



BARGE "KIRBY 28104"

ULLAGE TRIM TABLE

	1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.	
	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>
1 PORT	00-1/2	- 00-1/2	00-7/8	- 00-7/8	01-3/8	- 01-3/8	01-7/8	- 01-7/8	02-3/8	- 02-3/8	02-3/4	- 02-3/4
1 STBD	00-1/2	- 00-1/2	00-7/8	- 00-7/8	01-3/8	- 01-3/8	01-7/8	- 01-7/8	02-3/8	- 02-3/8	02-3/4	- 02-3/4
2 PORT	00-1/2	- 00-1/2	00-7/8	- 00-7/8	01-3/8	- 01-3/8	01-3/4	- 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	00-3/8	- 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	02-5/8	- 02-5/8
3 STBD	00-3/8	- 00-3/8	00-7/8	- 00-7/8	01-1/4	- 01-1/4	01-3/4	- 01-3/4	02-1/8	- 02-1/8	02-1/2	- 02-1/2

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

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

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

LENGTH BETWEEN DRAFT MARKS: 241'-06"

June 5, 2009

PRECISION MEASUREMENT
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<http://www.pmacorp.net>



BARGE "KIRBY 28104"

1 PORT

ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4

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'-08" OFF CENTERLINE AND 53'-03" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT
& ANALYSIS, INC.
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[Signature]



BARGE "KIRBY 28104"

1 PORT

ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.	
IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT
0	2,350.68	0	1,983.97	0	1,617.24	0	1,251.17	0	886.67	0	520.20	0	175.01	0	0	0	0	0	0
1/4	2,343.04	1/4	1,976.33	1/4	1,609.60	1/4	1,243.53	1/4	879.08	1/4	512.56	1/4	168.31	1/4	0	0	0	0	0
1/2	2,335.40	1/2	1,968.69	1/2	1,601.96	1/2	1,235.89	1/2	871.48	1/2	504.94	1/2	161.69	1/2	0	0	0	0	0
3/4	2,327.77	3/4	1,961.05	3/4	1,594.32	3/4	1,228.25	3/4	863.88	3/4	497.32	3/4	155.07	3/4	0	0	0	0	0
1	2,320.13	1	1,953.41	1	1,586.68	1	1,220.61	1	856.29	1	489.70	1	148.45	1	0	0	0	0	0
1/4	2,312.49	1/4	1,945.77	1/4	1,579.04	1/4	1,212.96	1/4	848.69	1/4	482.08	1/4	141.83	1/4	0	0	0	0	0
1/2	2,304.85	1/2	1,938.13	1/2	1,571.40	1/2	1,205.34	1/2	841.06	1/2	474.52	1/2	135.31	1/2	0	0	0	0	0
3/4	2,297.21	3/4	1,930.49	3/4	1,563.76	3/4	1,197.71	3/4	833.44	3/4	466.97	3/4	128.78	3/4	0	0	0	0	0
2	2,289.57	2	1,922.85	2	1,556.12	2	1,190.09	2	825.81	2	459.41	2	122.25	2	0	0	0	0	0
1/4	2,281.93	1/4	1,915.21	1/4	1,548.48	1/4	1,182.46	1/4	818.18	1/4	451.86	1/4	115.72	1/4	0	0	0	0	0
1/2	2,274.29	1/2	1,907.57	1/2	1,540.84	1/2	1,174.86	1/2	810.54	1/2	444.39	1/2	109.29	1/2	0	0	0	0	0
3/4	2,266.65	3/4	1,899.93	3/4	1,533.20	3/4	1,167.26	3/4	802.90	3/4	436.91	3/4	102.86	3/4	0	0	0	0	0
3	2,259.01	3	1,892.29	3	1,525.56	3	1,159.66	3	795.26	3	429.44	3	96.43	3	0	0	0	0	0
1/4	2,251.37	1/4	1,884.65	1/4	1,517.92	1/4	1,152.06	1/4	787.62	1/4	421.97	1/4	90.01	1/4	0	0	0	0	0
1/2	2,243.73	1/2	1,877.01	1/2	1,510.28	1/2	1,144.48	1/2	779.98	1/2	414.59	1/2	83.68	1/2	0	0	0	0	0
3/4	2,236.09	3/4	1,869.37	3/4	1,502.64	3/4	1,136.90	3/4	772.34	3/4	407.20	3/4	77.36	3/4	0	0	0	0	0
