



BARGE "KIRBY 29121"

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	00-1/4	- 00-1/4	00-5/8	- 00-5/8	00-7/8	- 00-7/8	01-1/8	- 01-1/8	01-1/2	- 01-1/2	01-3/4	- 01-3/4
1 STBD	00-1/4	- 00-1/4	00-5/8	- 00-5/8	00-7/8	- 00-7/8	01-1/8	- 01-1/8	01-1/2	- 01-1/2	01-3/4	- 01-3/4
2 PORT	00-3/8	- 00-3/8	00-7/8	- 00-7/8	01-1/4	- 01-1/4	01-3/4	- 01-3/4	02-1/8	- 02-1/8	02-1/2	- 02-1/2
2 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
3 PORT	00-3/8	- 00-3/8	00-3/4	- 00-3/4	01-1/8	- 01-1/8	01-1/2	- 01-1/2	02-0/8	- 02-0/8	02-3/8	- 02-3/8
3 STBD	00-3/8	- 00-3/8	00-3/4	- 00-3/4	01-1/8	- 01-1/8	01-1/2	- 01-1/2	02-0/8	- 02-0/8	02-3/8	- 02-3/8

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

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

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

LENGTH BETWEEN DRAFT MARKS: 261'-00"

October 28, 2014

**PRECISION MEASUREMENT
& ANALYSIS, INC.**

P.O. Box 2092
 Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "KIRBY 29121"

1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-07 1/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	0	0	0	0	0	0	4,947.72	0	4,614.01	0	4,274.85	0	3,919.21	0	3,547.72	0	3,171.61	0	2,794.01
1/4		1/4		1/4		1/4	4,942.34	1/4	4,607.12	1/4	4,267.62	1/4	3,911.64	1/4	3,539.88	1/4	3,163.75	1/4	2,786.14
1/2		1/2		1/2		1/2	4,935.67	1/2	4,600.21	1/2	4,260.36	1/2	3,904.03	1/2	3,532.05	1/2	3,155.88	1/2	2,778.27
3/4		3/4		3/4		3/4	4,929.00	3/4	4,593.30	3/4	4,253.10	3/4	3,896.43	3/4	3,524.22	3/4	3,148.01	3/4	2,770.41
1	1	1	1	1	1	1	4,922.33	1	4,586.38	1	4,245.84	1	3,888.82	1	3,516.39	1	3,140.15	1	2,762.54
1/4		1/4		1/4		1/4	4,915.66	1/4	4,579.47	1/4	4,238.59	1/4	3,881.21	1/4	3,508.56	1/4	3,132.28	1/4	2,754.67
1/2		1/2		1/2		1/2	4,908.06	1/2	4,572.53	1/2	4,231.30	1/2	3,873.58	1/2	3,500.72	1/2	3,124.41	1/2	2,746.81
3/4		3/4		3/4		3/4	4,900.46	3/4	4,565.59	3/4	4,224.01	3/4	3,865.95	3/4	3,492.89	3/4	3,116.55	3/4	2,738.94
2	2	2	2	2	2	2	4,892.85	2	4,558.64	2	4,216.73	2	3,858.32	2	3,485.06	2	3,108.68	2	2,731.07
1/4		1/4		1/4		1/4	4,885.25	1/4	4,551.70	1/4	4,209.44	1/4	3,850.69	1/4	3,477.23	1/4	3,100.81	1/4	2,723.21
1/2		1/2		1/2		1/2	4,877.42	1/2	4,544.73	1/2	4,202.13	1/2	3,843.04	1/2	3,469.40	1/2	3,092.95	1/2	2,715.34
3/4		3/4		3/4		3/4	4,869.59	3/4	4,537.76	3/4	4,194.81	3/4	3,835.38	3/4	3,461.56	3/4	3,085.08	3/4	2,707.47
3	3	3	3	3	3	3	4,861.75	3	4,530.79	3	4,187.50	3	3,827.72	3	3,453.73	3	3,077.21	3	2,699.61
1/4		1/4		1/4		1/4	4,853.92	1/4	4,523.81	1/4	4,180.18	1/4	3,820.06	1/4	3,445.90	1/4	3,069.35	1/4	2,691.74
1/2		1/2		1/2		1/2	4,846.52	1/2	4,516.81	1/2	4,172.84	1/2	3,812.38	1/2	3,438.07	1/2	3,061.48	1/2	2,683.87
3/4		3/4		3/4		3/4	4,839.12	3/4	4,509.81	3/4	4,165.50	3/4	3,804.69	3/4	3,430.24	3/4	3,053.61	3/4	2,676.01
4	4	4	4	4	4	4	4,831.73	4	4,502.81	4	4,158.15	4	3,797.00	4	3,422.40	4	3,045.74	4	2,668.14
1/4		1/4		1/4		1/4	4,824.33	1/4	4,495.81	1/4	4,150.81	1/4	3,789.31	1/4	3,414.57	1/4	3,037.88	1/4	2,660.27
1/2		1/2		1/2		1/2	4,817.64	1/2	4,488.78	1/2	4,143.44	1/2	3,781.60	1/2	3,406.74	1/2	3,030.01	1/2	2,652.40
3/4		3/4		3/4		3/4	4,810.95	3/4	4,481.75	3/4	4,136.06	3/4	3,773.88	3/4	3,398.91	3/4	3,022.14	3/4	2,644.54
5	5	5	5	5	5	5	4,804.27	5	4,474.72	5	4,128.69	5	3,766.17	5	3,391.08	5	3,014.28	5	2,636.67
1/4		1/4		1/4		1/4	4,797.58	1/4	4,467.70	1/4	4,121.32	1/4	3,758.45	1/4	3,383.24	1/4	3,006.41	1/4	2,628.80
1/2		1/2		1/2		1/2	4,790.87	1/2	4,460.64	1/2	4,113.92	1/2	3,750.71	1/2	3,375.41	1/2	2,998.54	1/2	2,620.94
3/4		3/4		3/4		3/4	4,784.15	3/4	4,453.58	3/4	4,106.51	3/4	3,742.96	3/4	3,367.58	3/4	2,990.68	3/4	2,613.07
6	6	6	6	6	6	6	4,777.44	6	4,446.52	6	4,099.11	6	3,735.21	6	3,359.75	6	2,982.81	6	2,605.20
1/4		1/4		1/4		1/4	4,770.72	1/4	4,439.46	1/4	4,091.71	1/4	3,727.47	1/4	3,351.92	1/4	2,974.94	1/4	2,597.34
1/2		1/2		1/2		1/2	4,763.98	1/2	4,432.37	1/2	4,084.28	1/2	3,719.70	1/2	3,344.08	1/2	2,967.08	1/2	2,589.47
3/4		3/4		3/4		3/4	4,757.23	3/4	4,425.29	3/4	4,076.85	3/4	3,711.92	3/4	3,336.25	3/4	2,959.21	3/4	2,581.60
7	7	7	7	7	7	7	4,750.49	7	4,418.20	7	4,069.42	7	3,704.15	7	3,328.42	7	2,951.34	7	2,573.74
1/4		1/4		1/4		1/4	4,743.74	1/4	4,411.11	1/4	4,061.99	1/4	3,696.38	1/4	3,320.59	1/4	2,943.48	1/4	2,565.87
1/2		1/2		1/2		1/2	4,736.97	1/2	4,404.00	1/2	4,054.53	1/2	3,688.57	1/2	3,312.76	1/2	2,935.61	1/2	2,558.00
3/4		3/4		3/4		3/4	4,730.20	3/4	4,396.88	3/4	4,047.07	3/4	3,680.77	3/4	3,304.92	3/4	2,927.74	3/4	2,550.14
8	8	8	8	8	8	8	4,723.42	8	4,389.76	8	4,039.61	8	3,672.97	8	3,297.09	8	2,919.88	8	2,542.27
1/4		1/4		1/4		1/4	4,716.65	1/4	4,382.65	1/4	4,032.15	1/4	3,665.16	1/4	3,289.26	1/4	2,912.01	1/4	2,534.40
1/2		1/2		1/2		1/2	4,709.85	1/2	4,375.50	1/2	4,024.66	1/2	3,657.34	1/2	3,281.43	1/2	2,904.14	1/2	2,526.54
3/4		3/4		3/4		3/4	4,703.04	3/4	4,368.36	3/4	4,017.18	3/4	3,649.52	3/4	3,273.60	3/4	2,896.28	3/4	2,518.67
9	9	9	9	9	9	9	4,696.24	9	4,361.21	9	4,009.69	9	3,641.69	9	3,265.76	9	2,888.41	9	2,510.80
1/4		1/4		1/4		1/4	4,689.44	1/4	4,354.06	1/4	4,002.20	1/4	3,633.87	1/4	3,257.93	1/4	2,880.54	1/4	2,502.94
1/2		1/2		1/2		1/2	4,682.61	1/2	4,346.89	1/2	3,994.68	1/2	3,626.04	1/2	3,250.10	1/2	2,872.68	1/2	2,495.07
3/4		3/4		3/4		3/4	4,675.77	3/4	4,339.71	3/4	3,987.16	3/4	3,618.20	3/4	3,242.27	3/4	2,864.81	3/4	2,487.20
10	10	10	10	10	10	10	4,668.94	10	4,332.54	10	3,979.65	10	3,610.37	10	3,234.44	10	2,856.94	10	2,479.34
1/4		1/4		1/4		1/4	4,662.11	1/4	4,325.36	1/4	3,972.13	1/4	3,602.54	1/4	3,226.60	1/4	2,849.07	1/4	2,471.47
1/2		1/2		1/2		1/2	4,655.25	1/2	4,318.16	1/2	3,964.58	1/2	3,594.71	1/2	3,218.76	1/2	2,841.21	1/2	2,463.60
3/4		3/4		3/4		3/4	4,648.39	3/4	4,310.96	3/4	3,957.03	3/4	3,586.88	3/4	3,210.91	3/4	2,833.34	3/4	2,455.73
11	11	11	11	11	11	11	4,641.53	11	4,303.75	11	3,949.49	11	3,579.04	11	3,203.06	11	2,825.47	11	2,447.87
1/4		1/4		1/4		1/4	4,634.67	1/4	4,296.55	1/4	3,941.94	1/4	3,571.21	1/4	3,195.21	1/4	2,817.61	1/4	2,440.00
1/2		1/2		1/2		1/2	4,627.78	1/2	4,289.32	1/2	3,934.36	1/2	3,563.38	1/2	3,187.35	1/2	2,809.74	1/2	2,432.13
3/4		3/4		3/4		3/4	4,953.09	3/4	4,620.89	3/4	4,282.08	3/4	3,926.79	3/4	3,555.55	3/4	3,179.48	3/4	2,424.27

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 51'-06" FORWARD OF AFT BULKHEAD

PRECISION MEASUREMENT
 & ANALYSIS, INC.
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BARGE "KIRBY 29121"

