



BARGE "KIRBY 10213"

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 CENTER	00-1/8	- 00-1/8	00-3/8	- 00-3/8	00-1/2	- 00-1/2	00-5/8	- 00-5/8	00-7/8	- 00-7/8	01-0/8	- 01-0/8
2 CENTER	00-1/8	- 00-1/8	00-1/4	- 00-1/4	00-1/4	- 00-1/4	00-3/8	- 00-3/8	00-1/2	- 00-1/2	00-5/8	- 00-5/8
3 CENTER	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/4	- 00-1/4	00-1/4	- 00-1/4	00-3/8	- 00-3/8	00-3/8	- 00-3/8

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

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

THE CORRECTION FOR 2'-00" TRIM DOWN BY STERN FOR 1 CENTER IS - 00-3/8"
 FOR A MEASURED ULLAGE GAUGE OF 4'-00" ON 1 CENTER, THE TRIM CORRECTED ULLAGE IS 3'-11 5/8"

LENGTH BETWEEN DRAFT MARKS: 163'-06"

August 3, 2010

**PRECISION MEASUREMENT
& ANALYSIS, INC.**

P.O. Box 2092
 Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "KIRBY 10213"

1 CENTER 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	1,886.43	0	1,589.36	0	1,292.12	0	994.88	0	703.70	0	406.32	0	108.91	0		0			
1/4	1,880.24	1/4	1,583.17	1/4	1,285.93	1/4	988.69	1/4	697.52	1/4	400.12	1/4	102.74	1/4		1/4			
1/2	1,874.06	1/2	1,576.97	1/2	1,279.73	1/2	982.49	1/2	691.34	1/2	393.92	1/2	96.57	1/2		1/2			
3/4	1,867.87	3/4	1,570.78	3/4	1,273.54	3/4	976.30	3/4	685.17	3/4	387.73	3/4	90.40	3/4		3/4			
1	1,861.69	1	1,564.59	1	1,267.35	1	970.17	1	678.97	1	381.53	1	84.27	1		1			
1/4	1,855.51	1/4	1,558.40	1/4	1,261.16	1/4	964.04	1/4	672.77	1/4	375.33	1/4	78.13	1/4		1/4			
1/2	1,849.32	1/2	1,552.20	1/2	1,254.96	1/2	957.91	1/2	666.58	1/2	369.14	1/2	71.99	1/2		1/2			
3/4	1,843.14	3/4	1,546.01	3/4	1,248.77	3/4	951.78	3/4	660.38	3/4	362.94	3/4	65.86	3/4		3/4			
2	1,836.96	2	1,539.82	2	1,242.58	2	945.72	2	654.19	2	356.74	2	59.77	2		2			
1/4	1,830.77	1/4	1,533.63	1/4	1,236.39	1/4	939.65	1/4	647.99	1/4	350.55	1/4	53.69	1/4		1/4			
1/2	1,824.59	1/2	1,527.43	1/2	1,230.19	1/2	933.59	1/2	641.80	1/2	344.35	1/2	47.61	1/2		1/2			
3/4	1,818.40	3/4	1,521.24	3/4	1,224.00	3/4	927.52	3/4	635.60	3/4	338.15	3/4	41.53	3/4		3/4			
3	1,812.21	3	1,515.05	3	1,217.81	3	921.45	3	629.40	3	331.96	3	36.37	3		3			
1/4	1,806.02	1/4	1,508.86	1/4	1,211.62	1/4	915.39	1/4	623.21	1/4	325.76	1/4	31.20	1/4		1/4			
1/2	1,799.83	1/2	1,502.66	1/2	1,205.42	1/2	909.32	1/2	617.01	1/2	319.56	1/2	26.04	1/2		1/2			
3/4	1,793.63	3/4	1,496.47	3/4	1,199.23	3/4	903.26	3/4	610.81	3/4	313.37	3/4	20.88	3/4		3/4			
4	1,787.44	4	1,490.28	4	1,193.04	4	897.21	4	604.62	4	307.17	4	17.77	4		4			
1/4	1,781.25	1/4	1,484.09	1/4	1,186.85	1/4	891.16	1/4	598.42	1/4	300.97	1/4	14.67	1/4		1/4			