4	2,228.45	4	1,861.73	4	1,495.00	4	1,129.31	4	764.70	4	399.81	4	71.03	4	0	0	0	0	0
1/4	2,220.81	1/4	1,854.09	1/4	1,487.36	1/4	1,121.73	1/4	757.06	1/4	392.43	1/4	64.71	1/4	0	0	0	0	0
1/2	2,213.17	1/2	1,846.45	1/2	1,479.73	1/2	1,114.14	1/2	749.42	1/2	385.13	1/2	58.50	1/2	0	0	0	0	0
3/4	2,205.53	3/4	1,838.81	3/4	1,472.11	3/4	1,106.56	3/4	741.78	3/4	377.83	3/4	52.29	3/4	0	0	0	0	0
5	2,197.89	5	1,831.17	5	1,464.48	5	1,098.98	5	734.14	5	370.52	5	46.09	5	0	0	0	0	0
1/4	2,190.25	1/4	1,823.53	1/4	1,456.86	1/4	1,091.40	1/4	726.50	1/4	363.22	1/4	39.88	1/4	0	0	0	0	0
1/2	2,182.61	1/2	1,815.89	1/2	1,449.24	1/2	1,083.81	1/2	718.86	1/2	356.01	1/2	34.37	1/2	0	0	0	0	0
3/4	2,174.97	3/4	1,808.25	3/4	1,441.63	3/4	1,076.23	3/4	711.22	3/4	348.79	3/4	28.86	3/4	0	0	0	0	0
6	2,167.33	6	1,800.61	6	1,434.02	6	1,068.65	6	703.58	6	341.58	6	23.35	6	0	0	0	0	0
1/4	2,159.69	1/4	1,792.97	1/4	1,426.41	1/4	1,061.07	1/4	695.94	1/4	334.36	1/4	17.84	1/4	0	0	0	0	0
1/2	2,152.05	1/2	1,785.33	1/2	1,418.79	1/2	1,053.49	1/2	688.30	1/2	327.23	1/2	14.28	1/2	0	0	0	0	0
3/4	2,144.41	3/4	1,777.69	3/4	1,411.18	3/4	1,045.90	3/4	680.66	3/4	320.10	3/4	10.72	3/4	0	0	0	0	0
7	2,136.77	7	1,770.05	7	1,403.57	7	1,038.32	7	673.02	7	312.97	7	7.15	7	0	0	0	0	0
1/4	2,129.13	1/4	1,762.41	1/4	1,395.96	1/4	1,030.74	1/4	665.37	1/4	305.83	1/4	3.59	1/4	0	0	0	0	0
1/2	2,121.49	1/2	1,754.77	1/2	1,388.34	1/2	1,023.16	1/2	657.73	1/2	298.79	1/2	0	1/2	0	0	0	0	0
3/4	2,113.85	3/4	1,747.13	3/4	1,380.73	3/4	1,015.57	3/4	650.09	3/4	291.74	3/4	0	3/4	0	0	0	0	0
8	2,106.21	8	1,739.49	8	1,373.12	8	1,007.99	8	642.45	8	284.70	8	0	8	0	0	0	0	0
1/4	2,098.57	1/4	1,731.85	1/4	1,365.50	1/4	1,000.41	1/4	634.81	1/4	277.65	1/4	0	1/4	0	0	0	0	0
1/2	2,090.93	1/2	1,724.21	1/2	1,357.89	1/2	992.83	1/2	627.17	1/2	270.69	1/2	0	1/2	0	0	0	0	0
3/4	2,083.29	3/4	1,716.57	3/4	1,350.28	3/4	985.24	3/4	619.53	3/4	263.73	3/4	0	3/4	0	0	0	0	0
9	2,075.65	9	1,708.93	9	1,342.66	9	977.66	9	611.89	9	256.76	9	0	9	0	0	0	0	0
1/4	2,068.01	1/4	1,701.29	1/4	1,335.05	1/4	970.08	1/4	604.25	1/4	249.80	1/4	0	1/4	0	0	0	0	0
1/2	2,060.37	1/2	1,693.65	1/2	1,327.44	1/2	962.50	1/2	596.61	1/2	242.93	1/2	0	1/2	0	0	0	0	0
3/4	2,052.73	3/4	1,686.01	3/4	1,319.83	3/4	954.91	3/4	588.97	3/4	236.05	3/4	0	3/4	0	0	0	0	0
10	2,045.09	10	1,678.37	10	1,312.21	10	947.33	10	581.33	10	229.17	10	0	10	0	0	0	0	0
1/4	2,037.45	1/4	1,670.73	1/4	1,304.60	1/4	939.75	1/4	573.69	1/4	222.30	1/4	0	1/4	0	0	0	0	0
1/2	2,029.81	1/2	1,663.09	1/2	1,296.97	1/2	932.17	1/2	566.05	1/2	215.51	1/2	0	1/2	0	0	0	0	0
3/4	2,022.17	3/4	1,655.45	3/4	1,289.35	3/4	924.58	3/4	558.40	3/4	208.71	3/4	0	3/4	0	0	0	0	0
11	2,014.53	11	1,647.81	11	1,281.72	11	917.00	11	550.76	11	201.92	11	0	11	0	0	0	0	0
1/4	2,006.89	1/4	1,640.16	1/4	1,274.09	1/4	909.42	1/4	543.12	1/4	195.13	1/4	0	1/4	0	0	0	0	0
1/2	1,999.25	1/2	1,632.52	1/2	1,266.45	1/2	901.84	1/2	535.48	1/2	188.43	1/2	0	1/2	0	0	0	0	0
3/4	1,991.61	3/4	1,624.88	3/4	1,258.81	3/4	894.25	3/4	527.84	3/4	181.72	3/4	0	3/4	0	0	0	0	0