1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-07 1/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,416.40	0	2,038.79	0	1,661.19	0	1,284.97	0	908.13	0	530.57	0	182.62	0		0		0	
1/4	2,408.53	1/4	2,030.93	1/4	1,653.32	1/4	1,277.15	1/4	900.26	1/4	522.71	1/4	176.00	1/4		1/4		1/4	
1/2	2,400.67	1/2	2,023.06	1/2	1,645.45	1/2	1,269.33	1/2	892.40	1/2	514.90	1/2	169.49	1/2		1/2		1/2	
3/4	2,392.80	3/4	2,015.19	3/4	1,637.59	3/4	1,261.52	3/4	884.53	3/4	507.09	3/4	162.98	3/4		3/4		3/4	
1	2,384.93	1	2,007.33	1	1,629.72	1	1,253.70	1	876.66	1	499.28	1	156.47	1		1		1	
1/4	2,377.07	1/4	1,999.46	1/4	1,621.85	1/4	1,245.88	1/4	868.80	1/4	491.47	1/4	149.95	1/4		1/4		1/4	
1/2	2,369.20	1/2	1,991.59	1/2	1,613.99	1/2	1,238.06	1/2	860.93	1/2	483.76	1/2	143.56	1/2		1/2		1/2	
3/4	2,361.33	3/4	1,983.73	3/4	1,606.12	3/4	1,230.25	3/4	853.07	3/4	476.04	3/4	137.16	3/4		3/4		3/4	
2	2,353.47	2	1,975.86	2	1,598.25	2	1,222.43	2	845.20	2	468.33	2	130.77	2		2		2	
1/4	2,345.60	1/4	1,967.99	1/4	1,590.39	1/4	1,214.61	1/4	837.33	1/4	460.61	1/4	124.37	1/4		1/4		1/4	
1/2	2,337.73	1/2	1,960.13	1/2	1,582.52	1/2	1,206.79	1/2	829.47	1/2	453.00	1/2	118.09	1/2		1/2		1/2	
3/4	2,329.87	3/4	1,952.26	3/4	1,574.65	3/4	1,198.98	3/4	821.60	3/4	445.39	3/4	111.82	3/4		3/4		3/4	
3	2,322.00	3	1,944.39	3	1,566.79	3	1,191.16	3	813.73	3	437.79	3	105.54	3		3		3	
1/4	2,314.13	1/4	1,936.53	1/4	1,558.92	1/4	1,183.34	1/4	805.87	1/4	430.18	1/4	99.27	1/4		1/4		1/4	
1/2	2,306.27	1/2	1,928.66	1/2	1,551.06	1/2	1,175.50	1/2	798.00	1/2	422.68	1/2	93.12	1/2		1/2		1/2	
3/4	2,298.40	3/4	1,920.79	3/4	1,543.21	3/4	1,167.67	3/4	790.13	3/4	415.19	3/4	86.98	3/4		3/4		3/4	
4	2,290.53	4	1,912.93	4	1,535.35	4	1,159.83	4	782.27	4	407.69	4	80.83	4		4		4	
1/4	2,282.67	1/4	1,905.06	1/4	1,527.50	1/4	1,152.00	1/4	774.40	1/4	400.19	1/4	74.68	1/4		1/4		1/4	
1/2	2,274.80	1/2	1,897.19	1/2	1,519.66	1/2	1,144.13	1/2	766.53	1/2	392.80	1/2	68.68	1/2		1/2		1/2	
3/4	2,266.93	3/4	1,889.33	3/4	1,511.82	3/4	1,136.26	3/4	758.67	3/4	385.41	3/4	62.68	3/4		3/4		3/4	
5	2,259.06	5	1,881.46	5	1,503.98	5	1,128.40	5	750.80	5	378.02	5	56.67	5		5		5	
1/4	2,251.20	1/4	1,873.59	1/4	1,496.15	1/4	1,120.53	1/4	742.93	1/4	370.64	1/4	50.67	1/4		1/4		1/4	
1/2	2,243.33	1/2	1,865.72	1/2	1,488.31	1/2	1,112.66	1/2	735.07	1/2	363.36	1/2	45.25	1/2		1/2		1/2	
3/4	2,235.46	3/4	1,857.86	3/4	1,480.48	3/4	1,104.80	3/4	727.20	3/4	356.08	3/4	39.84	3/4		3/4		3/4	
6	2,227.60	6	1,849.99	6	1,472.65	6	1,096.93	6	719.33	6	348.80	6	34.43	6		6		6	
1/4	2,219.73	1/4	1,842.12	1/4	1,464.82	1/4	1,089.06	1/4	711.47	1/4	341.52	1/4	29.02	1/4		1/4		1/4	
1/2	2,211.86	1/2	1,834.26	1/2	1,456.99	1/2	1,081.20	1/2	703.60	1/2	334.35	1/2	25.06	1/2		1/2		1/2	
3/4	2,204.00	3/4	1,826.39	3/4	1,449.17	3/4	1,073.33	3/4	695.73	3/4	327.18	3/4	21.10	3/4		3/4		3/4	
7	2,196.13	7	1,818.52	7	1,441.34	7	1,065.46	7	687.87	7	320.01	7	17.14	7		7		7	
1/4	2,188.26	1/4	1,810.66	1/4	1,433.52	1/4	1,057.60	1/4	680.00	1/4	312.84	1/4	13.18	1/4		1/4		1/4	
1/2	2,180.40	1/2	1,802.79	1/2	1,425.70	1/2	1,049.73	1/2	672.13	1/2	305.78	1/2		1/2		1/2		1/2	
3/4	2,172.53	3/4	1,794.92	3/4	1,417.87	3/4	1,041.86	3/4	664.27	3/4	298.72	3/4		3/4		3/4		3/4	
8	2,164.66	8	1,787.06	8	1,410.05	8	1,034.00	8	656.40	8	291.66	8	8	8		8		8	
1/4	2,156.80	1/4	1,779.19	1/4	1,402.23	1/4	1,026.13	1/4	648.53	1/4	284.60	1/4		1/4		1/4		1/4	
1/2	2,148.93	1/2	1,771.32	1/2	1,394.41	1/2	1,018.26	1/2	640.67	1/2	277.65	1/2		1/2		1/2		1/2	
3/4	2,141.06	3/4	1,763.46	3/4	1,386.60	3/4	1,010.40	3/4	632.80	3/4	270.70	3/4		3/4		3/4		3/4	
9	2,133.20	9	1,755.59	9	1,378.78	9	1,002.53	9	624.93	9	263.74	9	9	9		9		9	
1/4	2,125.33	1/4	1,747.72	1/4	1,370.96	1/4	994.66	1/4	617.07	1/4	256.79	1/4		1/4		1/4		1/4	
1/2	2,117.46	1/2	1,739.86	1/2	1,363.14	1/2	986.80	1/2	609.20	1/2	249.95	1/2		1/2		1/2		1/2	
3/4	2,109.60	3/4	1,731.99	3/4	1,355.33	3/4	978.93	3/4	601.33	3/4	243.11	3/4		3/4		3/4		3/4	
10	2,101.73	10	1,724.12	10	1,347.51	10	971.06	10	593.47	10	236.27	10	10	10		10		10	
1/4	2,093.86	1/4	1,716.26	1/4	1,339.69	1/4	963.20	1/4	585.60	1/4	229.42	1/4		1/4		1/4		1/4	
1/2	2,086.00	1/2	1,708.39	1/2	1,331.87	1/2	955.33	1/2	577.73	1/2	222.69	1/2		1/2		1/2		1/2	
3/4	2,078.13	3/4	1,700.52	3/4	1,324.06	3/4	947.46	3/4	569.87	3/4	215.96	3/4		3/4		3/4		3/4	
11	2,070.26	11	1,692.66	11	1,316.24	11	939.60	11	562.00	11	209.23	11	11	11		11		11	
1/4	2,062.39	1/4	1,684.79	1/4	1,308.42	1/4	931.73	1/4	554.13	1/4	202.49	1/4		1/4		1/4		1/4	
1/2	2,054.53	1/2	1,676.92	1/2	1,300.60	1/2	923.86	1/2	546.28	1/2	195.87	1/2		1/2		1/2		1/2	
3/4	2,046.66	3/4	1,669.05	3/4	1,292.79	3/4	916.00	3/4	538.42	3/4	189.25	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 10/28/2014 CL
CALCULATED: 10/28/2014 CL
PRINTED: 10/28/2014 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 10/2014

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



BARGE "KIRBY 29121"

1 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-07 1/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	0	0	0	0	0	0	4,949.49	0	4,615.78	0	4,276.63	0	3,920.99	0	3,549.49	0	3,173.39	0	2,795.78
1/4		1/4		1/4		1/4	4,944.12	1/4	4,608.90	1/4	4,269.39	1/4	3,913.41	1/4	3,541.66	1/4	3,165.52	1/4	2,787.91
1/2		1/2		1/2		1/2	4,937.45	1/2	4,601.99	1/2	4,262.13	1/2	3,905.81	1/2	3,533.83	1/2	3,157.65	1/2	2,780.05
3/4		3/4		3/4		3/4	4,930.78	3/4	4,595.07	3/4	4,254.88	3/4	3,898.20	3/4	3,526.00	3/4	3,149.79	3/4	2,772.18
1	1	1	1	1	1	1	4,924.11	1	4,588.16	1	4,247.62	1	3,890.59	1	3,518.16	1	3,141.92	1	2,764.31
1/4		1/4		1/4		1/4	4,917.44	1/4	4,581.25	1/4	4,240.36	1/4	3,882.99	1/4	3,510.33	1/4	3,134.05	1/4	2,756.45
1/2		1/2		1/2		1/2	4,909.83	1/2	4,574.30	1/2	4,233.08	1/2	3,875.36	1/2	3,502.50	1/2	3,126.18	1/2	2,748.58
3/4		3/4		3/4		3/4	4,902.23	3/4	4,567.36	3/4	4,225.79	3/4	3,867.73	3/4	3,494.67	3/4	3,118.32	3/4	2,740.71
2	2	2	2	2	2	2	4,894.63	2	4,560.42	2	4,218.50	2	3,860.10	2	3,486.84	2	3,110.45	2	2,732.84
1/4		1/4		1/4		1/4	4,887.03	1/4	4,553.47	1/4	4,211.22	1/4	3,852.47	1/4	3,479.00	1/4	3,102.58	1/4	2,724.98
1/2		1/2		1/2		1/2	4,879.19	1/2	4,546.50	1/2	4,203.90	1/2	3,844.81	1/2	3,471.17	1/2	3,094.72	1/2	2,717.11
3/4		3/4		3/4		3/4	4,871.36	3/4	4,539.53	3/4	4,196.59	3/4	3,837.15	3/4	3,463.34	3/4	3,086.85	3/4	2,709.24
3	3	3	3	3	3	3	4,863.53	3	4,532.56	3	4,189.27	3	3,829.50	3	3,455.51	3	3,078.98	3	2,701.38
1/4		1/4		1/4		1/4	4,855.70	1/4	4,525.59	1/4	4,181.96	1/4	3,821.84	1/4	3,447.68	1/4	3,071.12	1/4	2,693.51
1/2		1/2		1/2		1/2	4,848.30	1/2	4,518.59	1/2	4,174.61	1/2	3,814.15	1/2	3,439.84	1/2	3,063.25	1/2	2,685.64
3/4		3/4		3/4		3/4	4,840.90	3/4	4,511.59	3/4	4,167.27	3/4	3,806.46	3/4	3,432.01	3/4	3,055.38	3/4	2,677.78
4	4	4	4	4	4	4	4,833.50	4	4,504.59	4	4,159.93	4	3,798.78	4	3,424.18	4	3,047.52	4	2,669.91
1/4		1/4		1/4		1/4	4,826.10	1/4	4,497.59	1/4	4,152.58	1/4	3,791.09	1/4	3,416.35	1/4	3,039.65	1/4	2,662.04
1/2		1/2		1/2		1/2	4,819.42	1/2	4,490.56	1/2	4,145.21	1/2	3,783.37	1/2	3,408.52	1/2	3,031.78	1/2	2,654.18
3/4		3/4		3/4		3/4	4,812.73	3/4	4,483.53	3/4	4,137.84	3/4	3,775.66	3/4	3,400.68	3/4	3,023.92	3/4	2,646.31
5	5	5	5	5	5	5	4,806.04	5	4,476.50	5	4,130.47	5	3,767.94	5	3,392.85	5	3,016.05	5	2,638.44
1/4		1/4		1/4		1/4	4,799.36	1/4	4,469.47	1/4	4,123.09	1/4	3,760.23	1/4	3,385.02	1/4	3,008.18	1/4	2,630.58
1/2		1/2		1/2		1/2	4,792.64	1/2	4,462.41	1/2	4,115.69	1/2	3,752.48	1/2	3,377.19	1/2	3,000.32	1/2	2,622.71
3/4		3/4		3/4		3/4	4,785.93	3/4	4,455.35	3/4	4,108.29	3/4	3,744.74	3/4	3,369.36	3/4	2,992.45	3/4	2,614.84
6	6	6	6	6	6	6	4,779.21	6	4,448.30	6	4,100.89	6	3,736.99	6	3,361.52	6	2,984.58	6	2,606.98
1/4		1/4		1/4		1/4	4,772.50	1/4	4,441.24	1/4	4,093.49	1/4	3,729.24	1/4	3,353.69	1/4	2,976.72	1/4	2,599.11
1/2		1/2		1/2		1/2	4,765.75	1/2	4,434.15	1/2	4,086.06	1/2	3,721.47	1/2	3,345.86	1/2	2,968.85	1/2	2,591.24
3/4		3/4		3/4		3/4	4,759.01	3/4	4,427.06	3/4	4,078.63	3/4	3,713.70	3/4	3,338.03	3/4	2,960.98	3/4	2,583.38
7	7	7	7	7	7	7	4,752.26	7	4,419.98	7	4,071.20	7	3,705.93	7	3,330.20	7	2,953.12	7	2,575.51
1/4		1/4		1/4		1/4	4,745.52	1/4	4,412.89	1/4	4,063.76	1/4	3,698.15	1/4	3,322.36	1/4	2,945.25	1/4	2,567.64
1/2		1/2		1/2		1/2	4,738.74	1/2	4,405.77	1/2	4,056.31	1/2	3,690.35	1/2	3,314.53	1/2	2,937.38	1/2	2,559.78
3/4		3/4		3/4		3/4	4,731.97	3/4	4,398.65	3/4	4,048.85	3/4	3,682.55	3/4	3,306.70	3/4	2,929.51	3/4	2,551.91
8	8	8	8	8	8	8	4,725.20	8	4,391.54	8	4,041.39	8	3,674.74	8	3,298.87	8	2,921.65	8	2,544.04
1/4		1/4		1/4		1/4	4,718.42	1/4	4,384.42	1/4	4,033.93	1/4	3,666.94	1/4	3,291.04	1/4	2,913.78	1/4	2,536.17
1/2		1/2		1/2		1/2	4,711.62	1/2	4,377.28	1/2	4,026.44	1/2	3,659.12	1/2	3,283.20	1/2	2,905.91	1/2	2,528.31
3/4		3/4		3/4		3/4	4,704.82	3/4	4,370.13	3/4	4,018.95	3/4	3,651.29	3/4	3,275.37	3/4	2,898.05	3/4	2,520.44
9	9	9	9	9	9	9	4,698.01	9	4,362.99	9	4,011.46	9	3,643.47	9	3,267.54	9	2,890.18	9	2,512.57
1/4		1/4		1/4		1/4	4,691.21	1/4	4,355.84	1/4	4,003.97	1/4	3,635.64	1/4	3,259.71	1/4	2,882.31	1/4	2,504.71
1/2		1/2		1/2		1/2	4,684.38	1/2	4,348.66	1/2	3,996.46	1/2	3,627.81	1/2	3,251.88	1/2	2,874.45	1/2	2,496.84
3/4		3/4		3/4		3/4	4,677.55	3/4	4,341.49	3/4	3,988.94	3/4	3,619.98	3/4	3,244.04	3/4	2,866.58	3/4	2,488.97
10	10	10	10	10	10	10	4,670.72	10	4,334.31	10	3,981.42	10	3,612.15	10	3,236.21	10	2,858.71	10	2,481.11
1/4		1/4		1/4		1/4	4,663.89	1/4	4,327.14	1/4	3,973.90	1/4	3,604.32	1/4	3,228.38	1/4	2,850.85	1/4	2,473.24
1/2		1/2		1/2		1/2	4,657.03	1/2	4,319.94	1/2	3,966.36	1/2	3,596.48	1/2	3,220.53	1/2	2,842.98	1/2	2,465.37
3/4		3/4		3/4		3/4	4,650.16	3/4	4,312.73	3/4	3,958.81	3/4	3,588.65	3/4	3,212.68	3/4	2,835.11	3/4	2,457.51
11	11	11	11	11	11	11	4,643.30	11	4,305.53	11	3,951.26	11	3,580.82	11	3,204.83	11	2,827.25	11	2,449.64
1/4		1/4		1/4		1/4	4,636.44	1/4	4,298.33	1/4	3,943.71	1/4	3,572.99	1/4	3,196.99	1/4	2,819.38	1/4	2,441.77
1/2		1/2		1/2		1/2	4,629.56	1/2	4,291.09	1/2	3,936.14	1/2	3,565.16	1/2	3,189.12	1/2	2,811.51	1/2	2,433.91
3/4		3/4		3/4		3/4	4,954.86	3/4	4,622.67	3/4	4,283.86	3/4	3,928.56	3/4	3,557.32	3/4	3,181.25	3/4	2,426.04