1/2	1,775.06	1/2	1,477.89	1/2	1,180.65	1/2	885.11	1/2	592.22	1/2	294.78	1/2	11.56	1/2		1/2			
3/4	1,768.87	3/4	1,471.70	3/4	1,174.46	3/4	879.06	3/4	586.03	3/4	288.58	3/4	8.46	3/4		3/4			
5	1,762.67	5	1,465.51	5	1,168.27	5	873.03	5	579.83	5	282.38	5	7.43	5		5			
1/4	1,756.48	1/4	1,459.32	1/4	1,162.08	1/4	866.99	1/4	573.63	1/4	276.19	1/4	6.39	1/4		1/4			
1/2	1,750.29	1/2	1,453.12	1/2	1,155.88	1/2	860.96	1/2	567.44	1/2	269.99	1/2	5.36	1/2		1/2			
3/4	1,744.10	3/4	1,446.93	3/4	1,149.69	3/4	854.93	3/4	561.24	3/4	263.79	3/4	4.32	3/4		3/4			
6	1,737.91	6	1,440.74	6	1,143.50	6	848.89	6	555.04	6	257.60	6		6		6			
1/4	1,731.71	1/4	1,434.55	1/4	1,137.31	1/4	842.86	1/4	548.84	1/4	251.40	1/4		1/4		1/4			
1/2	1,725.52	1/2	1,428.35	1/2	1,131.11	1/2	836.83	1/2	542.65	1/2	245.20	1/2		1/2		1/2			
3/4	1,719.33	3/4	1,422.16	3/4	1,124.92	3/4	830.80	3/4	536.45	3/4	239.00	3/4		3/4		3/4			
7	1,713.14	7	1,415.97	7	1,118.73	7	824.76	7	530.25	7	232.81	7		7		7			
1/4	1,706.95	1/4	1,409.78	1/4	1,112.54	1/4	818.73	1/4	524.06	1/4	226.61	1/4		1/4		1/4			
1/2	1,700.77	1/2	1,403.58	1/2	1,106.34	1/2	812.70	1/2	517.86	1/2	220.41	1/2		1/2		1/2			
3/4	1,694.58	3/4	1,397.39	3/4	1,100.15	3/4	806.66	3/4	511.66	3/4	214.22	3/4		3/4		3/4			
8	1,688.39	8	1,391.20	8	1,093.96	8	800.63	8	505.47	8	208.02	8		8		8			
1/4	1,682.20	1/4	1,385.01	1/4	1,087.77	1/4	794.60	1/4	499.27	1/4	201.82	1/4		1/4		1/4			
1/2	1,676.01	1/2	1,378.81	1/2	1,081.57	1/2	788.56	1/2	493.07	1/2	195.63	1/2		1/2		1/2			
3/4	1,669.82	3/4	1,372.62	3/4	1,075.38	3/4	782.53	3/4	486.88	3/4	189.43	3/4		3/4		3/4			
9	1,663.63	9	1,366.43	9	1,069.19	9	776.50	9	480.68	9	183.23	9		9		9			
1/4	1,657.44	1/4	1,360.24	1/4	1,063.00	1/4	770.47	1/4	474.48	1/4	177.04	1/4		1/4		1/4			
1/2	1,651.25	1/2	1,354.04	1/2	1,056.80	1/2	764.43	1/2	468.29	1/2	170.84	1/2		1/2		1/2			
3/4	1,645.06	3/4	1,347.85	3/4	1,050.61	3/4	758.40	3/4	462.09	3/4	164.65	3/4		3/4		3/4			
10	1,638.88	10	1,341.66	10	1,044.42	10	752.37	10	455.89	10	158.44	10		10		10			
1/4	1,632.69	1/4	1,335.47	1/4	1,038.23	1/4	746.33	1/4	449.70	1/4	152.24	1/4		1/4		1/4			
1/2	1,626.50	1/2	1,329.27	1/2	1,032.03	1/2	740.30	1/2	443.50	1/2	146.04	1/2		1/2		1/2			
3/4	1,620.31	3/4	1,323.08	3/4	1,025.84	3/4	734.27	3/4	437.30	3/4	139.84	3/4		3/4		3/4			
11	1,614.12	11	1,316.89	11	1,019.65	11	728.17	11	431.11	11	133.65	11		11		11			
1/4	1,607.93	1/4	1,310.70	1/4	1,013.46	1/4	722.07	1/4	424.91	1/4	127.46	1/4		1/4		1/4			
1/2	1,601.74	1/2	1,304.50	1/2	1,007.26	1/2	715.98	1/2	418.71	1/2	121.27	1/2		1/2		1/2			
3/4	1,595.55	3/4	1,298.31	3/4	1,001.07	3/4	709.88	3/4	412.52	3/4	115.08	3/4		3/4		3/4			

