
1/4		1/4		1/4		1/4	4,267.47	1/4	4,010.27	1/4	3,738.22	1/4	3,458.53	1/4	3,115.48	1/4	2,752.03	1/4	2,388.58
1/2		1/2		1/2		1/2	4,262.24	1/2	4,004.72	1/2	3,732.43	1/2	3,452.70	1/2	3,107.91	1/2	2,744.46	1/2	2,381.01
3/4		3/4		3/4		3/4	4,257.01	3/4	3,999.17	3/4	3,726.65	3/4	3,446.87	3/4	3,100.34	3/4	2,736.88	3/4	2,373.43
10		10		10		10	4,251.76	10	3,993.60	10	3,720.84	10	3,441.04	10	3,092.76	10	2,729.31	10	2,365.86
1/4		1/4		1/4		1/4	4,246.50	1/4	3,988.03	1/4	3,715.04	1/4	3,435.20	1/4	3,085.19	1/4	2,721.74	1/4	2,358.29
1/2		1/2		1/2		1/2	4,241.25	1/2	3,982.46	1/2	3,709.23	1/2	3,429.37	1/2	3,077.62	1/2	2,714.17	1/2	2,350.72
3/4		3/4		3/4		3/4	4,236.00	3/4	3,976.89	3/4	3,703.43	3/4	3,423.54	3/4	3,070.05	3/4	2,706.60	3/4	2,343.15
11		11		11		11	4,230.73	11	3,971.30	11	3,697.61	11	3,417.71	11	3,062.48	11	2,699.03	11	2,335.57
1/4		1/4		1/4		1/4	4,225.46	1/4	3,965.71	1/4	3,691.79	1/4	3,411.87	1/4	3,054.90	1/4	2,691.45	1/4	2,328.00
1/2		1/2		1/2		1/2	4,220.19	1/2	3,960.12	1/2	3,685.96	1/2	3,406.04	1/2	3,047.33	1/2	2,683.88	1/2	2,320.43
3/4		3/4		3/4		3/4	4,214.92	3/4	3,954.53	3/4	3,680.14	3/4	3,400.21	3/4	3,039.76	3/4	2,676.31	3/4	2,312.86

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 28170"

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	2,305.29	0	1,941.84	0	1,578.44	0	1,219.52	0	865.17	0	508.64	0	144.49	0		0		0	
1/4	2,297.71	1/4	1,934.26	1/4	1,570.90	1/4	1,211.96	1/4	857.82	1/4	501.04	1/4	137.22	1/4		1/4		1/4	
1/2	2,290.14	1/2	1,926.69	1/2	1,563.35	1/2	1,204.40	1/2	850.46	1/2	493.45	1/2	129.94	1/2		1/2		1/2	
3/4	2,282.57	3/4	1,919.12	3/4	1,555.80	3/4	1,196.85	3/4	843.11	3/4	485.86	3/4	122.67	3/4		3/4		3/4	
1	2,275.00	1	1,911.55	1	1,548.25	1	1,189.29	1	835.74	1	478.27	1	116.34	1		1		1	
1/4	2,267.43	1/4	1,903.97	1/4	1,540.70	1/4	1,181.73	1/4	828.37	1/4	470.67	1/4	110.01	1/4		1/4		1/4	
1/2	2,259.85	1/2	1,896.40	1/2	1,533.15	1/2	1,174.18	1/2	821.00	1/2	463.08	1/2	103.69	1/2		1/2		1/2	
3/4	2,252.28	3/4	1,888.83	3/4	1,525.60	3/4	1,166.62	3/4	813.63	3/4	455.49	3/4	97.36	3/4		3/4		3/4	
2	2,244.71	2	1,881.26	2	1,518.06	2	1,159.17	2	806.24	2	447.89	2	92.31	2		2		2	
1/4	2,237.14	1/4	1,873.69	1/4	1,510.51	1/4	1,151.72	1/4	798.86	1/4	440.30	1/4	87.25	1/4		1/4		1/4	
1/2	2,229.57	1/2	1,866.11	1/2	1,502.96	1/2	1,144.26	1/2	791.48	1/2	432.71	1/2	82.20	1/2		1/2		1/2	
3/4	2,222.00	3/4	1,858.54	3/4	1,495.41	3/4	1,136.81	3/4	784.10	3/4	425.12	3/4	77.14	3/4		3/4		3/4	