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 51'-06" FORWARD OF AFT BULKHEAD

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



BARGE "KIRBY 29121"

**1 STBD
ULLAGE TABLE**

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-07 1/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,418.17	0	2,040.57	0	1,662.96	0	1,285.35	0	908.04	0	530.57	0	182.62	0		0		0	
1/4	2,410.31	1/4	2,032.70	1/4	1,655.09	1/4	1,277.49	1/4	900.19	1/4	522.71	1/4	176.00	1/4		1/4		1/4	
1/2	2,402.44	1/2	2,024.83	1/2	1,647.23	1/2	1,269.62	1/2	892.33	1/2	514.90	1/2	169.49	1/2		1/2		1/2	
3/4	2,394.57	3/4	2,016.97	3/4	1,639.36	3/4	1,261.75	3/4	884.48	3/4	507.09	3/4	162.98	3/4		3/4		3/4	
1	2,386.71	1	2,009.10	1	1,631.49	1	1,253.89	1	876.62	1	499.28	1	156.47	1		1		1	
1/4	2,378.84	1/4	2,001.23	1/4	1,623.63	1/4	1,246.02	1/4	868.77	1/4	491.47	1/4	149.95	1/4		1/4		1/4	
1/2	2,370.97	1/2	1,993.37	1/2	1,615.76	1/2	1,238.15	1/2	860.91	1/2	483.76	1/2	143.56	1/2		1/2		1/2	
3/4	2,363.11	3/4	1,985.50	3/4	1,607.89	3/4	1,230.29	3/4	853.05	3/4	476.04	3/4	137.16	3/4		3/4		3/4	
2	2,355.24	2	1,977.63	2	1,600.03	2	1,222.42	2	845.19	2	468.33	2	130.77	2		2		2	
1/4	2,347.37	1/4	1,969.77	1/4	1,592.16	1/4	1,214.55	1/4	837.33	1/4	460.61	1/4	124.37	1/4		1/4		1/4	
1/2	2,339.50	1/2	1,961.90	1/2	1,584.29	1/2	1,206.69	1/2	829.47	1/2	453.00	1/2	118.09	1/2		1/2		1/2	
3/4	2,331.64	3/4	1,954.03	3/4	1,576.43	3/4	1,198.82	3/4	821.60	3/4	445.39	3/4	111.82	3/4		3/4		3/4	
3	2,323.77	3	1,946.16	3	1,568.56	3	1,190.95	3	813.73	3	437.79	3	105.54	3		3		3	
1/4	2,315.90	1/4	1,938.30	1/4	1,560.69	1/4	1,183.09	1/4	805.87	1/4	430.18	1/4	99.27	1/4		1/4		1/4	
1/2	2,308.04	1/2	1,930.43	1/2	1,552.82	1/2	1,175.22	1/2	798.00	1/2	422.68	1/2	93.12	1/2		1/2		1/2	
3/4	2,300.17	3/4	1,922.56	3/4	1,544.96	3/4	1,167.35	3/4	790.13	3/4	415.19	3/4	86.98	3/4		3/4		3/4	
4	2,292.30	4	1,914.70	4	1,537.09	4	1,159.48	4	782.27	4	407.69	4	80.83	4		4		4	
1/4	2,284.44	1/4	1,906.83	1/4	1,529.22	1/4	1,151.62	1/4	774.40	1/4	400.19	1/4	74.68	1/4		1/4		1/4	
1/2	2,276.57	1/2	1,898.96	1/2	1,521.36	1/2	1,143.75	1/2	766.53	1/2	392.80	1/2	68.68	1/2		1/2		1/2	
3/4	2,268.70	3/4	1,891.10	3/4	1,513.49	3/4	1,135.88	3/4	758.67	3/4	385.41	3/4	62.68	3/4		3/4		3/4	
5	2,260.84	5	1,883.23	5	1,505.62	5	1,128.02	5	750.80	5	378.02	5	56.67	5		5		5	
1/4	2,252.97	1/4	1,875.36	1/4	1,497.76	1/4	1,120.15	1/4	742.93	1/4	370.64	1/4	50.67	1/4		1/4		1/4	
1/2	2,245.10	1/2	1,867.50	1/2	1,489.89	1/2	1,112.29	1/2	735.07	1/2	363.36	1/2	45.25	1/2		1/2		1/2	
3/4	2,237.24	3/4	1,859.63	3/4	1,482.02	3/4	1,104.43	3/4	727.20	3/4	356.08	3/4	39.84	3/4		3/4		3/4	
6	2,229.37	6	1,851.76	6	1,474.16	6	1,096.56	6	719.33	6	348.80	6	34.43	6		6		6	
1/4	2,221.50	1/4	1,843.90	1/4	1,466.29	1/4	1,088.70	1/4	711.47	1/4	341.52	1/4	29.02	1/4		1/4		1/4	
1/2	2,213.64	1/2	1,836.03	1/2	1,458.42	1/2	1,080.85	1/2	703.60	1/2	334.35	1/2	25.06	1/2		1/2		1/2	
3/4	2,205.77	3/4	1,828.16	3/4	1,450.56	3/4	1,072.99	3/4	695.73	3/4	327.18	3/4	21.10	3/4		3/4		3/4	
7	2,197.90	7	1,820.30	7	1,442.69	7	1,065.14	7	687.87	7	320.01	7	17.14	7		7		7	
1/4	2,190.04	1/4	1,812.43	1/4	1,434.82	1/4	1,057.28	1/4	680.00	1/4	312.84	1/4	13.18	1/4		1/4		1/4	
1/2	2,182.17	1/2	1,804.56	1/2	1,426.96	1/2	1,049.43	1/2	672.13	1/2	305.78	1/2		1/2		1/2		1/2	
3/4	2,174.30	3/4	1,796.70	3/4	1,419.09	3/4	1,041.57	3/4	664.27	3/4	298.72	3/4		3/4		3/4		3/4	
8	2,166.44	8	1,788.83	8	1,411.22	8	1,033.72	8	656.40	8	291.66	8		8		8		8	
1/4	2,158.57	1/4	1,780.96	1/4	1,403.36	1/4	1,025.86	1/4	648.53	1/4	284.60	1/4		1/4		1/4		1/4	
1/2	2,150.70	1/2	1,773.10	1/2	1,395.49	1/2	1,018.01	1/2	640.67	1/2	277.65	1/2		1/2		1/2		1/2	
3/4	2,142.83	3/4	1,765.23	3/4	1,387.62	3/4	1,010.15	3/4	632.80	3/4	270.70	3/4		3/4		3/4		3/4	
9	2,134.97	9	1,757.36	9	1,379.76	9	1,002.30	9	624.93	9	263.74	9		9		9		9	
1/4	2,127.10	1/4	1,749.49	1/4	1,371.89	1/4	994.44	1/4	617.07	1/4	256.79	1/4		1/4		1/4		1/4	
1/2	2,119.23	1/2	1,741.63	1/2	1,364.02	1/2	986.59	1/2	609.20	1/2	249.95	1/2		1/2		1/2		1/2	
3/4	2,111.37	3/4	1,733.76	3/4	1,356.15	3/4	978.74	3/4	601.33	3/4	243.11	3/4		3/4		3/4		3/4	
10	2,103.50	10	1,725.89	10	1,348.29	10	970.88	10	593.47	10	236.27	10		10		10		10	
1/4	2,095.63	1/4	1,718.03	1/4	1,340.42	1/4	963.03	1/4	585.60	1/4	229.42	1/4		1/4		1/4		1/4	
1/2	2,087.77	1/2	1,710.16	1/2	1,332.55	1/2	955.17	1/2	577.73	1/2	222.69	1/2		1/2		1/2		1/2	
3/4	2,079.90	3/4	1,702.29	3/4	1,324.69	3/4	947.32	3/4	569.87	3/4	215.96	3/4		3/4		3/4		3/4	
11	2,072.03	11	1,694.43	11	1,316.82	11	939.46	11	562.00	11	209.23	11		11		11		11	
1/4	2,064.17	1/4	1,686.56	1/4	1,308.95	1/4	931.61	1/4	554.13	1/4	202.49	1/4		1/4		1/4		1/4	
1/2	2,056.30	1/2	1,678.69	1/2	1,301.09	1/2	923.75	1/2	546.28	1/2	195.87	1/2		1/2		1/2		1/2	
3/4	2,048.43	3/4	1,670.83	3/4	1,293.22	3/4	915.90	3/4	538.42	3/4	189.25	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 10/28/2014 CL
CALCULATED: 10/28/2014 CL
PRINTED: 10/28/2014 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 10/2014

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



BARGE "KIRBY 29121"

