



# BARGE "KIRBY 28165"

## ULLAGE TRIM TABLE

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

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

**EXAMPLE FOR ABOVE TRIM CORRECTIONS:**

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

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

LENGTH BETWEEN DRAFT MARKS: 241'-06"

March 29, 2011

**PRECISION MEASUREMENT  
 & ANALYSIS, INC.**  
 P.O. Box 2092  
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# BARGE "KIRBY 28165"

## 1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-08 3/4"

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	4,543.28	0	4,212.92	0	3,858.39	0	3,492.20	0	3,125.96	0	2,759.71		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,536.63	1/4	4,205.74	1/4	3,850.78	1/4	3,484.57	1/4	3,118.33	1/4	2,752.08		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,529.98	1/2	4,198.56	1/2	3,843.17	1/2	3,476.94	1/2	3,110.70	1/2	2,744.45		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,523.33	3/4	4,191.39	3/4	3,835.56	3/4	3,469.31	3/4	3,103.07	3/4	2,736.82		
1	1	1	1	1	1	1	1	1	4,516.64	1	4,184.17	1	3,827.93	1	3,461.68	1	3,095.44	1	2,729.19		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,835.32	1/4	4,509.95	1/4	4,176.96	1/4	3,820.30	1/4	3,454.05	1/4	3,087.81	1/4	2,721.56
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,829.68	1/2	4,503.26	1/2	4,169.75	1/2	3,812.67	1/2	3,446.42	1/2	3,080.18	1/2	2,713.93
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,824.04	3/4	4,496.58	3/4	4,162.53	3/4	3,805.04	3/4	3,438.79	3/4	3,072.55	3/4	2,706.30
2	2	2	2	2	2	2	2	2	4,817.21	2	4,489.85	2	4,155.28	2	3,797.41	2	3,431.16	2	3,064.92	2	2,698.67
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,810.38	1/4	4,483.13	1/4	4,148.03	1/4	3,789.78	1/4	3,423.53	1/4	3,057.29	1/4	2,691.04
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,803.55	1/2	4,476.41	1/2	4,140.78	1/2	3,782.15	1/2	3,415.90	1/2	3,049.66	1/2	2,683.41
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,796.72	3/4	4,469.69	3/4	4,133.53	3/4	3,774.52	3/4	3,408.27	3/4	3,042.03	3/4	2,675.78
3	3	3	3	3	3	3	3	3	4,789.26	3	4,462.94	3	4,126.24	3	3,766.89	3	3,400.64	3	3,034.40	3	2,668.15
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,781.79	1/4	4,456.18	1/4	4,118.95	1/4	3,759.26	1/4	3,393.01	1/4	3,026.77	1/4	2,660.52
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,774.33	1/2	4,449.43	1/2	4,111.66	1/2	3,751.63	1/2	3,385.38	1/2	3,019.14	1/2	2,652.89
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,766.86	3/4	4,442.67	3/4	4,104.37	3/4	3,744.00	3/4	3,377.75	3/4	3,011.51	3/4	2,645.26
4	4	4	4	4	4	4	4	4	4,759.32	4	4,435.88	4	4,097.05	4	3,736.37	4	3,370.12	4	3,003.88	4	2,637.63
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,751.77	1/4	4,429.08	1/4	4,089.72	1/4	3,728.74	1/4	3,362.49	1/4	2,996.25	1/4	2,630.00
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,744.22	1/2	4,422.29	1/2	4,082.40	1/2	3,721.11	1/2	3,354.86	1/2	2,988.62	1/2	2,622.37
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,736.68	3/4	4,415.50	3/4	4,075.08	3/4	3,713.48	3/4	3,347.23	3/4	2,980.99	3/4	2,614.74
5	5	5	5	5	5	5	5	5	4,729.41	5	4,408.67	5	4,067.72	5	3,705.85	5	3,339.60	5	2,973.36	5	2,607.11
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,722.15	1/4	4,401.84	1/4	4,060.36	1/4	3,698.22	1/4	3,331.97	1/4	2,965.73	1/4	2,599.48
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,714.88	1/2	4,395.01	1/2	4,053.01	1/2	3,690.59	1/2	3,324.34	1/2	2,958.10	1/2	2,591.85
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,707.61	3/4	4,388.18	3/4	4,045.65	3/4	3,682.96	3/4	3,316.71	3/4	2,950.47	3/4	2,584.22
6	6	6	6	6	6	6	6	6	4,700.90	6	4,381.31	6	4,038.26	6	3,675.33	6	3,309.08	6	2,942.84	6	2,576.59
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,694.18	1/4	4,374.44	1/4	4,030.87	1/4	3,667.70	1/4	3,301.45	1/4	2,935.21	1/4	2,568.96
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,687.46	1/2	4,367.57	1/2	4,023.47	1/2	3,660.07	1/2	3,293.82	1/2	2,927.58	1/2	2,561.33
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,680.75	3/4	4,360.71	3/4	4,016.08	3/4	3,652.44	3/4	3,286.19	3/4	2,919.95	3/4	2,553.70
7	7	7	7	7	7	7	7	7	4,674.28	7	4,353.80	7	4,008.65	7	3,644.81	7	3,278.56	7	2,912.32	7	2,546.07
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,667.81	1/4	4,346.90	1/4	4,001.22	1/4	3,637.18	1/4	3,270.93	1/4	2,904.69	1/4	2,538.44
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,661.35	1/2	4,339.99	1/2	3,993.79	1/2	3,629.55	1/2	3,263.30	1/2	2,897.06	1/2	2,530.81
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,654.88	3/4	4,333.09	3/4	3,986.37	3/4	3,621.92	3/4	3,255.67	3/4	2,889.43	3/4	2,523.18
8	8	8	8	8	8	8	8	8	4,648.38	8	4,326.12	8	3,978.90	8	3,614.29	8	3,248.04	8	2,881.80	8	2,515.55
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,641.88	1/4	4,319.16	1/4	3,971.43	1/4	3,606.66	1/4	3,240.41	1/4	2,874.17	1/4	2,507.92
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,635.37	1/2	4,312.20	1/2	3,963.97	1/2	3,599.03	1/2	3,232.78	1/2	2,866.54	1/2	2,500.29
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,628.87	3/4	4,305.23	3/4	3,956.50	3/4	3,591.40	3/4	3,225.15	3/4	2,858.91	3/4	2,492.66
9	9	9	9	9	9	9	9	9	4,622.33	9	4,298.19	9	3,948.99	9	3,583.77	9	3,217.52	9	2,851.28	9	2,485.03
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,615.79	1/4	4,291.15	1/4	3,941.49	1/4	3,576.14	1/4	3,209.89	1/4	2,843.65	1/4	2,477.40
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,609.25	1/2	4,284.10	1/2	3,933.99	1/2	3,568.51	1/2	3,202.26	1/2	2,836.02	1/2	2,469.77
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,602.71	3/4	4,277.06	3/4	3,926.48	3/4	3,560.88	3/4	3,194.63	3/4	2,828.39	3/4	2,462.14
10	10	10	10	10	10	10	10	10	4,596.13	10	4,269.96	10	3,918.94	10	3,553.25	10	3,187.00	10	2,820.76	10	2,454.51
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,589.55	1/4	4,262.85	1/4	3,911.40	1/4	3,545.61	1/4	3,179.37	1/4	2,813.13	1/4	2,446.88
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,582.98	1/2	4,255.75	1/2	3,903.86	1/2	3,537.98	1/2	3,171.74	1/2	2,805.50	1/2	2,439.25
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,576.40	3/4	4,248.65	3/4	3,896.32	3/4	3,530.35	3/4	3,164.11	3/4	2,797.87	3/4	2,431.62
11	11	11	11	11	11	11	11	11	4,569.78	11	4,241.51	11	3,888.74	11	3,522.72	11	3,156.48	11	2,790.24	11	2,423.99
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,563.17	1/4	4,234.37	1/4	3,881.16	1/4	3,515.09	1/4	3,148.85	1/4	2,782.60	1/4	2,416.36
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,556.55	1/2	4,227.23	1/2	3,873.58	1/2	3,507.46	1/2	3,141.22	1/2	2,774.97	1/2	2,408.73
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,549.94	3/4	4,220.09	3/4	3,866.00	3/4	3,499.83	3/4	3,133.59	3/4	2,767.34	3/4	2,401.10

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.  
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# BARGE "KIRBY 28165"