3	2,214.42	3	1,850.97	3	1,487.86	3	1,129.47	3	776.71	3	417.52	3	73.36	3		3		3	
1/4	2,206.85	1/4	1,843.40	1/4	1,480.31	1/4	1,122.13	1/4	769.33	1/4	409.93	1/4	69.58	1/4		1/4		1/4	
1/2	2,199.28	1/2	1,835.83	1/2	1,472.76	1/2	1,114.78	1/2	761.95	1/2	402.34	1/2	65.80	1/2		1/2		1/2	
3/4	2,191.71	3/4	1,828.25	3/4	1,465.22	3/4	1,107.44	3/4	754.57	3/4	394.74	3/4	62.02	3/4		3/4		3/4	
4	2,184.14	4	1,820.68	4	1,457.75	4	1,100.10	4	747.19	4	387.15	4	59.53	4		4		4	
1/4	2,176.56	1/4	1,813.11	1/4	1,450.28	1/4	1,092.77	1/4	739.80	1/4	379.56	1/4	57.03	1/4		1/4		1/4	
1/2	2,168.99	1/2	1,805.54	1/2	1,442.81	1/2	1,085.43	1/2	732.42	1/2	371.97	1/2	54.54	1/2		1/2		1/2	
3/4	2,161.42	3/4	1,797.97	3/4	1,435.35	3/4	1,078.09	3/4	725.04	3/4	364.37	3/4	52.04	3/4		3/4		3/4	
5	2,153.85	5	1,790.39	5	1,427.95	5	1,070.76	5	717.66	5	356.78	5	50.85	5		5		5	
1/4	2,146.28	1/4	1,782.82	1/4	1,420.55	1/4	1,063.42	1/4	710.27	1/4	349.19	1/4	49.65	1/4		1/4		1/4	
1/2	2,138.70	1/2	1,775.25	1/2	1,413.15	1/2	1,056.09	1/2	702.89	1/2	341.59	1/2	48.45	1/2		1/2		1/2	
3/4	2,131.13	3/4	1,767.68	3/4	1,405.75	3/4	1,048.75	3/4	695.51	3/4	334.00	3/4	47.25	3/4		3/4		3/4	
6	2,123.56	6	1,760.10	6	1,398.34	6	1,041.42	6	688.13	6	326.41	6		6		6		6	
1/4	2,115.99	1/4	1,752.53	1/4	1,390.93	1/4	1,034.08	1/4	680.75	1/4	318.81	1/4		1/4		1/4		1/4	
1/2	2,108.42	1/2	1,744.96	1/2	1,383.52	1/2	1,026.75	1/2	673.36	1/2	311.22	1/2		1/2		1/2		1/2	
3/4	2,100.85	3/4	1,737.39	3/4	1,376.11	3/4	1,019.41	3/4	665.98	3/4	303.63	3/4		3/4		3/4		3/4	
7	2,093.27	7	1,729.82	7	1,368.69	7	1,012.08	7	658.60	7	296.04	7		7		7		7	
1/4	2,085.70	1/4	1,722.24	1/4	1,361.28	1/4	1,004.74	1/4	651.22	1/4	288.44	1/4		1/4		1/4		1/4	
1/2	2,078.13	1/2	1,714.67	1/2	1,353.87	1/2	997.41	1/2	643.83	1/2	280.85	1/2		1/2		1/2		1/2	
3/4	2,070.56	3/4	1,707.10	3/4	1,346.46	3/4	990.07	3/4	636.45	3/4	273.26	3/4		3/4		3/4		3/4	
8	2,062.99	8	1,699.53	8	1,339.05	8	982.74	8	629.07	8	265.66	8		8		8		8	
1/4	2,055.41	1/4	1,691.96	1/4	1,331.64	1/4	975.40	1/4	621.69	1/4	258.07	1/4		1/4		1/4		1/4	
1/2	2,047.84	1/2	1,684.38	1/2	1,324.23	1/2	968.07	1/2	614.31	1/2	250.48	1/2		1/2		1/2		1/2	
3/4	2,040.27	3/4	1,676.81	3/4	1,316.82	3/4	960.73	3/4	606.92	3/4	242.89	3/4		3/4		3/4		3/4	
9	2,032.70	9	1,669.24	9	1,309.41	9	953.39	9	599.44	9	235.29	9		9		9		9	
1/4	2,025.13	1/4	1,661.67	1/4	1,302.01	1/4	946.04	1/4	591.95	1/4	227.70	1/4		1/4		1/4		1/4	
1/2	2,017.55	1/2	1,654.10	1/2	1,294.61	1/2	938.70	1/2	584.46	1/2	220.11	1/2		1/2		1/2		1/2	