2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-08"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	0	0	0	0	0	0	0	0	4,465.49	0	4,142.43	0	3,804.21	0	3,451.20	0	3,093.33	0	2,733.99
1/4		1/4		1/4		1/4		1/4	4,458.90	1/4	4,135.52	1/4	3,796.99	1/4	3,443.74	1/4	3,085.85	1/4	2,726.50
1/2		1/2		1/2		1/2	4,769.58	1/2	4,452.32	1/2	4,128.62	1/2	3,789.77	1/2	3,436.29	1/2	3,078.36	1/2	2,719.02
3/4		3/4		3/4		3/4	4,764.47	3/4	4,445.73	3/4	4,121.71	3/4	3,782.56	3/4	3,428.84	3/4	3,070.87	3/4	2,711.53
1	1	1	1	1	1	1	4,759.35	1	4,439.15	1	4,114.81	1	3,775.34	1	3,421.38	1	3,063.39	1	2,704.05
1/4		1/4		1/4		1/4	4,753.01	1/4	4,432.54	1/4	4,107.88	1/4	3,768.09	1/4	3,413.93	1/4	3,055.90	1/4	2,696.56
1/2		1/2		1/2		1/2	4,746.66	1/2	4,425.93	1/2	4,100.95	1/2	3,760.84	1/2	3,406.47	1/2	3,048.42	1/2	2,689.07
3/4		3/4		3/4		3/4	4,740.31	3/4	4,419.32	3/4	4,094.03	3/4	3,753.60	3/4	3,399.02	3/4	3,040.93	3/4	2,681.59
2	2	2	2	2	2	2	4,733.97	2	4,412.71	2	4,087.10	2	3,746.35	2	3,391.56	2	3,033.44	2	2,674.10
1/4		1/4		1/4		1/4	4,726.73	1/4	4,406.07	1/4	4,080.15	1/4	3,739.08	1/4	3,384.11	1/4	3,025.96	1/4	2,666.61
1/2		1/2		1/2		1/2	4,719.50	1/2	4,399.43	1/2	4,073.20	1/2	3,731.81	1/2	3,376.66	1/2	3,018.47	1/2	2,659.13
3/4		3/4		3/4		3/4	4,712.26	3/4	4,392.80	3/4	4,066.24	3/4	3,724.55	3/4	3,369.20	3/4	3,010.98	3/4	2,651.64
3	3	3	3	3	3	3	4,705.03	3	4,386.16	3	4,059.29	3	3,717.28	3	3,361.75	3	3,003.50	3	2,644.16
1/4		1/4		1/4		1/4	4,697.58	1/4	4,379.49	1/4	4,052.31	1/4	3,709.98	1/4	3,354.29	1/4	2,996.01	1/4	2,636.67
1/2		1/2		1/2		1/2	4,690.12	1/2	4,372.83	1/2	4,045.33	1/2	3,702.69	1/2	3,346.84	1/2	2,988.52	1/2	2,629.18
3/4		3/4		3/4		3/4	4,682.67	3/4	4,366.17	3/4	4,038.35	3/4	3,695.39	3/4	3,339.39	3/4	2,981.04	3/4	2,621.70
4	4	4	4	4	4	4	4,675.21	4	4,359.50	4	4,031.37	4	3,688.10	4	3,331.93	4	2,973.55	4	2,614.21
1/4		1/4		1/4		1/4	4,668.16	1/4	4,352.81	1/4	4,024.37	1/4	3,680.78	1/4	3,324.48	1/4	2,966.07	1/4	2,606.72
1/2		1/2		1/2		1/2	4,661.10	1/2	4,346.12	1/2	4,017.36	1/2	3,673.46	1/2	3,317.02	1/2	2,958.58	1/2	2,599.24
3/4		3/4		3/4		3/4	4,654.04	3/4	4,339.43	3/4	4,010.36	3/4	3,666.14	3/4	3,309.57	3/4	2,951.09	3/4	2,591.75
5	5	5	5	5	5	5	4,646.99	5	4,332.74	5	4,003.35	5	3,658.82	5	3,302.11	5	2,943.61	5	2,584.26
1/4		1/4		1/4		1/4	4,640.59	1/4	4,326.02	1/4	3,996.32	1/4	3,651.47	1/4	3,294.66	1/4	2,936.12	1/4	2,576.78
1/2		1/2		1/2		1/2	4,634.18	1/2	4,319.31	1/2	3,989.29	1/2	3,644.12	1/2	3,287.21	1/2	2,928.63	1/2	2,569.29
3/4		3/4		3/4		3/4	4,627.78	3/4	4,312.59	3/4	3,982.25	3/4	3,636.77	3/4	3,279.75	3/4	2,921.15	3/4	2,561.81
6	6	6	6	6	6	6	4,621.38	6	4,305.87	6	3,975.22	6	3,629.43	6	3,272.30	6	2,913.66	6	2,554.32
1/4		1/4		1/4		1/4	4,614.95	1/4	4,299.13	1/4	3,968.16	1/4	3,622.05	1/4	3,264.84	1/4	2,906.18	1/4	2,546.83
1/2		1/2		1/2		1/2	4,608.52	1/2	4,292.39	1/2	3,961.10	1/2	3,614.68	1/2	3,257.39	1/2	2,898.69	1/2	2,539.35
3/4		3/4		3/4		3/4	4,602.09	3/4	4,285.64	3/4	3,954.05	3/4	3,607.30	3/4	3,249.93	3/4	2,891.20	3/4	2,531.86
7	7	7	7	7	7	7	4,595.67	7	4,278.90	7	3,946.99	7	3,599.93	7	3,242.48	7	2,883.72	7	2,524.37
1/4		1/4		1/4		1/4	4,589.21	1/4	4,272.13	1/4	3,939.90	1/4	3,592.53	1/4	3,235.03	1/4	2,876.23	1/4	2,516.89
1/2		1/2		1/2		1/2	4,582.75	1/2	4,265.36	1/2	3,932.82	1/2	3,585.13	1/2	3,227.57	1/2	2,868.74	1/2	2,509.40
3/4		3/4		3/4		3/4	4,576.30	3/4	4,258.59	3/4	3,925.73	3/4	3,577.73	3/4	3,220.12	3/4	2,861.26	3/4	2,501.92
8	8	8	8	8	8	8	4,569.84	8	4,251.82	8	3,918.64	8	3,570.33	8	3,212.66	8	2,853.77	8	2,494.43
1/4		1/4		1/4		1/4	4,563.36	1/4	4,245.02	1/4	3,911.53	1/4	3,562.90	1/4	3,205.21	1/4	2,846.29	1/4	2,486.94
1/2		1/2		1/2		1/2	4,556.88	1/2	4,238.22	1/2	3,904.42	1/2	3,555.47	1/2	3,197.76	1/2	2,838.80	1/2	2,479.46
3/4		3/4		3/4		3/4	4,550.40	3/4	4,231.43	3/4	3,897.31	3/4	3,548.04	3/4	3,190.30	3/4	2,831.31	3/4	2,471.97
9	9	9	9	9	9	9	4,543.92	9	4,224.63	9	3,890.20	9	3,540.62	9	3,182.85	9	2,823.83	9	2,464.48
1/4		1/4		1/4		1/4	4,537.41	1/4	4,217.81	1/4	3,883.06	1/4	3,533.17	1/4	3,175.39	1/4	2,816.34	1/4	2,457.00
1/2		1/2		1/2		1/2	4,530.90	1/2	4,210.98	1/2	3,875.92	1/2	3,525.72	1/2	3,167.94	1/2	2,808.85	1/2	2,449.51
3/4		3/4		3/4		3/4	4,524.39	3/4	4,204.16	3/4	3,868.78	3/4	3,518.28	3/4	3,160.48	3/4	2,801.37	3/4	2,442.02
10	10	10	10	10	10	10	4,517.88	10	4,197.34	10	3,861.64	10	3,510.83	10	3,153.03	10	2,793.88	10	2,434.54
1/4		1/4		1/4		1/4	4,511.34	1/4	4,190.48	1/4	3,854.48	1/4	3,503.38	1/4	3,145.58	1/4	2,786.39	1/4	2,427.05
1/2		1/2		1/2		1/2	4,504.81	1/2	4,183.63	1/2	3,847.31	1/2	3,495.92	1/2	3,138.12	1/2	2,778.91	1/2	2,419.57
3/4		3/4		3/4		3/4	4,498.27	3/4	4,176.78	3/4	3,840.15	3/4	3,488.47	3/4	3,130.67	3/4	2,771.42	3/4	2,412.08
11	11	11	11	11	11	11	4,491.74	11	4,169.93	11	3,832.98	11	3,481.02	11	3,123.21	11	2,763.94	11	2,404.59
1/4		1/4		1/4		1/4	4,485.18	1/4	4,163.06	1/4	3,825.79	1/4	3,473.56	1/4	3,115.74	1/4	2,756.45	1/4	2,397.11
1/2		1/2		1/2		1/2	4,478.61	1/2	4,156.18	1/2	3,818.60	1/2	3,466.11	1/2	3,108.27	1/2	2,748.96	1/2	2,389.62
3/4		3/4		3/4		3/4	4,472.05	3/4	4,149.30	3/4	3,811.40	3/4	3,458.65	3/4	3,100.80	3/4	2,741.48	3/4	2,382.13

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'-03" FORWARD OF AFT BULKHEAD

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



BARGE "KIRBY 29121"

2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-08"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,374.65	0	2,015.31	0	1,655.96	0	1,304.97	0	959.83	0	602.46	0	243.12	0		0		0	
1/4	2,367.16	1/4	2,007.82	1/4	1,648.48	1/4	1,297.77	1/4	952.64	1/4	594.97	1/4	235.64	1/4		1/4		1/4	
1/2	2,359.68	1/2	2,000.33	1/2	1,640.99	1/2	1,290.56	1/2	945.46	1/2	587.48	1/2	228.15	1/2		1/2		1/2	
3/4	2,352.19	3/4	1,992.85	3/4	1,633.50	3/4	1,283.36	3/4	938.28	3/4	580.00	3/4	220.67	3/4		3/4		3/4	
1	2,344.70	1	1,985.36	1	1,626.02	1	1,276.16	1	931.09	1	572.51	1	213.18	1		1		1	
1/4	2,337.22	1/4	1,977.87	1/4	1,618.53	1/4	1,268.96	1/4	923.79	1/4	565.03	1/4	205.70	1/4		1/4		1/4	
1/2	2,329.73	1/2	1,970.39	1/2	1,611.05	1/2	1,261.75	1/2	916.50	1/2	557.54	1/2	198.21	1/2		1/2		1/2	
3/4	2,322.24	3/4	1,962.90	3/4	1,603.56	3/4	1,254.55	3/4	909.20	3/4	550.05	3/4	190.73	3/4		3/4		3/4	
2	2,314.76	2	1,955.42	2	1,596.07	2	1,247.35	2	901.90	2	542.57	2	183.24	2		2		2	
1/4	2,307.27	1/4	1,947.93	1/4	1,588.59	1/4	1,240.14	1/4	894.41	1/4	535.08	1/4	175.77	1/4		1/4		1/4	
1/2	2,299.79	1/2	1,940.44	1/2	1,581.10	1/2	1,232.94	1/2	886.93	1/2	527.59	1/2	168.29	1/2		1/2		1/2	
3/4	2,292.30	3/4	1,932.96	3/4	1,573.61	3/4	1,225.74	3/4	879.44	3/4	520.11	3/4	160.81	3/4		3/4		3/4	
3	2,284.81	3	1,925.47	3	1,566.13	3	1,218.53	3	871.96	3	512.62	3	153.33	3		3		3	
1/4	2,277.33	1/4	1,917.98	1/4	1,558.64	1/4	1,211.33	1/4	864.47	1/4	505.14	1/4	145.87	1/4		1/4		1/4	
1/2	2,269.84	1/2	1,910.50	1/2	1,551.16	1/2	1,204.14	1/2	856.98	1/2	497.65	1/2	138.40	1/2		1/2		1/2	
3/4	2,262.35	3/4	1,903.01	3/4	1,543.67	3/4	1,196.94	3/4	849.50	3/4	490.16	3/4	130.93	3/4		3/4		3/4	
4	2,254.87	4	1,895.53	4	1,536.18	4	1,189.74	4	842.01	4	482.68	4	123.47	4		4		4	
1/4	2,247.38	1/4	1,888.04	1/4	1,528.80	1/4	1,182.55	1/4	834.52	1/4	475.19	1/4	116.02	1/4		1/4		1/4	
1/2	2,239.89	1/2	1,880.55	1/2	1,521.42	1/2	1,175.36	1/2	827.04	1/2	467.71	1/2	108.57	1/2		1/2		1/2	
3/4	2,232.41	3/4	1,873.07	3/4	1,514.04	3/4	1,168.17	3/4	819.55	3/4	460.22	3/4	101.12	3/4		3/4		3/4	
5	2,224.92	5	1,865.58	5	1,506.66	5	1,160.98	5	812.07	5	452.73	5	93.67	5		5		5	
1/4	2,217.44	1/4	1,858.09	1/4	1,499.46	1/4	1,153.79	1/4	804.58	1/4	445.25	1/4	86.26	1/4		1/4		1/4	
1/2	2,209.95	1/2	1,850.61	1/2	1,492.25	1/2	1,146.60	1/2	797.09	1/2	437.76	1/2	78.84	1/2		1/2		1/2	
3/4	2,202.46	3/4	1,843.12	3/4	1,485.05	3/4	1,139.41	3/4	789.61	3/4	430.28	3/4	71.42	3/4		3/4		3/4	
6	2,194.98	6	1,835.63	6	1,477.85	6	1,132.22	6	782.12	6	422.79	6	64.00	6		6		6	
1/4	2,187.49	1/4	1,828.15	1/4	1,470.64	1/4	1,125.04	1/4	774.64	1/4	415.30	1/4	57.05	1/4		1/4		1/4	
1/2	2,180.00	1/2	1,820.66	1/2	1,463.44	1/2	1,117.86	1/2	767.15	1/2	407.82	1/2	50.09	1/2		1/2		1/2	
3/4	2,172.52	3/4	1,813.18	3/4	1,456.24	3/4	1,110.67	3/4	759.66	3/4	400.33	3/4	43.13	3/4		3/4		3/4	
7	2,165.03	7	1,805.69	7	1,449.04	7	1,103.49	7	752.18	7	392.85	7	36.17	7		7		7	
1/4	2,157.55	1/4	1,798.20	1/4	1,441.83	1/4	1,096.31	1/4	744.69	1/4	385.36	1/4	30.87	1/4		1/4		1/4	
1/2	2,150.06	1/2	1,790.72	1/2	1,434.63	1/2	1,089.12	1/2	737.21	1/2	377.87	1/2	25.57	1/2		1/2		1/2	
3/4	2,142.57	3/4	1,783.23	3/4	1,427.43	3/4	1,081.94	3/4	729.72	3/4	370.39	3/4	20.27	3/4		3/4		3/4	
8	2,135.09	8	1,775.74	8	1,420.22	8	1,074.76	8	722.23	8	362.90	8	14.97	8		8		8	
1/4	2,127.60	1/4	1,768.26	1/4	1,413.02	1/4	1,067.57	1/4	714.75	1/4	355.41	1/4		1/4		1/4		1/4	
1/2	2,120.11	1/2	1,760.77	1/2	1,405.82	1/2	1,060.39	1/2	707.26	1/2	347.93	1/2		1/2		1/2		1/2	
3/4	2,112.63	3/4	1,753.29	3/4	1,398.61	3/4	1,053.21	3/4	699.78	3/4	340.44	3/4		3/4		3/4		3/4	
9	2,105.14	9	1,745.80	9	1,391.41	9	1,046.03	9	692.29	9	332.96	9		9		9		9	
1/4	2,097.66	1/4	1,738.31	1/4	1,384.21	1/4	1,038.84	1/4	684.80	1/4	325.47	1/4		1/4		1/4		1/4	
1/2	2,090.17	1/2	1,730.83	1/2	1,377.00	1/2	1,031.66	1/2	677.32	1/2	317.98	1/2		1/2		1/2		1/2	
3/4	2,082.68	3/4	1,723.34	3/4	1,369.80	3/4	1,024.48	3/4	669.83	3/4	310.50	3/4		3/4		3/4		3/4	
10	2,075.20	10	1,715.85	10	1,362.60	10	1,017.29	10	662.34	10	303.01	10		10		10		10	
1/4	2,067.71	1/4	1,708.37	1/4	1,355.39	1/4	1,010.11	1/4	654.86	1/4	295.53	1/4		1/4		1/4		1/4	
1/2	2,060.22	1/2	1,700.88	1/2	1,348.19	1/2	1,002.93	1/2	647.37	1/2	288.04	1/2		1/2		1/2		1/2	
3/4	2,052.74	3/4	1,693.39	3/4	1,340.99	3/4	995.74	3/4	639.89	3/4	280.55	3/4		3/4		3/4		3/4	
11	2,045.25	11	1,685.91	11	1,333.78	11	988.56	11	632.40	11	273.07	11		11		11		11	
1/4	2,037.76	1/4	1,678.42	1/4	1,326.58	1/4	981.38	1/4	624.91	1/4	265.58	1/4		1/4		1/4		1/4	
1/2	2,030.28	1/2	1,670.94	1/2	1,319.38	1/2	974.19	1/2	617.43	1/2	258.10	1/2		1/2		1/2		1/2	
3/4	2,022.79	3/4	1,663.45	3/4	1,312.17	3/4	967.01	3/4	609.94	3/4	250.61	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 10/28/2014 CL
CALCULATED: 10/28/2014 CL
PRINTED: 10/28/2014 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 10/2014

