



KIRBY 28061



Barge Strapping Tables





BARGE "KIRBY 28061"

ULLAGE TRIM TABLE

	1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.	
	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>
1 PORT	00-1/2	- 00-1/2	01-0/8	- 01-0/8	01-1/2	- 01-1/2	02-0/8	- 02-0/8	02-1/2	- 02-1/2	03-0/8	- 03-0/8
1 STBD	00-1/2	- 00-1/2	01-0/8	- 01-0/8	01-1/2	- 01-1/2	02-0/8	- 02-0/8	02-1/2	- 02-1/2	03-0/8	- 03-0/8
2 PORT	00-1/2	- 00-1/2	01-0/8	- 01-0/8	01-1/2	- 01-1/2	01-7/8	- 01-7/8	02-1/2	- 02-1/2	02-7/8	- 02-7/8
2 STBD	00-1/2	- 00-1/2	01-0/8	- 01-0/8	01-1/2	- 01-1/2	01-7/8	- 01-7/8	02-1/2	- 02-1/2	02-7/8	- 02-7/8
3 PORT	00-1/2	- 00-1/2	01-0/8	- 01-0/8	01-1/2	- 01-1/2	02-0/8	- 02-0/8	02-1/2	- 02-1/2	02-7/8	- 02-7/8
3 STBD	00-1/2	- 00-1/2	01-0/8	- 01-0/8	01-1/2	- 01-1/2	02-0/8	- 02-0/8	02-1/2	- 02-1/2	02-7/8	- 02-7/8

(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 - 01-0/8"
 FOR A MEASURED ULLAGE GAUGE OF 4'-00" ON 1 PORT, THE TRIM CORRECTED ULLAGE IS 3'-11 0/8"

LENGTH BETWEEN DRAFT MARKS: 241'-03"

April 1, 2004

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

<http://www.pmacorp.net>



BARGE "KIRBY 28061"

1 PORT ULLAGE TABLE

GAUGE HEIGHT 16'-07 1/2"