## 1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-08 3/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,393.47	0	2,027.23	0	1,660.97	0	1,295.32	0	930.98	0	565.33	0	215.23	0		0			
1/4	2,385.84	1/4	2,019.59	1/4	1,653.34	1/4	1,287.70	1/4	923.41	1/4	557.69	1/4	208.45	1/4		1/4			
1/2	2,378.21	1/2	2,011.96	1/2	1,645.71	1/2	1,280.09	1/2	915.84	1/2	550.06	1/2	201.67	1/2		1/2			
3/4	2,370.58	3/4	2,004.33	3/4	1,638.08	3/4	1,272.47	3/4	908.26	3/4	542.43	3/4	194.88	3/4		3/4			
1	2,362.95	1	1,996.70	1	1,630.45	1	1,264.84	1	900.69	1	534.80	1	188.19	1		1			
1/4	2,355.32	1/4	1,989.07	1/4	1,622.82	1/4	1,257.21	1/4	893.11	1/4	527.17	1/4	181.49	1/4		1/4			
1/2	2,347.69	1/2	1,981.44	1/2	1,615.18	1/2	1,249.58	1/2	885.54	1/2	519.54	1/2	174.79	1/2		1/2			
3/4	2,340.06	3/4	1,973.81	3/4	1,607.55	3/4	1,241.95	3/4	877.96	3/4	511.91	3/4	168.09	3/4		3/4			
2	2,332.43	2	1,966.18	2	1,599.92	2	1,234.31	2	870.37	2	504.30	2	161.48	2		2			
1/4	2,324.80	1/4	1,958.55	1/4	1,592.29	1/4	1,226.68	1/4	862.79	1/4	496.69	1/4	154.87	1/4		1/4			
1/2	2,317.17	1/2	1,950.92	1/2	1,584.66	1/2	1,219.05	1/2	855.20	1/2	489.08	1/2	148.26	1/2		1/2			
3/4	2,309.54	3/4	1,943.29	3/4	1,577.03	3/4	1,211.42	3/4	847.61	3/4	481.47	3/4	141.65	3/4		3/4			
3	2,301.91	3	1,935.66	3	1,569.40	3	1,203.80	3	839.99	3	473.92	3	135.13	3		3			
1/4	2,294.28	1/4	1,928.03	1/4	1,561.77	1/4	1,196.19	1/4	832.38	1/4	466.37	1/4	128.61	1/4		1/4			
1/2	2,286.65	1/2	1,920.40	1/2	1,554.14	1/2	1,188.57	1/2	824.76	1/2	458.83	1/2	122.10	1/2		1/2			
3/4	2,279.02	3/4	1,912.77	3/4	1,546.51	3/4	1,180.96	3/4	817.14	3/4	451.28	3/4	115.58	3/4		3/4			
4	2,271.39	4	1,905.14	4	1,538.88	4	1,173.37	4	809.51	4	443.82	4	109.16	4		4			
1/4	2,263.76	1/4	1,897.51	1/4	1,531.25	1/4	1,165.78	1/4	801.88	1/4	436.36	1/4	102.73	1/4		1/4			
1/2	2,256.13	1/2	1,889.88	1/2	1,523.62	1/2	1,158.19	1/2	794.25	1/2	428.90	1/2	96.31	1/2		1/2			
3/4	2,248.50	3/4	1,882.25	3/4	1,515.99	3/4	1,150.60	3/4	786.62	3/4	421.44	3/4	89.89	3/4		3/4			
5	2,240.87	5	1,874.62	5	1,508.36	5	1,143.02	5	778.99	5	414.06	5	83.57	5		5			
1/4	2,233.24	1/4	1,866.99	1/4	1,500.73	1/4	1,135.45	1/4	771.36	1/4	406.68	1/4	77.26	1/4		1/4			
1/2	2,225.61	1/2	1,859.36	1/2	1,493.10	1/2	1,127.87	1/2	763.73	1/2	399.31	1/2	70.94	1/2		1/2			
3/4	2,217.98	3/4	1,851.73	3/4	1,485.47	3/4	1,120.30	3/4	756.10	3/4	391.93	3/4	64.62	3/4		3/4			
6	2,210.35	6	1,844.10	6	1,477.85	6	1,112.73	6	748.47	6	384.64	6	58.42	6		6			
1/4	2,202.72	1/4	1,836.47	1/4	1,470.23	1/4	1,105.15	1/4	740.84	1/4	377.35	1/4	52.23	1/4		1/4			
1/2	2,195.09	1/2	1,828.84	1/2	1,462.62	1/2	1,097.58	1/2	733.21	1/2	370.05	1/2	46.03	1/2		1/2			
3/4	2,187.46	3/4	1,821.21	3/4	1,455.00	3/4	1,090.01	3/4	725.57	3/4	362.76	3/4	39.83	3/4		3/4			
7	2,179.83	7	1,813.58	7	1,447.40	7	1,082.43	7	717.94	7	355.55	7	34.33	7		7			
1/4	2,172.20	1/4	1,805.94	1/4	1,439.80	1/4	1,074.86	1/4	710.31	1/4	348.35	1/4	28.82	1/4		1/4			
1/2	2,164.57	1/2	1,798.31	1/2	1,432.19	1/2	1,067.29	1/2	702.68	1/2	341.14	1/2	23.32	1/2		1/2			
3/4	2,156.94	3/4	1,790.68	3/4	1,424.59	3/4	1,059.72	3/4	695.05	3/4	333.93	3/4	17.82	3/4		3/4			
8	2,149.31	8	1,783.05	8	1,416.99	8	1,052.14	8	687.42	8	326.81	8	14.26	8		8			
1/4	2,141.68	1/4	1,775.42	1/4	1,409.38	1/4	1,044.57	1/4	679.79	1/4	319.69	1/4	10.70	1/4		1/4			
1/2	2,134.05	1/2	1,767.79	1/2	1,401.78	1/2	1,037.00	1/2	672.16	1/2	312.57	1/2	7.14	1/2		1/2			
3/4	2,126.42	3/4	1,760.16	3/4	1,394.18	3/4	1,029.43	3/4	664.53	3/4	305.45	3/4	3.59	3/4		3/4			
9	2,118.79	9	1,752.53	9	1,386.58	9	1,021.85	9	656.90	9	298.41	9		9		9			
1/4	2,111.16	1/4	1,744.90	1/4	1,378.97	1/4	1,014.28	1/4	649.27	1/4	291.37	1/4		1/4		1/4			
1/2	2,103.53	1/2	1,737.27	1/2	1,371.37	1/2	1,006.71	1/2	641.64	1/2	284.33	1/2		1/2		1/2			
3/4	2,095.90	3/4	1,729.64	3/4	1,363.77	3/4	999.13	3/4	634.00	3/4	277.30	3/4		3/4		3/4			
10	2,088.27	10	1,722.01	10	1,356.16	10	991.56	10	626.37	10	270.34	10		10		10			
1/4	2,080.64	1/4	1,714.38	1/4	1,348.56	1/4	983.99	1/4	618.74	1/4	263.39	1/4		1/4		1/4			
1/2	2,073.01	1/2	1,706.75	1/2	1,340.96	1/2	976.42	1/2	611.11	1/2	256.44	1/2		1/2		1/2			
3/4	2,065.38	3/4	1,699.12	3/4	1,333.35	3/4	968.84	3/4	603.48	3/4	249.49	3/4		3/4		3/4			
11	2,057.75	11	1,691.49	11	1,325.75	11	961.27	11	595.85	11	242.62	11		11		11			
1/4	2,050.12	1/4	1,683.86	1/4	1,318.15	1/4	953.70	1/4	588.22	1/4	235.75	1/4		1/4		1/4			
1/2	2,042.49	1/2	1,676.23	1/2	1,310.54	1/2	946.13	1/2	580.59	1/2	228.88	1/2		1/2		1/2			
3/4	2,034.86	3/4	1,668.60	3/4	1,302.94	3/4	938.55	3/4	572.96	3/4	222.01	3/4		3/4		3/4			

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 03/29/2011 CL - SW  
CALCULATED: 03/29/2011 CL  
PRINTED: 03/29/2011 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 03/2011

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



# BARGE "KIRBY 28165"

## 1 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-08 3/4"

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	4,544.67	0	4,214.30	0	3,859.78	0	3,493.59	0	3,127.35	0	2,761.10
1/4		1/4		1/4		1/4		1/4	4,538.01	1/4	4,207.13	1/4	3,852.17	1/4	3,485.96	1/4	3,119.72	1/4	2,753.47
1/2		1/2		1/2		1/2		1/2	4,531.36	1/2	4,199.95	1/2	3,844.56	1/2	3,478.33	1/2	3,112.09	1/2	2,745.84
3/4		3/4		3/4		3/4		3/4	4,524.71	3/4	4,192.77	3/4	3,836.95	3/4	3,470.70	3/4	3,104.46	3/4	2,738.21
1		1		1		1		1	4,518.02	1	4,185.56	1	3,829.32	1	3,463.07	1	3,096.83	1	2,730.58
1/4		1/4		1/4		1/4		1/4	4,511.33	1/4	4,178.35	1/4	3,821.69	1/4	3,455.44	1/4	3,089.20	1/4	2,722.95
1/2		1/2		1/2		1/2		1/2	4,504.64	1/2	4,171.13	1/2	3,814.06	1/2	3,447.81	1/2	3,081.57	1/2	2,715.32
3/4		3/4		3/4		3/4		3/4	4,825.42	3/4	4,497.96	3/4	4,163.92	3/4	3,806.42	3/4	3,440.18	3/4	3,073.94
2		2		2		2		2	4,818.59	2	4,491.24	2	4,156.67	2	3,798.79	2	3,432.55	2	3,066.31
1/4		1/4		1/4		1/4		1/4	4,811.76	1/4	4,484.52	1/4	4,149.41	1/4	3,791.16	1/4	3,424.92	1/4	3,058.68
1/2		1/2		1/2		1/2		1/2	4,804.93	1/2	4,477.80	1/2	4,142.16	1/2	3,783.53	1/2	3,417.29	1/2	3,051.05
3/4		3/4		3/4		3/4		3/4	4,798.10	3/4	4,471.08	3/4	4,134.91	3/4	3,775.90	3/4	3,409.66	3/4	3,043.41
3		3		3		3		3	4,790.63	3	4,464.32	3	4,127.62	3	3,768.27	3	3,402.03	3	3,035.78
1/4		1/4		1/4		1/4		1/4	4,783.17	1/4	4,457.56	1/4	4,120.33	1/4	3,760.64	1/4	3,394.40	1/4	3,028.15
1/2		1/2		1/2		1/2		1/2	4,775.70	1/2	4,450.81	1/2	4,113.05	1/2	3,753.01	1/2	3,386.77	1/2	3,020.52
3/4		3/4		3/4		3/4		3/4	4,768.24	3/4	4,444.05	3/4	4,105.76	3/4	3,745.38	3/4	3,379.14	3/4	3,012.89
4		4		4		4		4	4,760.69	4	4,437.26	4	4,098.43	4	3,737.75	4	3,371.51	4	3,005.26
1/4		1/4		1/4		1/4		1/4	4,753.15	1/4	4,430.47	1/4	4,091.11	1/4	3,730.12	1/4	3,363.88	1/4	2,997.63
1/2		1/2		1/2		1/2		1/2	4,745.60	1/2	4,423.68	1/2	4,083.79	1/2	3,722.49	1/2	3,356.25	1/2	2,990.00
3/4		3/4		3/4		3/4		3/4	4,738.06	3/4	4,416.88	3/4	4,076.46	3/4	3,714.86	3/4	3,348.62	3/4	2,982.37
5		5		5		5		5	4,730.79	5	4,410.05	5	4,069.11	5	3,707.23	5	3,340.99	5	2,974.74
1/4		1/4		1/4		1/4		1/4	4,723.52	1/4	4,403.22	1/4	4,061.75	1/4	3,699.60	1/4	3,333.36	1/4	2,967.11
1/2		1/2		1/2		1/2		1/2	4,716.26	1/2	4,396.39	1/2	4,054.39	1/2	3,691.97	1/2	3,325.73	1/2	2,959.48
3/4		3/4		3/4		3/4		3/4	4,708.99	3/4	4,389.56	3/4	4,047.04	3/4	3,684.34	3/4	3,318.10	3/4	2,951.85
6		6		6		6		6	4,702.27	6	4,382.69	6	4,039.64	6	3,676.71	6	3,310.47	6	2,944.22
1/4		1/4		1/4		1/4		1/4	4,695.56	1/4	4,375.83	1/4	4,032.25	1/4	3,669.08	1/4	3,302.84	1/4	2,936.59
1/2		1/2		1/2		1/2		1/2	4,688.84	1/2	4,368.96	1/2	4,024.86	1/2	3,661.45	1/2	3,295.21	1/2	2,928.96
3/4		3/4		3/4		3/4		3/4	4,682.12	3/4	4,362.09	3/4	4,017.47	3/4	3,653.82	3/4	3,287.58	3/4	2,921.33
7		7		7		7		7	4,675.66	7	4,355.19	7	4,010.04	7	3,646.19	7	3,279.95	7	2,913.70
1/4		1/4		1/4		1/4		1/4	4,669.19	1/4	4,348.28	1/4	4,002.61	1/4	3,638.56	1/4	3,272.32	1/4	2,906.07
1/2		1/2		1/2		1/2		1/2	4,662.73	1/2	4,341.38	1/2	3,995.18	1/2	3,630.93	1/2	3,264.69	1/2	2,898.44
3/4		3/4		3/4		3/4		3/4	4,656.26	3/4	4,334.47	3/4	3,987.75	3/4	3,623.30	3/4	3,257.06	3/4	2,890.81
8		8		8		8		8	4,649.76	8	4,327.51	8	3,980.29	8	3,615.67	8	3,249.43	8	2,883.18
1/4		1/4		1/4		1/4		1/4	4,643.26	1/4	4,320.54	1/4	3,972.82	1/4	3,608.04	1/4	3,241.80	1/4	2,875.55
1/2		1/2		1/2		1/2		1/2	4,636.75	1/2	4,313.58	1/2	3,965.35	1/2	3,600.41	1/2	3,234.17	1/2	2,867.92
3/4		3/4		3/4		3/4		3/4	4,630.25	3/4	4,306.62	3/4	3,957.89	3/4	3,592.78	3/4	3,226.54	3/4	2,860.29
9		9		9		9		9	4,623.71	9	4,299.57	9	3,950.38	9	3,585.15	9	3,218.91	9	2,852.66
1/4		1/4		1/4		1/4		1/4	4,617.17	1/4	4,292.53	1/4	3,942.88	1/4	3,577.52	1/4	3,211.28	1/4	2,845.03
1/2		1/2		1/2		1/2		1/2	4,610.63	1/2	4,285.49	1/2	3,935.37	1/2	3,569.89	1/2	3,203.65	1/2	2,837.40
3/4		3/4		3/4		3/4		3/4	4,604.09	3/4	4,278.44	3/4	3,927.87	3/4	3,562.26	3/4	3,196.02	3/4	2,829.77
10		10		10		10		10	4,597.51	10	4,271.34	10	3,920.33	10	3,554.63	10	3,188.39	10	2,822.14
1/4		1/4		1/4		1/4		1/4	4,590.93	1/4	4,264.24	1/4	3,912.79	1/4	3,547.00	1/4	3,180.76	1/4	2,814.51
1/2		1/2		1/2		1/2		1/2	4,584.36	1/2	4,257.14	1/2	3,905.25	1/2	3,539.37	1/2	3,173.13	1/2	2,806.88
3/4		3/4		3/4		3/4		3/4	4,577.78	3/4	4,250.04	3/4	3,897.70	3/4	3,531.74	3/4	3,165.50	3/4	2,799.25
11		11		11		11		11	4,571.16	11	4,242.90	11	3,890.13	11	3,524.11	11	3,157.87	11	2,791.62
1/4		1/4		1/4		1/4		1/4	4,564.55	1/4	4,235.76	1/4	3,882.55	1/4	3,516.48	1/4	3,150.24	1/4	2,783.99
1/2		1/2		1/2		1/2		1/2	4,557.93	1/2	4,228.62	1/2	3,874.97	1/2	3,508.85	1/2	3,142.61	1/2	2,776.36
3/4		3/4		3/4		3/4		3/4	4,551.32	3/4	4,221.48	3/4	3,867.39	3/4	3,501.22	3/4	3,134.98	3/4	2,768.73