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



BARGE "KIRBY 29121"

2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-08"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0		0		0		0	4,489.62	0	4,166.56	0	3,828.34	0	3,475.33	0	3,117.49	0	2,758.14
1/4		1/4		1/4		1/4		1/4	4,483.04	1/4	4,159.66	1/4	3,821.13	1/4	3,467.88	1/4	3,110.00	1/4	2,750.66
1/2		1/2		1/2		1/2	4,793.72	1/2	4,476.45	1/2	4,152.75	1/2	3,813.91	1/2	3,460.42	1/2	3,102.52	1/2	2,743.17
3/4		3/4		3/4		3/4	4,788.60	3/4	4,469.87	3/4	4,145.85	3/4	3,806.69	3/4	3,452.97	3/4	3,095.03	3/4	2,735.68
1		1		1		1	4,783.49	1	4,463.28	1	4,138.94	1	3,799.47	1	3,445.52	1	3,087.54	1	2,728.20
1/4		1/4		1/4		1/4	4,777.14	1/4	4,456.67	1/4	4,132.01	1/4	3,792.22	1/4	3,438.06	1/4	3,080.06	1/4	2,720.71
1/2		1/2		1/2		1/2	4,770.79	1/2	4,450.06	1/2	4,125.09	1/2	3,784.98	1/2	3,430.61	1/2	3,072.57	1/2	2,713.22
3/4		3/4		3/4		3/4	4,764.45	3/4	4,443.45	3/4	4,118.16	3/4	3,777.73	3/4	3,423.15	3/4	3,065.08	3/4	2,705.74
2		2		2		2	4,758.10	2	4,436.84	2	4,111.23	2	3,770.49	2	3,415.70	2	3,057.60	2	2,698.25
1/4		1/4		1/4		1/4	4,750.87	1/4	4,430.20	1/4	4,104.28	1/4	3,763.22	1/4	3,408.24	1/4	3,050.11	1/4	2,690.76
1/2		1/2		1/2		1/2	4,743.63	1/2	4,423.57	1/2	4,097.33	1/2	3,755.95	1/2	3,400.79	1/2	3,042.63	1/2	2,683.28
3/4		3/4		3/4		3/4	4,736.40	3/4	4,416.93	3/4	4,090.38	3/4	3,748.68	3/4	3,393.34	3/4	3,035.14	3/4	2,675.79
3		3		3		3	4,729.16	3	4,410.29	3	4,083.43	3	3,741.41	3	3,385.88	3	3,027.65	3	2,668.31
1/4		1/4		1/4		1/4	4,721.71	1/4	4,403.63	1/4	4,076.45	1/4	3,734.12	1/4	3,378.43	1/4	3,020.17	1/4	2,660.82
1/2		1/2		1/2		1/2	4,714.26	1/2	4,396.96	1/2	4,069.47	1/2	3,726.82	1/2	3,370.97	1/2	3,012.68	1/2	2,653.33
3/4		3/4		3/4		3/4	4,706.80	3/4	4,390.30	3/4	4,062.49	3/4	3,719.53	3/4	3,363.52	3/4	3,005.19	3/4	2,645.85
4		4		4		4	4,699.35	4	4,383.64	4	4,055.51	4	3,712.24	4	3,356.07	4	2,997.71	4	2,638.36
1/4		1/4		1/4		1/4	4,692.29	1/4	4,376.95	1/4	4,048.50	1/4	3,704.91	1/4	3,348.61	1/4	2,990.22	1/4	2,630.87
1/2		1/2		1/2		1/2	4,685.23	1/2	4,370.26	1/2	4,041.50	1/2	3,697.59	1/2	3,341.16	1/2	2,982.73	1/2	2,623.39
3/4		3/4		3/4		3/4	4,678.18	3/4	4,363.57	3/4	4,034.49	3/4	3,690.27	3/4	3,333.70	3/4	2,975.25	3/4	2,615.90
5		5		5		5	4,671.12	5	4,356.87	5	4,027.49	5	3,682.95	5	3,326.25	5	2,967.76	5	2,608.41
1/4		1/4		1/4		1/4	4,664.72	1/4	4,350.16	1/4	4,020.45	1/4	3,675.60	1/4	3,318.79	1/4	2,960.28	1/4	2,600.93
1/2		1/2		1/2		1/2	4,658.32	1/2	4,343.44	1/2	4,013.42	1/2	3,668.25	1/2	3,311.34	1/2	2,952.79	1/2	2,593.44
3/4		3/4		3/4		3/4	4,651.92	3/4	4,336.73	3/4	4,006.39	3/4	3,660.91	3/4	3,303.89	3/4	2,945.30	3/4	2,585.96
6		6		6		6	4,645.51	6	4,330.01	6	3,999.36	6	3,653.56	6	3,296.43	6	2,937.82	6	2,578.47
1/4		1/4		1/4		1/4	4,639.09	1/4	4,323.26	1/4	3,992.30	1/4	3,646.19	1/4	3,288.98	1/4	2,930.33	1/4	2,570.98
1/2		1/2		1/2		1/2	4,632.66	1/2	4,316.52	1/2	3,985.24	1/2	3,638.81	1/2	3,281.52	1/2	2,922.84	1/2	2,563.50
3/4		3/4		3/4		3/4	4,626.23	3/4	4,309.78	3/4	3,978.18	3/4	3,631.44	3/4	3,274.07	3/4	2,915.36	3/4	2,556.01
7		7		7		7	4,619.80	7	4,303.03	7	3,971.12	7	3,624.06	7	3,266.62	7	2,907.87	7	2,548.52
1/4		1/4		1/4		1/4	4,613.34	1/4	4,296.26	1/4	3,964.04	1/4	3,616.66	1/4	3,259.16	1/4	2,900.38	1/4	2,541.04
1/2		1/2		1/2		1/2	4,606.89	1/2	4,289.49	1/2	3,956.95	1/2	3,609.26	1/2	3,251.71	1/2	2,892.90	1/2	2,533.55
3/4		3/4		3/4		3/4	4,600.43	3/4	4,282.72	3/4	3,949.87	3/4	3,601.86	3/4	3,244.25	3/4	2,885.41	3/4	2,526.06
8		8		8		8	4,593.98	8	4,275.95	8	3,942.78	8	3,594.46	8	3,236.80	8	2,877.92	8	2,518.58
1/4		1/4		1/4		1/4	4,587.50	1/4	4,269.16	1/4	3,935.67	1/4	3,587.03	1/4	3,229.34	1/4	2,870.44	1/4	2,511.09
1/2		1/2		1/2		1/2	4,581.01	1/2	4,262.36	1/2	3,928.56	1/2	3,579.61	1/2	3,221.89	1/2	2,862.95	1/2	2,503.60
3/4		3/4		3/4		3/4	4,574.53	3/4	4,255.56	3/4	3,921.44	3/4	3,572.18	3/4	3,214.44	3/4	2,855.47	3/4	2,496.12
9		9		9		9	4,568.05	9	4,248.76	9	3,914.33	9	3,564.75	9	3,206.98	9	2,847.98	9	2,488.63
1/4		1/4		1/4		1/4	4,561.54	1/4	4,241.94	1/4	3,907.19	1/4	3,557.30	1/4	3,199.53	1/4	2,840.49	1/4	2,481.15
1/2		1/2		1/2		1/2	4,555.03	1/2	4,235.12	1/2	3,900.05	1/2	3,549.86	1/2	3,192.07	1/2	2,833.01	1/2	2,473.66
3/4		3/4		3/4		3/4	4,548.52	3/4	4,228.29	3/4	3,892.92	3/4	3,542.41	3/4	3,184.62	3/4	2,825.52	3/4	2,466.17
10		10		10		10	4,542.01	10	4,221.47	10	3,885.78	10	3,534.97	10	3,177.16	10	2,818.03	10	2,458.69
1/4		1/4		1/4		1/4	4,535.48	1/4	4,214.62	1/4	3,878.61	1/4	3,527.51	1/4	3,169.71	1/4	2,810.55	1/4	2,451.20
1/2		1/2		1/2		1/2	4,528.94	1/2	4,207.77	1/2	3,871.45	1/2	3,520.06	1/2	3,162.26	1/2	2,803.06	1/2	2,443.71
3/4		3/4		3/4		3/4	4,522.41	3/4	4,200.92	3/4	3,864.28	3/4	3,512.60	3/4	3,154.80	3/4	2,795.57	3/4	2,436.23
11		11		11		11	4,515.87	11	4,194.07	11	3,857.12	11	3,505.15	11	3,147.35	11	2,788.09	11	2,428.74
1/4		1/4		1/4		1/4	4,509.31	1/4	4,187.19	1/4	3,849.92	1/4	3,497.70	1/4	3,139.88	1/4	2,780.60	1/4	2,421.25
1/2		1/2		1/2		1/2	4,502.75	1/2	4,180.31	1/2	3,842.73	1/2	3,490.24	1/2	3,132.42	1/2	2,773.12	1/2	2,413.77
3/4		3/4		3/4		3/4	4,496.19	3/4	4,173.44	3/4	3,835.54	3/4	3,482.79	3/4	3,124.95	3/4	2,765.63	3/4	2,406.28

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN WITH "HERMETIC" CLOSED GAUGING DEVICE
 GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 52'-03" FORWARD OF AFT BULKHEAD

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



BARGE "KIRBY 29121"