STRAPPED: 08/03/2010 CL - SW
CALCULATED: 08/03/2010 CL
PRINTED: 08/03/2010 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 08/2010

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



BARGE "KIRBY 10213"

2 CENTER

ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-05 1/2"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0		0		0	3,481.48	0	3,237.55	0	2,975.71	0	2,713.87	0	2,451.51	0	2,188.27	0	1,925.04
1/4		1/4		1/4		1/4	3,479.65	1/4	3,232.10	1/4	2,970.26	1/4	2,708.42	1/4	2,446.02	1/4	2,182.79	1/4	1,919.55
1/2		1/2		1/2		1/2	3,477.82	1/2	3,226.64	1/2	2,964.80	1/2	2,702.96	1/2	2,440.54	1/2	2,177.30	1/2	1,914.07
3/4		3/4		3/4		3/4	3,474.17	3/4	3,221.19	3/4	2,959.35	3/4	2,697.51	3/4	2,435.06	3/4	2,171.82	3/4	1,908.58
1		1		1		1	3,470.51	1	3,215.73	1	2,953.89	1	2,692.05	1	2,429.57	1	2,166.34	1	1,903.10
1/4		1/4		1/4		1/4	3,466.85	1/4	3,210.28	1/4	2,948.44	1/4	2,686.60	1/4	2,424.09	1/4	2,160.85	1/4	1,897.61
1/2		1/2		1/2		1/2	3,463.19	1/2	3,204.82	1/2	2,942.98	1/2	2,681.14	1/2	2,418.60	1/2	2,155.37	1/2	1,892.13
3/4		3/4		3/4		3/4	3,458.09	3/4	3,199.37	3/4	2,937.53	3/4	2,675.66	3/4	2,413.12	3/4	2,149.88	3/4	1,886.65
2		2		2		2	3,452.99	2	3,193.91	2	2,932.07	2	2,670.23	2	2,407.64	2	2,144.40	2	1,881.16
1/4		1/4		1/4		1/4	3,447.89	1/4	3,188.46	1/4	2,926.62	1/4	2,664.78	1/4	2,402.15	1/4	2,138.92	1/4	1,875.68
1/2		1/2		1/2		1/2	3,442.79	1/2	3,183.00	1/2	2,921.16	1/2	2,659.32	1/2	2,396.67	1/2	2,133.43	1/2	1,870.19
3/4		3/4		3/4		3/4	3,437.45	3/4	3,177.55	3/4	2,915.71	3/4	2,653.87	3/4	2,391.18	3/4	2,127.95	3/4	1,864.71
3		3		3		3	3,432.12	3	3,172.09	3	2,910.25	3	2,648.41	3	2,385.70	3	2,122.46	3	1,859.23
1/4		1/4		1/4		1/4	3,426.78	1/4	3,166.64	1/4	2,904.80	1/4	2,642.96	1/4	2,380.22	1/4	2,116.98	1/4	1,853.74
1/2		1/2		1/2		1/2	3,421.45	1/2	3,161.18	1/2	2,899.34	1/2	2,637.50	1/2	2,374.73	1/2	2,111.49	1/2	1,848.26
3/4		3/4		3/4		3/4	3,416.09	3/4	3,155.73	3/4	2,893.89	3/4	2,632.05	3/4	2,369.25	3/4	2,106.01	3/4	1,842.77
4		4		4		4	3,410.74	4	3,150.27	4	2,888.43	4	2,626.59	4	2,363.76	4	2,100.53	4	1,837.29
1/4		1/4		1/4		1/4	3,405.39	1/4	3,144.82	1/4	2,882.98	1/4	2,621.14	1/4	2,358.28	1/4	2,095.04	1/4	1,831.81
1/2		1/2		1/2		1/2	3,400.03	1/2	3,139.36	1/2	2,877.52	1/2	2,615.68	1/2	2,352.80	1/2	2,089.56	1/2	1,826.32
3/4		3/4		3/4		3/4	3,394.67	3/4	3,133.91	3/4	2,872.07	3/4	2,610.23	3/4	2,347.31	3/4	2,084.07	3/4	1,820.84
5		5		5		5	3,389.31	5	3,128.45	5	2,866.61	5	2,604.77	5	2,341.83	5	2,078.59	5	1,815.35
1/4		1/4		1/4		1/4	3,383.95	1/4	3,123.00	1/4	2,861.16	1/4	2,599.32	1/4	2,336.34	1/4	2,073.11	1/4	1,809.87
1/2		1/2		1/2		1/2	3,378.59	1/2	3,117.54	1/2	2,855.70	1/2	2,593.86	1/2	2,330.86	1/2	2,067.62	1/2	1,804.39
