



# BARGE "KIRBY 28113"

ULLAGE TRIM TABLE

	1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.	
	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>
1 PORT	00-1/2	- 00-1/2	00-7/8	- 00-7/8	01-3/8	- 01-3/8	01-3/4	- 01-3/4	02-1/4	- 02-1/4	02-3/4	- 02-3/4
1 STBD	00-1/2	- 00-1/2	00-7/8	- 00-7/8	01-3/8	- 01-3/8	01-3/4	- 01-3/4	02-1/4	- 02-1/4	02-3/4	- 02-3/4
2 PORT	00-1/2	- 00-1/2	00-7/8	- 00-7/8	01-3/8	- 01-3/8	01-3/4	- 01-3/4	02-1/4	- 02-1/4	02-3/4	- 02-3/4
2 STBD	00-1/2	- 00-1/2	00-7/8	- 00-7/8	01-3/8	- 01-3/8	01-3/4	- 01-3/4	02-1/4	- 02-1/4	02-3/4	- 02-3/4
3 PORT	00-1/2	- 00-1/2	00-7/8	- 00-7/8	01-3/8	- 01-3/8	01-3/4	- 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'-09"

August 7, 2009

**PRECISION MEASUREMENT  
 & ANALYSIS, INC.**  
 P.O. Box 2092  
 Pearland, Texas 77588

<http://www.pmacorp.net>



# BARGE "KIRBY 28113"

# 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	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

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.

CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.

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

GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 53'-00" FORWARD OF AFT BULKHEAD.

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# BARGE "KIRBY 28113"