2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-08"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,398.80	0	2,039.45	0	1,680.10	0	1,320.75	0	961.67	0	602.46	0	243.12	0		0		0	
1/4	2,391.31	1/4	2,031.96	1/4	1,672.61	1/4	1,313.27	1/4	954.19	1/4	594.97	1/4	235.64	1/4		1/4		1/4	
1/2	2,383.82	1/2	2,024.48	1/2	1,665.13	1/2	1,305.78	1/2	946.72	1/2	587.48	1/2	228.15	1/2		1/2		1/2	
3/4	2,376.34	3/4	2,016.99	3/4	1,657.64	3/4	1,298.29	3/4	939.25	3/4	580.00	3/4	220.67	3/4		3/4		3/4	
1	2,368.85	1	2,009.50	1	1,650.16	1	1,290.81	1	931.77	1	572.51	1	213.18	1		1		1	
1/4	2,361.36	1/4	2,002.02	1/4	1,642.67	1/4	1,283.32	1/4	924.30	1/4	565.03	1/4	205.70	1/4		1/4		1/4	
1/2	2,353.88	1/2	1,994.53	1/2	1,635.18	1/2	1,275.84	1/2	916.82	1/2	557.54	1/2	198.21	1/2		1/2		1/2	
3/4	2,346.39	3/4	1,987.04	3/4	1,627.70	3/4	1,268.35	3/4	909.35	3/4	550.05	3/4	190.73	3/4		3/4		3/4	
2	2,338.90	2	1,979.56	2	1,620.21	2	1,260.86	2	901.87	2	542.57	2	183.24	2		2		2	
1/4	2,331.42	1/4	1,972.07	1/4	1,612.72	1/4	1,253.38	1/4	894.39	1/4	535.08	1/4	175.77	1/4		1/4		1/4	
1/2	2,323.93	1/2	1,964.58	1/2	1,605.24	1/2	1,245.89	1/2	886.92	1/2	527.59	1/2	168.29	1/2		1/2		1/2	
3/4	2,316.44	3/4	1,957.10	3/4	1,597.75	3/4	1,238.40	3/4	879.44	3/4	520.11	3/4	160.81	3/4		3/4		3/4	
3	2,308.96	3	1,949.61	3	1,590.26	3	1,230.92	3	871.96	3	512.62	3	153.33	3		3		3	
1/4	2,301.47	1/4	1,942.12	1/4	1,582.78	1/4	1,223.43	1/4	864.47	1/4	505.14	1/4	145.87	1/4		1/4		1/4	
1/2	2,293.99	1/2	1,934.64	1/2	1,575.29	1/2	1,215.94	1/2	856.98	1/2	497.65	1/2	138.40	1/2		1/2		1/2	
3/4	2,286.50	3/4	1,927.15	3/4	1,567.80	3/4	1,208.46	3/4	849.50	3/4	490.16	3/4	130.93	3/4		3/4		3/4	
4	2,279.01	4	1,919.67	4	1,560.32	4	1,200.97	4	842.01	4	482.68	4	123.47	4		4		4	
1/4	2,271.53	1/4	1,912.18	1/4	1,552.83	1/4	1,193.48	1/4	834.53	1/4	475.19	1/4	116.02	1/4		1/4		1/4	
1/2	2,264.04	1/2	1,904.69	1/2	1,545.35	1/2	1,186.00	1/2	827.04	1/2	467.71	1/2	108.57	1/2		1/2		1/2	
3/4	2,256.55	3/4	1,897.21	3/4	1,537.86	3/4	1,178.51	3/4	819.55	3/4	460.22	3/4	101.12	3/4		3/4		3/4	
5	2,249.07	5	1,889.72	5	1,530.37	5	1,171.03	5	812.07	5	452.73	5	93.67	5		5		5	
1/4	2,241.58	1/4	1,882.23	1/4	1,522.89	1/4	1,163.54	1/4	804.58	1/4	445.25	1/4	86.26	1/4		1/4		1/4	
1/2	2,234.09	1/2	1,874.75	1/2	1,515.40	1/2	1,156.05	1/2	797.09	1/2	437.76	1/2	78.84	1/2		1/2		1/2	
3/4	2,226.61	3/4	1,867.26	3/4	1,507.91	3/4	1,148.57	3/4	789.61	3/4	430.28	3/4	71.42	3/4		3/4		3/4	
6	2,219.12	6	1,859.77	6	1,500.43	6	1,141.08	6	782.12	6	422.79	6	64.00	6		6		6	
1/4	2,211.64	1/4	1,852.29	1/4	1,492.94	1/4	1,133.60	1/4	774.64	1/4	415.30	1/4	57.05	1/4		1/4		1/4	
1/2	2,204.15	1/2	1,844.80	1/2	1,485.45	1/2	1,126.12	1/2	767.15	1/2	407.82	1/2	50.09	1/2		1/2		1/2	
3/4	2,196.66	3/4	1,837.32	3/4	1,477.97	3/4	1,118.63	3/4	759.66	3/4	400.33	3/4	43.13	3/4		3/4		3/4	
7	2,189.18	7	1,829.83	7	1,470.48	7	1,111.15	7	752.18	7	392.85	7	36.17	7		7		7	
1/4	2,181.69	1/4	1,822.34	1/4	1,463.00	1/4	1,103.68	1/4	744.69	1/4	385.36	1/4	30.87	1/4		1/4		1/4	
1/2	2,174.20	1/2	1,814.86	1/2	1,455.51	1/2	1,096.20	1/2	737.21	1/2	377.87	1/2	25.57	1/2		1/2		1/2	
3/4	2,166.72	3/4	1,807.37	3/4	1,448.02	3/4	1,088.73	3/4	729.72	3/4	370.39	3/4	20.27	3/4		3/4		3/4	
8	2,159.23	8	1,799.88	8	1,440.54	8	1,081.26	8	722.23	8	362.90	8	14.97	8		8		8	
1/4	2,151.74	1/4	1,792.40	1/4	1,433.05	1/4	1,073.78	1/4	714.75	1/4	355.41	1/4		1/4		1/4		1/4	
1/2	2,144.26	1/2	1,784.91	1/2	1,425.56	1/2	1,066.31	1/2	707.26	1/2	347.93	1/2		1/2		1/2		1/2	
3/4	2,136.77	3/4	1,777.42	3/4	1,418.08	3/4	1,058.83	3/4	699.78	3/4	340.44	3/4		3/4		3/4		3/4	
9	2,129.28	9	1,769.94	9	1,410.59	9	1,051.36	9	692.29	9	332.96	9		9		9		9	
1/4	2,121.80	1/4	1,762.45	1/4	1,403.10	1/4	1,043.88	1/4	684.80	1/4	325.47	1/4		1/4		1/4		1/4	
1/2	2,114.31	1/2	1,754.96	1/2	1,395.62	1/2	1,036.41	1/2	677.32	1/2	317.98	1/2		1/2		1/2		1/2	
3/4	2,106.83	3/4	1,747.48	3/4	1,388.13	3/4	1,028.94	3/4	669.83	3/4	310.50	3/4		3/4		3/4		3/4	
10	2,099.34	10	1,739.99	10	1,380.64	10	1,021.46	10	662.34	10	303.01	10		10		10		10	
1/4	2,091.85	1/4	1,732.51	1/4	1,373.16	1/4	1,013.99	1/4	654.86	1/4	295.53	1/4		1/4		1/4		1/4	
1/2	2,084.37	1/2	1,725.02	1/2	1,365.67	1/2	1,006.51	1/2	647.37	1/2	288.04	1/2		1/2		1/2		1/2	
3/4	2,076.88	3/4	1,717.53	3/4	1,358.19	3/4	999.04	3/4	639.89	3/4	280.55	3/4		3/4		3/4		3/4	
11	2,069.39	11	1,710.05	11	1,350.70	11	991.57	11	632.40	11	273.07	11		11		11		11	
1/4	2,061.91	1/4	1,702.56	1/4	1,343.21	1/4	984.09	1/4	624.91	1/4	265.58	1/4		1/4		1/4		1/4	
1/2	2,054.42	1/2	1,695.07	1/2	1,335.73	1/2	976.62	1/2	617.43	1/2	258.10	1/2		1/2		1/2		1/2	
3/4	2,046.93	3/4	1,687.59	3/4	1,328.24	3/4	969.14	3/4	609.94	3/4	250.61	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 10/28/2014 CL
CALCULATED: 10/28/2014 CL
PRINTED: 10/28/2014 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 10/2014

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



BARGE "KIRBY 29121"

3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-06"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	0	0	0	0	0	0	4,360.54	0	4,120.75	0	3,875.21	0	3,617.67	0	3,348.35	0	2,999.92	0	2,643.99
1/4		1/4		1/4		1/4	4,355.91	1/4	4,115.75	1/4	3,869.95	1/4	3,612.17	1/4	3,342.66	1/4	2,992.51	1/4	2,636.58
1/2		1/2		1/2		1/2	4,351.29	1/2	4,110.75	1/2	3,864.70	1/2	3,606.67	1/2	3,336.96	1/2	2,985.09	1/2	2,629.16
3/4		3/4		3/4		3/4	4,346.66	3/4	4,105.75	3/4	3,859.44	3/4	3,601.17	3/4	3,331.26	3/4	2,977.68	3/4	2,621.75
1	1	1	1	1	1	1	4,342.03	1	4,100.75	1	3,854.19	1	3,595.67	1	3,325.57	1	2,970.26	1	2,614.33
1/4		1/4		1/4		1/4	4,337.89	1/4	4,095.73	1/4	3,848.92	1/4	3,590.15	1/4	3,318.15	1/4	2,962.85	1/4	2,606.92
1/2		1/2		1/2		1/2	4,333.74	1/2	4,090.71	1/2	3,843.64	1/2	3,584.62	1/2	3,310.73	1/2	2,955.43	1/2	2,599.50
3/4		3/4		3/4		3/4	4,329.59	3/4	4,085.69	3/4	3,838.37	3/4	3,579.10	3/4	3,303.31	3/4	2,948.02	3/4	2,592.09
2	2	2	2	2	2	2	4,325.45	2	4,080.67	2	3,833.10	2	3,573.57	2	3,295.90	2	2,940.60	2	2,584.67
1/4		1/4		1/4		1/4	4,320.10	1/4	4,075.63	1/4	3,827.81	1/4	3,568.03	1/4	3,288.48	1/4	2,933.19	1/4	2,577.26
1/2		1/2		1/2		1/2	4,314.75	1/2	4,070.58	1/2	3,822.52	1/2	3,562.49	1/2	3,281.06	1/2	2,925.77	1/2	2,569.84
3/4		3/4		3/4		3/4	4,309.40	3/4	4,065.54	3/4	3,817.23	3/4	3,556.94	3/4	3,273.64	3/4	2,918.36	3/4	2,562.43
3	3	3	3	3	3	3	4,304.06	3	4,060.50	3	3,811.94	3	3,551.40	3	3,266.22	3	2,910.94	3	2,555.01
1/4		1/4		1/4		1/4	4,298.36	1/4	4,055.44	1/4	3,806.63	1/4	3,545.84	1/4	3,258.80	1/4	2,903.53	1/4	2,547.60
1/2		1/2		1/2		1/2	4,292.66	1/2	4,050.37	1/2	3,801.31	1/2	3,540.28	1/2	3,251.39	1/2	2,896.11	1/2	2,540.18
3/4		3/4		3/4		3/4	4,286.97	3/4	4,045.31	3/4	3,796.00	3/4	3,534.72	3/4	3,243.97	3/4	2,888.69	3/4	2,532.77
4	4	4	4	4	4	4	4,281.27	4	4,040.25	4	3,790.69	4	3,529.16	4	3,236.55	4	2,881.28	4	2,525.35
1/4		1/4		1/4		1/4	4,275.57	1/4	4,035.17	1/4	3,785.35	1/4	3,523.58	1/4	3,229.13	1/4	2,873.86	1/4	2,517.93
1/2		1/2		1/2		1/2	4,269.88	1/2	4,030.08	1/2	3,780.02	1/2	3,517.99	1/2	3,221.71	1/2	2,866.45	1/2	2,510.52
3/4		3/4		3/4		3/4	4,264.18	3/4	4,025.00	3/4	3,774.69	3/4	3,512.41	3/4	3,214.29	3/4	2,859.03	3/4	2,503.10
5	5	5	5	5	5	5	4,258.49	5	4,019.91	5	3,769.36	5	3,506.83	5	3,206.88	5	2,851.62	5	2,495.69
1/4		1/4		1/4		1/4	4,253.63	1/4	4,014.81	1/4	3,764.00	1/4	3,501.22	1/4	3,199.49	1/4	2,844.20	1/4	2,488.27
1/2		1/2		1/2		1/2	4,248.77	1/2	4,009.70	1/2	3,758.65	1/2	3,495.62	1/2	3,192.09	1/2	2,836.79	1/2	2,480.86
3/4		3/4		3/4		3/4	4,243.92	3/4	4,004.60	3/4	3,753.29	3/4	3,490.02	3/4	3,184.70	3/4	2,829.37	3/4	2,473.44
6	6	6	6	6	6	6	4,239.06	6	3,999.50	6	3,747.93	6	3,484.42	6	3,177.31	6	2,821.96	6	2,466.03
1/4		1/4		1/4		1/4	4,234.18	1/4	3,994.37	1/4	3,742.56	1/4	3,478.79	1/4	3,169.92	1/4	2,814.54	1/4	2,458.61
1/2		1/2		1/2		1/2	4,229.31	1/2	3,989.24	1/2	3,737.19	1/2	3,473.17	1/2	3,162.53	1/2	2,807.13	1/2	2,451.20
3/4		3/4		3/4		3/4	4,224.43	3/4	3,984.11	3/4	3,731.81	3/4	3,467.54	3/4	3,155.14	3/4	2,799.71	3/4	2,443.78
7	7	7	7	7	7	7	4,219.56	7	3,978.99	7	3,726.44	7	3,461.91	7	3,147.75	7	2,792.30	7	2,436.37
1/4		1/4		1/4		1/4	4,214.66	1/4	3,973.84	1/4	3,721.04	1/4	3,456.27	1/4	3,140.36	1/4	2,784.88	1/4	2,428.95
1/2		1/2		1/2		1/2	4,209.76	1/2	3,968.70	1/2	3,715.65	1/2	3,450.62	1/2	3,132.96	1/2	2,777.47	1/2	2,421.54
3/4		3/4		3/4		3/4	4,204.86	3/4	3,963.55	3/4	3,710.25	3/4	3,444.98	3/4	3,125.57	3/4	2,770.05	3/4	2,414.12
8	8	8	8	8	8	8	4,199.96	8	3,958.41	8	3,704.85	8	3,439.34	8	3,118.18	8	2,762.64	8	2,406.71
1/4		1/4		1/4		1/4	4,195.04	1/4	3,953.24	1/4	3,699.44	1/4	3,433.67	1/4	3,110.79	1/4	2,755.22	1/4	2,399.29
1/2		1/2		1/2		1/2	4,190.13	1/2	3,948.07	1/2	3,694.02	1/2	3,428.00	1/2	3,103.40	1/2	2,747.81	1/2	2,391.88
3/4		3/4		3/4		3/4	4,185.21	3/4	3,942.90	3/4	3,688.60	3/4	3,422.33	3/4	3,096.01	3/4	2,740.39	3/4	2,384.46
9	9	9	9	9	9	9	4,180.29	9	3,937.73	9	3,683.19	9	3,416.67	9	3,088.62	9	2,732.98	9	2,377.05
1/4		1/4		1/4		1/4	4,175.35	1/4	3,932.54	1/4	3,677.75	1/4	3,410.98	1/4	3,081.23	1/4	2,725.56	1/4	2,369.63
1/2		1/2		1/2		1/2	4,170.41	1/2	3,927.35	1/2	3,672.31	1/2	3,405.29	1/2	3,073.83	1/2	2,718.15	1/2	2,362.21
3/4		3/4		3/4		3/4	4,165.47	3/4	3,922.16	3/4	3,666.87	3/4	3,399.61	3/4	3,066.44	3/4	2,710.73	3/4	2,354.80
10	10	10	10	10	10	10	4,160.53	10	3,916.98	10	3,661.43	10	3,393.92	10	3,059.05	10	2,703.31	10	2,347.38
1/4		1/4		1/4		1/4	4,155.57	1/4	3,911.76	1/4	3,655.97	1/4	3,388.22	1/4	3,051.66	1/4	2,695.90	1/4	2,339.97
1/2		1/2		1/2		1/2	4,150.61	1/2	3,906.55	1/2	3,650.51	1/2	3,382.53	1/2	3,044.27	1/2	2,688.48	1/2	2,332.55
3/4		3/4		3/4		3/4	4,145.65	3/4	3,901.34	3/4	3,645.06	3/4	3,376.83	3/4	3,036.88	3/4	2,681.07	3/4	2,325.14
11	11	11	11	11	11	11	4,140.69	11	3,896.13	11	3,639.60	11	3,371.14	11	3,029.49	11	2,673.65	11	2,317.72
1/4		1/4		1/4		1/4	4,135.71	1/4	3,890.90	1/4	3,634.12	1/4	3,365.44	1/4	3,022.10	1/4	2,666.24	1/4	2,310.30
1/2		1/2		1/2		1/2	4,130.72	1/2	3,885.67	1/2	3,628.63	1/2	3,359.74	1/2	3,014.71	1/2	2,658.82	1/2	2,302.89
3/4		3/4		3/4		3/4	4,125.74	3/4	3,880.44	3/4	3,623.15	3/4	3,354.05	3/4	3,007.31	3/4	2,651.41	3/4	2,295.47