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 28165"

1 STBD  
ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-08 3/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,394.86	0	2,028.61	0	1,662.35	0	1,296.71	0	931.35	0	565.32	0	215.23	0		0			
1/4	2,387.23	1/4	2,020.98	1/4	1,654.72	1/4	1,289.09	1/4	923.75	1/4	557.69	1/4	208.44	1/4		1/4			
1/2	2,379.60	1/2	2,013.35	1/2	1,647.09	1/2	1,281.47	1/2	916.15	1/2	550.05	1/2	201.66	1/2		1/2			
3/4	2,371.97	3/4	2,005.72	3/4	1,639.46	3/4	1,273.86	3/4	908.54	3/4	542.42	3/4	194.88	3/4		3/4			
1	2,364.34	1	1,998.09	1	1,631.83	1	1,266.23	1	900.94	1	534.79	1	188.18	1		1			
1/4	2,356.71	1/4	1,990.46	1/4	1,624.20	1/4	1,258.60	1/4	893.34	1/4	527.16	1/4	181.48	1/4		1/4			
1/2	2,349.08	1/2	1,982.83	1/2	1,616.57	1/2	1,250.96	1/2	885.73	1/2	519.53	1/2	174.78	1/2		1/2			
3/4	2,341.45	3/4	1,975.20	3/4	1,608.94	3/4	1,243.33	3/4	878.13	3/4	511.90	3/4	168.09	3/4		3/4			
2	2,333.82	2	1,967.57	2	1,601.31	2	1,235.70	2	870.51	2	504.29	2	161.48	2		2			
1/4	2,326.19	1/4	1,959.94	1/4	1,593.68	1/4	1,228.07	1/4	862.89	1/4	496.68	1/4	154.87	1/4		1/4			
1/2	2,318.56	1/2	1,952.31	1/2	1,586.05	1/2	1,220.44	1/2	855.27	1/2	489.07	1/2	148.26	1/2		1/2			
3/4	2,310.93	3/4	1,944.68	3/4	1,578.42	3/4	1,212.81	3/4	847.66	3/4	481.46	3/4	141.65	3/4		3/4			
3	2,303.30	3	1,937.05	3	1,570.79	3	1,205.18	3	840.03	3	473.91	3	135.13	3		3			
1/4	2,295.67	1/4	1,929.42	1/4	1,563.16	1/4	1,197.55	1/4	832.39	1/4	466.37	1/4	128.61	1/4		1/4			
1/2	2,288.04	1/2	1,921.79	1/2	1,555.53	1/2	1,189.92	1/2	824.76	1/2	458.82	1/2	122.09	1/2		1/2			
3/4	2,280.40	3/4	1,914.16	3/4	1,547.90	3/4	1,182.28	3/4	817.13	3/4	451.27	3/4	115.57	3/4		3/4			
4	2,272.77	4	1,906.53	4	1,540.27	4	1,174.67	4	809.50	4	443.81	4	109.15	4		4			
1/4	2,265.14	1/4	1,898.90	1/4	1,532.64	1/4	1,167.05	1/4	801.87	1/4	436.35	1/4	102.73	1/4		1/4			
1/2	2,257.51	1/2	1,891.27	1/2	1,525.01	1/2	1,159.43	1/2	794.24	1/2	428.89	1/2	96.31	1/2		1/2			
3/4	2,249.88	3/4	1,883.64	3/4	1,517.38	3/4	1,151.81	3/4	786.61	3/4	421.43	3/4	89.89	3/4		3/4			
5	2,242.25	5	1,876.00	5	1,509.75	5	1,144.21	5	778.98	5	414.05	5	83.57	5		5			
1/4	2,234.62	1/4	1,868.37	1/4	1,502.12	1/4	1,136.60	1/4	771.35	1/4	406.67	1/4	77.25	1/4		1/4			
1/2	2,226.99	1/2	1,860.74	1/2	1,494.48	1/2	1,129.00	1/2	763.72	1/2	399.30	1/2	70.94	1/2		1/2			
3/4	2,219.36	3/4	1,853.11	3/4	1,486.85	3/4	1,121.40	3/4	756.09	3/4	391.92	3/4	64.62	3/4		3/4			
6	2,211.73	6	1,845.48	6	1,479.24	6	1,113.79	6	748.46	6	384.63	6	58.42	6		6			
1/4	2,204.10	1/4	1,837.85	1/4	1,471.62	1/4	1,106.19	1/4	740.83	1/4	377.34	1/4	52.22	1/4		1/4			
1/2	2,196.47	1/2	1,830.22	1/2	1,464.00	1/2	1,098.59	1/2	733.20	1/2	370.05	1/2	46.02	1/2		1/2			
3/4	2,188.84	3/4	1,822.59	3/4	1,456.39	3/4	1,090.99	3/4	725.56	3/4	362.75	3/4	39.83	3/4		3/4			
7	2,181.21	7	1,814.96	7	1,448.79	7	1,083.39	7	717.93	7	355.55	7	34.32	7		7			
1/4	2,173.58	1/4	1,807.33	1/4	1,441.18	1/4	1,075.78	1/4	710.30	1/4	348.34	1/4	28.82	1/4		1/4			
1/2	2,165.95	1/2	1,799.70	1/2	1,433.58	1/2	1,068.18	1/2	702.67	1/2	341.13	1/2	23.32	1/2		1/2			
3/4	2,158.32	3/4	1,792.07	3/4	1,425.98	3/4	1,060.58	3/4	695.04	3/4	333.93	3/4	17.82	3/4		3/4			
8	2,150.69	8	1,784.44	8	1,418.37	8	1,052.98	8	687.41	8	326.80	8	14.26	8		8			
1/4	2,143.06	1/4	1,776.81	1/4	1,410.77	1/4	1,045.38	1/4	679.78	1/4	319.68	1/4	10.70	1/4		1/4			
1/2	2,135.43	1/2	1,769.18	1/2	1,403.17	1/2	1,037.78	1/2	672.15	1/2	312.56	1/2	7.14	1/2		1/2			
3/4	2,127.80	3/4	1,761.55	3/4	1,395.57	3/4	1,030.17	3/4	664.52	3/4	305.44	3/4	3.59	3/4		3/4			
9	2,120.17	9	1,753.92	9	1,387.96	9	1,022.57	9	656.89	9	298.40	9		9		9			
1/4	2,112.54	1/4	1,746.29	1/4	1,380.36	1/4	1,014.97	1/4	649.26	1/4	291.36	1/4		1/4		1/4			
1/2	2,104.91	1/2	1,738.66	1/2	1,372.76	1/2	1,007.37	1/2	641.63	1/2	284.33	1/2		1/2		1/2			
3/4	2,097.28	3/4	1,731.03	3/4	1,365.15	3/4	999.77	3/4	634.00	3/4	277.29	3/4		3/4		3/4			
10	2,089.65	10	1,723.40	10	1,357.55	10	992.16	10	626.37	10	270.34	10		10		10			
1/4	2,082.02	1/4	1,715.77	1/4	1,349.95	1/4	984.56	1/4	618.73	1/4	263.38	1/4		1/4		1/4			
1/2	2,074.39	1/2	1,708.14	1/2	1,342.34	1/2	976.96	1/2	611.10	1/2	256.43	1/2		1/2		1/2			
3/4	2,066.76	3/4	1,700.51	3/4	1,334.74	3/4	969.36	3/4	603.47	3/4	249.48	3/4		3/4		3/4			
11	2,059.13	11	1,692.88	11	1,327.14	11	961.76	11	595.84	11	242.61	11		11		11			
1/4	2,051.50	1/4	1,685.24	1/4	1,319.53	1/4	954.16	1/4	588.21	1/4	235.74	1/4		1/4		1/4			
1/2	2,043.87	1/2	1,677.61	1/2	1,311.93	1/2	946.55	1/2	580.58	1/2	228.88	1/2		1/2		1/2			
3/4	2,036.24	3/4	1,669.98	3/4	1,304.33	3/4	938.95	3/4	572.95	3/4	222.01	3/4		3/4		3/4			

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 03/29/2011 CL - SW  
CALCULATED: 03/29/2011 CL  
PRINTED: 03/29/2011 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 03/2011