## 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	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN
0	2,357.49	0	1,990.91	0	1,624.31	0	1,258.36	0	893.93	0	527.65	0	181.66	0		0		0	
1/4	2,349.85	1/4	1,983.27	1/4	1,616.67	1/4	1,250.73	1/4	886.35	1/4	520.02	1/4	174.95	1/4		1/4		1/4	
1/2	2,342.22	1/2	1,975.64	1/2	1,609.04	1/2	1,243.09	1/2	878.77	1/2	512.38	1/2	168.25	1/2		1/2		1/2	
3/4	2,334.58	3/4	1,968.00	3/4	1,601.40	3/4	1,235.45	3/4	871.18	3/4	504.76	3/4	161.63	3/4		3/4		3/4	
1	2,326.94	1	1,960.36	1	1,593.76	1	1,227.81	1	863.58	1	497.14	1	155.01	1		1		1	
1/4	2,319.31	1/4	1,952.72	1/4	1,586.12	1/4	1,220.17	1/4	855.98	1/4	489.53	1/4	148.40	1/4		1/4		1/4	
1/2	2,311.67	1/2	1,945.09	1/2	1,578.49	1/2	1,212.54	1/2	848.39	1/2	481.91	1/2	141.78	1/2		1/2		1/2	
3/4	2,304.03	3/4	1,937.45	3/4	1,570.85	3/4	1,204.91	3/4	840.76	3/4	474.36	3/4	135.26	3/4		3/4		3/4	
2	2,296.39	2	1,929.81	2	1,563.21	2	1,197.29	2	833.14	2	466.80	2	128.73	2		2		2	
1/4	2,288.76	1/4	1,922.17	1/4	1,555.57	1/4	1,189.67	1/4	825.52	1/4	459.25	1/4	122.21	1/4		1/4		1/4	
1/2	2,281.12	1/2	1,914.54	1/2	1,547.94	1/2	1,182.04	1/2	817.90	1/2	451.70	1/2	115.68	1/2		1/2		1/2	
3/4	2,273.48	3/4	1,906.90	3/4	1,540.30	3/4	1,174.45	3/4	810.26	3/4	444.23	3/4	109.26	3/4		3/4		3/4	
3	2,265.84	3	1,899.26	3	1,532.66	3	1,166.85	3	802.62	3	436.76	3	102.83	3		3		3	
1/4	2,258.21	1/4	1,891.62	1/4	1,525.02	1/4	1,159.25	1/4	794.98	1/4	429.29	1/4	96.40	1/4		1/4		1/4	
1/2	2,250.57	1/2	1,883.99	1/2	1,517.39	1/2	1,151.66	1/2	787.34	1/2	421.82	1/2	89.97	1/2		1/2		1/2	
3/4	2,242.93	3/4	1,876.35	3/4	1,509.75	3/4	1,144.08	3/4	779.71	3/4	414.44	3/4	83.55	3/4		3/4		3/4	
4	2,235.30	4	1,868.71	4	1,502.11	4	1,136.49	4	772.07	4	407.06	4	77.33	4		4		4	
1/4	2,227.66	1/4	1,861.07	1/4	1,494.47	1/4	1,128.91	1/4	764.43	1/4	399.67	1/4	71.01	1/4		1/4		1/4	
1/2	2,220.02	1/2	1,853.44	1/2	1,486.84	1/2	1,121.33	1/2	756.79	1/2	392.29	1/2	64.68	1/2		1/2		1/2	
3/4	2,212.38	3/4	1,845.80	3/4	1,479.21	3/4	1,113.75	3/4	749.16	3/4	384.99	3/4	58.48	3/4		3/4		3/4	
5	2,204.75	5	1,838.16	5	1,471.59	5	1,106.17	5	741.52	5	377.69	5	52.27	5		5		5	
1/4	2,197.11	1/4	1,830.52	1/4	1,463.96	1/4	1,098.59	1/4	733.88	1/4	370.39	1/4	46.07	1/4		1/4		1/4	
1/2	2,189.47	1/2	1,822.89	1/2	1,456.34	1/2	1,091.01	1/2	726.24	1/2	363.10	1/2	39.87	1/2		1/2		1/2	
3/4	2,181.84	3/4	1,815.25	3/4	1,448.73	3/4	1,083.43	3/4	718.60	3/4	355.88	3/4	34.36	3/4		3/4		3/4	
6	2,174.20	6	1,807.61	6	1,441.12	6	1,075.85	6	710.97	6	348.47	6	28.85	6		6		6	
1/4	2,166.56	1/4	1,799.97	1/4	1,433.51	1/4	1,068.27	1/4	703.33	1/4	341.45	1/4	23.34	1/4		1/4		1/4	
1/2	2,158.92	1/2	1,792.34	1/2	1,425.90	1/2	1,060.69	1/2	695.69	1/2	334.24	1/2	17.84	1/2		1/2		1/2	