3/4	2,009.98	3/4	1,646.52	3/4	1,287.20	3/4	931.35	3/4	576.97	3/4	212.51	3/4		3/4		3/4		3/4	
10	2,002.41	10	1,638.95	10	1,279.73	10	924.00	10	569.38	10	204.92	10		10		10		10	
1/4	1,994.84	1/4	1,631.38	1/4	1,272.25	1/4	916.65	1/4	561.79	1/4	197.33	1/4		1/4		1/4		1/4	
1/2	1,987.27	1/2	1,623.81	1/2	1,264.78	1/2	909.29	1/2	554.19	1/2	189.74	1/2		1/2		1/2		1/2	
3/4	1,979.69	3/4	1,616.24	3/4	1,257.30	3/4	901.94	3/4	546.60	3/4	182.14	3/4		3/4		3/4		3/4	
11	1,972.12	11	1,608.67	11	1,249.74	11	894.59	11	539.01	11	174.55	11		11		11		11	
1/4	1,964.55	1/4	1,601.11	1/4	1,242.19	1/4	887.23	1/4	531.42	1/4	166.96	1/4		1/4		1/4		1/4	
1/2	1,956.98	1/2	1,593.55	1/2	1,234.63	1/2	879.88	1/2	523.82	1/2	159.36	1/2		1/2		1/2		1/2	
3/4	1,949.41	3/4	1,585.99	3/4	1,227.07	3/4	872.53	3/4	516.23	3/4	151.77	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 04/21/2011 CL - SW
CALCULATED: 04/21/2011 CL
PRINTED: 04/21/2011 CL

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BARGE "KIRBY 28170"

3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-05 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	4,481.99	0	4,227.20	0	3,966.18	0	3,691.35	0	3,409.66	0	3,047.01	0	2,682.59		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,477.27	1/4	4,221.91	1/4	3,960.57	1/4	3,685.52	1/4	3,402.94	1/4	3,039.41	1/4	2,675.00		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,472.54	1/2	4,216.62	1/2	3,954.96	1/2	3,679.69	1/2	3,396.23	1/2	3,031.82	1/2	2,667.41		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,467.50	3/4	4,211.32	3/4	3,949.33	3/4	3,673.86	3/4	3,388.64	3/4	3,024.23	3/4	2,659.82		
1		1		1		1	4,462.46	1	4,206.01	1	3,943.70	1	3,668.03	1	3,381.05	1	3,016.64	1	2,652.23		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,457.43	1/4	4,200.70	1/4	3,938.07	1/4	3,662.20	1/4	3,373.46	1/4	3,009.05	1/4	2,644.63		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,452.39	1/2	4,195.39	1/2	3,932.44	1/2	3,656.36	1/2	3,365.87	1/2	3,001.45	1/2	2,637.04		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,446.72	3/4	4,190.07	3/4	3,926.79	3/4	3,650.53	3/4	3,358.27	3/4	2,993.86	3/4	2,629.45		
2		2		2		2	4,441.05	2	4,184.74	2	3,921.14	2	3,644.70	2	3,350.68	2	2,986.27	2	2,621.86		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,435.38	1/4	4,179.41	1/4	3,915.49	1/4	3,638.87	1/4	3,343.09	1/4	2,978.68	1/4	2,614.27		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,429.71	1/2	4,174.09	1/2	3,909.84	1/2	3,633.04	1/2	3,335.50	1/2	2,971.09	1/2	2,606.68		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,423.97	3/4	4,168.74	3/4	3,904.17	3/4	3,627.20	3/4	3,327.91	3/4	2,963.49	3/4	2,599.08		