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN WITH "HERMETIC" CLOSED GAUGING DEVICE
 GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 51'-03" FORWARD OF AFT BULKHEAD

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



BARGE "KIRBY 29121"

3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-06"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,288.06	0	1,931.71	0	1,576.24	0	1,219.71	0	876.46	0	520.02	0	163.33	0		0		0	
1/4	2,280.64	1/4	1,924.28	1/4	1,568.84	1/4	1,212.55	1/4	869.05	1/4	512.59	1/4	155.90	1/4		1/4		1/4	
1/2	2,273.23	1/2	1,916.85	1/2	1,561.43	1/2	1,205.39	1/2	861.64	1/2	505.16	1/2	148.47	1/2		1/2		1/2	
3/4	2,265.81	3/4	1,909.42	3/4	1,554.03	3/4	1,198.23	3/4	854.23	3/4	497.73	3/4	141.04	3/4		3/4		3/4	
1	2,258.39	1	1,901.99	1	1,546.63	1	1,191.07	1	846.82	1	490.30	1	133.60	1		1		1	
1/4	2,250.98	1/4	1,894.59	1/4	1,539.20	1/4	1,183.90	1/4	839.41	1/4	482.87	1/4	126.17	1/4		1/4		1/4	
1/2	2,243.56	1/2	1,887.19	1/2	1,531.77	1/2	1,176.74	1/2	832.00	1/2	475.43	1/2	118.74	1/2		1/2		1/2	
3/4	2,236.15	3/4	1,879.78	3/4	1,524.34	3/4	1,169.58	3/4	824.59	3/4	468.00	3/4	111.31	3/4		3/4		3/4	
2	2,228.73	2	1,872.38	2	1,516.91	2	1,162.42	2	817.18	2	460.57	2	103.88	2		2		2	
1/4	2,221.32	1/4	1,864.98	1/4	1,509.48	1/4	1,155.26	1/4	809.77	1/4	453.14	1/4	96.77	1/4		1/4		1/4	
1/2	2,213.90	1/2	1,857.57	1/2	1,502.05	1/2	1,148.09	1/2	802.36	1/2	445.71	1/2	89.65	1/2		1/2		1/2	
3/4	2,206.48	3/4	1,850.17	3/4	1,494.62	3/4	1,140.93	3/4	794.95	3/4	438.28	3/4	82.53	3/4		3/4		3/4	
3	2,199.07	3	1,842.77	3	1,487.19	3	1,133.77	3	787.54	3	430.85	3	75.42	3		3		3	
1/4	2,191.65	1/4	1,835.36	1/4	1,479.76	1/4	1,126.61	1/4	780.11	1/4	423.42	1/4	69.24	1/4		1/4		1/4	
1/2	2,184.24	1/2	1,827.96	1/2	1,472.33	1/2	1,119.44	1/2	772.68	1/2	415.99	1/2	63.06	1/2		1/2		1/2	
3/4	2,176.82	3/4	1,820.55	3/4	1,464.90	3/4	1,112.28	3/4	765.25	3/4	408.56	3/4	56.89	3/4		3/4		3/4	
4	2,169.41	4	1,813.15	4	1,457.47	4	1,105.12	4	757.82	4	401.12	4	50.71	4		4		4	
1/4	2,161.99	1/4	1,805.75	1/4	1,450.04	1/4	1,097.96	1/4	750.39	1/4	393.69	1/4	45.79	1/4		1/4		1/4	
1/2	2,154.57	1/2	1,798.34	1/2	1,442.61	1/2	1,090.80	1/2	742.95	1/2	386.26	1/2	40.87	1/2		1/2		1/2	
3/4	2,147.16	3/4	1,790.94	3/4	1,435.18	3/4	1,083.63	3/4	735.52	3/4	378.83	3/4	35.94	3/4		3/4		3/4	
5	2,139.74	5	1,783.54	5	1,427.75	5	1,076.47	5	728.09	5	371.40	5	31.02	5		5		5	
1/4	2,132.31	1/4	1,776.13	1/4	1,420.32	1/4	1,069.32	1/4	720.66	1/4	363.97	1/4	27.36	1/4		1/4		1/4	
1/2	2,124.88	1/2	1,768.73	1/2	1,412.89	1/2	1,062.18	1/2	713.23	1/2	356.54	1/2	23.70	1/2		1/2		1/2	
3/4	2,117.45	3/4	1,761.33	3/4	1,405.46	3/4	1,055.03	3/4	705.80	3/4	349.11	3/4	20.04	3/4		3/4		3/4	
6	2,110.02	6	1,753.92	6	1,398.03	6	1,047.88	6	698.37	6	341.68	6	16.38	6		6		6	
1/4	2,102.60	1/4	1,746.52	1/4	1,390.60	1/4	1,040.73	1/4	690.94	1/4	334.24	1/4		1/4		1/4		1/4	
1/2	2,095.17	1/2	1,739.12	1/2	1,383.17	1/2	1,033.58	1/2	683.51	1/2	326.81	1/2		1/2		1/2		1/2	
3/4	2,087.74	3/4	1,731.71	3/4	1,375.74	3/4	1,026.44	3/4	676.07	3/4	319.38	3/4		3/4		3/4		3/4	
7	2,080.31	7	1,724.31	7	1,368.31	7	1,019.29	7	668.64	7	311.95	7		7		7		7	
1/4	2,072.88	1/4	1,716.91	1/4	1,360.88	1/4	1,012.14	1/4	661.21	1/4	304.52	1/4		1/4		1/4		1/4	
1/2	2,065.45	1/2	1,709.50	1/2	1,353.45	1/2	1,005.00	1/2	653.78	1/2	297.09	1/2		1/2		1/2		1/2	
3/4	2,058.02	3/4	1,702.10	3/4	1,346.02	3/4	997.85	3/4	646.35	3/4	289.66	3/4		3/4		3/4		3/4	
8	2,050.59	8	1,694.70	8	1,338.59	8	990.71	8	638.92	8	282.23	8		8		8		8	
1/4	2,043.16	1/4	1,687.29	1/4	1,331.16	1/4	983.57	1/4	631.49	1/4	274.80	1/4		1/4		1/4		1/4	
1/2	2,035.73	1/2	1,679.89	1/2	1,323.73	1/2	976.43	1/2	624.06	1/2	267.36	1/2		1/2		1/2		1/2	
3/4	2,028.30	3/4	1,672.48	3/4	1,316.30	3/4	969.29	3/4	616.63	3/4	259.93	3/4		3/4		3/4		3/4	
9	2,020.87	9	1,665.08	9	1,308.87	9	962.15	9	609.19	9	252.50	9		9		9		9	
1/4	2,013.44	1/4	1,657.68	1/4	1,301.44	1/4	955.01	1/4	601.76	1/4	245.07	1/4		1/4		1/4		1/4	
1/2	2,006.01	1/2	1,650.27	1/2	1,294.01	1/2	947.86	1/2	594.33	1/2	237.64	1/2		1/2		1/2		1/2	
3/4	1,998.58	3/4	1,642.87	3/4	1,286.58	3/4	940.72	3/4	586.90	3/4	230.21	3/4		3/4		3/4		3/4	
10	1,991.15	10	1,635.47	10	1,279.15	10	933.58	10	579.47	10	222.78	10		10		10		10	
1/4	1,983.72	1/4	1,628.06	1/4	1,271.72	1/4	926.44	1/4	572.04	1/4	215.35	1/4		1/4		1/4		1/4	
1/2	1,976.29	1/2	1,620.66	1/2	1,264.29	1/2	919.30	1/2	564.61	1/2	207.92	1/2		1/2		1/2		1/2	
3/4	1,968.86	3/4	1,613.26	3/4	1,256.86	3/4	912.16	3/4	557.18	3/4	200.48	3/4		3/4		3/4		3/4	
11	1,961.43	11	1,605.85	11	1,249.43	11	905.02	11	549.75	11	193.05	11		11		11		11	
1/4	1,954.00	1/4	1,598.45	1/4	1,242.00	1/4	897.88	1/4	542.31	1/4	185.62	1/4		1/4		1/4		1/4	
1/2	1,946.57	1/2	1,591.05	1/2	1,234.57	1/2	890.74	1/2	534.88	1/2	178.19	1/2		1/2		1/2		1/2	
3/4	1,939.14	3/4	1,583.64	3/4	1,227.14	3/4	883.60	3/4	527.45	3/4	170.76	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 10/28/2014 CL
CALCULATED: 10/28/2014 CL
PRINTED: 10/28/2014 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 10/2014

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



BARGE "KIRBY 29121"