3/4		3/4		3/4		3/4	3,373.24	3/4	3,112.09	3/4	2,850.25	3/4	2,588.41	3/4	2,325.37	3/4	2,062.14	3/4	1,798.90
6		6		6		6	3,367.88	6	3,106.63	6	2,844.79	6	2,582.95	6	2,319.89	6	2,056.65	6	1,793.42
1/4		1/4		1/4		1/4	3,362.52	1/4	3,101.18	1/4	2,839.34	1/4	2,577.50	1/4	2,314.41	1/4	2,051.17	1/4	1,787.93
1/2		1/2		1/2		1/2	3,357.17	1/2	3,095.72	1/2	2,833.88	1/2	2,572.04	1/2	2,308.92	1/2	2,045.69	1/2	1,782.45
3/4		3/4		3/4		3/4	3,351.81	3/4	3,090.27	3/4	2,828.43	3/4	2,566.59	3/4	2,303.44	3/4	2,040.20	3/4	1,776.96
7		7		7		7	3,346.46	7	3,084.81	7	2,822.97	7	2,561.13	7	2,297.95	7	2,034.72	7	1,771.48
1/4		1/4		1/4		1/4	3,341.10	1/4	3,079.36	1/4	2,817.52	1/4	2,555.68	1/4	2,292.47	1/4	2,029.23	1/4	1,766.00
1/2		1/2		1/2		1/2	3,335.74	1/2	3,073.90	1/2	2,812.06	1/2	2,550.22	1/2	2,286.99	1/2	2,023.75	1/2	1,760.51
3/4		3/4		3/4		3/4	3,330.29	3/4	3,068.45	3/4	2,806.61	3/4	2,544.74	3/4	2,281.50	3/4	2,018.27	3/4	1,755.03
8		8		8		8	3,324.83	8	3,062.99	8	2,801.15	8	2,539.25	8	2,276.02	8	2,012.78	8	1,749.54
1/4		1/4		1/4		1/4	3,319.38	1/4	3,057.54	1/4	2,795.70	1/4	2,533.77	1/4	2,270.53	1/4	2,007.30	1/4	1,744.06
1/2		1/2		1/2		1/2	3,313.92	1/2	3,052.08	1/2	2,790.24	1/2	2,528.29	1/2	2,265.05	1/2	2,001.81	1/2	1,738.58
3/4		3/4		3/4		3/4	3,308.47	3/4	3,046.63	3/4	2,784.79	3/4	2,522.80	3/4	2,259.57	3/4	1,996.33	3/4	1,733.09
9		9		9		9	3,303.01	9	3,041.17	9	2,779.33	9	2,517.32	9	2,254.08	9	1,990.84	9	1,727.61
1/4		1/4		1/4		1/4	3,297.56	1/4	3,035.72	1/4	2,773.88	1/4	2,511.83	1/4	2,248.60	1/4	1,985.36	1/4	1,722.12
1/2		1/2		1/2		1/2	3,292.10	1/2	3,030.26	1/2	2,768.42	1/2	2,506.35	1/2	2,243.11	1/2	1,979.88	1/2	1,716.64
3/4		3/4		3/4		3/4	3,286.65	3/4	3,024.81	3/4	2,762.97	3/4	2,500.87	3/4	2,237.63	3/4	1,974.39	3/4	1,711.16
10		10		10		10	3,281.19	10	3,019.35	10	2,757.51	10	2,495.38	10	2,232.14	10	1,968.91	10	1,705.67
1/4		1/4		1/4		1/4	3,275.74	1/4	3,013.90	1/4	2,752.06	1/4	2,489.90	1/4	2,226.66	1/4	1,963.42	1/4	1,700.19
1/2		1/2		1/2		1/2	3,270.28	1/2	3,008.44	1/2	2,746.60	1/2	2,484.41	1/2	2,221.18	1/2	1,957.94	1/2	1,694.70
3/4		3/4		3/4		3/4	3,264.83	3/4	3,002.99	3/4	2,741.15	3/4	2,478.93	3/4	2,215.69	3/4	1,952.46	3/4	1,689.22
11		11		11	3,486.06	11	3,259.37	11	2,997.53	11	2,735.69	11	2,473.45	11	2,210.21	11	1,946.97	11	1,683.73
1/4		1/4		1/4	3,485.60	1/4	3,253.92	1/4	2,992.08	1/4	2,730.24	1/4	2,467.96	1/4	2,204.72	1/4	1,941.49	1/4	1,678.25
1/2		1/2		1/2	3,485.14	1/2	3,248.46	1/2	2,986.62	1/2	2,724.78	1/2	2,462.48	1/2	2,199.24	1/2	1,936.00	1/2	1,672.77
3/4		3/4		3/4	3,483.31	3/4	3,243.01	3/4	2,981.17	3/4	2,719.33	3/4	2,456.99	3/4	2,193.76	3/4	1,930.52	3/4	1,667.28