3		3		3		3	4,418.22	3	4,163.40	3	3,898.50	3	3,621.37	3	3,320.31	3	2,955.90	3	2,591.49		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,412.47	1/4	4,158.05	1/4	3,892.83	1/4	3,615.54	1/4	3,312.72	1/4	2,948.31	1/4	2,583.90		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,406.72	1/2	4,152.70	1/2	3,887.16	1/2	3,609.71	1/2	3,305.13	1/2	2,940.72	1/2	2,576.31		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,401.13	3/4	4,147.34	3/4	3,881.47	3/4	3,603.88	3/4	3,297.54	3/4	2,933.13	3/4	2,568.72		
4		4		4		4	4,395.53	4	4,141.97	4	3,875.79	4	3,598.04	4	3,289.95	4	2,925.53	4	2,561.12		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,389.93	1/4	4,136.60	1/4	3,870.10	1/4	3,592.21	1/4	3,282.35	1/4	2,917.94	1/4	2,553.53		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,384.33	1/2	4,131.24	1/2	3,864.41	1/2	3,586.38	1/2	3,274.76	1/2	2,910.35	1/2	2,545.94		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,379.02	3/4	4,125.85	3/4	3,858.71	3/4	3,580.55	3/4	3,267.17	3/4	2,902.76	3/4	2,538.35		
5		5		5		5	4,373.72	5	4,120.46	5	3,853.00	5	3,574.72	5	3,259.58	5	2,895.17	5	2,530.76		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,368.41	1/4	4,115.08	1/4	3,847.30	1/4	3,568.88	1/4	3,251.99	1/4	2,887.58	1/4	2,523.16		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,363.11	1/2	4,109.69	1/2	3,841.59	1/2	3,563.05	1/2	3,244.39	1/2	2,879.98	1/2	2,515.57		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,357.93	3/4	4,104.29	3/4	3,835.87	3/4	3,557.22	3/4	3,236.80	3/4	2,872.39	3/4	2,507.98		
6		6		6		6	4,352.76	6	4,098.88	6	3,830.14	6	3,551.39	6	3,229.21	6	2,864.80	6	2,500.39		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,347.59	1/4	4,093.47	1/4	3,824.42	1/4	3,545.55	1/4	3,221.62	1/4	2,857.21	1/4	2,492.80		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,342.42	1/2	4,088.07	1/2	3,818.70	1/2	3,539.72	1/2	3,214.03	1/2	2,849.62	1/2	2,485.20		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,337.23	3/4	4,082.62	3/4	3,812.95	3/4	3,533.89	3/4	3,206.44	3/4	2,842.02	3/4	2,477.61		