3/4	2,151.29	3/4	1,784.70	3/4	1,418.29	3/4	1,053.11	3/4	688.05	3/4	327.11	3/4	14.27	3/4		3/4		3/4	
7	2,143.65	7	1,777.06	7	1,410.68	7	1,045.53	7	680.42	7	319.98	7	10.71	7		7		7	
1/4	2,136.01	1/4	1,769.42	1/4	1,403.07	1/4	1,037.95	1/4	672.78	1/4	312.85	1/4	7.15	1/4		1/4		1/4	
1/2	2,128.38	1/2	1,761.79	1/2	1,395.46	1/2	1,030.37	1/2	665.14	1/2	305.73	1/2	3.59	1/2		1/2		1/2	
3/4	2,120.74	3/4	1,754.15	3/4	1,387.85	3/4	1,022.79	3/4	657.50	3/4	298.68	3/4		3/4		3/4		3/4	
8	2,113.10	8	1,746.51	8	1,380.24	8	1,015.21	8	649.86	8	291.64	8		8		8		8	
1/4	2,105.46	1/4	1,738.87	1/4	1,372.63	1/4	1,007.63	1/4	642.23	1/4	284.59	1/4		1/4		1/4		1/4	
1/2	2,097.83	1/2	1,731.24	1/2	1,365.02	1/2	1,000.05	1/2	634.59	1/2	277.55	1/2		1/2		1/2		1/2	
3/4	2,090.19	3/4	1,723.60	3/4	1,357.41	3/4	992.48	3/4	626.95	3/4	270.59	3/4		3/4		3/4		3/4	
9	2,082.55	9	1,715.96	9	1,349.80	9	984.90	9	619.31	9	263.63	9		9		9		9	
1/4	2,074.91	1/4	1,708.32	1/4	1,342.19	1/4	977.32	1/4	611.67	1/4	256.67	1/4		1/4		1/4		1/4	
1/2	2,067.28	1/2	1,700.69	1/2	1,334.58	1/2	969.74	1/2	604.04	1/2	249.72	1/2		1/2		1/2		1/2	
3/4	2,059.64	3/4	1,693.05	3/4	1,326.97	3/4	962.16	3/4	596.40	3/4	242.84	3/4		3/4		3/4		3/4	
10	2,052.00	10	1,685.41	10	1,319.36	10	954.58	10	588.76	10	235.97	10		10		10		10	
1/4	2,044.37	1/4	1,677.77	1/4	1,311.75	1/4	947.00	1/4	581.12	1/4	229.09	1/4		1/4		1/4		1/4	
1/2	2,036.73	1/2	1,670.14	1/2	1,304.14	1/2	939.42	1/2	573.48	1/2	222.22	1/2		1/2		1/2		1/2	
3/4	2,029.09	3/4	1,662.50	3/4	1,296.51	3/4	931.84	3/4	565.85	3/4	215.43	3/4		3/4		3/4		3/4	
11	2,021.45	11	1,654.86	11	1,288.89	11	924.26	11	558.21	11	208.64	11		11		11		11	
1/4	2,013.82	1/4	1,647.22	1/4	1,281.27	1/4	916.68	1/4	550.57	1/4	201.85	1/4		1/4		1/4		1/4	
1/2	2,006.18	1/2	1,639.59	1/2	1,273.64	1/2	909.10	1/2	542.93	1/2	195.06	1/2		1/2		1/2		1/2	
3/4	1,998.54	3/4	1,631.95	3/4	1,266.00	3/4	901.52	3/4	535.29	3/4	188.36	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 08/06/2009 CL - SW  
CALCULATED: 08/07/2009 CL  
PRINTED: 08/07/2009 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 08/2009

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



# BARGE "KIRBY 28113"

## 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	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'-09" OFF CENTERLINE AND 53'-00" 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 28113"

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

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 08/06/2009 CL - SW  
CALCULATED: 08/07/2009 CL  
PRINTED: 08/07/2009 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 08/2009

PRECISION MEASUREMENT  
& ANALYSIS, INC.