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 06/04/2009 CL - SW
 CALCULATED: 06/05/2009 CL
 PRINTED: 06/05/2009 CL

CANCELS AND SUPERCEDES
 ALL PRIOR TO 06/2009

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



BARGE "KIRBY 28104"

1 STBD

ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

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

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.

CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.

CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN WITH "HERMETIC" CLOSED GAUGING DEVICE.

GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 53'-03" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT & ANALYSIS, INC.

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



BARGE "KIRBY 28104"

1 STBD

ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

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	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN
0	2,365.95	0	1,999.45	0	1,632.94	0	1,267.09	0	901.56	0	535.16	0	188.31	0		0		0	
1/4	2,358.31	1/4	1,991.82	1/4	1,625.31	1/4	1,259.45	1/4	893.95	1/4	527.52	1/4	181.61	1/4		1/4		1/4	
1/2	2,350.68	1/2	1,984.18	1/2	1,617.67	1/2	1,251.82	1/2	886.34	1/2	519.88	1/2	174.90	1/2		1/2		1/2	
3/4	2,343.04	3/4	1,976.55	3/4	1,610.04	3/4	1,244.18	3/4	878.73	3/4	512.25	3/4	168.20	3/4		3/4		3/4	
1	2,335.41	1	1,968.91	1	1,602.40	1	1,236.54	1	871.10	1	504.63	1	161.59	1		1		1	
1/4	2,327.77	1/4	1,961.28	1/4	1,594.77	1/4	1,228.91	1/4	863.48	1/4	497.02	1/4	154.97	1/4		1/4		1/4	
1/2	2,320.14	1/2	1,953.64	1/2	1,587.13	1/2	1,221.27	1/2	855.86	1/2	489.40	1/2	148.36	1/2		1/2		1/2	
3/4	2,312.50	3/4	1,946.00	3/4	1,579.50	3/4	1,213.64	3/4	848.23	3/4	481.79	3/4	141.74	3/4		3/4		3/4	
2	2,304.86	2	1,938.37	2	1,571.86	2	1,206.00	2	840.60	2	474.24	2	135.22	2		2		2	
1/4	2,297.23	1/4	1,930.73	1/4	1,564.22	1/4	1,198.36	1/4	832.96	1/4	466.68	1/4	128.70	1/4		1/4		1/4	
1/2	2,289.59	1/2	1,923.10	1/2	1,556.59	1/2	1,190.73	1/2	825.33	1/2	459.13	1/2	122.17	1/2		1/2		1/2	
3/4	2,281.96	3/4	1,915.46	3/4	1,548.95	3/4	1,183.09	3/4	817.69	3/4	451.58	3/4	115.65	3/4		3/4		3/4	
3	2,274.32	3	1,907.83	3	1,541.32	3	1,175.47	3	810.05	3	444.11	3	109.23	3		3		3	
1/4	2,266.69	1/4	1,900.19	1/4	1,533.68	1/4	1,167.84	1/4	802.42	1/4	436.65	1/4	102.80	1/4		1/4		1/4	
1/2	2,259.05	1/2	1,892.55	1/2	1,526.05	1/2	1,160.22	1/2	794.78	1/2	429.18	1/2	96.37	1/2		1/2		1/2	
3/4	2,251.42	3/4	1,884.92	3/4	1,518.41	3/4	1,152.60	3/4	787.15	3/4	421.71	3/4	89.95	3/4		3/4		3/4	
4	2,243.78	4	1,877.28	4	1,510.77	4	1,144.99	4	779.51	4	414.33	4	83.63	4		4		4	
1/4	2,236.15	1/4	1,869.65	1/4	1,503.14	1/4	1,137.38	1/4	771.87	1/4	406.95	1/4	77.31	1/4		1/4		1/4	
1/2	2,228.51	1/2	1,862.01	1/2	1,495.50	1/2	1,129.77	1/2	764.24	1/2	399.57	1/2	70.98	1/2		1/2		1/2	