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 ON CENTERLINE AND 27'-09" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT & ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77568

http://www.pmacorp.net





BARGE "KIRBY 10213"

2 CENTER 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	1,661.80	0	1,398.55	0	1,135.14	0	873.77	0	614.28	0	350.89	0	87.66	0		0			
1/4	1,656.31	1/4	1,393.07	1/4	1,129.66	1/4	868.37	1/4	608.79	1/4	345.40	1/4	82.21	1/4		1/4			
1/2	1,650.83	1/2	1,387.58	1/2	1,124.17	1/2	862.97	1/2	603.31	1/2	339.92	1/2	76.76	1/2		1/2			
3/4	1,645.35	3/4	1,382.09	3/4	1,118.68	3/4	857.56	3/4	597.82	3/4	334.43	3/4	71.33	3/4		3/4			
1	1,639.86	1	1,376.60	1	1,113.19	1	852.16	1	592.33	1	328.94	1	65.91	1		1			
1/4	1,634.38	1/4	1,371.12	1/4	1,107.71	1/4	846.76	1/4	586.85	1/4	323.46	1/4	60.49	1/4		1/4			
1/2	1,628.89	1/2	1,365.63	1/2	1,102.22	1/2	841.35	1/2	581.36	1/2	317.97	1/2	55.06	1/2		1/2			
3/4	1,623.41	3/4	1,360.14	3/4	1,096.73	3/4	835.95	3/4	575.87	3/4	312.48	3/4	49.69	3/4		3/4			
2	1,617.93	2	1,354.65	2	1,091.24	2	830.55	2	570.38	2	306.99	2	44.32	2		2			
1/4	1,612.44	1/4	1,349.17	1/4	1,085.76	1/4	825.14	1/4	564.90	1/4	301.51	1/4	38.94	1/4		1/4			
1/2	1,606.96	1/2	1,343.68	1/2	1,080.27	1/2	819.74	1/2	559.41	1/2	296.02	1/2	33.57	1/2		1/2			
3/4	1,601.47	3/4	1,338.19	3/4	1,074.78	3/4	814.34	3/4	553.92	3/4	290.53	3/4	29.00	3/4		3/4			
3	1,595.99	3	1,332.70	3	1,069.29	3	808.95	3	548.43	3	285.04	3	24.44	3		3			
1/4	1,590.51	1/4	1,327.21	1/4	1,063.80	1/4	803.55	1/4	542.95	1/4	279.56	1/4	19.87	1/4		1/4			
1/2	1,585.02	1/2	1,321.73	1/2	1,058.32	1/2	798.15	1/2	537.46	1/2	274.07	1/2	15.31	1/2		1/2			
3/4	1,579.54	3/4	1,316.24	3/4	1,052.83	3/4	792.75	3/4	531.97	3/4	268.58	3/4	12.57	3/4		3/4			
4	1,574.05	4	1,310.75	4	1,047.34	4	787.36	4	526.49	4	263.10	4	9.82	4		4			
1/4	1,568.57	1/4	1,305.26	1/4	1,041.85	1/4	781.96	1/4	521.00	1/4	257.61	1/4	7.08	1/4		1/4			
1/2	1,563.08	1/2	1,299.78	1/2	1,036.37	1/2	776.56	1/2	515.51	1/2	252.12	1/2	4.34	1/2		1/2			
3/4	1,557.60	3/4	1,294.29	3/4	1,030.88	3/4	771.16	3/4	510.02	3/4	246.63	3/4	3.42	3/4		3/4			
5	1,552.12	5	1,288.80	5	1,025.39	5	765.77	5	504.54	5	241.15	5	2.51	5		5			
1/4	1,546.63	1/4	1,283.31	1/4	1,019.90	1/4	760.37	1/4	499.05	1/4	235.66	1/4	1.59	1/4		1/4			
1/2	1,541.15	1/2	1,277.83	1/2	1,014.42	1/2	754.97	1/2	493.56	1/2	230.17	1/2	0.68	1/2		1/2			
3/4	1,535.66	3/4	1,272.34	3/4	1,008.97	3/4	749.57	3/4	488.07	3/4	224.68	3/4		3/4		3/4			
6	1,530.18	6	1,266.85	6	1,003.53	6	744.18	6	482.59	6	219.20	6		6		6			
1/4	1,524.70	1/4	1,261.36	1/4	998.08	1/4	738.78	1/4	477.10	1/4	213.71	1/4		1/4		1/4			
1/2	1,519.21	1/2	1,255.87	1/2	992.63	1/2	733.38	1/2	471.61	1/2	208.22	1/2		1/2		1/2			
3/4	1,513.73	3/4	1,250.39	3/4	987.23	3/4	727.98	3/4	466.13	3/4	202.74	3/4		3/4		3/4			
7	1,508.24	7	1,244.90	7	981.83	7	722.59	7	460.64	7	197.25	7		7		7			
1/4	1,502.76	1/4	1,239.41	1/4	976.43	1/4	717.19	1/4	455.15	1/4	191.76	1/4		1/4		1/4			
1/2	1,497.28	1/2	1,233.92	1/2	971.02	1/2	711.79	1/2	449.66	1/2	186.27	1/2		1/2		1/2			
3/4	1,491.79	3/4	1,228.44	3/4	965.62	3/4	706.39	3/4	444.18	3/4	180.79	3/4		3/4		3/4			
8	1,486.31	8	1,222.95	8	960.22	8	701.00	8	438.69	8	175.30	8		8		8			
1/4	1,480.82	1/4	1,217.46	1/4	954.81	1/4	695.60	1/4	433.20	1/4	169.81	1/4		1/4		1/4			
1/2	1,475.34	1/2	1,211.97	1/2	949.41	1/2	690.20	1/2	427.71	1/2	164.32	1/2		1/2		1/2			
3/4	1,469.86	3/4	1,206.49	3/4	944.01	3/4	684.80	3/4	422.23	3/4	158.84	3/4		3/4		3/4			
9	1,464.37	9	1,201.00	9	938.61	9	679.41	9	416.74	9	153.35	9		9		9			
1/4	1,458.89	1/4	1,195.51	1/4	933.20	1/4	674.01	1/4	411.25	1/4	147.86	1/4		1/4		1/4			
1/2	1,453.40	1/2	1,190.02	1/2	927.80	1/2	668.61	1/2	405.77	1/2	142.38	1/2		1/2		1/2			
3/4	1,447.92	3/4	1,184.53	3/4	922.40	3/4	663.22	3/4	400.28	3/4	136.90	3/4		3/4		3/4			
10	1,442.43	10	1,179.05	10	916.99	10	657.82	10	394.79	10	131.41	10		10		10			
1/4	1,436.95	1/4	1,173.56	1/4	911.59	1/4	652.42	1/4	389.30	1/4	125.93	1/4		1/4		1/4			
1/2	1,431.47	1/2	1,168.07	1/2	906.19	1/2	647.03	1/2	383.82	1/2	120.45	1/2		1/2		1/2			
3/4	1,425.98	3/4	1,162.58	3/4	900.79	3/4	641.58	3/4	378.33	3/4	114.98	3/4		3/4		3/4			
11	1,420.50	11	1,157.10	11	895.38	11	636.14	11	372.84	11	109.51	11		11		11			
1/4	1,415.01	1/4	1,151.61	1/4	889.98	1/4	630.69	1/4	367.35	1/4	104.04	1/4		1/4		1/4			
1/2	1,409.53	1/2	1,146.12	1/2	884.58	1/2	625.25	1/2	361.87	1/2	98.57	1/2		1/2		1/2			
3/4	1,404.04	3/4	1,140.63	3/4	879.17	3/4	619.76	3/4	356.38	3/4	93.12	3/4		3/4		3/4			

STRAPPED: 08/03/2010 CL - SW
 CALCULATED: 08/03/2010 CL
 PRINTED: 08/03/2010 CL

CANCELS AND SUPERCEDES
 ALL PRIOR TO 08/2010

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



BARGE "KIRBY 10213"