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



# BARGE "KIRBY 28113"

## 2 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
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	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

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 28113"

## 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	2,366.74	0	2,002.94	0	1,639.13	0	1,279.19	0	929.41	0	588.33	0	204.48	0	0	0	0	0	0
1/4	2,359.16	1/4	1,995.36	1/4	1,631.55	1/4	1,271.61	1/4	922.15	1/4	580.75	1/4	196.90	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,351.58	1/2	1,987.78	1/2	1,623.97	1/2	1,264.03	1/2	914.88	1/2	573.17	1/2	189.33	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,344.01	3/4	1,980.20	3/4	1,616.39	3/4	1,256.45	3/4	907.62	3/4	565.59	3/4	181.75	3/4	3/4	3/4	3/4	3/4	3/4
1	2,336.43	1	1,972.62	1	1,608.81	1	1,249.02	1	900.34	1	558.01	1	174.18	1	1	1	1	1	1
1/4	2,328.85	1/4	1,965.04	1/4	1,601.23	1/4	1,241.59	1/4	893.06	1/4	550.43	1/4	166.61	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,321.27	1/2	1,957.46	1/2	1,593.65	1/2	1,234.17	1/2	885.78	1/2	542.85	1/2	159.04	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,313.69	3/4	1,949.88	3/4	1,586.07	3/4	1,226.74	3/4	878.50	3/4	535.27	3/4	151.47	3/4	3/4	3/4	3/4	3/4	3/4
2	2,306.11	2	1,942.30	2	1,578.49	2	1,219.47	2	871.07	2	527.69	2	143.91	2	2	2	2	2	2
1/4	2,298.53	1/4	1,934.72	1/4	1,570.91	1/4	1,212.20	1/4	863.64	1/4	520.11	1/4	136.35	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,290.95	1/2	1,927.14	1/2	1,563.33	1/2	1,204.94	1/2	856.22	1/2	512.53	1/2	128.79	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,283.37	3/4	1,919.56	3/4	1,555.75	3/4	1,197.67	3/4	848.79	3/4	504.94	3/4	121.23	3/4	3/4	3/4	3/4	3/4	3/4
3	2,275.79	3	1,911.99	3	1,548.25	3	1,190.42	3	841.21	3	497.36	3	113.69	3	3	3	3	3	3
1/4	2,268.21	1/4	1,904.41	1/4	1,540.76	1/4	1,183.17	1/4	833.63	1/4	489.78	1/4	106.15	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,260.63	1/2	1,896.83	1/2	1,533.26	1/2	1,175.92	1/2	826.05	1/2	482.20	1/2	98.62	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,253.06	3/4	1,889.25	3/4	1,525.76	3/4	1,168.66	3/4	818.47	3/4	474.62	3/4	91.08	3/4	3/4	3/4	3/4	3/4	3/4
4	2,245.48	4	1,881.67	4	1,518.34	4	1,161.42	4	810.89	4	467.04	4	83.57	4	4	4	4	4	4
1/4	2,237.90	1/4	1,874.09	1/4	1,510.92	1/4	1,154.17	1/4	803.31	1/4	459.46	1/4	76.07	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,230.32	1/2	1,866.51	1/2	1,503.51	1/2	1,146.92	1/2	795.73	1/2	451.88	1/2	68.56	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,222.74	3/4	1,858.93	3/4	1,496.09	3/4	1,139.67	3/4	788.15	3/4	444.30	3/4	61.06	3/4	3/4	3/4	3/4	3/4	3/4
5	2,215.16	5	1,851.35	5	1,488.67	5	1,132.42	5	780.57	5	436.72	5	54.16	5	5	5	5	5	5
1/4	2,207.58	1/4	1,843.77	1/4	1,481.26	1/4	1,125.17	1/4	772.99	1/4	429.14	1/4	47.26	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,200.00	1/2	1,836.19	1/2	1,473.84	1/2	1,117.92	1/2	765.41	1/2	421.56	1/2	40.36	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,192.42	3/4	1,828.61	3/4	1,466.42	3/4	1,110.67	3/4	757.83	3/4	414.38	3/4	33.46	3/4	3/4	3/4	3/4	3/4	3/4
6	2,184.84	6	1,821.03	6	1,459.00	6	1,103.42	6	750.25	6	407.20	6	28.41	6	6	6	6	6	6
1/4	2,177.26	1/4	1,813.45	1/4	1,451.59	1/4	1,096.17	1/4	742.67	1/4	400.02	1/4	23.36	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,169.68	1/2	1,805.87	1/2	1,444.17	1/2	1,088.92	1/2	735.09	1/2	392.84	1/2	18.31	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,162.10	3/4	1,798.29	3/4	1,436.75	3/4	1,081.67	3/4	727.51	3/4	385.66	3/4	13.26	3/4	3/4	3/4	3/4	3/4	3/4
7	2,154.53	7	1,790.71	7	1,429.33	7	1,074.42	7	719.93	7	378.48	7	8.21	7	7	7	7	7	7
1/4	2,146.95	1/4	1,783.14	1/4	1,421.92	1/4	1,067.17	1/4	712.35	1/4	371.30	1/4	3.16	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,139.37	1/2	1,775.56	1/2	1,414.50	1/2	1,059.93	1/2	704.77	1/2	364.12	1/2	0.11	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,131.79	3/4	1,767.98	3/4	1,407.08	3/4	1,052.68	3/4	697.19	3/4	356.94	3/4	0.06	3/4	3/4	3/4	3/4	3/4	3/4
8	2,124.21	8	1,760.40	8	1,399.66	8	1,045.43	8	689.61	8	349.76	8	0.01	8	8	8	8	8	8
1/4	2,116.63	1/4	1,752.82	1/4	1,392.25	1/4	1,038.18	1/4	682.03	1/4	342.58	1/4	0.00	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,109.05	1/2	1,745.24	1/2	1,384.83	1/2	1,030.93	1/2	674.45	1/2	335.40	1/2	0.00	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,101.47	3/4	1,737.66	3/4	1,377.41	3/4	1,023.68	3/4	666.87	3/4	328.22	3/4	0.00	3/4	3/4	3/4	3/4	3/4	3/4
9	2,093.89	9	1,730.08	9	1,369.91	9	1,016.43	9	659.29	9	321.04	9	0.00	9	9	9	9	9	9
1/4	2,086.31	1/4	1,722.50	1/4	1,362.41	1/4	1,009.18	1/4	651.71	1/4	313.86	1/4	0.00	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,078.73	1/2	1,714.92	1/2	1,354.91	1/2	1,001.93	1/2	644.13	1/2	306.68	1/2	0.00	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,071.15	3/4	1,707.34	3/4	1,347.41	3/4	994.68	3/4	636.55	3/4	299.50	3/4	0.00	3/4	3/4	3/4	3/4	3/4	3/4
10	2,063.58	10	1,699.76	10	1,339.83	10	987.43	10	628.97	10	292.32	10	0.00	10	10	10	10	10	10
1/4	2,056.00	1/4	1,692.18	1/4	1,332.25	1/4	980.18	1/4	621.39	1/4	285.14	1/4	0.00	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,048.42	1/2	1,684.60	1/2	1,324.67	1/2	972.93	1/2	613.81	1/2	277.96	1/2	0.00	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,040.84	3/4	1,677.02	3/4	1,317.09	3/4	965.68	3/4	606.23	3/4	270.78	3/4	0.00	3/4	3/4	3/4	3/4	3/4	3/4
11	2,033.26	11	1,669.44	11	1,309.51	11	958.43	11	598.65	11	263.60	11	0.00	11	11	11	11	11	11
1/4	2,025.68	1/4	1,661.86	1/4	1,301.93	1/4	951.18	1/4	591.07	1/4	256.42	1/4	0.00	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,018.10	1/2	1,654.29	1/2	1,294.35	1/2	943.93	1/2	583.49	1/2	249.24	1/2	0.00	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,010.52	3/4	1,646.71	3/4	1,286.77	3/4	936.68	3/4	575.91	3/4	242.06	3/4	0.00	3/4	3/4	3/4	3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 08/06/2009 CL - SW  
CALCULATED: 08/07/2009 CL  
PRINTED: 08/07/2009 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 08/2009