7		7		7		7	4,332.04	7	4,077.17	7	3,807.21	7	3,528.06	7	3,198.84	7	2,834.43	7	2,470.02		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,326.84	1/4	4,071.73	1/4	3,801.46	1/4	3,522.23	1/4	3,191.25	1/4	2,826.84	1/4	2,462.43		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,321.65	1/2	4,066.28	1/2	3,795.72	1/2	3,516.39	1/2	3,183.66	1/2	2,819.25	1/2	2,454.84		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,316.44	3/4	4,060.77	3/4	3,789.95	3/4	3,510.56	3/4	3,176.07	3/4	2,811.66	3/4	2,447.25		
8		8		8		8	4,311.23	8	4,055.26	8	3,784.19	8	3,504.73	8	3,168.48	8	2,804.06	8	2,439.65		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,306.02	1/4	4,049.75	1/4	3,778.42	1/4	3,498.90	1/4	3,160.88	1/4	2,796.47	1/4	2,432.06		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,300.80	1/2	4,044.24	1/2	3,772.66	1/2	3,493.07	1/2	3,153.29	1/2	2,788.88	1/2	2,424.47		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,295.57	3/4	4,038.69	3/4	3,766.87	3/4	3,487.23	3/4	3,145.70	3/4	2,781.29	3/4	2,416.88		
9		9		9		9	4,290.34	9	4,033.14	9	3,761.09	9	3,481.40	9	3,138.11	9	2,773.70	9	2,409.29		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,285.11	1/4	4,027.59	1/4	3,755.30	1/4	3,475.57	1/4	3,130.52	1/4	2,766.10	1/4	2,401.69		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,279.88	1/2	4,022.04	1/2	3,749.52	1/2	3,469.74	1/2	3,122.92	1/2	2,758.51	1/2	2,394.10		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,274.63	3/4	4,016.47	3/4	3,743.71	3/4	3,463.91	3/4	3,115.33	3/4	2,750.92	3/4	2,386.51		
10		10		10		10	4,269.37	10	4,010.90	10	3,737.91	10	3,458.07	10	3,107.74	10	2,743.33	10	2,378.92		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,264.12	1/4	4,005.33	1/4	3,732.10	1/4	3,452.24	1/4	3,100.15	1/4	2,735.74	1/4	2,371.33		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,258.87	1/2	3,999.76	1/2	3,726.30	1/2	3,446.41	1/2	3,092.56	1/2	2,728.15	1/2	2,363.73		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,253.60	3/4	3,994.17	3/4	3,720.48	3/4	3,440.58	3/4	3,084.96	3/4	2,720.55	3/4	2,356.14		
11		11		11		11	4,248.33	11	3,988.58	11	3,714.66	11	3,434.74	11	3,077.37	11	2,712.96	11	2,348.55		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,243.06	1/4	3,982.99	1/4	3,708.83	1/4	3,428.91	1/4	3,069.78	1/4	2,705.37	1/4	2,340.96		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,491.45	1/2	4,237.79	1/2	3,977.40	1/2	3,703.01	1/2	3,423.08	1/2	3,062.19	1/2	2,697.78	1/2	2,333.37
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,486.72	3/4	4,232.50	3/4	3,971.79	3/4	3,697.18	3/4	3,416.37	3/4	3,054.60	3/4	2,690.19	3/4	2,325.77