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



# BARGE "KIRBY 28165"

## 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	4,540.98	0	4,211.41	0	3,858.12	0	3,494.48	0	3,130.84	0	2,767.21
1/4		1/4		1/4		1/4		1/4	4,534.34	1/4	4,204.25	1/4	3,850.54	1/4	3,486.91	1/4	3,123.27	1/4	2,759.63
1/2		1/2		1/2		1/2		1/2	4,527.70	1/2	4,197.09	1/2	3,842.97	1/2	3,479.33	1/2	3,115.69	1/2	2,752.05
3/4		3/4		3/4		3/4		3/4	4,845.15	3/4	4,521.06	3/4	4,189.93	3/4	3,835.39	3/4	3,471.76	3/4	3,108.12
1		1		1		1		1	4,839.55	1	4,514.42	1	4,182.76	1	3,827.82	1	3,464.18	1	3,100.54
1/4		1/4		1/4		1/4		1/4	4,832.77	1/4	4,507.75	1/4	4,175.56	1/4	3,820.24	1/4	3,456.60	1/4	3,092.97
1/2		1/2		1/2		1/2		1/2	4,825.99	1/2	4,501.08	1/2	4,168.36	1/2	3,812.67	1/2	3,449.03	1/2	3,085.39
3/4		3/4		3/4		3/4		3/4	4,819.21	3/4	4,494.41	3/4	4,161.16	3/4	3,805.09	3/4	3,441.45	3/4	3,077.81
2		2		2		2		2	4,812.42	2	4,487.73	2	4,153.96	2	3,797.51	2	3,433.88	2	3,070.24
1/4		1/4		1/4		1/4		1/4	4,805.01	1/4	4,481.03	1/4	4,146.73	1/4	3,789.94	1/4	3,426.30	1/4	3,062.66
1/2		1/2		1/2		1/2		1/2	4,797.60	1/2	4,474.32	1/2	4,139.49	1/2	3,782.36	1/2	3,418.72	1/2	3,055.09
3/4		3/4		3/4		3/4		3/4	4,790.19	3/4	4,467.61	3/4	4,132.25	3/4	3,774.79	3/4	3,411.15	3/4	3,047.51
3		3		3		3		3	4,782.77	3	4,460.91	3	4,125.02	3	3,767.21	3	3,403.57	3	3,039.93
1/4		1/4		1/4		1/4		1/4	4,775.28	1/4	4,454.16	1/4	4,117.74	1/4	3,759.64	1/4	3,396.00	1/4	3,032.36
1/2		1/2		1/2		1/2		1/2	4,767.79	1/2	4,447.42	1/2	4,110.47	1/2	3,752.06	1/2	3,388.42	1/2	3,024.78
3/4		3/4		3/4		3/4		3/4	4,760.30	3/4	4,440.67	3/4	4,103.20	3/4	3,744.48	3/4	3,380.85	3/4	3,017.21
4		4		4		4		4	4,752.81	4	4,433.93	4	4,095.93	4	3,736.91	4	3,373.27	4	3,009.63
1/4		1/4		1/4		1/4		1/4	4,745.60	1/4	4,427.15	1/4	4,088.62	1/4	3,729.33	1/4	3,365.69	1/4	3,002.06
1/2		1/2		1/2		1/2		1/2	4,738.38	1/2	4,420.37	1/2	4,081.32	1/2	3,721.76	1/2	3,358.12	1/2	2,994.48
3/4		3/4		3/4		3/4		3/4	4,731.17	3/4	4,413.58	3/4	4,074.02	3/4	3,714.18	3/4	3,350.54	3/4	2,986.90
5		5		5		5		5	4,723.95	5	4,406.80	5	4,066.71	5	3,706.61	5	3,342.97	5	2,979.33
1/4		1/4		1/4		1/4		1/4	4,717.28	1/4	4,399.98	1/4	4,059.37	1/4	3,699.03	1/4	3,335.39	1/4	2,971.75
1/2		1/2		1/2		1/2		1/2	4,710.61	1/2	4,393.17	1/2	4,052.03	1/2	3,691.45	1/2	3,327.82	1/2	2,964.18
3/4		3/4		3/4		3/4		3/4	4,703.95	3/4	4,386.35	3/4	4,044.69	3/4	3,683.88	3/4	3,320.24	3/4	2,956.60
6		6		6		6		6	4,697.28	6	4,379.53	6	4,037.35	6	3,676.30	6	3,312.66	6	2,949.03
1/4		1/4		1/4		1/4		1/4	4,690.86	1/4	4,372.67	1/4	4,029.98	1/4	3,668.73	1/4	3,305.09	1/4	2,941.45
1/2		1/2		1/2		1/2		1/2	4,684.44	1/2	4,365.82	1/2	4,022.60	1/2	3,661.15	1/2	3,297.51	1/2	2,933.87
3/4		3/4		3/4		3/4		3/4	4,678.02	3/4	4,358.96	3/4	4,015.23	3/4	3,653.57	3/4	3,289.94	3/4	2,926.30
7		7		7		7		7	4,671.60	7	4,352.11	7	4,007.85	7	3,646.00	7	3,282.36	7	2,918.72
1/4		1/4		1/4		1/4		1/4	4,665.14	1/4	4,345.19	1/4	4,000.44	1/4	3,638.42	1/4	3,274.78	1/4	2,911.15
1/2		1/2		1/2		1/2		1/2	4,658.69	1/2	4,338.28	1/2	3,993.02	1/2	3,630.85	1/2	3,267.21	1/2	2,903.57
3/4		3/4		3/4		3/4		3/4	4,652.23	3/4	4,331.36	3/4	3,985.61	3/4	3,623.27	3/4	3,259.63	3/4	2,895.99
8		8		8		8		8	4,645.77	8	4,324.45	8	3,978.19	8	3,615.70	8	3,252.06	8	2,888.42
1/4		1/4		1/4		1/4		1/4	4,639.28	1/4	4,317.46	1/4	3,970.74	1/4	3,608.12	1/4	3,244.48	1/4	2,880.84
1/2		1/2		1/2		1/2		1/2	4,632.79	1/2	4,310.46	1/2	3,963.29	1/2	3,600.54	1/2	3,236.91	1/2	2,873.27
3/4		3/4		3/4		3/4		3/4	4,626.29	3/4	4,303.47	3/4	3,955.84	3/4	3,592.97	3/4	3,229.33	3/4	2,865.69
9		9		9		9		9	4,619.80	9	4,296.48	9	3,948.39	9	3,585.39	9	3,221.75	9	2,858.12
1/4		1/4		1/4		1/4		1/4	4,613.27	1/4	4,289.43	1/4	3,940.91	1/4	3,577.82	1/4	3,214.18	1/4	2,850.54
1/2		1/2		1/2		1/2		1/2	4,606.74	1/2	4,282.37	1/2	3,933.42	1/2	3,570.24	1/2	3,206.60	1/2	2,842.96
3/4		3/4		3/4		3/4		3/4	4,600.21	3/4	4,275.32	3/4	3,925.93	3/4	3,562.66	3/4	3,199.03	3/4	2,835.39
10		10		10		10		10	4,593.68	10	4,268.27	10	3,918.44	10	3,555.09	10	3,191.45	10	2,827.81
1/4		1/4		1/4		1/4		1/4	4,587.11	1/4	4,261.18	1/4	3,910.92	1/4	3,547.51	1/4	3,183.87	1/4	2,820.24
1/2		1/2		1/2		1/2		1/2	4,580.54	1/2	4,254.09	1/2	3,903.39	1/2	3,539.94	1/2	3,176.30	1/2	2,812.66
3/4		3/4		3/4		3/4		3/4	4,573.97	3/4	4,247.01	3/4	3,895.87	3/4	3,532.36	3/4	3,168.72	3/4	2,805.08
11		11		11		11		11	4,567.40	11	4,239.92	11	3,888.34	11	3,524.79	11	3,161.15	11	2,797.51
1/4		1/4		1/4		1/4		1/4	4,560.80	1/4	4,232.79	1/4	3,880.79	1/4	3,517.21	1/4	3,153.57	1/4	2,789.93
1/2		1/2		1/2		1/2		1/2	4,554.19	1/2	4,225.67	1/2	3,873.23	1/2	3,509.63	1/2	3,146.00	1/2	2,782.36
3/4		3/4		3/4		3/4		3/4	4,547.59	3/4	4,218.54	3/4	3,865.68	3/4	3,502.06	3/4	3,138.42	3/4	2,774.78

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 28165"

## 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	2,403.57	0	2,039.93	0	1,676.28	0	1,316.51	0	965.25	0	605.96	0	242.27	0		0			
1/4	2,395.99	1/4	2,032.35	1/4	1,668.70	1/4	1,308.93	1/4	958.01	1/4	598.38	1/4	234.69	1/4		1/4			
1/2	2,388.42	1/2	2,024.77	1/2	1,661.12	1/2	1,301.35	1/2	950.76	1/2	590.80	1/2	227.12	1/2		1/2			
3/4	2,380.84	3/4	2,017.20	3/4	1,653.55	3/4	1,293.78	3/4	943.51	3/4	583.23	3/4	219.54	3/4		3/4			
1	2,373.26	1	2,009.62	1	1,645.97	1	1,286.20	1	936.26	1	575.65	1	211.96	1		1			
1/4	2,365.69	1/4	2,002.04	1/4	1,638.40	1/4	1,278.62	1/4	929.00	1/4	568.07	1/4	204.39	1/4		1/4			
1/2	2,358.11	1/2	1,994.47	1/2	1,630.82	1/2	1,271.05	1/2	921.74	1/2	560.50	1/2	196.82	1/2		1/2			
3/4	2,350.54	3/4	1,986.89	3/4	1,623.24	3/4	1,263.47	3/4	914.47	3/4	552.92	3/4	189.24	3/4		3/4			
2	2,342.96	2	1,979.32	2	1,615.67	2	1,255.89	2	907.21	2	545.34	2	181.67	2		2			
1/4	2,335.39	1/4	1,971.74	1/4	1,608.09	1/4	1,248.47	1/4	899.94	1/4	537.77	1/4	174.10	1/4		1/4			
1/2	2,327.81	1/2	1,964.16	1/2	1,600.52	1/2	1,241.04	1/2	892.66	1/2	530.19	1/2	166.53	1/2		1/2			
3/4	2,320.23	3/4	1,956.59	3/4	1,592.94	3/4	1,233.62	3/4	885.39	3/4	522.61	3/4	158.97	3/4		3/4			
3	2,312.66	3	1,949.01	3	1,585.36	3	1,226.19	3	878.11	3	515.04	3	151.40	3		3			
1/4	2,305.08	1/4	1,941.44	1/4	1,577.79	1/4	1,218.93	1/4	870.69	1/4	507.46	1/4	143.84	1/4		1/4			
1/2	2,297.51	1/2	1,933.86	1/2	1,570.21	1/2	1,211.66	1/2	863.26	1/2	499.88	1/2	136.29	1/2		1/2			
3/4	2,289.93	3/4	1,926.28	3/4	1,562.64	3/4	1,204.40	3/4	855.84	3/4	492.31	3/4	128.73	3/4		3/4			
4	2,282.35	4	1,918.71	4	1,555.06	4	1,197.14	4	848.41	4	484.73	4	121.18	4		4			
1/4	2,274.78	1/4	1,911.13	1/4	1,547.57	1/4	1,189.89	1/4	840.83	1/4	477.15	1/4	113.64	1/4		1/4			
1/2	2,267.20	1/2	1,903.56	1/2	1,540.07	1/2	1,182.64	1/2	833.26	1/2	469.57	1/2	106.11	1/2		1/2			
3/4	2,259.63	3/4	1,895.98	3/4	1,532.58	3/4	1,175.39	3/4	825.68	3/4	462.00	3/4	98.57	3/4		3/4			
5	2,252.05	5	1,888.40	5	1,525.08	5	1,168.15	5	818.10	5	454.42	5	91.04	5		5			
1/4	2,244.48	1/4	1,880.83	1/4	1,517.67	1/4	1,160.90	1/4	810.53	1/4	446.84	1/4	83.53	1/4		1/4			
1/2	2,236.90	1/2	1,873.25	1/2	1,510.25	1/2	1,153.65	1/2	802.95	1/2	439.27	1/2	76.03	1/2		1/2			
3/4	2,229.32	3/4	1,865.68	3/4	1,502.84	3/4	1,146.41	3/4	795.37	3/4	431.69	3/4	68.53	3/4		3/4			
6	2,221.75	6	1,858.10	6	1,495.42	6	1,139.16	6	787.80	6	424.11	6	61.03	6		6			
1/4	2,214.17	1/4	1,850.52	1/4	1,488.01	1/4	1,131.91	1/4	780.22	1/4	416.54	1/4	54.13	1/4		1/4			
1/2	2,206.60	1/2	1,842.95	1/2	1,480.60	1/2	1,124.67	1/2	772.65	1/2	408.96	1/2	47.24	1/2		1/2			
3/4	2,199.02	3/4	1,835.37	3/4	1,473.18	3/4	1,117.42	3/4	765.07	3/4	401.38	3/4	40.34	3/4		3/4			
7	2,191.45	7	1,827.80	7	1,465.77	7	1,110.18	7	757.49	7	393.81	7	33.45	7		7			
1/4	2,183.87	1/4	1,820.22	1/4	1,458.35	1/4	1,102.93	1/4	749.92	1/4	386.23	1/4	28.40	1/4		1/4			
1/2	2,176.29	1/2	1,812.64	1/2	1,450.94	1/2	1,095.68	1/2	742.34	1/2	378.65	1/2	23.35	1/2		1/2			
3/4	2,168.72	3/4	1,805.07	3/4	1,443.53	3/4	1,088.44	3/4	734.76	3/4	371.08	3/4	18.30	3/4		3/4			
8	2,161.14	8	1,797.49	8	1,436.11	8	1,081.19	8	727.19	8	363.50	8	13.25	8		8			
1/4	2,153.57	1/4	1,789.92	1/4	1,428.70	1/4	1,073.95	1/4	719.61	1/4	355.92	1/4		1/4		1/4			
1/2	2,145.99	1/2	1,782.34	1/2	1,421.28	1/2	1,066.70	1/2	712.03	1/2	348.35	1/2		1/2		1/2			
3/4	2,138.41	3/4	1,774.76	3/4	1,413.87	3/4	1,059.45	3/4	704.46	3/4	340.77	3/4		3/4		3/4			
9	2,130.84	9	1,767.19	9	1,406.46	9	1,052.21	9	696.88	9	333.19	9		9		9			
1/4	2,123.26	1/4	1,759.61	1/4	1,399.04	1/4	1,044.96	1/4	689.30	1/4	325.62	1/4		1/4		1/4			
1/2	2,115.69	1/2	1,752.04	1/2	1,391.63	1/2	1,037.72	1/2	681.73	1/2	318.04	1/2		1/2		1/2			
3/4	2,108.11	3/4	1,744.46	3/4	1,384.21	3/4	1,030.47	3/4	674.15	3/4	310.46	3/4		3/4		3/4			
10	2,100.54	10	1,736.88	10	1,376.80	10	1,023.22	10	666.57	10	302.89	10		10		10			
1/4	2,092.96	1/4	1,729.31	1/4	1,369.30	1/4	1,015.98	1/4	658.99	1/4	295.31	1/4		1/4		1/4			
1/2	2,085.38	1/2	1,721.73	1/2	1,361.81	1/2	1,008.73	1/2	651.42	1/2	287.73	1/2		1/2		1/2			
3/4	2,077.81	3/4	1,714.16	3/4	1,354.31	3/4	1,001.48	3/4	643.84	3/4	280.15	3/4		3/4		3/4			
11	2,070.23	11	1,706.58	11	1,346.81	11	994.24	11	636.26	11	272.58	11		11		11			
1/4	2,062.66	1/4	1,699.00	1/4	1,339.24	1/4	986.99	1/4	628.69	1/4	265.00	1/4		1/4		1/4			
1/2	2,055.08	1/2	1,691.43	1/2	1,331.66	1/2	979.75	1/2	621.11	1/2	257.42	1/2		1/2		1/2			
3/4	2,047.50	3/4	1,683.85	3/4	1,324.08	3/4	972.50	3/4	613.53	3/4	249.85	3/4		3/4		3/4			