3 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-05"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.			
IN		IN		IN		IN		IN		IN		IN		IN		IN		IN			
0		0		0		0	3,462.87	0	3,213.12	0	2,952.74	0	2,692.35	0	2,431.38	0	2,169.59	0	1,907.81		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,459.24	1/4	3,207.70	1/4	2,947.31	1/4	2,686.92	1/4	2,425.93	1/4	2,164.14	1/4	1,902.35		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,455.60	1/2	3,202.27	1/2	2,941.89	1/2	2,681.50	1/2	2,420.47	1/2	2,158.68	1/2	1,896.90		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,451.96	3/4	3,196.85	3/4	2,936.46	3/4	2,676.08	3/4	2,415.02	3/4	2,153.23	3/4	1,891.44		
1		1		1		1	3,448.32	1	3,191.42	1	2,931.04	1	2,670.65	1	2,409.56	1	2,147.78	1	1,885.99		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,443.25	1/4	3,186.00	1/4	2,925.61	1/4	2,665.23	1/4	2,404.11	1/4	2,142.32	1/4	1,880.54		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,438.18	1/2	3,180.57	1/2	2,920.19	1/2	2,659.80	1/2	2,398.66	1/2	2,136.87	1/2	1,875.08		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,433.11	3/4	3,175.15	3/4	2,914.76	3/4	2,654.38	3/4	2,393.20	3/4	2,131.42	3/4	1,869.63		
2		2		2		2	3,428.03	2	3,169.72	2	2,909.34	2	2,648.95	2	2,387.75	2	2,125.96	2	1,864.17		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,422.73	1/4	3,164.30	1/4	2,903.91	1/4	2,643.53	1/4	2,382.29	1/4	2,120.51	1/4	1,858.72		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,417.42	1/2	3,158.87	1/2	2,898.49	1/2	2,638.10	1/2	2,376.84	1/2	2,115.05	1/2	1,853.27		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,412.12	3/4	3,153.45	3/4	2,893.06	3/4	2,632.68	3/4	2,371.39	3/4	2,109.60	3/4	1,847.81		
3		3		3		3	3,406.82	3	3,148.02	3	2,887.64	3	2,627.25	3	2,365.93	3	2,104.15	3	1,842.36		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,401.50	1/4	3,142.60	1/4	2,882.21	1/4	2,621.83	1/4	2,360.48	1/4	2,098.69	1/4	1,836.90		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,396.17	1/2	3,137.17	1/2	2,876.79	1/2	2,616.40	1/2	2,355.03	1/2	2,093.24	1/2	1,831.45		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,390.85	3/4	3,131.75	3/4	2,871.36	3/4	2,610.98	3/4	2,349.57	3/4	2,087.78	3/4	1,826.00		
4		4		4		4	3,385.53	4	3,126.33	4	2,865.94	4	2,605.55	4	2,344.12	4	2,082.33	4	1,820.54		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,380.21	1/4	3,120.90	1/4	2,860.52	1/4	2,600.13	1/4	2,338.66	1/4	2,076.88	1/4	1,815.09		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,374.88	1/2	3,115.48	1/2	2,855.09	1/2	2,594.70	1/2	2,333.21	1/2	2,071.42	1/2	1,809.64		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,369.55	3/4	3,110.05	3/4	2,849.67	3/4	2,589.28	3/4	2,327.76	3/4	2,065.97	3/4	1,804.18		
5		5		5		5	3,364.22	5	3,104.63	5	2,844.24	5	2,583.86	5	2,322.30	5	2,060.51	5	1,798.73		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,358.89	1/4	3,099.20	1/4	2,838.82	1/4	2,578.43	1/4	2,316.85	1/4	2,055.06	1/4	1,793.27		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,353.57	1/2	3,093.78	1/2	2,833.39	1/2	2,573.01	1/2	2,311.39	1/2	2,049.61	1/2	1,787.82		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,348.24	3/4	3,088.35	3/4	2,827.97	3/4	2,567.58	3/4	2,305.94	3/4	2,044.15	3/4	1,782.37		