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

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BARGE "KIRBY 28170"

3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-05 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	2,318.18	0	1,953.77	0	1,589.35	0	1,228.81	0	865.38	0	501.04	0	137.22	0		0		0	
1/4	2,310.59	1/4	1,946.18	1/4	1,581.76	1/4	1,221.21	1/4	857.82	1/4	493.45	1/4	129.94	1/4		1/4		1/4	
1/2	2,303.00	1/2	1,938.59	1/2	1,574.17	1/2	1,213.62	1/2	850.25	1/2	485.86	1/2	122.67	1/2		1/2		1/2	
3/4	2,295.41	3/4	1,930.99	3/4	1,566.57	3/4	1,206.03	3/4	842.67	3/4	478.27	3/4	116.34	3/4		3/4		3/4	
1	2,287.82	1	1,923.40	1	1,558.98	1	1,198.43	1	835.09	1	470.67	1	110.01	1		1		1	
1/4	2,280.22	1/4	1,915.81	1/4	1,551.39	1/4	1,190.84	1/4	827.51	1/4	463.08	1/4	103.69	1/4		1/4		1/4	
1/2	2,272.63	1/2	1,908.22	1/2	1,543.80	1/2	1,183.25	1/2	819.93	1/2	455.49	1/2	97.36	1/2		1/2		1/2	
3/4	2,265.04	3/4	1,900.63	3/4	1,536.20	3/4	1,175.66	3/4	812.34	3/4	447.89	3/4	92.31	3/4		3/4		3/4	
2	2,257.45	2	1,893.03	2	1,528.61	2	1,168.06	2	804.75	2	440.30	2	87.25	2		2		2	
1/4	2,249.86	1/4	1,885.44	1/4	1,521.02	1/4	1,160.47	1/4	797.16	1/4	432.71	1/4	82.20	1/4		1/4		1/4	
1/2	2,242.26	1/2	1,877.85	1/2	1,513.43	1/2	1,152.88	1/2	789.56	1/2	425.12	1/2	77.14	1/2		1/2		1/2	
3/4	2,234.67	3/4	1,870.26	3/4	1,505.84	3/4	1,145.30	3/4	781.97	3/4	417.52	3/4	73.36	3/4		3/4		3/4	
3	2,227.08	3	1,862.66	3	1,498.24	3	1,137.72	3	774.38	3	409.93	3	69.58	3		3		3	
1/4	2,219.49	1/4	1,855.07	1/4	1,490.65	1/4	1,130.14	1/4	766.79	1/4	402.34	1/4	65.80	1/4		1/4		1/4	
1/2	2,211.90	1/2	1,847.48	1/2	1,483.06	1/2	1,122.56	1/2	759.19	1/2	394.74	1/2	62.02	1/2		1/2		1/2	
3/4	2,204.30	3/4	1,839.89	3/4	1,475.55	3/4	1,114.99	3/4	751.60	3/4	387.15	3/4	59.53	3/4		3/4		3/4	
4	2,196.71	4	1,832.30	4	1,468.04	4	1,107.43	4	744.01	4	379.56	4	57.03	4		4		4	
1/4	2,189.12	1/4	1,824.70	1/4	1,460.53	1/4	1,099.86	1/4	736.42	1/4	371.97	1/4	54.54	1/4		1/4		1/4	
1/2	2,181.53	1/2	1,817.11	1/2	1,453.02	1/2	1,092.30	1/2	728.82	1/2	364.37	1/2	52.04	1/2		1/2		1/2	
3/4	2,173.94	3/4	1,809.52	3/4	1,445.59	3/4	1,084.73	3/4	721.23	3/4	356.78	3/4	50.85	3/4		3/4		3/4	
5	2,166.34	5	1,801.93	5	1,438.16	5	1,077.17	5	713.64	5	349.19	5	49.65	5		5		5	
1/4	2,158.75	1/4	1,794.34	1/4	1,430.73	1/4	1,069.61	1/4	706.05	1/4	341.59	1/4	48.45	1/4		1/4		1/4	
1/2	2,151.16	1/2	1,786.74	1/2	1,423.30	1/2	1,062.04	1/2	698.45	1/2	334.00	1/2	47.25	1/2		1/2		1/2	