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 03/29/2011 CL - SW  
CALCULATED: 03/29/2011 CL  
PRINTED: 03/29/2011 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 03/2011

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



# BARGE "KIRBY 28165"

## 2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-07 3/4"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.			
IN		IN		IN		IN		IN		IN		IN		IN		IN		IN			
0		0		0		0		0	4,550.02	0	4,219.92	0	3,866.21	0	3,502.58	0	3,138.94	0	2,775.30		
1/4		1/4		1/4		1/4		1/4	4,543.38	1/4	4,212.76	1/4	3,858.64	1/4	3,495.00	1/4	3,131.36	1/4	2,767.73		
1/2		1/2		1/2		1/2		1/2	4,536.74	1/2	4,205.60	1/2	3,851.06	1/2	3,487.43	1/2	3,123.79	1/2	2,760.15		
3/4		3/4		3/4		3/4		3/4	4,855.23	3/4	4,530.10	3/4	4,198.44	3/4	3,843.49	3/4	3,479.85	3/4	3,116.21	3/4	2,752.57
1		1		1		1		1	4,848.45	1	4,523.43	1	4,191.24	1	3,835.91	1	3,472.27	1	3,108.64	1	2,745.00
1/4		1/4		1/4		1/4		1/4	4,841.67	1/4	4,516.76	1/4	4,184.04	1/4	3,828.34	1/4	3,464.70	1/4	3,101.06	1/4	2,737.42
1/2		1/2		1/2		1/2		1/2	4,834.89	1/2	4,510.08	1/2	4,176.84	1/2	3,820.76	1/2	3,457.12	1/2	3,093.48	1/2	2,729.85
3/4		3/4		3/4		3/4		3/4	4,828.11	3/4	4,503.41	3/4	4,169.64	3/4	3,813.19	3/4	3,449.55	3/4	3,085.91	3/4	2,722.27
2		2		2		2		2	4,820.69	2	4,496.70	2	4,162.40	2	3,805.61	2	3,441.97	2	3,078.33	2	2,714.69
1/4		1/4		1/4		1/4		1/4	4,813.28	1/4	4,490.00	1/4	4,155.16	1/4	3,798.03	1/4	3,434.40	1/4	3,070.76	1/4	2,707.12
1/2		1/2		1/2		1/2		1/2	4,805.87	1/2	4,483.29	1/2	4,147.92	1/2	3,790.46	1/2	3,426.82	1/2	3,063.18	1/2	2,699.54
3/4		3/4		3/4		3/4		3/4	4,798.45	3/4	4,476.58	3/4	4,140.69	3/4	3,782.88	3/4	3,419.24	3/4	3,055.61	3/4	2,691.97
3		3		3		3		3	4,790.96	3	4,469.84	3	4,133.42	3	3,775.31	3	3,411.67	3	3,048.03	3	2,684.39
1/4		1/4		1/4		1/4		1/4	4,783.47	1/4	4,463.09	1/4	4,126.14	1/4	3,767.73	1/4	3,404.09	1/4	3,040.45	1/4	2,676.82
1/2		1/2		1/2		1/2		1/2	4,775.98	1/2	4,456.35	1/2	4,118.87	1/2	3,760.16	1/2	3,396.52	1/2	3,032.88	1/2	2,669.24
3/4		3/4		3/4		3/4		3/4	4,768.49	3/4	4,449.60	3/4	4,111.60	3/4	3,752.58	3/4	3,388.94	3/4	3,025.30	3/4	2,661.66
4		4		4		4		4	4,761.28	4	4,442.82	4	4,104.30	4	3,745.00	4	3,381.37	4	3,017.73	4	2,654.09
1/4		1/4		1/4		1/4		1/4	4,754.06	1/4	4,436.04	1/4	4,096.99	1/4	3,737.43	1/4	3,373.79	1/4	3,010.15	1/4	2,646.51
1/2		1/2		1/2		1/2		1/2	4,746.85	1/2	4,429.26	1/2	4,089.69	1/2	3,729.85	1/2	3,366.21	1/2	3,002.58	1/2	2,638.94
3/4		3/4		3/4		3/4		3/4	4,739.63	3/4	4,422.48	3/4	4,082.38	3/4	3,722.28	3/4	3,358.64	3/4	2,995.00	3/4	2,631.36
5		5		5		5		5	4,732.96	5	4,415.66	5	4,075.04	5	3,714.70	5	3,351.06	5	2,987.42	5	2,623.79
1/4		1/4		1/4		1/4		1/4	4,726.30	1/4	4,408.84	1/4	4,067.70	1/4	3,707.12	1/4	3,343.49	1/4	2,979.85	1/4	2,616.21
1/2		1/2		1/2		1/2		1/2	4,719.63	1/2	4,402.02	1/2	4,060.37	1/2	3,699.55	1/2	3,335.91	1/2	2,972.27	1/2	2,608.63
3/4		3/4		3/4		3/4		3/4	4,712.96	3/4	4,395.20	3/4	4,053.03	3/4	3,691.97	3/4	3,328.33	3/4	2,964.70	3/4	2,601.06
6		6		6		6		6	4,706.54	6	4,388.35	6	4,045.65	6	3,684.40	6	3,320.76	6	2,957.12	6	2,593.48
1/4		1/4		1/4		1/4		1/4	4,700.12	1/4	4,381.49	1/4	4,038.27	1/4	3,676.82	1/4	3,313.18	1/4	2,949.54	1/4	2,585.91
1/2		1/2		1/2		1/2		1/2	4,693.70	1/2	4,374.64	1/2	4,030.90	1/2	3,669.25	1/2	3,305.61	1/2	2,941.97	1/2	2,578.33
3/4		3/4		3/4		3/4		3/4	4,687.28	3/4	4,367.78	3/4	4,023.52	3/4	3,661.67	3/4	3,298.03	3/4	2,934.39	3/4	2,570.75
7		7		7		7		7	4,680.82	7	4,360.87	7	4,016.11	7	3,654.09	7	3,290.46	7	2,926.82	7	2,563.18
1/4		1/4		1/4		1/4		1/4	4,674.37	1/4	4,353.95	1/4	4,008.69	1/4	3,646.52	1/4	3,282.88	1/4	2,919.24	1/4	2,555.60
1/2		1/2		1/2		1/2		1/2	4,667.91	1/2	4,347.04	1/2	4,001.28	1/2	3,638.94	1/2	3,275.30	1/2	2,911.67	1/2	2,548.03
3/4		3/4		3/4		3/4		3/4	4,661.45	3/4	4,340.12	3/4	3,993.87	3/4	3,631.37	3/4	3,267.73	3/4	2,904.09	3/4	2,540.45
8		8		8		8		8	4,654.96	8	4,333.13	8	3,986.42	8	3,623.79	8	3,260.15	8	2,896.51	8	2,532.88
1/4		1/4		1/4		1/4		1/4	4,648.46	1/4	4,326.14	1/4	3,978.97	1/4	3,616.22	1/4	3,252.58	1/4	2,888.94	1/4	2,525.30
1/2		1/2		1/2		1/2		1/2	4,641.97	1/2	4,319.14	1/2	3,971.51	1/2	3,608.64	1/2	3,245.00	1/2	2,881.36	1/2	2,517.72
3/4		3/4		3/4		3/4		3/4	4,635.48	3/4	4,312.15	3/4	3,964.06	3/4	3,601.06	3/4	3,237.43	3/4	2,873.79	3/4	2,510.15
9		9		9		9		9	4,628.95	9	4,305.10	9	3,956.58	9	3,593.49	9	3,229.85	9	2,866.21	9	2,502.57
1/4		1/4		1/4		1/4		1/4	4,622.41	1/4	4,298.05	1/4	3,949.09	1/4	3,585.91	1/4	3,222.27	1/4	2,858.64	1/4	2,495.00
1/2		1/2		1/2		1/2		1/2	4,615.88	1/2	4,291.00	1/2	3,941.60	1/2	3,578.34	1/2	3,214.70	1/2	2,851.06	1/2	2,487.42
3/4		3/4		3/4		3/4		3/4	4,609.35	3/4	4,283.94	3/4	3,934.11	3/4	3,570.76	3/4	3,207.12	3/4	2,843.48	3/4	2,479.85
10		10		10		10		10	4,602.78	10	4,276.86	10	3,926.59	10	3,563.18	10	3,199.55	10	2,835.91	10	2,472.27
1/4		1/4		1/4		1/4		1/4	4,596.22	1/4	4,269.77	1/4	3,919.06	1/4	3,555.61	1/4	3,191.97	1/4	2,828.33	1/4	2,464.69
1/2		1/2		1/2		1/2		1/2	4,589.65	1/2	4,262.68	1/2	3,911.54	1/2	3,548.03	1/2	3,184.39	1/2	2,820.76	1/2	2,457.12
3/4		3/4		3/4		3/4		3/4	4,583.08	3/4	4,255.59	3/4	3,904.01	3/4	3,540.46	3/4	3,176.82	3/4	2,813.18	3/4	2,449.54
11		11		11		11		11	4,576.48	11	4,248.46	11	3,896.46	11	3,532.88	11	3,169.24	11	2,805.60	11	2,441.97
1/4		1/4		1/4		1/4		1/4	4,569.87	1/4	4,241.34	1/4	3,888.90	1/4	3,525.31	1/4	3,161.67	1/4	2,798.03	1/4	2,434.39
1/2		1/2		1/2		1/2		1/2	4,563.27	1/2	4,234.21	1/2	3,881.35	1/2	3,517.73	1/2	3,154.09	1/2	2,790.45	1/2	2,426.81
3/4		3/4		3/4		3/4		3/4	4,556.66	3/4	4,227.09	3/4	3,873.79	3/4	3,510.15	3/4	3,146.52	3/4	2,782.88	3/4	2,419.24

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 28165"