3/4	2,220.88	3/4	1,854.38	3/4	1,487.87	3/4	1,122.16	3/4	756.60	3/4	392.19	3/4	64.66	3/4		3/4		3/4	
5	2,213.24	5	1,846.74	5	1,480.25	5	1,114.55	5	748.97	5	384.89	5	58.46	5		5		5	
1/4	2,205.61	1/4	1,839.11	1/4	1,472.62	1/4	1,106.95	1/4	741.33	1/4	377.59	1/4	52.26	1/4		1/4		1/4	
1/2	2,197.97	1/2	1,831.47	1/2	1,465.00	1/2	1,099.34	1/2	733.70	1/2	370.30	1/2	46.06	1/2		1/2		1/2	
3/4	2,190.34	3/4	1,823.83	3/4	1,457.38	3/4	1,091.73	3/4	726.06	3/4	363.00	3/4	39.85	3/4		3/4		3/4	
6	2,182.70	6	1,816.20	6	1,449.77	6	1,084.13	6	718.42	6	355.79	6	34.35	6		6		6	
1/4	2,175.06	1/4	1,808.56	1/4	1,442.16	1/4	1,076.52	1/4	710.79	1/4	348.58	1/4	28.84	1/4		1/4		1/4	
1/2	2,167.43	1/2	1,800.93	1/2	1,434.56	1/2	1,068.91	1/2	703.15	1/2	341.37	1/2	23.34	1/2		1/2		1/2	
3/4	2,159.79	3/4	1,793.29	3/4	1,426.95	3/4	1,061.30	3/4	695.52	3/4	334.15	3/4	17.83	3/4		3/4		3/4	
7	2,152.16	7	1,785.66	7	1,419.34	7	1,053.70	7	687.88	7	327.03	7	14.27	7		7		7	
1/4	2,144.52	1/4	1,778.02	1/4	1,411.73	1/4	1,046.09	1/4	680.24	1/4	319.90	1/4	10.71	1/4		1/4		1/4	
1/2	2,136.89	1/2	1,770.39	1/2	1,404.12	1/2	1,038.48	1/2	672.61	1/2	312.77	1/2	7.15	1/2		1/2		1/2	
3/4	2,129.25	3/4	1,762.75	3/4	1,396.52	3/4	1,030.88	3/4	664.97	3/4	305.65	3/4	3.59	3/4		3/4		3/4	
8	2,121.62	8	1,755.11	8	1,388.91	8	1,023.27	8	657.34	8	298.60	8		8		8		8	
1/4	2,113.98	1/4	1,747.48	1/4	1,381.30	1/4	1,015.66	1/4	649.70	1/4	291.56	1/4		1/4		1/4		1/4	
1/2	2,106.35	1/2	1,739.84	1/2	1,373.69	1/2	1,008.06	1/2	642.06	1/2	284.52	1/2		1/2		1/2		1/2	
3/4	2,098.71	3/4	1,732.21	3/4	1,366.08	3/4	1,000.45	3/4	634.43	3/4	277.48	3/4		3/4		3/4		3/4	
9	2,091.08	9	1,724.57	9	1,358.47	9	992.84	9	626.79	9	270.52	9		9		9		9	
1/4	2,083.44	1/4	1,716.94	1/4	1,350.87	1/4	985.23	1/4	619.16	1/4	263.56	1/4		1/4		1/4		1/4	
1/2	2,075.81	1/2	1,709.30	1/2	1,343.26	1/2	977.63	1/2	611.52	1/2	256.61	1/2		1/2		1/2		1/2	
3/4	2,068.17	3/4	1,701.66	3/4	1,335.65	3/4	970.02	3/4	603.88	3/4	249.65	3/4		3/4		3/4		3/4	
10	2,060.54	10	1,694.03	10	1,328.04	10	962.41	10	596.25	10	242.78	10		10		10		10	
1/4	2,052.90	1/4	1,686.39	1/4	1,320.43	1/4	954.81	1/4	588.61	1/4	235.90	1/4		1/4		1/4		1/4	
1/2	2,045.26	1/2	1,678.76	1/2	1,312.82	1/2	947.20	1/2	580.97	1/2	229.03	1/2		1/2		1/2		1/2	
3/4	2,037.63	3/4	1,671.12	3/4	1,305.21	3/4	939.59	3/4	573.34	3/4	222.16	3/4		3/4		3/4		3/4	
11	2,029.99	11	1,663.49	11	1,297.59	11	931.99	11	565.70	11	215.37	11		11		11		11	
1/4	2,022.36	1/4	1,655.85	1/4	1,289.97	1/4	924.38	1/4	558.07	1/4	208.59	1/4		1/4		1/4		1/4	
1/2	2,014.72	1/2	1,648.22	1/2	1,282.35	1/2	916.77	1/2	550.43	1/2	201.80	1/2		1/2		1/2		1/2	
3/4	2,007.09	3/4	1,640.58	3/4	1,274.73	3/4	909.16	3/4	542.79	3/4	195.01	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 06/04/2009 CL - SW
 CALCULATED: 06/05/2009 CL
 PRINTED: 06/05/2009 CL

CANCELS AND SUPERCEDES
 ALL PRIOR TO 06/2009

PRECISION MEASUREMENT
 & ANALYSIS, INC.