3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-06"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	0	0	0	0	0	0	4,388.48	0	4,147.53	0	3,900.83	0	3,642.13	0	3,371.63	0	3,021.26	0	2,664.00
1/4		1/4		1/4		1/4	4,383.83	1/4	4,142.51	1/4	3,895.55	1/4	3,636.60	1/4	3,365.91	1/4	3,013.82	1/4	2,656.56
1/2		1/2		1/2		1/2	4,379.18	1/2	4,137.48	1/2	3,890.28	1/2	3,631.08	1/2	3,360.19	1/2	3,006.38	1/2	2,649.12
3/4		3/4		3/4		3/4	4,374.53	3/4	4,132.46	3/4	3,885.00	3/4	3,625.55	3/4	3,354.47	3/4	2,998.93	3/4	2,641.67
1	1	1	1	1	1	1	4,369.88	1	4,127.43	1	3,879.72	1	3,620.03	1	3,348.75	1	2,991.49	1	2,634.23
1/4		1/4		1/4		1/4	4,365.71	1/4	4,122.39	1/4	3,874.42	1/4	3,614.48	1/4	3,341.31	1/4	2,984.05	1/4	2,626.79
1/2		1/2		1/2		1/2	4,361.54	1/2	4,117.35	1/2	3,869.13	1/2	3,608.93	1/2	3,333.86	1/2	2,976.60	1/2	2,619.35
3/4		3/4		3/4		3/4	4,357.37	3/4	4,112.30	3/4	3,863.83	3/4	3,603.38	3/4	3,326.42	3/4	2,969.16	3/4	2,611.90
2	2	2	2	2	2	2	4,353.20	2	4,107.26	2	3,858.53	2	3,597.83	2	3,318.98	2	2,961.72	2	2,604.46
1/4		1/4		1/4		1/4	4,347.82	1/4	4,102.19	1/4	3,853.22	1/4	3,592.26	1/4	3,311.54	1/4	2,954.28	1/4	2,597.02
1/2		1/2		1/2		1/2	4,342.45	1/2	4,097.12	1/2	3,847.91	1/2	3,586.70	1/2	3,304.09	1/2	2,946.83	1/2	2,589.57
3/4		3/4		3/4		3/4	4,337.08	3/4	4,092.06	3/4	3,842.59	3/4	3,581.13	3/4	3,296.65	3/4	2,939.39	3/4	2,582.13
3	3	3	3	3	3	3	4,331.71	3	4,086.99	3	3,837.28	3	3,575.57	3	3,289.21	3	2,931.95	3	2,574.69
1/4		1/4		1/4		1/4	4,325.99	1/4	4,081.90	1/4	3,831.94	1/4	3,569.98	1/4	3,281.76	1/4	2,924.50	1/4	2,567.25
1/2		1/2		1/2		1/2	4,320.27	1/2	4,076.82	1/2	3,826.60	1/2	3,564.40	1/2	3,274.32	1/2	2,917.06	1/2	2,559.80
3/4		3/4		3/4		3/4	4,314.55	3/4	4,071.73	3/4	3,821.26	3/4	3,558.81	3/4	3,266.88	3/4	2,909.62	3/4	2,552.36
4	4	4	4	4	4	4	4,308.83	4	4,066.65	4	3,815.93	4	3,553.23	4	3,259.44	4	2,902.18	4	2,544.92
1/4		1/4		1/4		1/4	4,303.11	1/4	4,061.54	1/4	3,810.57	1/4	3,547.62	1/4	3,251.99	1/4	2,894.73	1/4	2,537.47
1/2		1/2		1/2		1/2	4,297.38	1/2	4,056.43	1/2	3,805.21	1/2	3,542.01	1/2	3,244.55	1/2	2,887.29	1/2	2,530.03
3/4		3/4		3/4		3/4	4,291.66	3/4	4,051.32	3/4	3,799.86	3/4	3,536.40	3/4	3,237.11	3/4	2,879.85	3/4	2,522.59
5	5	5	5	5	5	5	4,285.94	5	4,046.21	5	3,794.50	5	3,530.79	5	3,229.66	5	2,872.40	5	2,515.15
1/4		1/4		1/4		1/4	4,281.06	1/4	4,041.08	1/4	3,789.12	1/4	3,525.17	1/4	3,222.22	1/4	2,864.96	1/4	2,507.70
1/2		1/2		1/2		1/2	4,276.18	1/2	4,035.96	1/2	3,783.74	1/2	3,519.54	1/2	3,214.78	1/2	2,857.52	1/2	2,500.26
3/4		3/4		3/4		3/4	4,271.30	3/4	4,030.83	3/4	3,778.36	3/4	3,513.91	3/4	3,207.33	3/4	2,850.08	3/4	2,492.82
6	6	6	6	6	6	6	4,266.42	6	4,025.70	6	3,772.98	6	3,508.28	6	3,199.89	6	2,842.63	6	2,485.37
1/4		1/4		1/4		1/4	4,261.52	1/4	4,020.55	1/4	3,767.58	1/4	3,502.63	1/4	3,192.45	1/4	2,835.19	1/4	2,477.93
1/2		1/2		1/2		1/2	4,256.62	1/2	4,015.40	1/2	3,762.18	1/2	3,496.98	1/2	3,185.01	1/2	2,827.75	1/2	2,470.49
3/4		3/4		3/4		3/4	4,251.72	3/4	4,010.25	3/4	3,756.79	3/4	3,491.33	3/4	3,177.56	3/4	2,820.30	3/4	2,463.04
7	7	7	7	7	7	7	4,246.82	7	4,005.10	7	3,751.39	7	3,485.68	7	3,170.12	7	2,812.86	7	2,455.60
1/4		1/4		1/4		1/4	4,241.90	1/4	3,999.93	1/4	3,745.97	1/4	3,480.01	1/4	3,162.68	1/4	2,805.42	1/4	2,448.16
1/2		1/2		1/2		1/2	4,236.98	1/2	3,994.76	1/2	3,740.54	1/2	3,474.34	1/2	3,155.23	1/2	2,797.98	1/2	2,440.72
3/4		3/4		3/4		3/4	4,232.05	3/4	3,989.59	3/4	3,735.12	3/4	3,468.68	3/4	3,147.79	3/4	2,790.53	3/4	2,433.27
8	8	8	8	8	8	8	4,227.13	8	3,984.42	8	3,729.70	8	3,463.01	8	3,140.35	8	2,783.09	8	2,425.83
1/4		1/4		1/4		1/4	4,222.19	1/4	3,979.22	1/4	3,724.26	1/4	3,457.31	1/4	3,132.91	1/4	2,775.65	1/4	2,418.39
1/2		1/2		1/2		1/2	4,217.25	1/2	3,974.03	1/2	3,718.82	1/2	3,451.62	1/2	3,125.46	1/2	2,768.20	1/2	2,410.94
3/4		3/4		3/4		3/4	4,212.31	3/4	3,968.84	3/4	3,713.38	3/4	3,445.93	3/4	3,118.02	3/4	2,760.76	3/4	2,403.50
9	9	9	9	9	9	9	4,207.37	9	3,963.64	9	3,707.94	9	3,440.24	9	3,110.58	9	2,753.32	9	2,396.06
1/4		1/4		1/4		1/4	4,202.40	1/4	3,958.43	1/4	3,702.48	1/4	3,434.53	1/4	3,103.13	1/4	2,745.88	1/4	2,388.62
1/2		1/2		1/2		1/2	4,197.43	1/2	3,953.22	1/2	3,697.01	1/2	3,428.82	1/2	3,095.69	1/2	2,738.43	1/2	2,381.17
3/4		3/4		3/4		3/4	4,192.47	3/4	3,948.01	3/4	3,691.55	3/4	3,423.10	3/4	3,088.25	3/4	2,730.99	3/4	2,373.73
10	10	10	10	10	10	10	4,187.50	10	3,942.79	10	3,686.08	10	3,417.39	10	3,080.81	10	2,723.55	10	2,366.29
1/4		1/4		1/4		1/4	4,182.52	1/4	3,937.56	1/4	3,680.60	1/4	3,411.67	1/4	3,073.36	1/4	2,716.10	1/4	2,358.84
1/2		1/2		1/2		1/2	4,177.54	1/2	3,932.32	1/2	3,675.12	1/2	3,405.95	1/2	3,065.92	1/2	2,708.66	1/2	2,351.40
3/4		3/4		3/4		3/4	4,172.55	3/4	3,927.09	3/4	3,669.64	3/4	3,400.23	3/4	3,058.48	3/4	2,701.22	3/4	2,343.96
11	11	11	11	11	11	11	4,167.57	11	3,921.85	11	3,664.15	11	3,394.51	11	3,051.03	11	2,693.77	11	2,336.52
1/4		1/4		1/4		1/4	4,162.56	1/4	3,916.59	1/4	3,658.65	1/4	3,388.79	1/4	3,043.59	1/4	2,686.33	1/4	2,329.07
1/2		1/2		1/2		1/2	4,157.55	1/2	3,911.34	1/2	3,653.14	1/2	3,383.07	1/2	3,036.15	1/2	2,678.89	1/2	2,321.63
3/4		3/4		3/4		3/4	4,152.54	3/4	3,906.09	3/4	3,647.63	3/4	3,377.35	3/4	3,028.71	3/4	2,671.45	3/4	2,314.19

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 51'-03" FORWARD OF AFT BULKHEAD

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



BARGE "KIRBY 29121"

3 STBD
ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-06"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,306.74	0	1,949.48	0	1,592.23	0	1,234.97	0	877.95	0	520.85	0	163.60	0		0		0	
1/4	2,299.30	1/4	1,942.04	1/4	1,584.78	1/4	1,227.52	1/4	870.52	1/4	513.40	1/4	156.15	1/4		1/4		1/4	
1/2	2,291.86	1/2	1,934.60	1/2	1,577.34	1/2	1,220.08	1/2	863.09	1/2	505.96	1/2	148.71	1/2		1/2		1/2	
3/4	2,284.42	3/4	1,927.16	3/4	1,569.90	3/4	1,212.64	3/4	855.66	3/4	498.52	3/4	141.27	3/4		3/4		3/4	
1	2,276.97	1	1,919.71	1	1,562.45	1	1,205.19	1	848.23	1	491.07	1	133.83	1		1		1	
1/4	2,269.53	1/4	1,912.27	1/4	1,555.01	1/4	1,197.75	1/4	840.80	1/4	483.63	1/4	126.38	1/4		1/4		1/4	
1/2	2,262.09	1/2	1,904.83	1/2	1,547.57	1/2	1,190.31	1/2	833.37	1/2	476.19	1/2	118.94	1/2		1/2		1/2	
3/4	2,254.64	3/4	1,897.38	3/4	1,540.13	3/4	1,182.87	3/4	825.94	3/4	468.75	3/4	111.50	3/4		3/4		3/4	
2	2,247.20	2	1,889.94	2	1,532.68	2	1,175.42	2	818.51	2	461.30	2	104.06	2		2		2	
1/4	2,239.76	1/4	1,882.50	1/4	1,525.24	1/4	1,167.98	1/4	811.07	1/4	453.86	1/4	96.93	1/4		1/4		1/4	
1/2	2,232.31	1/2	1,875.06	1/2	1,517.80	1/2	1,160.54	1/2	803.64	1/2	446.42	1/2	89.80	1/2		1/2		1/2	
3/4	2,224.87	3/4	1,867.61	3/4	1,510.35	3/4	1,153.09	3/4	796.21	3/4	438.98	3/4	82.67	3/4		3/4		3/4	
3	2,217.43	3	1,860.17	3	1,502.91	3	1,145.65	3	788.78	3	431.53	3	75.55	3		3		3	
1/4	2,209.99	1/4	1,852.73	1/4	1,495.47	1/4	1,138.21	1/4	781.34	1/4	424.09	1/4	69.36	1/4		1/4		1/4	
1/2	2,202.54	1/2	1,845.28	1/2	1,488.02	1/2	1,130.77	1/2	773.90	1/2	416.65	1/2	63.17	1/2		1/2		1/2	
3/4	2,195.10	3/4	1,837.84	3/4	1,480.58	3/4	1,123.32	3/4	766.45	3/4	409.21	3/4	56.98	3/4		3/4		3/4	
4	2,187.66	4	1,830.40	4	1,473.14	4	1,115.88	4	759.01	4	401.76	4	50.79	4		4		4	
1/4	2,180.21	1/4	1,822.96	1/4	1,465.70	1/4	1,108.44	1/4	751.57	1/4	394.32	1/4	45.86	1/4		1/4		1/4	
1/2	2,172.77	1/2	1,815.51	1/2	1,458.25	1/2	1,100.99	1/2	744.13	1/2	386.88	1/2	40.92	1/2		1/2		1/2	
3/4	2,165.33	3/4	1,808.07	3/4	1,450.81	3/4	1,093.55	3/4	736.68	3/4	379.43	3/4	35.99	3/4		3/4		3/4	
5	2,157.89	5	1,800.63	5	1,443.37	5	1,086.11	5	729.24	5	371.99	5	31.06	5		5		5	
1/4	2,150.44	1/4	1,793.18	1/4	1,435.92	1/4	1,078.67	1/4	721.80	1/4	364.55	1/4	27.39	1/4		1/4		1/4	
1/2	2,143.00	1/2	1,785.74	1/2	1,428.48	1/2	1,071.22	1/2	714.36	1/2	357.11	1/2	23.72	1/2		1/2		1/2	
3/4	2,135.56	3/4	1,778.30	3/4	1,421.04	3/4	1,063.78	3/4	706.91	3/4	349.66	3/4	20.05	3/4		3/4		3/4	
6	2,128.11	6	1,770.86	6	1,413.60	6	1,056.34	6	699.47	6	342.22	6	16.38	6		6		6	
1/4	2,120.67	1/4	1,763.41	1/4	1,406.15	1/4	1,048.89	1/4	692.03	1/4	334.78	1/4		1/4		1/4		1/4	
1/2	2,113.23	1/2	1,755.97	1/2	1,398.71	1/2	1,041.45	1/2	684.58	1/2	327.34	1/2		1/2		1/2		1/2	
3/4	2,105.79	3/4	1,748.53	3/4	1,391.27	3/4	1,034.01	3/4	677.14	3/4	319.89	3/4		3/4		3/4		3/4	
7	2,098.34	7	1,741.08	7	1,383.82	7	1,026.57	7	669.70	7	312.45	7		7		7		7	
1/4	2,090.90	1/4	1,733.64	1/4	1,376.38	1/4	1,019.13	1/4	662.26	1/4	305.01	1/4		1/4		1/4		1/4	
1/2	2,083.46	1/2	1,726.20	1/2	1,368.94	1/2	1,011.70	1/2	654.81	1/2	297.56	1/2		1/2		1/2		1/2	
3/4	2,076.01	3/4	1,718.75	3/4	1,361.50	3/4	1,004.27	3/4	647.37	3/4	290.12	3/4		3/4		3/4		3/4	
8	2,068.57	8	1,711.31	8	1,354.05	8	996.84	8	639.93	8	282.68	8		8		8		8	
1/4	2,061.13	1/4	1,703.87	1/4	1,346.61	1/4	989.41	1/4	632.49	1/4	275.24	1/4		1/4		1/4		1/4	
1/2	2,053.69	1/2	1,696.43	1/2	1,339.17	1/2	981.98	1/2	625.04	1/2	267.79	1/2		1/2		1/2		1/2	
3/4	2,046.24	3/4	1,688.98	3/4	1,331.72	3/4	974.55	3/4	617.60	3/4	260.35	3/4		3/4		3/4		3/4	
9	2,038.80	9	1,681.54	9	1,324.28	9	967.12	9	610.16	9	252.91	9		9		9		9	
1/4	2,031.36	1/4	1,674.10	1/4	1,316.84	1/4	959.69	1/4	602.72	1/4	245.47	1/4		1/4		1/4		1/4	
1/2	2,023.91	1/2	1,666.65	1/2	1,309.40	1/2	952.26	1/2	595.27	1/2	238.02	1/2		1/2		1/2		1/2	
3/4	2,016.47	3/4	1,659.21	3/4	1,301.95	3/4	944.83	3/4	587.83	3/4	230.58	3/4		3/4		3/4		3/4	
10	2,009.03	10	1,651.77	10	1,294.51	10	937.40	10	580.39	10	223.14	10		10		10		10	
1/4	2,001.59	1/4	1,644.33	1/4	1,287.07	1/4	929.97	1/4	572.94	1/4	215.69	1/4		1/4		1/4		1/4	
1/2	1,994.14	1/2	1,636.88	1/2	1,279.62	1/2	922.54	1/2	565.50	1/2	208.25	1/2		1/2		1/2		1/2	
3/4	1,986.70	3/4	1,629.44	3/4	1,272.18	3/4	915.10	3/4	558.06	3/4	200.81	3/4		3/4		3/4		3/4	
11	1,979.26	11	1,622.00	11	1,264.74	11	907.67	11	550.62	11	193.37	11		11		11		11	
1/4	1,971.81	1/4	1,614.55	1/4	1,257.30	1/4	900.24	1/4	543.17	1/4	185.92	1/4		1/4		1/4		1/4	
1/2	1,964.37	1/2	1,607.11	1/2	1,249.85	1/2	892.81	1/2	535.73	1/2	178.48	1/2		1/2		1/2		1/2	
3/4	1,956.93	3/4	1,599.67	3/4	1,242.41	3/4	885.38	3/4	528.29	3/4	171.04	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 10/28/2014 CL
CALCULATED: 10/28/2014 CL
PRINTED: 10/28/2014 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 10/2014

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