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



# BARGE "KIRBY 28113"

## 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
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	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

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

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 2082  
 Pearland, Texas 77588  
<http://www.pmacorp.net>







# BARGE "KIRBY 28113"

## 2 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	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT
0	2,390.57	0	2,026.68	0	1,662.78	0	1,302.76	0	939.92	0	576.04	0	212.11	0		0		0	
1/4	2,382.99	1/4	2,019.10	1/4	1,655.20	1/4	1,295.18	1/4	932.35	1/4	568.46	1/4	204.53	1/4		1/4		1/4	
1/2	2,375.41	1/2	2,011.51	1/2	1,647.62	1/2	1,287.60	1/2	924.78	1/2	560.88	1/2	196.95	1/2		1/2		1/2	
3/4	2,367.83	3/4	2,003.93	3/4	1,640.04	3/4	1,280.02	3/4	917.21	3/4	553.30	3/4	189.37	3/4		3/4		3/4	
1	2,360.24	1	1,996.35	1	1,632.45	1	1,272.43	1	909.64	1	545.72	1	181.79	1		1		1	
1/4	2,352.66	1/4	1,988.77	1/4	1,624.87	1/4	1,264.85	1/4	902.06	1/4	538.13	1/4	174.22	1/4		1/4		1/4	
1/2	2,345.08	1/2	1,981.19	1/2	1,617.29	1/2	1,257.27	1/2	894.48	1/2	530.55	1/2	166.65	1/2		1/2		1/2	
3/4	2,337.50	3/4	1,973.61	3/4	1,609.71	3/4	1,249.69	3/4	886.89	3/4	522.97	3/4	159.07	3/4		3/4		3/4	
2	2,329.92	2	1,966.03	2	1,602.13	2	1,242.11	2	879.31	2	515.39	2	151.50	2		2		2	
1/4	2,322.34	1/4	1,958.45	1/4	1,594.55	1/4	1,234.54	1/4	871.73	1/4	507.81	1/4	143.94	1/4		1/4		1/4	
1/2	2,314.76	1/2	1,950.87	1/2	1,586.97	1/2	1,226.97	1/2	864.15	1/2	500.22	1/2	136.38	1/2		1/2		1/2	
3/4	2,307.18	3/4	1,943.28	3/4	1,579.39	3/4	1,219.40	3/4	856.57	3/4	492.64	3/4	128.82	3/4		3/4		3/4	
3	2,299.60	3	1,935.70	3	1,571.81	3	1,211.83	3	848.99	3	485.06	3	121.26	3		3		3	
1/4	2,292.02	1/4	1,928.12	1/4	1,564.31	1/4	1,204.27	1/4	841.40	1/4	477.48	1/4	113.72	1/4		1/4		1/4	
1/2	2,284.43	1/2	1,920.54	1/2	1,556.80	1/2	1,196.72	1/2	833.82	1/2	469.90	1/2	106.18	1/2		1/2		1/2	
3/4	2,276.85	3/4	1,912.96	3/4	1,549.30	3/4	1,189.17	3/4	826.24	3/4	462.31	3/4	98.64	3/4		3/4		3/4	
4	2,269.27	4	1,905.38	4	1,541.80	4	1,181.61	4	818.66	4	454.73	4	91.10	4		4		4	
1/4	2,261.69	1/4	1,897.80	1/4	1,534.39	1/4	1,174.06	1/4	811.08	1/4	447.15	1/4	83.59	1/4		1/4		1/4	
1/2	2,254.11	1/2	1,890.22	1/2	1,526.97	1/2	1,166.51	1/2	803.50	1/2	439.57	1/2	76.08	1/2		1/2		1/2	
3/4	2,246.53	3/4	1,882.63	3/4	1,519.55	3/4	1,158.95	3/4	795.92	3/4	431.99	3/4	68.58	3/4		3/4		3/4	
5	2,238.95	5	1,875.05	5	1,512.13	5	1,151.40	5	788.33	5	424.40	5	61.07	5		5		5	
1/4	2,231.37	1/4	1,867.47	1/4	1,504.71	1/4	1,143.85	1/4	780.75	1/4	416.82	1/4	54.17	1/4		1/4		1/4	
1/2	2,223.79	1/2	1,859.89	1/2	1,497.29	1/2	1,136.29	1/2	773.17	1/2	409.24	1/2	47.27	1/2		1/2		1/2	