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



BARGE "KIRBY 28104"

2 PORT

ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

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	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN
0	2,368.16	0	2,004.13	0	1,640.10	0	1,279.96	0	929.97	0	568.67	0	204.60	0		0		0	
1/4	2,360.57	1/4	1,996.55	1/4	1,632.52	1/4	1,272.37	1/4	922.70	1/4	561.08	1/4	197.02	1/4		1/4		1/4	
1/2	2,352.99	1/2	1,988.96	1/2	1,624.94	1/2	1,264.79	1/2	915.43	1/2	553.50	1/2	189.44	1/2		1/2		1/2	
3/4	2,345.40	3/4	1,981.38	3/4	1,617.35	3/4	1,257.20	3/4	908.16	3/4	545.91	3/4	181.86	3/4		3/4		3/4	
1	2,337.82	1	1,973.80	1	1,609.77	1	1,249.77	1	900.87	1	538.33	1	174.28	1		1		1	
1/4	2,330.24	1/4	1,966.21	1/4	1,602.19	1/4	1,242.34	1/4	893.59	1/4	530.74	1/4	166.71	1/4		1/4		1/4	
1/2	2,322.65	1/2	1,958.63	1/2	1,594.60	1/2	1,234.90	1/2	886.31	1/2	523.16	1/2	159.13	1/2		1/2		1/2	
3/4	2,315.07	3/4	1,951.04	3/4	1,587.02	3/4	1,227.47	3/4	879.03	3/4	515.56	3/4	151.56	3/4		3/4		3/4	
2	2,307.49	2	1,943.46	2	1,579.43	2	1,220.20	2	871.59	2	507.99	2	143.99	2		2		2	
1/4	2,299.90	1/4	1,935.88	1/4	1,571.85	1/4	1,212.93	1/4	864.16	1/4	500.40	1/4	136.43	1/4		1/4		1/4	
1/2	2,292.32	1/2	1,928.29	1/2	1,564.27	1/2	1,205.66	1/2	856.73	1/2	492.82	1/2	128.87	1/2		1/2		1/2	
3/4	2,284.73	3/4	1,920.71	3/4	1,556.68	3/4	1,198.39	3/4	849.29	3/4	485.23	3/4	121.30	3/4		3/4		3/4	
3	2,277.15	3	1,913.13	3	1,549.18	3	1,191.13	3	841.71	3	477.65	3	113.76	3		3		3	
1/4	2,269.57	1/4	1,905.54	1/4	1,541.68	1/4	1,183.88	1/4	834.13	1/4	470.06	1/4	106.22	1/4		1/4		1/4	
1/2	2,261.98	1/2	1,897.96	1/2	1,534.17	1/2	1,176.62	1/2	826.54	1/2	462.48	1/2	98.67	1/2		1/2		1/2	
3/4	2,254.40	3/4	1,890.37	3/4	1,526.67	3/4	1,169.36	3/4	818.96	3/4	454.89	3/4	91.13	3/4		3/4		3/4	
4	2,246.82	4	1,882.79	4	1,519.25	4	1,162.11	4	811.37	4	447.31	4	83.62	4		4		4	
1/4	2,239.23	1/4	1,875.21	1/4	1,511.83	1/4	1,154.86	1/4	803.79	1/4	439.73	1/4	76.11	1/4		1/4		1/4	
1/2	2,231.65	1/2	1,867.62	1/2	1,504.40	1/2	1,147.60	1/2	796.20	1/2	432.14	1/2	68.60	1/2		1/2		1/2	
3/4	2,224.06	3/4	1,860.04	3/4	1,496.98	3/4	1,140.35	3/4	788.62	3/4	424.56	3/4	61.09	3/4		3/4		3/4	
5	2,216.48	5	1,852.45	5	1,489.56	5	1,133.10	5	781.04	5	416.97	5	54.19	5		5		5	
1/4	2,208.90	1/4	1,844.87	1/4	1,482.14	1/4	1,125.84	1/4	773.45	1/4	409.39	1/4	47.29	1/4		1/4		1/4	
1/2	2,201.31	1/2	1,837.29	1/2	1,474.72	1/2	1,118.59	1/2	765.87	1/2	401.80	1/2	40.38	1/2		1/2		1/2	
3/4	2,193.73	3/4	1,829.70	3/4	1,467.30	3/4	1,111.33	3/4	758.28	3/4	394.22	3/4	33.48	3/4		3/4		3/4	
6	2,186.15	6	1,822.12	6	1,459.87	6	1,104.08	6	750.70	6	386.63	6	28.43	6		6		6	
1/4	2,178.56	1/4	1,814.53	1/4	1,452.45	1/4	1,096.83	1/4	743.11	1/4	379.05	1/4	23.37	1/4		1/4		1/4	
1/2	2,170.98	1/2	1,806.95	1/2	1,445.03	1/2	1,089.57	1/2	735.53	1/2	371.46	1/2	18.32	1/2		1/2		1/2	
3/4	2,163.40	3/4	1,799.37	3/4	1,437.61	3/4	1,082.32	3/4	727.94	3/4	363.88	3/4	13.27	3/4		3/4		3/4	
7	2,155.81	7	1,791.78	7	1,430.19	7	1,075.07	7	720.36	7	356.29	7		7		7		7	
1/4	2,148.23	1/4	1,784.20	1/4	1,422.77	1/4	1,067.81	1/4	712.78	1/4	348.71	1/4		1/4		1/4		1/4	
1/2	2,140.64	1/2	1,776.62	1/2	1,415.34	1/2	1,060.56	1/2	705.19	1/2	341.12	1/2		1/2		1/2		1/2	
3/4	2,133.06	3/4	1,769.03	3/4	1,407.92	3/4	1,053.30	3/4	697.61	3/4	333.54	3/4		3/4		3/4		3/4	
8	2,125.48	8	1,761.45	8	1,400.50	8	1,046.05	8	690.02	8	325.95	8		8		8		8	
1/4	2,117.89	1/4	1,753.86	1/4	1,393.08	1/4	1,038.80	1/4	682.44	1/4	318.37	1/4		1/4		1/4		1/4	
1/2	2,110.31	1/2	1,746.28	1/2	1,385.65	1/2	1,031.54	1/2	674.85	1/2	310.79	1/2		1/2		1/2		1/2	
3/4	2,102.73	3/4	1,738.70	3/4	1,378.23	3/4	1,024.29	3/4	667.27	3/4	303.20	3/4		3/4		3/4		3/4	
9	2,095.14	9	1,731.11	9	1,370.73	9	1,017.04	9	659.68	9	295.62	9		9		9		9	
1/4	2,087.56	1/4	1,723.53	1/4	1,363.23	1/4	1,009.78	1/4	652.10	1/4	288.03	1/4		1/4		1/4		1/4	
1/2	2,079.97	1/2	1,715.94	1/2	1,355.72	1/2	1,002.53	1/2	644.51	1/2	280.45	1/2		1/2		1/2		1/2	
3/4	2,072.39	3/4	1,708.36	3/4	1,348.22	3/4	995.28	3/4	636.93	3/4	272.86	3/4		3/4		3/4		3/4	
10	2,064.81	10	1,700.78	10	1,340.63	10	988.02	10	629.34	10	265.28	10		10		10		10	
1/4	2,057.22	1/4	1,693.19	1/4	1,333.05	1/4	980.77	1/4	621.76	1/4	257.69	1/4		1/4		1/4		1/4	
1/2	2,049.64	1/2	1,685.61	1/2	1,325.46	1/2	973.51	1/2	614.17	1/2	250.11	1/2		1/2		1/2		1/2	
3/4	2,042.06	3/4	1,678.02	3/4	1,317.88	3/4	966.26	3/4	606.59	3/4	242.52	3/4		3/4		3/4		3/4	
11	2,034.47	11	1,670.44	11	1,310.30	11	959.00	11	599.00	11	234.94	11		11		11		11	
1/4	2,026.89	1/4	1,662.86	1/4	1,302.71	1/4	951.75	1/4	591.42	1/4	227.35	1/4		1/4		1/4		1/4	
1/2	2,019.30	1/2	1,655.27	1/2	1,295.13	1/2	944.49	1/2	583.83	1/2	219.77	1/2		1/2		1/2		1/2	
3/4	2,011.72	3/4	1,647.69	3/4	1,287.54	3/4	937.24	3/4	576.25	3/4	212.19	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 06/04/2009 CL - SW
 CALCULATED: 06/05/2009 CL
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CANCELS AND SUPERCEDES
 ALL PRIOR TO 06/2009