2 STBD  
ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-07 3/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,411.66	0	2,048.02	0	1,684.37	0	1,324.60	0	961.92	0	598.38	0	234.69	0	0	0	0	0	0
1/4	2,404.09	1/4	2,040.45	1/4	1,676.80	1/4	1,317.02	1/4	954.37	1/4	590.80	1/4	227.12	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,396.51	1/2	2,032.87	1/2	1,669.22	1/2	1,309.45	1/2	946.82	1/2	583.23	1/2	219.54	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,388.94	3/4	2,025.30	3/4	1,661.65	3/4	1,301.87	3/4	939.28	3/4	575.65	3/4	211.96	3/4	3/4	3/4	3/4	3/4	3/4
1	2,381.36	1	2,017.72	1	1,654.07	1	1,294.29	1	931.71	1	568.07	1	204.39	1	1	1	1	1	1
1/4	2,373.78	1/4	2,010.15	1/4	1,646.49	1/4	1,286.72	1/4	924.15	1/4	560.50	1/4	196.82	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,366.21	1/2	2,002.57	1/2	1,638.92	1/2	1,279.14	1/2	916.58	1/2	552.92	1/2	189.24	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,358.63	3/4	1,994.99	3/4	1,631.34	3/4	1,271.56	3/4	909.02	3/4	545.34	3/4	181.67	3/4	3/4	3/4	3/4	3/4	3/4
2	2,351.06	2	1,987.42	2	1,623.76	2	1,263.99	2	901.44	2	537.77	2	174.10	2	2	2	2	2	2
1/4	2,343.48	1/4	1,979.84	1/4	1,616.19	1/4	1,256.41	1/4	893.87	1/4	530.19	1/4	166.53	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,335.90	1/2	1,972.27	1/2	1,608.61	1/2	1,248.83	1/2	886.29	1/2	522.61	1/2	158.97	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,328.33	3/4	1,964.69	3/4	1,601.04	3/4	1,241.26	3/4	878.71	3/4	515.04	3/4	151.40	3/4	3/4	3/4	3/4	3/4	3/4
3	2,320.75	3	1,957.11	3	1,593.46	3	1,233.69	3	871.14	3	507.46	3	143.84	3	3	3	3	3	3
1/4	2,313.18	1/4	1,949.54	1/4	1,585.88	1/4	1,226.13	1/4	863.56	1/4	499.88	1/4	136.29	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,305.60	1/2	1,941.96	1/2	1,578.31	1/2	1,218.57	1/2	855.98	1/2	492.30	1/2	128.73	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,298.03	3/4	1,934.38	3/4	1,570.73	3/4	1,211.00	3/4	848.41	3/4	484.73	3/4	121.18	3/4	3/4	3/4	3/4	3/4	3/4
4	2,290.45	4	1,926.81	4	1,563.24	4	1,203.45	4	840.83	4	477.15	4	113.64	4	4	4	4	4	4
1/4	2,282.87	1/4	1,919.23	1/4	1,555.74	1/4	1,195.90	1/4	833.26	1/4	469.57	1/4	106.11	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,275.30	1/2	1,911.66	1/2	1,548.25	1/2	1,188.35	1/2	825.68	1/2	462.00	1/2	98.57	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,267.72	3/4	1,904.08	3/4	1,540.75	3/4	1,180.81	3/4	818.10	3/4	454.42	3/4	91.04	3/4	3/4	3/4	3/4	3/4	3/4
5	2,260.15	5	1,896.50	5	1,533.34	5	1,173.26	5	810.53	5	446.84	5	83.53	5	5	5	5	5	5
1/4	2,252.57	1/4	1,888.93	1/4	1,525.92	1/4	1,165.71	1/4	802.95	1/4	439.27	1/4	76.03	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,245.00	1/2	1,881.35	1/2	1,518.51	1/2	1,158.16	1/2	795.37	1/2	431.69	1/2	68.53	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,237.42	3/4	1,873.78	3/4	1,511.10	3/4	1,150.62	3/4	787.80	3/4	424.11	3/4	61.03	3/4	3/4	3/4	3/4	3/4	3/4
6	2,229.84	6	1,866.20	6	1,503.68	6	1,143.07	6	780.22	6	416.54	6	54.13	6	6	6	6	6	6
1/4	2,222.27	1/4	1,858.62	1/4	1,496.27	1/4	1,135.52	1/4	772.64	1/4	408.96	1/4	47.24	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,214.69	1/2	1,851.05	1/2	1,488.85	1/2	1,127.97	1/2	765.07	1/2	401.38	1/2	40.34	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,207.12	3/4	1,843.47	3/4	1,481.44	3/4	1,120.43	3/4	757.49	3/4	393.81	3/4	33.45	3/4	3/4	3/4	3/4	3/4	3/4
7	2,199.54	7	1,835.90	7	1,474.03	7	1,112.88	7	749.92	7	386.23	7	28.40	7	7	7	7	7	7
1/4	2,191.96	1/4	1,828.32	1/4	1,466.61	1/4	1,105.33	1/4	742.34	1/4	378.65	1/4	23.35	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,184.39	1/2	1,820.74	1/2	1,459.20	1/2	1,097.78	1/2	734.76	1/2	371.08	1/2	18.30	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,176.81	3/4	1,813.17	3/4	1,451.78	3/4	1,090.23	3/4	727.19	3/4	363.50	3/4	13.25	3/4	3/4	3/4	3/4	3/4	3/4
8	2,169.24	8	1,805.59	8	1,444.37	8	1,082.69	8	719.61	8	355.92	8	0	8	8	8	8	8	8
1/4	2,161.66	1/4	1,798.02	1/4	1,436.96	1/4	1,075.14	1/4	712.03	1/4	348.35	1/4	0	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,154.09	1/2	1,790.44	1/2	1,429.54	1/2	1,067.59	1/2	704.46	1/2	340.77	1/2	0	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,146.51	3/4	1,782.86	3/4	1,422.13	3/4	1,060.04	3/4	696.88	3/4	333.19	3/4	0	3/4	3/4	3/4	3/4	3/4	3/4
9	2,138.93	9	1,775.29	9	1,414.71	9	1,052.50	9	689.30	9	325.62	9	0	9	9	9	9	9	9
1/4	2,131.36	1/4	1,767.71	1/4	1,407.30	1/4	1,044.95	1/4	681.73	1/4	318.04	1/4	0	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,123.78	1/2	1,760.13	1/2	1,399.88	1/2	1,037.40	1/2	674.15	1/2	310.46	1/2	0	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,116.21	3/4	1,752.56	3/4	1,392.47	3/4	1,029.85	3/4	666.57	3/4	302.88	3/4	0	3/4	3/4	3/4	3/4	3/4	3/4
10	2,108.63	10	1,744.98	10	1,384.97	10	1,022.31	10	658.99	10	295.31	10	0	10	10	10	10	10	10
1/4	2,101.05	1/4	1,737.41	1/4	1,377.48	1/4	1,014.76	1/4	651.42	1/4	287.73	1/4	0	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,093.48	1/2	1,729.83	1/2	1,369.98	1/2	1,007.21	1/2	643.84	1/2	280.15	1/2	0	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,085.90	3/4	1,722.25	3/4	1,362.48	3/4	999.66	3/4	636.26	3/4	272.58	3/4	0	3/4	3/4	3/4	3/4	3/4	3/4
11	2,078.33	11	1,714.68	11	1,354.91	11	992.12	11	628.69	11	265.00	11	0	11	11	11	11	11	11
1/4	2,070.75	1/4	1,707.10	1/4	1,347.33	1/4	984.57	1/4	621.11	1/4	257.42	1/4	0	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,063.18	1/2	1,699.53	1/2	1,339.75	1/2	977.02	1/2	613.53	1/2	249.85	1/2	0	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,055.60	3/4	1,691.95	3/4	1,332.18	3/4	969.47	3/4	605.96	3/4	242.27	3/4	0	3/4	3/4	3/4	3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 03/29/2011 CL - SW  
CALCULATED: 03/29/2011 CL  
PRINTED: 03/29/2011 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 03/2011

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





# BARGE "KIRBY 28165"

## 3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-05 3/4"

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	4,209.76	0	3,949.05	0	3,674.43	0	3,393.61	0	3,032.28	0	2,668.82
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,459.27	1/4	4,204.47	1/4	3,943.44	1/4	3,668.60	1/4	3,386.90	1/4	3,024.71
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,454.54	1/2	4,199.18	1/2	3,937.83	1/2	3,662.77	1/2	3,380.18	1/2	3,017.14
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,449.81	3/4	4,193.89	3/4	3,932.22	3/4	3,656.94	3/4	3,373.47	3/4	3,009.57
1	1	1	1	1	1	1	1	1	4,444.78	1	4,188.58	1	3,926.58	1	3,651.11	1	3,365.88	1	3,001.99
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,439.74	1/4	4,183.28	1/4	3,920.95	1/4	3,645.28	1/4	3,358.29	1/4	2,994.42
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,434.70	1/2	4,177.97	1/2	3,915.32	1/2	3,639.45	1/2	3,350.70	1/2	2,986.85
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,429.67	3/4	4,172.66	3/4	3,909.69	3/4	3,633.61	3/4	3,343.10	3/4	2,979.28
2	2	2	2	2	2	2	2	2	4,424.00	2	4,167.33	2	3,904.04	2	3,627.78	2	3,335.51	2	2,971.70
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,418.33	1/4	4,162.01	1/4	3,898.39	1/4	3,621.95	1/4	3,327.92	1/4	2,964.13
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,412.66	1/2	4,156.68	1/2	3,892.74	1/2	3,616.12	1/2	3,320.33	1/2	2,956.56
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,406.99	3/4	4,151.35	3/4	3,887.09	3/4	3,610.29	3/4	3,312.74	3/4	2,948.99
3	3	3	3	3	3	3	3	3	4,401.24	3	4,146.01	3	3,881.42	3	3,604.45	3	3,305.14	3	2,941.42
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,395.49	1/4	4,140.66	1/4	3,875.75	1/4	3,598.62	1/4	3,297.55	1/4	2,933.84
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,389.75	1/2	4,135.31	1/2	3,870.09	1/2	3,592.79	1/2	3,289.96	1/2	2,926.27
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,384.00	3/4	4,129.97	3/4	3,864.42	3/4	3,586.96	3/4	3,282.37	3/4	2,918.70
4	4	4	4	4	4	4	4	4	4,378.40	4	4,124.60	4	3,858.73	4	3,581.12	4	3,274.77	4	2,911.13
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,372.80	1/4	4,119.23	1/4	3,853.04	1/4	3,575.29	1/4	3,267.18	1/4	2,903.56
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,367.20	1/2	4,113.87	1/2	3,847.36	1/2	3,569.46	1/2	3,259.59	1/2	2,895.98
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,361.60	3/4	4,108.50	3/4	3,841.67	3/4	3,563.63	3/4	3,252.00	3/4	2,888.41
5	5	5	5	5	5	5	5	5	4,356.30	5	4,103.12	5	3,835.97	5	3,557.79	5	3,244.41	5	2,880.84
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,350.99	1/4	4,097.73	1/4	3,830.26	1/4	3,551.96	1/4	3,236.81	1/4	2,873.27
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,345.68	1/2	4,092.34	1/2	3,824.56	1/2	3,546.13	1/2	3,229.22	1/2	2,865.70
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,340.38	3/4	4,086.96	3/4	3,818.85	3/4	3,540.30	3/4	3,221.63	3/4	2,858.12
6	6	6	6	6	6	6	6	6	4,335.21	6	4,081.55	6	3,813.13	6	3,534.47	6	3,214.05	6	2,850.55
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,330.03	1/4	4,076.14	1/4	3,807.40	1/4	3,528.63	1/4	3,206.46	1/4	2,842.98
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,324.86	1/2	4,070.74	1/2	3,801.67	1/2	3,522.80	1/2	3,198.88	1/2	2,835.41
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,319.69	3/4	4,065.33	3/4	3,795.95	3/4	3,516.97	3/4	3,191.30	3/4	2,827.83
7	7	7	7	7	7	7	7	7	4,314.50	7	4,059.88	7	3,790.20	7	3,511.14	7	3,183.72	7	2,820.26
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,309.31	1/4	4,054.44	1/4	3,784.46	1/4	3,505.30	1/4	3,176.15	1/4	2,812.69
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,304.11	1/2	4,048.99	1/2	3,778.71	1/2	3,499.47	1/2	3,168.58	1/2	2,805.12
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,298.92	3/4	4,043.54	3/4	3,772.97	3/4	3,493.64	3/4	3,161.01	3/4	2,797.55
8	8	8	8	8	8	8	8	8	4,293.71	8	4,038.03	8	3,767.20	8	3,487.81	8	3,153.43	8	2,789.97
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,288.50	1/4	4,032.52	1/4	3,761.44	1/4	3,481.97	1/4	3,145.86	1/4	2,782.40
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,283.29	1/2	4,027.01	1/2	3,755.67	1/2	3,476.14	1/2	3,138.29	1/2	2,774.83
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,278.08	3/4	4,021.50	3/4	3,749.91	3/4	3,470.31	3/4	3,130.72	3/4	2,767.26
9	9	9	9	9	9	9	9	9	4,272.84	9	4,015.95	9	3,744.12	9	3,464.48	9	3,123.15	9	2,759.69
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,267.61	1/4	4,010.40	1/4	3,738.34	1/4	3,458.65	1/4	3,115.57	1/4	2,752.11
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,262.38	1/2	4,004.85	1/2	3,732.56	1/2	3,452.81	1/2	3,108.00	1/2	2,744.54
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,257.15	3/4	3,999.30	3/4	3,726.77	3/4	3,446.98	3/4	3,100.43	3/4	2,736.97
10	10	10	10	10	10	10	10	10	4,251.90	10	3,993.73	10	3,720.97	10	3,441.15	10	3,092.86	10	2,729.40
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,246.64	1/4	3,988.16	1/4	3,715.16	1/4	3,435.32	1/4	3,085.29	1/4	2,721.83
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,241.39	1/2	3,982.59	1/2	3,709.36	1/2	3,429.48	1/2	3,077.71	1/2	2,714.25
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,236.14	3/4	3,977.02	3/4	3,703.55	3/4	3,423.65	3/4	3,070.14	3/4	2,706.68
11	11	11	11	11	11	11	11	11	4,230.87	11	3,971.43	11	3,697.73	11	3,417.82	11	3,062.57	11	2,699.11
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,225.60	1/4	3,965.84	1/4	3,691.91	1/4	3,411.99	1/4	3,055.00	1/4	2,691.54
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,220.33	1/2	3,960.25	1/2	3,686.09	1/2	3,406.15	1/2	3,047.43	1/2	2,683.96
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,215.05	3/4	3,954.66	3/4	3,680.26	3/4	3,400.32	3/4	3,039.85	3/4	2,676.39