3/4	2,216.21	3/4	1,852.31	3/4	1,489.87	3/4	1,128.74	3/4	765.59	3/4	401.66	3/4	40.37	3/4		3/4		3/4	
6	2,208.62	6	1,844.73	6	1,482.45	6	1,121.19	6	758.01	6	394.08	6	33.47	6		6		6	
1/4	2,201.04	1/4	1,837.15	1/4	1,475.03	1/4	1,113.64	1/4	750.43	1/4	386.49	1/4	28.42	1/4		1/4		1/4	
1/2	2,193.46	1/2	1,829.57	1/2	1,467.61	1/2	1,106.08	1/2	742.85	1/2	378.91	1/2	23.37	1/2		1/2		1/2	
3/4	2,185.88	3/4	1,821.98	3/4	1,460.19	3/4	1,098.53	3/4	735.26	3/4	371.33	3/4	18.31	3/4		3/4		3/4	
7	2,178.30	7	1,814.40	7	1,452.78	7	1,090.98	7	727.68	7	363.75	7	13.26	7		7		7	
1/4	2,170.72	1/4	1,806.82	1/4	1,445.36	1/4	1,083.43	1/4	720.10	1/4	356.17	1/4		1/4		1/4		1/4	
1/2	2,163.14	1/2	1,799.24	1/2	1,437.94	1/2	1,075.87	1/2	712.52	1/2	348.58	1/2		1/2		1/2		1/2	
3/4	2,155.56	3/4	1,791.66	3/4	1,430.52	3/4	1,068.32	3/4	704.94	3/4	341.00	3/4		3/4		3/4		3/4	
8	2,147.98	8	1,784.08	8	1,423.10	8	1,060.77	8	697.36	8	333.42	8		8		8		8	
1/4	2,140.40	1/4	1,776.50	1/4	1,415.68	1/4	1,053.21	1/4	689.77	1/4	325.84	1/4		1/4		1/4		1/4	
1/2	2,132.81	1/2	1,768.92	1/2	1,408.26	1/2	1,045.66	1/2	682.19	1/2	318.26	1/2		1/2		1/2		1/2	
3/4	2,125.23	3/4	1,761.34	3/4	1,400.84	3/4	1,038.11	3/4	674.61	3/4	310.67	3/4		3/4		3/4		3/4	
9	2,117.65	9	1,753.75	9	1,393.42	9	1,030.56	9	667.03	9	303.09	9		9		9		9	
1/4	2,110.07	1/4	1,746.17	1/4	1,385.92	1/4	1,023.00	1/4	659.45	1/4	295.51	1/4		1/4		1/4		1/4	
1/2	2,102.49	1/2	1,738.59	1/2	1,378.42	1/2	1,015.45	1/2	651.86	1/2	287.93	1/2		1/2		1/2		1/2	
3/4	2,094.91	3/4	1,731.01	3/4	1,370.92	3/4	1,007.90	3/4	644.28	3/4	280.35	3/4		3/4		3/4		3/4	
10	2,087.33	10	1,723.43	10	1,363.42	10	1,000.35	10	636.70	10	272.76	10		10		10		10	
1/4	2,079.75	1/4	1,715.85	1/4	1,355.83	1/4	992.79	1/4	629.12	1/4	265.18	1/4		1/4		1/4		1/4	
1/2	2,072.17	1/2	1,708.27	1/2	1,348.25	1/2	985.24	1/2	621.54	1/2	257.60	1/2		1/2		1/2		1/2	
3/4	2,064.59	3/4	1,700.69	3/4	1,340.67	3/4	977.69	3/4	613.95	3/4	250.02	3/4		3/4		3/4		3/4	
11	2,057.00	11	1,693.10	11	1,333.09	11	970.14	11	606.37	11	242.44	11		11		11		11	
1/4	2,049.42	1/4	1,685.52	1/4	1,325.51	1/4	962.58	1/4	598.79	1/4	234.85	1/4		1/4		1/4		1/4	
1/2	2,041.84	1/2	1,677.94	1/2	1,317.92	1/2	955.03	1/2	591.21	1/2	227.27	1/2		1/2		1/2		1/2	
3/4	2,034.26	3/4	1,670.36	3/4	1,310.34	3/4	947.47	3/4	583.63	3/4	219.69	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 08/06/2009 CL - SW  
CALCULATED: 08/07/2009 CL  
PRINTED: 08/07/2009 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 08/2009

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



# BARGE "KIRBY 28113"

## 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
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	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

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'-08" FORWARD OF AFT BULKHEAD.