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BARGE "KIRBY 28104"

2 STBD

ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12

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'-08" OFF CENTERLINE AND 52'-06" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT
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 Pearland, Texas 77588
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BARGE "KIRBY 28104"

2 STBD

ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-06 3/4"

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.	
IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0
0	2,384.13	0	2,020.06	0	1,655.99	0	1,295.80	0	932.79	0	568.73	0	204.63	0		0		0	
1/4	2,376.54	1/4	2,012.48	1/4	1,648.40	1/4	1,288.21	1/4	925.22	1/4	561.15	1/4	197.04	1/4		1/4		1/4	
1/2	2,368.96	1/2	2,004.89	1/2	1,640.82	1/2	1,280.63	1/2	917.65	1/2	553.58	1/2	189.46	1/2		1/2		1/2	
3/4	2,361.37	3/4	1,997.31	3/4	1,633.24	3/4	1,273.04	3/4	910.08	3/4	545.98	3/4	181.88	3/4		3/4		3/4	
1	2,353.79	1	1,989.72	1	1,625.65	1	1,265.46	1	902.49	1	538.39	1	174.30	1		1		1	
1/4	2,346.20	1/4	1,982.14	1/4	1,618.07	1/4	1,257.87	1/4	894.91	1/4	530.80	1/4	166.73	1/4		1/4		1/4	
1/2	2,338.62	1/2	1,974.55	1/2	1,610.48	1/2	1,250.29	1/2	887.32	1/2	523.22	1/2	159.15	1/2		1/2		1/2	
3/4	2,331.03	3/4	1,966.97	3/4	1,602.90	3/4	1,242.70	3/4	879.73	3/4	515.63	3/4	151.57	3/4		3/4		3/4	
2	2,323.45	2	1,959.38	2	1,595.31	2	1,235.13	2	872.15	2	508.05	2	144.01	2		2		2	
1/4	2,315.86	1/4	1,951.80	1/4	1,587.73	1/4	1,227.55	1/4	864.56	1/4	500.46	1/4	136.45	1/4		1/4		1/4	
1/2	2,308.28	1/2	1,944.21	1/2	1,580.14	1/2	1,219.98	1/2	856.98	1/2	492.88	1/2	128.88	1/2		1/2		1/2	
3/4	2,300.70	3/4	1,936.63	3/4	1,572.56	3/4	1,212.41	3/4	849.39	3/4	485.29	3/4	121.32	3/4		3/4		3/4	
3	2,293.11	3	1,929.04	3	1,565.05	3	1,204.85	3	841.81	3	477.71	3	113.77	3		3		3	
1/4	2,285.53	1/4	1,921.46	1/4	1,557.55	1/4	1,197.29	1/4	834.22	1/4	470.12	1/4	106.23	1/4		1/4		1/4	
1/2	2,277.94	1/2	1,913.87	1/2	1,550.05	1/2	1,189.73	1/2	826.64	1/2	462.53	1/2	98.69	1/2		1/2		1/2	
3/4	2,270.36	3/4	1,906.29	3/4	1,542.54	3/4	1,182.18	3/4	819.05	3/4	454.95	3/4	91.14	3/4		3/4		3/4	
4	2,262.77	4	1,898.70	4	1,535.12	4	1,174.62	4	811.47	4	447.36	4	83.63	4		4		4	
1/4	2,255.19	1/4	1,891.12	1/4	1,527.70	1/4	1,167.06	1/4	803.88	1/4	439.78	1/4	76.12	1/4		1/4		1/4	
1/2	2,247.60	1/2	1,883.53	1/2	1,520.27	1/2	1,159.51	1/2	796.30	1/2	432.19	1/2	68.61	1/2		1/2		1/2	
3/4	2,240.02	3/4	1,875.95	3/4	1,512.85	3/4	1,151.95	3/4	788.71	3/4	424.61	3/4	61.10	3/4		3/4		3/4	
5	2,232.43	5	1,868.36	5	1,505.43	5	1,144.39	5	781.13	5	417.02	5	54.20	5		5		5	
1/4	2,224.85	1/4	1,860.78	1/4	1,498.01	1/4	1,136.84	1/4	773.54	1/4	409.44	1/4	47.29	1/4		1/4		1/4	
1/2	2,217.26	1/2	1,853.19	1/2	1,490.58	1/2	1,129.28	1/2	765.96	1/2	401.85	1/2	40.39	1/2		1/2		1/2	
3/4	2,209.68	3/4	1,845.61	3/4	1,483.16	3/4	1,121.73	3/4	758.37	3/4	394.26	3/4	33.49	3/4		3/4		3/4	
6	2,202.10	6	1,838.02	6	1,475.74	6	1,114.17	6	750.79	6	386.68	6	28.43	6		6		6	
1/4	2,194.51	1/4	1,830.44	1/4	1,468.32	1/4	1,106.61	1/4	743.20	1/4	379.09	1/4	23.38	1/4		1/4		1/4	
1/2	2,186.93	1/2	1,822.86	1/2	1,460.89	1/2	1,099.06	1/2	735.62	1/2	371.51	1/2	18.32	1/2		1/2		1/2	
3/4	2,179.34	3/4	1,815.27	3/4	1,453.47	3/4	1,091.50	3/4	728.03	3/4	363.92	3/4	13.27	3/4		3/4		3/4	
7	2,171.76	7	1,807.69	7	1,446.05	7	1,083.94	7	720.45	7	356.34	7		7		7		7	
1/4	2,164.17	1/4	1,800.10	1/4	1,438.62	1/4	1,076.39	1/4	712.86	1/4	348.75	1/4		1/4		1/4		1/4	
1/2	2,156.59	1/2	1,792.52	1/2	1,431.20	1/2	1,068.83	1/2	705.28	1/2	341.16	1/2		1/2		1/2		1/2	
3/4	2,149.00	3/4	1,784.93	3/4	1,423.78	3/4	1,061.27	3/4	697.69	3/4	333.58	3/4		3/4		3/4		3/4	
8	2,141.42	8	1,777.35	8	1,416.35	8	1,053.72	8	690.10	8	325.99	8		8		8		8	
1/4	2,133.83	1/4	1,769.76	1/4	1,408.93	1/4	1,046.16	1/4	682.52	1/4	318.41	1/4		1/4		1/4		1/4	
1/2	2,126.25	1/2	1,762.18	1/2	1,401.51	1/2	1,038.61	1/2	674.93	1/2	310.82	1/2		1/2		1/2		1/2	
3/4	2,118.66	3/4	1,754.59	3/4	1,394.08	3/4	1,031.05	3/4	667.35	3/4	303.24	3/4		3/4		3/4		3/4	
9	2,111.08	9	1,747.01	9	1,386.58	9	1,023.49	9	659.76	9	295.65	9		9		9		9	
1/4	2,103.50	1/4	1,739.42	1/4	1,379.08	1/4	1,015.94	1/4	652.17	1/4	288.07	1/4		1/4		1/4		1/4	
1/2	2,095.91	1/2	1,731.84	1/2	1,371.57	1/2	1,008.38	1/2	644.59	1/2	280.48	1/2		1/2		1/2		1/2	
3/4	2,088.33	3/4	1,724.25	3/4	1,364.07	3/4	1,000.82	3/4	637.00	3/4	272.89	3/4		3/4		3/4		3/4	
10	2,080.74	10	1,716.67	10	1,356.48	10	993.27	10	629.42	10	265.31	10		10		10		10	
1/4	2,073.16	1/4	1,709.08	1/4	1,348.90	1/4	985.71	1/4	621.83	1/4	257.72	1/4		1/4		1/4		1/4	
1/2	2,065.57	1/2	1,701.50	1/2	1,341.31	1/2	978.16	1/2	614.25	1/2	250.14	1/2		1/2		1/2		1/2	
3/4	2,057.99	3/4	1,693.91	3/4	1,333.73	3/4	970.60	3/4	606.66	3/4	242.55	3/4		3/4		3/4		3/4	
11	2,050.40	11	1,686.33	11	1,326.14	11	963.04	11	599.08	11	234.97	11		11		11		11	
1/4	2,042.82	1/4	1,678.74	1/4	1,318.55	1/4	955.48	1/4	591.49	1/4	227.38	1/4		1/4		1/4		1/4	
1/2	2,035.23	1/2	1,671.16	1/2	1,310.97	1/2	947.92	1/2	583.90	1/2	219.80	1/2		1/2		1/2		1/2	
3/4	2,027.64	3/4	1,663.57	3/4	1,303.38	3/4	940.37	3/4	576.32	3/4	212.21	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 06/04/2009 CL - SW
 CALCULATED: 06/05/2009 CL
 PRINTED: 06/05/2009 CL