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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

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



# BARGE "KIRBY 28165"

## 3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-05 3/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,305.36	0	1,941.90	0	1,578.50	0	1,219.56	0	865.20	0	508.65	0	144.50	0		0			
1/4	2,297.79	1/4	1,934.33	1/4	1,570.95	1/4	1,212.00	1/4	857.84	1/4	501.06	1/4	137.22	1/4		1/4			
1/2	2,290.22	1/2	1,926.75	1/2	1,563.40	1/2	1,204.44	1/2	850.49	1/2	493.47	1/2	129.95	1/2		1/2			
3/4	2,282.64	3/4	1,919.18	3/4	1,555.85	3/4	1,196.89	3/4	843.13	3/4	485.87	3/4	122.67	3/4		3/4			
1	2,275.07	1	1,911.61	1	1,548.30	1	1,189.33	1	835.76	1	478.28	1	116.34	1		1			
1/4	2,267.50	1/4	1,904.04	1/4	1,540.75	1/4	1,181.77	1/4	828.39	1/4	470.69	1/4	110.02	1/4		1/4			
1/2	2,259.93	1/2	1,896.46	1/2	1,533.20	1/2	1,174.21	1/2	821.02	1/2	463.09	1/2	103.69	1/2		1/2			
3/4	2,252.36	3/4	1,888.89	3/4	1,525.65	3/4	1,166.66	3/4	813.65	3/4	455.50	3/4	97.36	3/4		3/4			
2	2,244.78	2	1,881.32	2	1,518.11	2	1,159.21	2	806.27	2	447.91	2	92.31	2		2			
1/4	2,237.21	1/4	1,873.75	1/4	1,510.56	1/4	1,151.75	1/4	798.89	1/4	440.31	1/4	87.25	1/4		1/4			
1/2	2,229.64	1/2	1,866.17	1/2	1,503.01	1/2	1,144.30	1/2	791.51	1/2	432.72	1/2	82.20	1/2		1/2			
3/4	2,222.07	3/4	1,858.60	3/4	1,495.46	3/4	1,136.85	3/4	784.12	3/4	425.13	3/4	77.14	3/4		3/4			
3	2,214.49	3	1,851.03	3	1,487.91	3	1,129.51	3	776.74	3	417.53	3	73.36	3		3			
1/4	2,206.92	1/4	1,843.46	1/4	1,480.36	1/4	1,122.16	1/4	769.36	1/4	409.94	1/4	69.58	1/4		1/4			
1/2	2,199.35	1/2	1,835.88	1/2	1,472.81	1/2	1,114.82	1/2	761.98	1/2	402.35	1/2	65.80	1/2		1/2			
3/4	2,191.78	3/4	1,828.31	3/4	1,465.26	3/4	1,107.48	3/4	754.59	3/4	394.76	3/4	62.03	3/4		3/4			
4	2,184.21	4	1,820.74	4	1,457.80	4	1,100.14	4	747.21	4	387.16	4	59.53	4		4			
1/4	2,176.63	1/4	1,813.17	1/4	1,450.33	1/4	1,092.80	1/4	739.83	1/4	379.57	1/4	57.04	1/4		1/4			
1/2	2,169.06	1/2	1,805.60	1/2	1,442.86	1/2	1,085.47	1/2	732.45	1/2	371.98	1/2	54.54	1/2		1/2			
3/4	2,161.49	3/4	1,798.02	3/4	1,435.39	3/4	1,078.13	3/4	725.06	3/4	364.38	3/4	52.04	3/4		3/4			
5	2,153.92	5	1,790.45	5	1,427.99	5	1,070.79	5	717.68	5	356.79	5	50.85	5		5			
1/4	2,146.35	1/4	1,782.88	1/4	1,420.59	1/4	1,063.46	1/4	710.30	1/4	349.20	1/4	49.65	1/4		1/4			
1/2	2,138.77	1/2	1,775.31	1/2	1,413.19	1/2	1,056.12	1/2	702.92	1/2	341.60	1/2	48.45	1/2		1/2			
3/4	2,131.20	3/4	1,767.73	3/4	1,405.80	3/4	1,048.79	3/4	695.53	3/4	334.01	3/4	47.25	3/4		3/4			
6	2,123.63	6	1,760.16	6	1,398.38	6	1,041.45	6	688.15	6	326.42	6		6		6			
1/4	2,116.06	1/4	1,752.59	1/4	1,390.97	1/4	1,034.12	1/4	680.77	1/4	318.82	1/4		1/4		1/4			
1/2	2,108.49	1/2	1,745.02	1/2	1,383.56	1/2	1,026.78	1/2	673.39	1/2	311.23	1/2		1/2		1/2			
3/4	2,100.91	3/4	1,737.44	3/4	1,376.15	3/4	1,019.45	3/4	666.00	3/4	303.64	3/4		3/4		3/4			
7	2,093.34	7	1,729.87	7	1,368.74	7	1,012.11	7	658.62	7	296.05	7		7		7			
1/4	2,085.77	1/4	1,722.30	1/4	1,361.33	1/4	1,004.77	1/4	651.24	1/4	288.45	1/4		1/4		1/4			
1/2	2,078.20	1/2	1,714.73	1/2	1,353.92	1/2	997.44	1/2	643.86	1/2	280.86	1/2		1/2		1/2			
3/4	2,070.62	3/4	1,707.16	3/4	1,346.51	3/4	990.10	3/4	636.47	3/4	273.27	3/4		3/4		3/4			
8	2,063.05	8	1,699.58	8	1,339.09	8	982.77	8	629.09	8	265.67	8		8		8			
1/4	2,055.48	1/4	1,692.01	1/4	1,331.68	1/4	975.43	1/4	621.71	1/4	258.08	1/4		1/4		1/4			
1/2	2,047.91	1/2	1,684.44	1/2	1,324.27	1/2	968.10	1/2	614.33	1/2	250.49	1/2		1/2		1/2			
3/4	2,040.34	3/4	1,676.87	3/4	1,316.86	3/4	960.76	3/4	606.94	3/4	242.89	3/4		3/4		3/4			
9	2,032.76	9	1,669.29	9	1,309.46	9	953.42	9	599.46	9	235.30	9		9		9			
1/4	2,025.19	1/4	1,661.72	1/4	1,302.05	1/4	946.07	1/4	591.97	1/4	227.71	1/4		1/4		1/4			
1/2	2,017.62	1/2	1,654.15	1/2	1,294.65	1/2	938.73	1/2	584.48	1/2	220.11	1/2		1/2		1/2			
3/4	2,010.05	3/4	1,646.58	3/4	1,287.25	3/4	931.38	3/4	576.99	3/4	212.52	3/4		3/4		3/4			
10	2,002.48	10	1,639.00	10	1,279.77	10	924.03	10	569.40	10	204.93	10		10		10			
1/4	1,994.90	1/4	1,631.43	1/4	1,272.29	1/4	916.68	1/4	561.80	1/4	197.33	1/4		1/4		1/4			
1/2	1,987.33	1/2	1,623.86	1/2	1,264.82	1/2	909.32	1/2	554.21	1/2	189.74	1/2		1/2		1/2			
3/4	1,979.76	3/4	1,616.29	3/4	1,257.34	3/4	901.97	3/4	546.62	3/4	182.15	3/4		3/4		3/4			
11	1,972.19	11	1,608.73	11	1,249.79	11	894.62	11	539.02	11	174.56	11		11		11			
1/4	1,964.62	1/4	1,601.17	1/4	1,242.23	1/4	887.26	1/4	531.43	1/4	166.96	1/4		1/4		1/4			
1/2	1,957.04	1/2	1,593.61	1/2	1,234.67	1/2	879.91	1/2	523.84	1/2	159.37	1/2		1/2		1/2			
3/4	1,949.47	3/4	1,586.04	3/4	1,227.11	3/4	872.56	3/4	516.25	3/4	151.78	3/4		3/4		3/4			

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 03/29/2011 CL - SW  
CALCULATED: 03/29/2011 CL  
PRINTED: 03/29/2011 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 03/2011