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



# BARGE "KIRBY 28113"

## 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	2,291.51	0	1,927.84	0	1,564.28	0	1,205.12	0	850.97	0	493.74	0	130.02	0	0	0	0	0	0
1/4	2,283.93	1/4	1,920.26	1/4	1,556.73	1/4	1,197.56	1/4	843.61	1/4	486.15	1/4	122.74	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,276.35	1/2	1,912.69	1/2	1,549.17	1/2	1,190.00	1/2	836.23	1/2	478.55	1/2	116.41	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,268.78	3/4	1,905.11	3/4	1,541.62	3/4	1,182.44	3/4	828.86	3/4	470.95	3/4	110.08	3/4	3/4	3/4	3/4	3/4	3/4
1	2,261.20	1	1,897.53	1	1,534.07	1	1,174.88	1	821.48	1	463.36	1	103.75	1	1	1	1	1	1
1/4	2,253.62	1/4	1,889.96	1/4	1,526.51	1/4	1,167.31	1/4	814.11	1/4	455.76	1/4	97.42	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,246.05	1/2	1,882.38	1/2	1,518.96	1/2	1,159.86	1/2	806.72	1/2	448.16	1/2	92.36	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,238.47	3/4	1,874.80	3/4	1,511.41	3/4	1,152.40	3/4	799.34	3/4	440.56	3/4	87.30	3/4	3/4	3/4	3/4	3/4	3/4
2	2,230.90	2	1,867.23	2	1,503.85	2	1,144.85	2	791.95	2	432.97	2	82.24	2	2	2	2	2	2
1/4	2,223.32	1/4	1,859.65	1/4	1,496.30	1/4	1,137.49	1/4	784.56	1/4	425.37	1/4	77.19	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,215.74	1/2	1,852.07	1/2	1,488.75	1/2	1,130.14	1/2	777.18	1/2	417.77	1/2	73.40	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,208.17	3/4	1,844.50	3/4	1,481.20	3/4	1,122.80	3/4	769.79	3/4	410.17	3/4	69.62	3/4	3/4	3/4	3/4	3/4	3/4
3	2,200.59	3	1,836.92	3	1,473.64	3	1,115.45	3	762.40	3	402.58	3	65.84	3	3	3	3	3	3
1/4	2,193.01	1/4	1,829.34	1/4	1,466.09	1/4	1,108.10	1/4	755.02	1/4	394.98	1/4	62.06	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,185.44	1/2	1,821.77	1/2	1,458.62	1/2	1,100.76	1/2	747.63	1/2	387.38	1/2	59.56	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,177.86	3/4	1,814.19	3/4	1,451.14	3/4	1,093.42	3/4	740.24	3/4	379.78	3/4	57.07	3/4	3/4	3/4	3/4	3/4	3/4
4	2,170.28	4	1,806.61	4	1,443.67	4	1,086.08	4	732.86	4	372.19	4	54.57	4	4	4	4	4	4
1/4	2,162.71	1/4	1,799.04	1/4	1,436.20	1/4	1,078.73	1/4	725.47	1/4	364.59	1/4	52.07	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,155.13	1/2	1,791.46	1/2	1,428.80	1/2	1,071.40	1/2	718.08	1/2	356.99	1/2	50.88	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,147.56	3/4	1,783.88	3/4	1,421.39	3/4	1,064.06	3/4	710.70	3/4	349.39	3/4	49.68	3/4	3/4	3/4	3/4	3/4	3/4
5	2,139.98	5	1,776.31	5	1,413.99	5	1,056.72	5	703.31	5	341.80	5	48.48	5	5	5	5	5	5
1/4	2,132.40	1/4	1,768.73	1/4	1,406.59	1/4	1,049.38	1/4	695.92	1/4	334.20	1/4	47.28	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,124.83	1/2	1,761.15	1/2	1,399.17	1/2	1,042.04	1/2	688.54	1/2	326.60	1/2	46.08	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,117.25	3/4	1,753.58	3/4	1,391.76	3/4	1,034.70	3/4	681.15	3/4	319.00	3/4	44.88	3/4	3/4	3/4	3/4	3/4	3/4
6	2,109.67	6	1,746.00	6	1,384.34	6	1,027.36	6	673.77	6	311.41	6	43.68	6	6	6	6	6	6
1/4	2,102.10	1/4	1,738.42	1/4	1,376.93	1/4	1,020.02	1/4	666.38	1/4	303.81	1/4	42.48	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,094.52	1/2	1,730.85	1/2	1,369.51	1/2	1,012.68	1/2	658.99	1/2	296.21	1/2	41.28	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,086.94	3/4	1,723.27	3/4	1,362.09	3/4	1,005.34	3/4	651.61	3/4	288.61	3/4	40.08	3/4	3/4	3/4	3/4	3/4	3/4
7	2,079.37	7	1,715.69	7	1,354.68	7	998.00	7	644.22	7	281.02	7	38.88	7	7	7	7	7	7
1/4	2,071.79	1/4	1,708.12	1/4	1,347.26	1/4	990.66	1/4	636.83	1/4	273.42	1/4	37.68	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,064.21	1/2	1,700.54	1/2	1,339.85	1/2	983.32	1/2	629.45	1/2	265.82	1/2	36.48	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,056.64	3/4	1,692.96	3/4	1,332.43	3/4	975.98	3/4	622.06	3/4	258.23	3/4	35.28	3/4	3/4	3/4	3/4	3/4	3/4
8	2,049.06	8	1,685.39	8	1,325.02	8	968.64	8	614.67	8	250.63	8	34.08	8	8	8	8	8	8
1/4	2,041.49	1/4	1,677.81	1/4	1,317.60	1/4	961.30	1/4	607.29	1/4	243.03	1/4	32.88	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,033.91	1/2	1,670.23	1/2	1,310.19	1/2	953.95	1/2	599.79	1/2	235.43	1/2	31.68	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,026.33	3/4	1,662.66	3/4	1,302.79	3/4	946.61	3/4	592.30	3/4	227.84	3/4	30.48	3/4	3/4	3/4	3/4	3/4	3/4
9	2,018.76	9	1,655.08	9	1,295.38	9	939.26	9	584.81	9	220.24	9	29.28	9	9	9	9	9	9
1/4	2,011.18	1/4	1,647.50	1/4	1,287.97	1/4	931.91	1/4	577.32	1/4	212.64	1/4	28.08	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,003.60	1/2	1,639.93	1/2	1,280.49	1/2	924.55	1/2	569.72	1/2	205.04	1/2	26.88	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,996.03	3/4	1,632.35	3/4	1,273.01	3/4	917.19	3/4	562.12	3/4	197.45	3/4	25.68	3/4	3/4	3/4	3/4	3/4	3/4
10	1,988.45	10	1,624.77	10	1,265.53	10	909.83	10	554.52	10	189.85	10	24.48	10	10	10	10	10	10
1/4	1,980.87	1/4	1,617.20	1/4	1,258.05	1/4	902.48	1/4	546.93	1/4	182.25	1/4	23.28	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,973.30	1/2	1,609.63	1/2	1,250.49	1/2	895.12	1/2	539.33	1/2	174.65	1/2	22.08	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,965.72	3/4	1,602.07	3/4	1,242.93	3/4	887.76	3/4	531.73	3/4	167.06	3/4	20.88	3/4	3/4	3/4	3/4	3/4	3/4
11	1,958.15	11	1,594.50	11	1,235.37	11	880.40	11	524.13	11	159.46	11	19.68	11	11	11	11	11	11
1/4	1,950.57	1/4	1,586.94	1/4	1,227.80	1/4	873.05	1/4	516.54	1/4	151.86	1/4	18.48	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,942.99	1/2	1,579.39	1/2	1,220.24	1/2	865.69	1/2	508.94	1/2	144.58	1/2	17.28	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,935.42	3/4	1,571.83	3/4	1,212.68	3/4	858.33	3/4	501.34	3/4	137.30	3/4	16.08	3/4	3/4	3/4	3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 08/06/2009 CL - SW  
 CALCULATED: 08/07/2009 CL  
 PRINTED: 08/07/2009 CL  
 CANCELS AND SUPERCEDES  
 ALL PRIOR TO 08/2009