CANCELS AND SUPERCEDES
 ALL PRIOR TO 06/2009

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



BARGE "KIRBY 28104"

3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPWMS 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'-03" 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 28104"

3 PORT

ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

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	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN
0	2,289.59	0	1,926.23	0	1,562.97	0	1,204.11	0	850.26	0	493.33	0	129.91	0		0		0	
1/4	2,282.02	1/4	1,918.66	1/4	1,555.42	1/4	1,196.56	1/4	842.90	1/4	485.74	1/4	122.64	1/4		1/4		1/4	
1/2	2,274.45	1/2	1,911.09	1/2	1,547.88	1/2	1,189.00	1/2	835.53	1/2	478.15	1/2	116.31	1/2		1/2		1/2	
3/4	2,266.88	3/4	1,903.52	3/4	1,540.33	3/4	1,181.45	3/4	828.17	3/4	470.56	3/4	109.99	3/4		3/4		3/4	
1	2,259.31	1	1,895.95	1	1,532.78	1	1,173.89	1	820.80	1	462.97	1	103.66	1		1		1	
1/4	2,251.74	1/4	1,888.38	1/4	1,525.24	1/4	1,166.34	1/4	813.43	1/4	455.38	1/4	97.34	1/4		1/4		1/4	
1/2	2,244.17	1/2	1,880.81	1/2	1,517.69	1/2	1,158.89	1/2	806.05	1/2	447.79	1/2	92.28	1/2		1/2		1/2	
3/4	2,236.60	3/4	1,873.24	3/4	1,510.14	3/4	1,151.44	3/4	798.67	3/4	440.20	3/4	87.23	3/4		3/4		3/4	
2	2,229.03	2	1,865.67	2	1,502.60	2	1,143.99	2	791.29	2	432.61	2	82.18	2		2		2	
1/4	2,221.46	1/4	1,858.10	1/4	1,495.05	1/4	1,136.54	1/4	783.91	1/4	425.01	1/4	77.12	1/4		1/4		1/4	
1/2	2,213.89	1/2	1,850.53	1/2	1,487.50	1/2	1,129.20	1/2	776.53	1/2	417.42	1/2	73.34	1/2		1/2		1/2	
3/4	2,206.32	3/4	1,842.96	3/4	1,479.96	3/4	1,121.86	3/4	769.15	3/4	409.83	3/4	69.57	3/4		3/4		3/4	
3	2,198.75	3	1,835.39	3	1,472.41	3	1,114.52	3	761.77	3	402.24	3	65.79	3		3		3	
1/4	2,191.18	1/4	1,827.81	1/4	1,464.86	1/4	1,107.17	1/4	754.39	1/4	394.65	1/4	62.01	1/4		1/4		1/4	
1/2	2,183.61	1/2	1,820.24	1/2	1,457.40	1/2	1,099.84	1/2	747.01	1/2	387.06	1/2	59.51	1/2		1/2		1/2	
3/4	2,176.04	3/4	1,812.67	3/4	1,449.93	3/4	1,092.50	3/4	739.63	3/4	379.47	3/4	57.02	3/4		3/4		3/4	
4	2,168.47	4	1,805.10	4	1,442.47	4	1,085.17	4	732.25	4	371.88	4	54.53	4		4		4	
1/4	2,160.90	1/4	1,797.53	1/4	1,435.00	1/4	1,077.83	1/4	724.87	1/4	364.29	1/4	52.03	1/4		1/4		1/4	
1/2	2,153.33	1/2	1,789.96	1/2	1,427.60	1/2	1,070.50	1/2	717.49	1/2	356.69	1/2	50.83	1/2		1/2		1/2	
3/4	2,145.76	3/4	1,782.39	3/4	1,420.21	3/4	1,063.17	3/4	710.11	3/4	349.10	3/4	48.64	3/4		3/4		3/4	
5	2,138.19	5	1,774.82	5	1,412.81	5	1,055.83	5	702.72	5	341.51	5	48.44	5		5		5	
1/4	2,130.62	1/4	1,767.25	1/4	1,405.41	1/4	1,048.50	1/4	695.34	1/4	333.92	1/4	47.24	1/4		1/4		1/4	
1/2	2,123.05	1/2	1,759.68	1/2	1,398.00	1/2	1,041.17	1/2	687.96	1/2	326.33	1/2		1/2		1/2		1/2	
3/4	2,115.48	3/4	1,752.11	3/4	1,390.59	3/4	1,033.83	3/4	680.58	3/4	318.74	3/4		3/4		3/4		3/4	
6	2,107.91	6	1,744.54	6	1,383.18	6	1,026.50	6	673.20	6	311.15	6		6		6		6	
1/4	2,100.34	1/4	1,736.97	1/4	1,375.77	1/4	1,019.17	1/4	665.82	1/4	303.56	1/4		1/4		1/4		1/4	
1/2	2,092.77	1/2	1,729.40	1/2	1,368.37	1/2	1,011.83	1/2	658.44	1/2	295.97	1/2		1/2		1/2		1/2	
3/4	2,085.20	3/4	1,721.83	3/4	1,360.96	3/4	1,004.50	3/4	651.06	3/4	288.37	3/4		3/4		3/4		3/4	
7	2,077.63	7	1,714.26	7	1,353.55	7	997.17	7	643.68	7	280.78	7		7		7		7	
1/4	2,070.06	1/4	1,706.69	1/4	1,346.14	1/4	989.83	1/4	636.30	1/4	273.19	1/4		1/4		1/4		1/4	
1/2	2,062.49	1/2	1,699.12	1/2	1,338.73	1/2	982.50	1/2	628.92	1/2	265.60	1/2		1/2		1/2		1/2	
3/4	2,054.92	3/4	1,691.55	3/4	1,331.32	3/4	975.17	3/4	621.54	3/4	258.01	3/4		3/4		3/4		3/4	
8	2,047.35	8	1,683.98	8	1,323.91	8	967.83	8	614.16	8	250.42	8		8		8		8	
1/4	2,039.78	1/4	1,676.41	1/4	1,316.50	1/4	960.50	1/4	606.78	1/4	242.83	1/4		1/4		1/4		1/4	
1/2	2,032.21	1/2	1,668.84	1/2	1,309.10	1/2	953.16	1/2	599.29	1/2	235.24	1/2		1/2		1/2		1/2	
3/4	2,024.64	3/4	1,661.27	3/4	1,301.70	3/4	945.81	3/4	591.81	3/4	227.65	3/4		3/4		3/4		3/4	
9	2,017.07	9	1,653.70	9	1,294.30	9	938.47	9	584.32	9	220.05	9		9		9		9	
1/4	2,009.50	1/4	1,646.13	1/4	1,286.89	1/4	931.13	1/4	576.84	1/4	212.46	1/4		1/4		1/4		1/4	
1/2	2,001.93	1/2	1,638.56	1/2	1,279.42	1/2	923.78	1/2	569.25	1/2	204.87	1/2		1/2		1/2		1/2	
3/4	1,994.36	3/4	1,630.99	3/4	1,271.95	3/4	916.43	3/4	561.65	3/4	197.28	3/4		3/4		3/4		3/4	
10	1,986.79	10	1,623.42	10	1,264.47	10	909.07	10	554.06	10	189.69	10		10		10		10	
1/4	1,979.22	1/4	1,615.85	1/4	1,257.00	1/4	901.72	1/4	546.47	1/4	182.10	1/4		1/4		1/4		1/4	
1/2	1,971.65	1/2	1,608.29	1/2	1,249.44	1/2	894.37	1/2	538.88	1/2	174.51	1/2		1/2		1/2		1/2	
3/4	1,964.08	3/4	1,600.73	3/4	1,241.89	3/4	887.02	3/4	531.29	3/4	166.92	3/4		3/4		3/4		3/4	
11	1,956.51	11	1,593.17	11	1,234.33	11	879.67	11	523.70	11	159.33	11		11		11		11	
1/4	1,948.94	1/4	1,585.61	1/4	1,226.78	1/4	872.32	1/4	516.11	1/4	151.73	1/4		1/4		1/4		1/4	
1/2	1,941.37	1/2	1,578.02	1/2	1,219.22	1/2	864.96	1/2	508.52	1/2	144.46	1/2		1/2		1/2		1/2	
3/4	1,933.80	3/4	1,570.47	3/4	1,211.67	3/4	857.61	3/4	500.93	3/4	137.19	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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 ALL PRIOR TO 06/2009

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



BARGE "KIRBY 28104"