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



# BARGE "KIRBY 28165"

## 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	4,491.60	0	4,237.92	0	3,977.53	0	3,703.14	0	3,423.19	0	3,062.28	0	2,697.86
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,486.87	1/4	4,232.63	1/4	3,971.92	1/4	3,697.30	1/4	3,416.48	1/4	3,054.69	1/4	2,690.27
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,482.14	1/2	4,227.34	1/2	3,966.31	1/2	3,691.47	1/2	3,409.76	1/2	3,047.10	1/2	2,682.68
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,477.41	3/4	4,222.05	3/4	3,960.70	3/4	3,685.64	3/4	3,403.05	3/4	3,039.51	3/4	2,675.09
1	1	1	1	1	1	1	4,472.68	1	4,216.76	1	3,955.09	1	3,679.81	1	3,396.34	1	3,031.91	1	2,667.49
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,467.65	1/4	4,211.45	1/4	3,949.46	1/4	3,673.98	1/4	3,388.74	1/4	3,024.32	1/4	2,659.90
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,462.61	1/2	4,206.15	1/2	3,943.83	1/2	3,668.15	1/2	3,381.15	1/2	3,016.73	1/2	2,652.31
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,457.57	3/4	4,200.84	3/4	3,938.19	3/4	3,662.32	3/4	3,373.56	3/4	3,009.14	3/4	2,644.72
2	2	2	2	2	2	2	4,452.54	2	4,195.53	2	3,932.56	2	3,656.49	2	3,365.97	2	3,001.55	2	2,637.13
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,446.87	1/4	4,190.20	1/4	3,926.91	1/4	3,650.65	1/4	3,358.37	1/4	2,993.95	1/4	2,629.53
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,441.20	1/2	4,184.88	1/2	3,921.26	1/2	3,644.82	1/2	3,350.78	1/2	2,986.36	1/2	2,621.94
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,435.53	3/4	4,179.55	3/4	3,915.61	3/4	3,638.99	3/4	3,343.19	3/4	2,978.77	3/4	2,614.35
3	3	3	3	3	3	3	4,429.86	3	4,174.22	3	3,909.96	3	3,633.16	3	3,335.60	3	2,971.18	3	2,606.76
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,424.11	1/4	4,168.88	1/4	3,904.29	1/4	3,627.32	1/4	3,328.01	1/4	2,963.59	1/4	2,599.16
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,418.36	1/2	4,163.53	1/2	3,898.63	1/2	3,621.49	1/2	3,320.41	1/2	2,955.99	1/2	2,591.57
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,412.62	3/4	4,158.19	3/4	3,892.96	3/4	3,615.66	3/4	3,312.82	3/4	2,948.40	3/4	2,583.98
4	4	4	4	4	4	4	4,406.87	4	4,152.84	4	3,887.29	4	3,609.83	4	3,305.23	4	2,940.81	4	2,576.39
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,401.27	1/4	4,147.47	1/4	3,881.60	1/4	3,603.99	1/4	3,297.64	1/4	2,933.22	1/4	2,568.80
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,395.67	1/2	4,142.11	1/2	3,875.91	1/2	3,598.16	1/2	3,290.05	1/2	2,925.62	1/2	2,561.20
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,390.07	3/4	4,136.74	3/4	3,870.23	3/4	3,592.33	3/4	3,282.45	3/4	2,918.03	3/4	2,553.61
5	5	5	5	5	5	5	4,384.47	5	4,131.37	5	3,864.54	5	3,586.50	5	3,274.86	5	2,910.44	5	2,546.02
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,379.17	1/4	4,125.99	1/4	3,858.84	1/4	3,580.67	1/4	3,267.27	1/4	2,902.85	1/4	2,538.43
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,373.86	1/2	4,120.60	1/2	3,853.13	1/2	3,574.83	1/2	3,259.68	1/2	2,895.26	1/2	2,530.84
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,368.56	3/4	4,115.21	3/4	3,847.43	3/4	3,569.00	3/4	3,252.09	3/4	2,887.66	3/4	2,523.24
6	6	6	6	6	6	6	4,363.25	6	4,109.83	6	3,841.72	6	3,563.17	6	3,244.49	6	2,880.07	6	2,515.65
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,358.08	1/4	4,104.42	1/4	3,836.00	1/4	3,557.34	1/4	3,236.90	1/4	2,872.48	1/4	2,508.06
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,352.91	1/2	4,099.01	1/2	3,830.27	1/2	3,551.50	1/2	3,229.31	1/2	2,864.89	1/2	2,500.47
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,347.73	3/4	4,093.61	3/4	3,824.55	3/4	3,545.67	3/4	3,221.72	3/4	2,857.30	3/4	2,492.88
7	7	7	7	7	7	7	4,342.56	7	4,088.20	7	3,818.82	7	3,539.84	7	3,214.12	7	2,849.70	7	2,485.28
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,337.37	1/4	4,082.75	1/4	3,813.08	1/4	3,534.01	1/4	3,206.53	1/4	2,842.11	1/4	2,477.69
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,332.18	1/2	4,077.31	1/2	3,807.33	1/2	3,528.17	1/2	3,198.94	1/2	2,834.52	1/2	2,470.10
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,326.99	3/4	4,071.86	3/4	3,801.59	3/4	3,522.34	3/4	3,191.35	3/4	2,826.93	3/4	2,462.51
8	8	8	8	8	8	8	4,321.79	8	4,066.41	8	3,795.84	8	3,516.51	8	3,183.76	8	2,819.34	8	2,454.91
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,316.58	1/4	4,060.90	1/4	3,790.08	1/4	3,510.68	1/4	3,176.16	1/4	2,811.74	1/4	2,447.32
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,311.37	1/2	4,055.39	1/2	3,784.31	1/2	3,504.85	1/2	3,168.57	1/2	2,804.15	1/2	2,439.73
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,306.16	3/4	4,049.88	3/4	3,778.55	3/4	3,499.01	3/4	3,160.98	3/4	2,796.56	3/4	2,432.14
9	9	9	9	9	9	9	4,300.95	9	4,044.37	9	3,772.78	9	3,493.18	9	3,153.39	9	2,788.97	9	2,424.55
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,295.71	1/4	4,038.82	1/4	3,767.00	1/4	3,487.35	1/4	3,145.80	1/4	2,781.37	1/4	2,416.95
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,290.48	1/2	4,033.27	1/2	3,761.21	1/2	3,481.52	1/2	3,138.20	1/2	2,773.78	1/2	2,409.36
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,285.25	3/4	4,027.72	3/4	3,755.43	3/4	3,475.68	3/4	3,130.61	3/4	2,766.19	3/4	2,401.77
10	10	10	10	10	10	10	4,280.02	10	4,022.17	10	3,749.64	10	3,469.85	10	3,123.02	10	2,758.60	10	2,394.18
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,274.77	1/4	4,016.60	1/4	3,743.84	1/4	3,464.02	1/4	3,115.43	1/4	2,751.01	1/4	2,386.59
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,269.52	1/2	4,011.03	1/2	3,738.03	1/2	3,458.19	1/2	3,107.84	1/2	2,743.41	1/2	2,378.99
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,264.26	3/4	4,005.46	3/4	3,732.23	3/4	3,452.35	3/4	3,100.24	3/4	2,735.82	3/4	2,371.40
11	11	11	11	11	11	11	4,259.01	11	3,999.89	11	3,726.42	11	3,446.52	11	3,092.65	11	2,728.23	11	2,363.81
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,253.74	1/4	3,994.30	1/4	3,720.60	1/4	3,440.69	1/4	3,085.06	1/4	2,720.64	1/4	2,356.22
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,248.47	1/2	3,988.71	1/2	3,714.78	1/2	3,434.86	1/2	3,077.47	1/2	2,713.05	1/2	2,348.63
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,243.20	3/4	3,983.12	3/4	3,708.96	3/4	3,429.03	3/4	3,069.87	3/4	2,705.45	3/4	2,341.03

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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

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



# BARGE "KIRBY 28165"

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	2,333.44	0	1,969.02	0	1,604.59	0	1,244.03	0	880.54	0	516.25	0	151.78	0		0			
1/4	2,325.85	1/4	1,961.43	1/4	1,596.99	1/4	1,236.44	1/4	872.98	1/4	508.65	1/4	144.50	1/4		1/4			1/4
1/2	2,318.26	1/2	1,953.83	1/2	1,589.40	1/2	1,228.85	1/2	865.41	1/2	501.06	1/2	137.22	1/2		1/2			1/2
3/4	2,310.66	3/4	1,946.24	3/4	1,581.81	3/4	1,221.25	3/4	857.85	3/4	493.47	3/4	129.95	3/4		3/4			3/4
1	2,303.07	1	1,938.65	1	1,574.22	1	1,213.66	1	850.28	1	485.87	1	122.67	1		1			1
1/4	2,295.48	1/4	1,931.05	1/4	1,566.62	1/4	1,206.07	1/4	842.70	1/4	478.28	1/4	116.34	1/4		1/4			1/4
1/2	2,287.89	1/2	1,923.46	1/2	1,559.03	1/2	1,198.47	1/2	835.12	1/2	470.69	1/2	110.02	1/2		1/2			1/2
3/4	2,280.30	3/4	1,915.87	3/4	1,551.44	3/4	1,190.88	3/4	827.54	3/4	463.09	3/4	103.69	3/4		3/4			3/4
2	2,272.70	2	1,908.28	2	1,543.85	2	1,183.29	2	819.96	2	455.50	2	97.36	2		2			2
1/4	2,265.11	1/4	1,900.69	1/4	1,536.25	1/4	1,175.69	1/4	812.37	1/4	447.91	1/4	92.31	1/4		1/4			1/4
1/2	2,257.52	1/2	1,893.09	1/2	1,528.66	1/2	1,168.10	1/2	804.77	1/2	440.31	1/2	87.25	1/2		1/2			1/2
3/4	2,249.93	3/4	1,885.50	3/4	1,521.07	3/4	1,160.51	3/4	797.18	3/4	432.72	3/4	82.20	3/4		3/4			3/4
3	2,242.34	3	1,877.91	3	1,513.48	3	1,152.92	3	789.59	3	425.13	3	77.14	3		3			3
1/4	2,234.74	1/4	1,870.32	1/4	1,505.89	1/4	1,145.34	1/4	782.00	1/4	417.53	1/4	73.36	1/4		1/4			1/4
1/2	2,227.15	1/2	1,862.72	1/2	1,498.29	1/2	1,137.75	1/2	774.40	1/2	409.94	1/2	69.58	1/2		1/2			1/2
3/4	2,219.56	3/4	1,855.13	3/4	1,490.70	3/4	1,130.17	3/4	766.81	3/4	402.35	3/4	65.80	3/4		3/4			3/4
4	2,211.97	4	1,847.54	4	1,483.11	4	1,122.59	4	759.22	4	394.76	4	62.03	4		4			4
1/4	2,204.38	1/4	1,839.95	1/4	1,475.60	1/4	1,115.03	1/4	751.63	1/4	387.16	1/4	59.53	1/4		1/4			1/4
1/2	2,196.78	1/2	1,832.35	1/2	1,468.09	1/2	1,107.46	1/2	744.03	1/2	379.57	1/2	57.04	1/2		1/2			1/2
3/4	2,189.19	3/4	1,824.76	3/4	1,460.57	3/4	1,099.90	3/4	736.44	3/4	371.98	3/4	54.54	3/4		3/4			3/4
5	2,181.60	5	1,817.17	5	1,453.06	5	1,092.33	5	728.85	5	364.38	5	52.04	5		5			5
1/4	2,174.01	1/4	1,809.58	1/4	1,445.63	1/4	1,084.77	1/4	721.25	1/4	356.79	1/4	50.85	1/4		1/4			1/4
1/2	2,166.41	1/2	1,801.99	1/2	1,438.20	1/2	1,077.20	1/2	713.66	1/2	349.20	1/2	49.65	1/2		1/2			1/2
3/4	2,158.82	3/4	1,794.39	3/4	1,430.77	3/4	1,069.64	3/4	706.07	3/4	341.60	3/4	48.45	3/4		3/4			3/4
6	2,151.23	6	1,786.80	6	1,423.34	6	1,062.08	6	698.48	6	334.01	6	47.25	6		6			6
1/4	2,143.64	1/4	1,779.21	1/4	1,415.91	1/4	1,054.51	1/4	690.88	1/4	326.42	1/4		1/4		1/4			1/4
1/2	2,136.05	1/2	1,771.62	1/2	1,408.48	1/2	1,046.95	1/2	683.29	1/2	318.82	1/2		1/2		1/2			1/2
3/4	2,128.45	3/4	1,764.02	3/4	1,401.05	3/4	1,039.38	3/4	675.70	3/4	311.23	3/4		3/4		3/4			3/4
7	2,120.86	7	1,756.43	7	1,393.62	7	1,031.82	7	668.11	7	303.64	7		7		7			7
1/4	2,113.27	1/4	1,748.84	1/4	1,386.19	1/4	1,024.26	1/4	660.51	1/4	296.05	1/4		1/4		1/4			1/4
1/2	2,105.68	1/2	1,741.25	1/2	1,378.76	1/2	1,016.69	1/2	652.92	1/2	288.45	1/2		1/2		1/2			1/2
3/4	2,098.09	3/4	1,733.65	3/4	1,371.33	3/4	1,009.13	3/4	645.33	3/4	280.86	3/4		3/4		3/4			3/4
8	2,090.49	8	1,726.06	8	1,363.90	8	1,001.57	8	637.74	8	273.27	8		8		8			8
1/4	2,082.90	1/4	1,718.47	1/4	1,356.47	1/4	994.00	1/4	630.14	1/4	265.67	1/4		1/4		1/4			1/4
1/2	2,075.31	1/2	1,710.88	1/2	1,349.04	1/2	986.44	1/2	622.55	1/2	258.08	1/2		1/2		1/2			1/2
3/4	2,067.72	3/4	1,703.29	3/4	1,341.61	3/4	978.87	3/4	614.96	3/4	250.49	3/4		3/4		3/4			3/4
9	2,060.13	9	1,695.69	9	1,334.18	9	971.31	9	607.36	9	242.89	9		9		9			9
1/4	2,052.53	1/4	1,688.10	1/4	1,326.74	1/4	963.75	1/4	599.77	1/4	235.30	1/4		1/4		1/4			1/4
1/2	2,044.94	1/2	1,680.51	1/2	1,319.31	1/2	956.18	1/2	592.18	1/2	227.71	1/2		1/2		1/2			1/2
3/4	2,037.35	3/4	1,672.92	3/4	1,311.88	3/4	948.62	3/4	584.58	3/4	220.11	3/4		3/4		3/4			3/4
10	2,029.76	10	1,665.32	10	1,304.45	10	941.05	10	576.99	10	212.52	10		10		10			10
1/4	2,022.16	1/4	1,657.73	1/4	1,296.94	1/4	933.49	1/4	569.40	1/4	204.93	1/4		1/4		1/4			1/4
1/2	2,014.57	1/2	1,650.14	1/2	1,289.43	1/2	925.93	1/2	561.80	1/2	197.33	1/2		1/2		1/2			1/2
3/4	2,006.98	3/4	1,642.55	3/4	1,281.92	3/4	918.36	3/4	554.21	3/4	189.74	3/4		3/4		3/4			3/4
11	1,999.39	11	1,634.95	11	1,274.40	11	910.80	11	546.62	11	182.15	11		11		11			11
1/4	1,991.80	1/4	1,627.36	1/4	1,266.81	1/4	903.24	1/4	539.02	1/4	174.56	1/4		1/4		1/4			1/4
1/2	1,984.20	1/2	1,619.77	1/2	1,259.22	1/2	895.67	1/2	531.43	1/2	166.96	1/2		1/2		1/2			1/2
3/4	1,976.61	3/4	1,612.18	3/4	1,251.62	3/4	888.11	3/4	523.84	3/4	159.37	3/4		3/4		3/4			3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 03/29/2011 CL - SW  
CALCULATED: 03/29/2011 CL  
PRINTED: 03/29/2011 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 03/2011

PRECISION MEASUREMENT  
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