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



# BARGE "KIRBY 28113"

3 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
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	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 IMPMS 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 28113"

## 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	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN
0	2,311.97	0	1,947.34	0	1,582.70	0	1,221.94	0	858.33	0	493.74	0	130.02	0		0			
1/4	2,304.37	1/4	1,939.74	1/4	1,575.10	1/4	1,214.34	1/4	850.76	1/4	486.15	1/4	122.74	1/4		1/4		1/4	
1/2	2,296.77	1/2	1,932.14	1/2	1,567.51	1/2	1,206.75	1/2	843.18	1/2	478.55	1/2	116.41	1/2		1/2		1/2	
3/4	2,289.18	3/4	1,924.55	3/4	1,559.91	3/4	1,199.15	3/4	835.59	3/4	470.95	3/4	110.08	3/4		3/4		3/4	
1	2,281.58	1	1,916.95	1	1,552.31	1	1,191.55	1	828.01	1	463.36	1	103.75	1		1		1	
1/4	2,273.98	1/4	1,909.35	1/4	1,544.72	1/4	1,183.95	1/4	820.42	1/4	455.76	1/4	97.42	1/4		1/4		1/4	
1/2	2,266.39	1/2	1,901.76	1/2	1,537.12	1/2	1,176.36	1/2	812.83	1/2	448.16	1/2	92.36	1/2		1/2		1/2	
3/4	2,258.79	3/4	1,894.16	3/4	1,529.52	3/4	1,168.76	3/4	805.23	3/4	440.56	3/4	87.30	3/4		3/4		3/4	
2	2,251.20	2	1,886.56	2	1,521.93	2	1,161.16	2	797.63	2	432.97	2	82.24	2		2		2	
1/4	2,243.60	1/4	1,878.97	1/4	1,514.33	1/4	1,153.56	1/4	790.03	1/4	425.37	1/4	77.19	1/4		1/4		1/4	
1/2	2,236.00	1/2	1,871.37	1/2	1,506.73	1/2	1,145.98	1/2	782.44	1/2	417.77	1/2	73.40	1/2		1/2		1/2	
3/4	2,228.41	3/4	1,863.77	3/4	1,499.14	3/4	1,138.40	3/4	774.84	3/4	410.17	3/4	69.62	3/4		3/4		3/4	
3	2,220.81	3	1,856.18	3	1,491.54	3	1,130.81	3	767.24	3	402.58	3	65.84	3		3		3	
1/4	2,213.21	1/4	1,848.58	1/4	1,483.94	1/4	1,123.23	1/4	759.65	1/4	394.98	1/4	62.06	1/4		1/4		1/4	
1/2	2,205.62	1/2	1,840.98	1/2	1,476.43	1/2	1,115.66	1/2	752.05	1/2	387.38	1/2	59.56	1/2		1/2		1/2	
3/4	2,198.02	3/4	1,833.39	3/4	1,468.91	3/4	1,108.09	3/4	744.45	3/4	379.78	3/4	57.07	3/4		3/4		3/4	
4	2,190.42	4	1,825.79	4	1,461.40	4	1,100.52	4	736.86	4	372.19	4	54.57	4		4		4	
1/4	2,182.83	1/4	1,818.19	1/4	1,453.88	1/4	1,092.95	1/4	729.26	1/4	364.59	1/4	52.07	1/4		1/4		1/4	
1/2	2,175.23	1/2	1,810.60	1/2	1,446.45	1/2	1,085.38	1/2	721.66	1/2	356.99	1/2	50.88	1/2		1/2		1/2	
3/4	2,167.64	3/4	1,803.00	3/4	1,439.01	3/4	1,077.81	3/4	714.06	3/4	349.39	3/4	49.68	3/4		3/4		3/4	
5	2,160.04	5	1,795.40	5	1,431.58	5	1,070.24	5	706.47	5	341.80	5	48.48	5		5		5	
1/4	2,152.44	1/4	1,787.81	1/4	1,424.14	1/4	1,062.67	1/4	698.87	1/4	334.20	1/4	47.28	1/4		1/4		1/4	
1/2	2,144.85	1/2	1,780.21	1/2	1,416.71	1/2	1,055.11	1/2	691.27	1/2	326.60	1/2	46.08	1/2		1/2		1/2	
3/4	2,137.25	3/4	1,772.61	3/4	1,409.27	3/4	1,047.54	3/4	683.68	3/4	319.00	3/4	44.88	3/4		3/4		3/4	
6	2,129.65	6	1,765.02	6	1,401.84	6	1,039.97	6	676.08	6	311.41	6	43.68	6		6		6	
1/4	2,122.06	1/4	1,757.42	1/4	1,394.40	1/4	1,032.40	1/4	668.48	1/4	303.81	1/4	42.48	1/4		1/4		1/4	
1/2	2,114.46	1/2	1,749.82	1/2	1,386.97	1/2	1,024.83	1/2	660.89	1/2	296.21	1/2	41.28	1/2		1/2		1/2	
3/4	2,106.86	3/4	1,742.23	3/4	1,379.54	3/4	1,017.27	3/4	653.29	3/4	288.61	3/4	40.08	3/4		3/4		3/4	
7	2,099.27	7	1,734.63	7	1,372.10	7	1,009.70	7	645.69	7	281.02	7	38.88	7		7		7	
1/4	2,091.67	1/4	1,727.03	1/4	1,364.67	1/4	1,002.13	1/4	638.09	1/4	273.42	1/4	37.68	1/4		1/4		1/4	
1/2	2,084.07	1/2	1,719.44	1/2	1,357.23	1/2	994.56	1/2	630.50	1/2	265.82	1/2	36.48	1/2		1/2		1/2	
3/4	2,076.48	3/4	1,711.84	3/4	1,349.80	3/4	986.99	3/4	622.90	3/4	258.23	3/4	35.28	3/4		3/4		3/4	
8	2,068.88	8	1,704.25	8	1,342.36	8	979.43	8	615.30	8	250.63	8	34.08	8		8		8	
1/4	2,061.29	1/4	1,696.65	1/4	1,334.93	1/4	971.86	1/4	607.71	1/4	243.03	1/4	32.88	1/4		1/4		1/4	
1/2	2,053.69	1/2	1,689.05	1/2	1,327.49	1/2	964.29	1/2	600.11	1/2	235.43	1/2	31.68	1/2		1/2		1/2	
3/4	2,046.09	3/4	1,681.46	3/4	1,320.06	3/4	956.72	3/4	592.51	3/4	227.84	3/4	30.48	3/4		3/4		3/4	
9	2,038.50	9	1,673.86	9	1,312.62	9	949.15	9	584.91	9	220.24	9	29.28	9		9		9	
1/4	2,030.90	1/4	1,666.26	1/4	1,305.19	1/4	941.58	1/4	577.32	1/4	212.64	1/4	28.08	1/4		1/4		1/4	
1/2	2,023.30	1/2	1,658.67	1/2	1,297.67	1/2	934.02	1/2	569.72	1/2	205.04	1/2	26.88	1/2		1/2		1/2	
3/4	2,015.71	3/4	1,651.07	3/4	1,290.15	3/4	926.45	3/4	562.12	3/4	197.45	3/4	25.68	3/4		3/4		3/4	
10	2,008.11	10	1,643.47	10	1,282.64	10	918.88	10	554.52	10	189.85	10	24.48	10		10		10	
1/4	2,000.51	1/4	1,635.88	1/4	1,275.12	1/4	911.31	1/4	546.93	1/4	182.25	1/4	23.28	1/4		1/4		1/4	
1/2	1,992.92	1/2	1,628.28	1/2	1,267.52	1/2	903.74	1/2	539.33	1/2	174.65	1/2	22.08	1/2		1/2		1/2	
3/4	1,985.32	3/4	1,620.68	3/4	1,259.93	3/4	896.18	3/4	531.73	3/4	167.06	3/4	20.88	3/4		3/4		3/4	
11	1,977.73	11	1,613.09	11	1,252.33	11	888.61	11	524.13	11	159.46	11	19.68	11		11		11	
1/4	1,970.13	1/4	1,605.49	1/4	1,244.73	1/4	881.04	1/4	516.54	1/4	151.86	1/4	18.48	1/4		1/4		1/4	
1/2	1,962.53	1/2	1,597.89	1/2	1,237.14	1/2	873.47	1/2	508.94	1/2	144.58	1/2	17.28	1/2		1/2		1/2	
3/4	1,954.93	3/4	1,590.30	3/4	1,229.54	3/4	865.90	3/4	501.34	3/4	137.30	3/4	16.08	3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 08/06/2009 CL - SW  
CALCULATED: 08/07/2009 CL  
PRINTED: 08/07/2009 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 08/2009

PRECISION MEASUREMENT  
& ANALYSIS, INC.

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