3/4	2,143.57	3/4	1,779.15	3/4	1,415.86	3/4	1,054.48	3/4	690.86	3/4	326.41	3/4		3/4		3/4		3/4	
6	2,135.98	6	1,771.56	6	1,408.43	6	1,046.91	6	683.27	6	318.81	6		6		6		6	
1/4	2,128.39	1/4	1,763.97	1/4	1,401.00	1/4	1,039.35	1/4	675.68	1/4	311.22	1/4		1/4		1/4		1/4	
1/2	2,120.79	1/2	1,756.38	1/2	1,393.57	1/2	1,031.79	1/2	668.08	1/2	303.63	1/2		1/2		1/2		1/2	
3/4	2,113.20	3/4	1,748.78	3/4	1,386.14	3/4	1,024.22	3/4	660.49	3/4	296.04	3/4		3/4		3/4		3/4	
7	2,105.61	7	1,741.19	7	1,378.71	7	1,016.66	7	652.90	7	288.44	7		7		7		7	
1/4	2,098.02	1/4	1,733.60	1/4	1,371.28	1/4	1,009.10	1/4	645.31	1/4	280.85	1/4		1/4		1/4		1/4	
1/2	2,090.43	1/2	1,726.01	1/2	1,363.85	1/2	1,001.53	1/2	637.71	1/2	273.26	1/2		1/2		1/2		1/2	
3/4	2,082.83	3/4	1,718.41	3/4	1,356.42	3/4	993.97	3/4	630.12	3/4	265.66	3/4		3/4		3/4		3/4	
8	2,075.24	8	1,710.82	8	1,348.99	8	986.41	8	622.53	8	258.07	8		8		8		8	
1/4	2,067.65	1/4	1,703.23	1/4	1,341.56	1/4	978.84	1/4	614.94	1/4	250.48	1/4		1/4		1/4		1/4	
1/2	2,060.06	1/2	1,695.64	1/2	1,334.13	1/2	971.28	1/2	607.34	1/2	242.89	1/2		1/2		1/2		1/2	
3/4	2,052.47	3/4	1,688.05	3/4	1,326.70	3/4	963.72	3/4	599.75	3/4	235.29	3/4		3/4		3/4		3/4	
9	2,044.87	9	1,680.45	9	1,319.27	9	956.15	9	592.16	9	227.70	9		9		9		9	
1/4	2,037.28	1/4	1,672.86	1/4	1,311.84	1/4	948.59	1/4	584.57	1/4	220.11	1/4		1/4		1/4		1/4	
1/2	2,029.69	1/2	1,665.27	1/2	1,304.41	1/2	941.02	1/2	576.97	1/2	212.51	1/2		1/2		1/2		1/2	
3/4	2,022.10	3/4	1,657.68	3/4	1,296.90	3/4	933.46	3/4	569.38	3/4	204.92	3/4		3/4		3/4		3/4	
10	2,014.51	10	1,650.09	10	1,289.39	10	925.90	10	561.79	10	197.33	10		10		10		10	
1/4	2,006.91	1/4	1,642.49	1/4	1,281.87	1/4	918.33	1/4	554.19	1/4	189.74	1/4		1/4		1/4		1/4	
1/2	1,999.32	1/2	1,634.90	1/2	1,274.36	1/2	910.77	1/2	546.60	1/2	182.14	1/2		1/2		1/2		1/2	
3/4	1,991.73	3/4	1,627.31	3/4	1,266.77	3/4	903.21	3/4	539.01	3/4	174.55	3/4		3/4		3/4		3/4	
11	1,984.14	11	1,619.72	11	1,259.18	11	895.64	11	531.42	11	166.96	11		11		11		11	
1/4	1,976.55	1/4	1,612.13	1/4	1,251.58	1/4	888.08	1/4	523.82	1/4	159.36	1/4		1/4		1/4		1/4	
1/2	1,968.96	1/2	1,604.53	1/2	1,243.99	1/2	880.52	1/2	516.23	1/2	151.77	1/2		1/2		1/2		1/2	
3/4	1,961.36	3/4	1,596.94	3/4	1,236.40	3/4	872.95	3/4	508.64	3/4	144.49	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 04/21/2011 CL - SW
CALCULATED: 04/21/2011 CL
PRINTED: 04/21/2011 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 04/2011

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