6		6		6		6	3,342.92	6	3,082.93	6	2,822.54	6	2,562.16	6	2,300.49	6	2,038.70	6	1,776.91		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,337.59	1/4	3,077.50	1/4	2,817.12	1/4	2,556.73	1/4	2,295.03	1/4	2,033.25	1/4	1,771.46		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,332.27	1/2	3,072.08	1/2	2,811.69	1/2	2,551.31	1/2	2,289.58	1/2	2,027.79	1/2	1,766.00		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,326.94	3/4	3,066.65	3/4	2,806.27	3/4	2,545.88	3/4	2,284.12	3/4	2,022.34	3/4	1,760.55		
7		7		7		7	3,321.61	7	3,061.23	7	2,800.84	7	2,540.46	7	2,278.67	7	2,016.88	7	1,755.10		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,316.19	1/4	3,055.80	1/4	2,795.42	1/4	2,535.00	1/4	2,273.22	1/4	2,011.43	1/4	1,749.64		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,310.77	1/2	3,050.38	1/2	2,789.99	1/2	2,529.55	1/2	2,267.76	1/2	2,005.98	1/2	1,744.19		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,305.34	3/4	3,044.95	3/4	2,784.57	3/4	2,524.10	3/4	2,262.31	3/4	2,000.52	3/4	1,738.73		
8		8		8		8	3,299.92	8	3,039.53	8	2,779.14	8	2,518.64	8	2,256.86	8	1,995.07	8	1,733.28		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,294.49	1/4	3,034.11	1/4	2,773.72	1/4	2,513.19	1/4	2,251.40	1/4	1,989.61	1/4	1,727.83		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,289.07	1/2	3,028.68	1/2	2,768.30	1/2	2,507.73	1/2	2,245.95	1/2	1,984.16	1/2	1,722.37		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,283.64	3/4	3,023.26	3/4	2,762.87	3/4	2,502.28	3/4	2,240.49	3/4	1,978.71	3/4	1,716.92		
9		9		9		9	3,278.22	9	3,017.83	9	2,757.45	9	2,496.83	9	2,235.04	9	1,973.25	9	1,711.47		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,272.79	1/4	3,012.41	1/4	2,752.02	1/4	2,491.37	1/4	2,229.59	1/4	1,967.80	1/4	1,706.01		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,267.37	1/2	3,006.98	1/2	2,746.60	1/2	2,485.92	1/2	2,224.13	1/2	1,962.34	1/2	1,700.56		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,261.94	3/4	3,001.56	3/4	2,741.17	3/4	2,480.46	3/4	2,218.68	3/4	1,956.89	3/4	1,695.10		
10		10		10		10	3,256.52	10	2,996.13	10	2,735.75	10	2,475.01	10	2,213.22	10	1,951.44	10	1,689.65		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,251.09	1/4	2,990.71	1/4	2,730.32	1/4	2,469.56	1/4	2,207.77	1/4	1,945.98	1/4	1,684.20		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,471.06	1/2	3,245.67	1/2	2,985.28	1/2	2,724.90	1/2	2,464.10	1/2	2,202.32	1/2	1,940.53	1/2	1,678.74
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,470.61	3/4	3,240.24	3/4	2,979.86	3/4	2,719.47	3/4	2,458.65	3/4	2,196.86	3/4	1,935.07	3/4	1,673.29
11		11		11		11	3,470.15	11	3,234.82	11	2,974.43	11	2,714.05	11	2,453.20	11	2,191.41	11	1,929.62	11	1,667.83
1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,468.33	1/4	3,229.39	1/4	2,969.01	1/4	2,708.62	1/4	2,447.74	1/4	2,185.95	1/4	1,924.17	1/4	1,662.38
1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,466.51	1/2	3,223.97	1/2	2,963.58	1/2	2,703.20	1/2	2,442.29	1/2	2,180.50	1/2	1,918.71	1/2	1,656.93
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,464.69	3/4	3,218.55	3/4	2,958.16	3/4	2,697.77	3/4	2,436.83	3/4	2,175.05	3/4	1,913.26	3/4	1,651.47