3 STBD

ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.	
IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0
0	2,311.14	0	1,946.64	0	1,582.13	0	1,221.50	0	858.02	0	493.57	0	129.97	0		0		0	
1/4	2,303.55	1/4	1,939.05	1/4	1,574.54	1/4	1,213.91	1/4	850.45	1/4	485.97	1/4	122.69	1/4		1/4		1/4	
1/2	2,295.95	1/2	1,931.45	1/2	1,566.94	1/2	1,206.31	1/2	842.87	1/2	478.38	1/2	116.37	1/2		1/2		1/2	
3/4	2,288.36	3/4	1,923.86	3/4	1,559.35	3/4	1,198.72	3/4	835.29	3/4	470.78	3/4	110.04	3/4		3/4		3/4	
1	2,280.76	1	1,916.26	1	1,551.76	1	1,191.12	1	827.71	1	463.19	1	103.71	1		1		1	
1/4	2,273.17	1/4	1,908.67	1/4	1,544.16	1/4	1,183.53	1/4	820.13	1/4	455.60	1/4	97.38	1/4		1/4		1/4	
1/2	2,265.58	1/2	1,901.08	1/2	1,536.57	1/2	1,175.94	1/2	812.53	1/2	448.00	1/2	92.33	1/2		1/2		1/2	
3/4	2,257.98	3/4	1,893.48	3/4	1,528.98	3/4	1,168.34	3/4	804.94	3/4	440.41	3/4	87.27	3/4		3/4		3/4	
2	2,250.39	2	1,885.89	2	1,521.38	2	1,160.75	2	797.35	2	432.81	2	82.21	2		2		2	
1/4	2,242.80	1/4	1,878.29	1/4	1,513.79	1/4	1,153.15	1/4	789.75	1/4	425.22	1/4	77.16	1/4		1/4		1/4	
1/2	2,235.20	1/2	1,870.70	1/2	1,506.19	1/2	1,145.57	1/2	782.16	1/2	417.62	1/2	73.38	1/2		1/2		1/2	
3/4	2,227.61	3/4	1,863.11	3/4	1,498.60	3/4	1,137.99	3/4	774.56	3/4	410.03	3/4	69.60	3/4		3/4		3/4	
3	2,220.01	3	1,855.51	3	1,491.01	3	1,130.41	3	766.97	3	402.43	3	65.82	3		3		3	
1/4	2,212.42	1/4	1,847.92	1/4	1,483.41	1/4	1,122.82	1/4	759.37	1/4	394.84	1/4	62.04	1/4		1/4		1/4	
1/2	2,204.83	1/2	1,840.33	1/2	1,475.80	1/2	1,115.26	1/2	751.78	1/2	387.24	1/2	59.54	1/2		1/2		1/2	
3/4	2,197.23	3/4	1,832.73	3/4	1,468.19	3/4	1,107.69	3/4	744.19	3/4	379.65	3/4	57.05	3/4		3/4		3/4	
4	2,189.64	4	1,825.14	4	1,460.57	4	1,100.12	4	736.59	4	372.05	4	54.55	4		4		4	
1/4	2,182.05	1/4	1,817.54	1/4	1,453.36	1/4	1,092.56	1/4	729.00	1/4	364.46	1/4	52.06	1/4		1/4		1/4	
1/2	2,174.45	1/2	1,809.95	1/2	1,445.93	1/2	1,084.99	1/2	721.40	1/2	356.86	1/2	50.86	1/2		1/2		1/2	
3/4	2,166.86	3/4	1,802.36	3/4	1,438.50	3/4	1,077.42	3/4	713.81	3/4	349.27	3/4	49.66	3/4		3/4		3/4	
5	2,159.27	5	1,794.76	5	1,431.06	5	1,069.86	5	706.21	5	341.67	5	48.46	5		5		5	
1/4	2,151.67	1/4	1,787.17	1/4	1,423.63	1/4	1,062.29	1/4	698.62	1/4	334.08	1/4	47.26	1/4		1/4		1/4	
1/2	2,144.08	1/2	1,779.57	1/2	1,416.20	1/2	1,054.73	1/2	691.03	1/2	326.49	1/2	46.06	1/2		1/2		1/2	
3/4	2,136.48	3/4	1,771.98	3/4	1,408.77	3/4	1,047.16	3/4	683.43	3/4	318.89	3/4	44.86	3/4		3/4		3/4	
6	2,128.89	6	1,764.39	6	1,401.34	6	1,039.60	6	675.84	6	311.30	6	43.66	6		6		6	
1/4	2,121.30	1/4	1,756.79	1/4	1,393.90	1/4	1,032.03	1/4	668.24	1/4	303.70	1/4	42.46	1/4		1/4		1/4	
1/2	2,113.70	1/2	1,749.20	1/2	1,386.47	1/2	1,024.47	1/2	660.65	1/2	296.11	1/2	41.26	1/2		1/2		1/2	
3/4	2,106.11	3/4	1,741.60	3/4	1,379.04	3/4	1,016.90	3/4	653.05	3/4	288.51	3/4	40.06	3/4		3/4		3/4	
7	2,098.52	7	1,734.01	7	1,371.61	7	1,009.34	7	645.46	7	280.92	7	38.86	7		7		7	
1/4	2,090.92	1/4	1,726.42	1/4	1,364.18	1/4	1,001.77	1/4	637.87	1/4	273.32	1/4	37.66	1/4		1/4		1/4	
1/2	2,083.33	1/2	1,718.82	1/2	1,356.74	1/2	994.21	1/2	630.27	1/2	265.73	1/2	36.46	1/2		1/2		1/2	
3/4	2,075.73	3/4	1,711.23	3/4	1,349.31	3/4	986.64	3/4	622.68	3/4	258.13	3/4	35.26	3/4		3/4		3/4	
8	2,068.14	8	1,703.63	8	1,341.88	8	979.07	8	615.08	8	250.54	8	34.06	8		8		8	
1/4	2,060.55	1/4	1,696.04	1/4	1,334.45	1/4	971.51	1/4	607.49	1/4	242.94	1/4	32.86	1/4		1/4		1/4	
1/2	2,052.95	1/2	1,688.45	1/2	1,327.02	1/2	963.94	1/2	599.89	1/2	235.35	1/2	31.66	1/2		1/2		1/2	
3/4	2,045.36	3/4	1,680.85	3/4	1,319.58	3/4	956.38	3/4	592.30	3/4	227.75	3/4	30.46	3/4		3/4		3/4	
9	2,037.77	9	1,673.26	9	1,312.15	9	948.81	9	584.70	9	220.16	9	29.26	9		9		9	
1/4	2,030.17	1/4	1,665.67	1/4	1,304.72	1/4	941.25	1/4	577.11	1/4	212.56	1/4	28.06	1/4		1/4		1/4	
1/2	2,022.58	1/2	1,658.07	1/2	1,297.20	1/2	933.68	1/2	569.52	1/2	204.97	1/2	26.86	1/2		1/2		1/2	
3/4	2,014.98	3/4	1,650.48	3/4	1,289.69	3/4	926.12	3/4	561.92	3/4	197.38	3/4	25.66	3/4		3/4		3/4	
10	2,007.39	10	1,642.88	10	1,282.18	10	918.55	10	554.33	10	189.78	10	24.46	10		10		10	
1/4	1,999.80	1/4	1,635.29	1/4	1,274.67	1/4	910.99	1/4	546.73	1/4	182.19	1/4	23.26	1/4		1/4		1/4	
1/2	1,992.20	1/2	1,627.67	1/2	1,267.07	1/2	903.42	1/2	539.14	1/2	174.59	1/2	22.06	1/2		1/2		1/2	
3/4	1,984.61	3/4	1,620.10	3/4	1,259.48	3/4	895.86	3/4	531.54	3/4	167.00	3/4	20.86	3/4		3/4		3/4	
11	1,977.02	11	1,612.51	11	1,251.88	11	888.29	11	523.95	11	159.40	11	19.66	11		11		11	
1/4	1,969.42	1/4	1,604.91	1/4	1,244.29	1/4	880.72	1/4	516.35	1/4	151.81	1/4	18.46	1/4		1/4		1/4	
1/2	1,961.83	1/2	1,597.32	1/2	1,236.69	1/2	873.16	1/2	508.76	1/2	144.53	1/2	17.26	1/2		1/2		1/2	
3/4	1,954.23	3/4	1,589.73	3/4	1,229.10	3/4	865.59	3/4	501.16	3/4	137.25	3/4	16.06	3/4		3/4		3/4	

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