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 ON CENTERLINE AND 27'-03" FORWARD OF AFT BULKHEAD.

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



BARGE "KIRBY 10213"

3 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-05"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	1,646.02	0	1,384.22	0	1,122.26	0	861.32	0	599.98	0	338.05	0	76.34	0		0			
1/4	1,640.56	1/4	1,378.76	1/4	1,116.80	1/4	855.90	1/4	594.53	1/4	332.59	1/4	70.95	1/4		1/4			
1/2	1,635.11	1/2	1,373.30	1/2	1,111.34	1/2	850.48	1/2	589.07	1/2	327.13	1/2	65.55	1/2		1/2			
3/4	1,629.66	3/4	1,367.84	3/4	1,105.88	3/4	845.06	3/4	583.61	3/4	321.68	3/4	60.16	3/4		3/4			
1	1,624.20	1	1,362.39	1	1,100.43	1	839.64	1	578.16	1	316.22	1	54.77	1		1			
1/4	1,618.75	1/4	1,356.93	1/4	1,094.97	1/4	834.22	1/4	572.70	1/4	310.76	1/4	49.42	1/4		1/4			
1/2	1,613.29	1/2	1,351.47	1/2	1,089.51	1/2	828.80	1/2	567.24	1/2	305.31	1/2	44.08	1/2		1/2			
3/4	1,607.84	3/4	1,346.01	3/4	1,084.05	3/4	823.38	3/4	561.78	3/4	299.85	3/4	38.73	3/4		3/4			
2	1,602.39	2	1,340.56	2	1,078.60	2	817.95	2	556.33	2	294.39	2	33.39	2		2			
1/4	1,596.93	1/4	1,335.10	1/4	1,073.14	1/4	812.54	1/4	550.87	1/4	288.93	1/4	28.85	1/4		1/4			
1/2	1,591.48	1/2	1,329.64	1/2	1,067.68	1/2	807.12	1/2	545.41	1/2	283.48	1/2	24.31	1/2		1/2			
3/4	1,586.03	3/4	1,324.18	3/4	1,062.22	3/4	801.71	3/4	539.96	3/4	278.02	3/4	19.77	3/4		3/4			
3	1,580.57	3	1,318.73	3	1,056.77	3	796.29	3	534.50	3	272.56	3	15.23	3		3			
1/4	1,575.12	1/4	1,313.27	1/4	1,051.31	1/4	790.84	1/4	529.04	1/4	267.11	1/4	12.50	1/4		1/4			
1/2	1,569.66	1/2	1,307.81	1/2	1,045.85	1/2	785.39	1/2	523.59	1/2	261.65	1/2	9.77	1/2		1/2			
3/4	1,564.21	3/4	1,302.35	3/4	1,040.39	3/4	779.94	3/4	518.13	3/4	256.19	3/4	7.05	3/4		3/4			
4	1,558.76	4	1,296.90	4	1,034.94	4	774.48	4	512.67	4	250.74	4	4.32	4		4			
1/4	1,553.30	1/4	1,291.44	1/4	1,029.48	1/4	769.03	1/4	507.21	1/4	245.28	1/4	3.41	1/4		1/4			
1/2	1,547.85	1/2	1,285.98	1/2	1,024.02	1/2	763.58	1/2	501.76	1/2	239.82	1/2	2.50	1/2		1/2			
3/4	1,542.39	3/4	1,280.52	3/4	1,018.56	3/4	758.13	3/4	496.30	3/4	234.36	3/4	1.59	3/4		3/4			
5	1,536.94	5	1,275.07	5	1,013.11	5	752.68	5	490.84	5	228.91	5	0.68	5		5			
1/4	1,531.49	1/4	1,269.61	1/4	1,007.69	1/4	747.22	1/4	485.39	1/4	223.45	1/4		1/4		1/4			
1/2	1,526.03	1/2	1,264.15	1/2	1,002.26	1/2	741.77	1/2	479.93	1/2	217.99	1/2		1/2		1/2			
3/4	1,520.58	3/4	1,258.69	3/4	996.84	3/4	736.32	3/4	474.47	3/4	212.54	3/4		3/4		3/4			
6	1,515.12	6	1,253.24	6	991.42	6	730.87	6	469.02	6	207.08	6		6		6			
1/4	1,509.67	1/4	1,247.78	1/4	986.00	1/4	725.42	1/4	463.56	1/4	201.62	1/4		1/4		1/4			
1/2	1,504.22	1/2	1,242.32	1/2	980.58	1/2	719.96	1/2	458.10	1/2	196.17	1/2		1/2		1/2			
3/4	1,498.76	3/4	1,236.86	3/4	975.16	3/4	714.51	3/4	452.64	3/4	190.71	3/4		3/4		3/4			
7	1,493.31	7	1,231.41	7	969.74	7	709.06	7	447.19	7	185.25	7		7		7			
1/4	1,487.86	1/4	1,225.95	1/4	964.32	1/4	703.61	1/4	441.73	1/4	179.79	1/4		1/4		1/4			
1/2	1,482.40	1/2	1,220.49	1/2	958.90	1/2	698.15	1/2	436.27	1/2	174.34	1/2		1/2		1/2			
3/4	1,476.95	3/4	1,215.03	3/4	953.48	3/4	692.70	3/4	430.82	3/4	168.88	3/4		3/4		3/4			
8	1,471.49	8	1,209.58	8	948.06	8	687.25	8	425.36	8	163.42	8		8		8			
1/4	1,466.04	1/4	1,204.12	1/4	942.63	1/4	681.80	1/4	419.90	1/4	157.97	1/4		1/4		1/4			
1/2	1,460.59	1/2	1,198.66	1/2	937.21	1/2	676.35	1/2	414.45	1/2	152.51	1/2		1/2		1/2			
3/4	1,455.13	3/4	1,193.20	3/4	931.79	3/4	670.89	3/4	408.99	3/4	147.05	3/4		3/4		3/4			
9	1,449.68	9	1,187.75	9	926.37	9	665.44	9	403.53	9	141.60	9		9		9			
1/4	1,444.22	1/4	1,182.29	1/4	920.95	1/4	659.99	1/4	398.07	1/4	136.15	1/4		1/4		1/4			
1/2	1,438.77	1/2	1,176.83	1/2	915.53	1/2	654.54	1/2	392.62	1/2	130.70	1/2		1/2		1/2			
3/4	1,433.32	3/4	1,171.37	3/4	910.11	3/4	649.09	3/4	387.16	3/4	125.24	3/4		3/4		3/4			
10	1,427.86	10	1,165.92	10	904.69	10	643.64	10	381.70	10	119.79	10		10		10			
1/4	1,422.41	1/4	1,160.46	1/4	899.27	1/4	638.18	1/4	376.25	1/4	114.35	1/4		1/4		1/4			
1/2	1,416.95	1/2	1,155.00	1/2	893.85	1/2	632.72	1/2	370.79	1/2	108.91	1/2		1/2		1/2			
3/4	1,411.50	3/4	1,149.54	3/4	888.43	3/4	627.27	3/4	365.33	3/4	103.47	3/4		3/4		3/4			
11	1,406.05	11	1,144.09	11	883.01	11	621.81	11	359.88	11	98.03	11		11		11			
1/4	1,400.59	1/4	1,138.63	1/4	877.58	1/4	616.35	1/4	354.42	1/4	92.61	1/4		1/4		1/4			
1/2	1,395.13	1/2	1,133.17	1/2	872.16	1/2	610.90	1/2	348.96	1/2	87.19	1/2		1/2		1/2			
3/4	1,389.67	3/4	1,127.71	3/4	866.74	3/4	605.44	3/4	343.50	3/4	81.76	3/4		3/4		3/4			

STRAPPED: 08/03/2010 CL - SW
CALCULATED: 08/03/2010 CL
PRINTED: 08/03/2010 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 08/2010

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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