CAPACITIES GIVEN IN WHOLE BARRELS OF 42 U.S. GALLONS

0 FT.	1 FT.	2 FT.	3 FT.	4 FT.	5 FT.	6 FT.	7 FT.	8 FT.	9 FT.
0	0	0	4,509.82	4,176.84	3,820.19	3,453.96	3,087.72	2,721.49	
1/4	1/4	1/4	4,503.13	4,169.82	3,812.56	3,446.33	3,080.09	2,713.86	
1/2	1/2	1/2	4,496.44	4,162.41	3,804.93	3,438.70	3,072.46	2,706.23	
3/4	3/4	3/4	4,489.72	4,155.16	3,797.30	3,431.07	3,064.83	2,698.60	
1	1	1	4,483.00	4,147.91	3,789.67	3,423.44	3,057.20	2,690.97	
1/4	1/4	1/4	4,476.28	4,140.65	3,782.04	3,415.81	3,049.57	2,683.34	
1/2	1/2	1/2	4,469.56	4,133.40	3,774.41	3,408.18	3,041.94	2,675.71	
3/4	3/4	3/4	4,462.81	4,126.11	3,766.78	3,400.55	3,034.31	2,668.08	
1	1	1	4,456.05	4,118.83	3,759.15	3,392.92	3,026.68	2,660.45	
1/4	1/4	1/4	4,449.29	4,111.54	3,751.52	3,385.29	3,019.05	2,652.82	
1/2	1/2	1/2	4,442.54	4,104.25	3,743.89	3,377.66	3,011.42	2,645.19	
3/4	3/4	3/4	4,435.75	4,096.93	3,736.26	3,370.03	3,003.79	2,637.56	
1	1	1	4,428.95	4,089.60	3,728.63	3,362.40	2,996.16	2,629.93	
1/4	1/4	1/4	4,422.16	4,082.28	3,721.00	3,354.77	2,988.53	2,622.30	
1/2	1/2	1/2	4,415.37	4,074.95	3,713.37	3,347.14	2,980.90	2,614.67	
3/4	3/4	3/4	4,408.54	4,067.60	3,705.74	3,339.51	2,973.27	2,607.04	
1	1	1	4,401.71	4,060.24	3,698.11	3,331.88	2,965.64	2,599.41	
1/4	1/4	1/4	4,394.88	4,052.89	3,690.48	3,324.25	2,958.01	2,591.78	
1/2	1/2	1/2	4,388.05	4,045.53	3,682.85	3,316.62	2,950.38	2,584.15	
3/4	3/4	3/4	4,381.18	4,038.14	3,675.22	3,308.99	2,942.75	2,576.52	
1	1	1	4,374.31	4,030.75	3,667.59	3,301.36	2,935.12	2,568.89	
1/4	1/4	1/4	4,367.45	4,023.35	3,659.96	3,293.73	2,927.49	2,561.26	
1/2	1/2	1/2	4,360.58	4,015.96	3,652.33	3,286.10	2,919.86	2,553.63	
3/4	3/4	3/4	4,353.67	4,008.53	3,644.70	3,278.47	2,912.23	2,546.00	
1	1	1	4,346.76	4,001.10	3,637.07	3,270.84	2,904.60	2,538.37	
1/4	1/4	1/4	4,339.86	3,993.68	3,629.44	3,263.21	2,896.97	2,530.74	
1/2	1/2	1/2	4,332.96	3,986.25	3,621.81	3,255.58	2,889.34	2,523.11	
3/4	3/4	3/4	4,325.99	3,978.78	3,614.18	3,247.95	2,881.71	2,515.48	
1	1	1	4,319.03	3,971.31	3,606.55	3,240.32	2,874.08	2,507.85	
1/4	1/4	1/4	4,312.07	3,963.85	3,598.92	3,232.69	2,866.45	2,500.22	
1/2	1/2	1/2	4,305.10	3,956.38	3,591.29	3,225.06	2,858.82	2,492.59	
3/4	3/4	3/4	4,298.06	3,948.88	3,583.66	3,217.43	2,851.19	2,484.96	
1	1	1	4,291.02	3,941.37	3,576.03	3,209.80	2,843.56	2,477.33	
1/4	1/4	1/4	4,283.97	3,933.87	3,568.40	3,202.17	2,835.93	2,469.70	
1/2	1/2	1/2	4,276.93	3,926.37	3,560.78	3,194.54	2,828.30	2,462.07	
3/4	3/4	3/4	4,269.83	3,918.83	3,553.15	3,186.91	2,820.67	2,454.44	
1	1	1	4,262.73	3,911.28	3,545.52	3,179.28	2,813.04	2,446.81	
1/4	1/4	1/4	4,255.63	3,903.74	3,537.89	3,171.65	2,805.41	2,439.18	
1/2	1/2	1/2	4,248.53	3,896.20	3,530.26	3,164.02	2,797.79	2,431.55	
3/4	3/4	3/4	4,241.39	3,888.62	3,522.63	3,156.39	2,790.16	2,423.92	
1	1	1	4,234.25	3,881.06	3,515.00	3,148.76	2,782.53	2,416.29	
1/4	1/4	1/4	4,227.11	3,873.47	3,507.37	3,141.13	2,774.90	2,408.66	
1/2	1/2	1/2	4,219.97	3,865.89	3,499.74	3,133.50	2,767.27	2,401.03	
3/4	3/4	3/4	4,212.79	3,858.28	3,492.11	3,125.87	2,759.64	2,393.40	
1	1	1	4,205.62	3,850.67	3,484.48	3,118.24	2,752.01	2,385.77	
1/4	1/4	1/4	4,198.44	3,843.06	3,476.85	3,110.61	2,744.38	2,378.14	
1/2	1/2	1/2	4,191.26	3,835.45	3,469.22	3,102.98	2,736.75	2,370.51	
3/4	3/4	3/4	4,184.05	3,827.82	3,461.59	3,095.35	2,729.12	2,362.88	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH API MPM'S 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 OBSERVED WITH "HERMETIC" CLOSED GAUGING DEVICE.
GAUGE POINT: (HERMETIC) LOCATED 12'-08" OFF CENTERLINE AND 81"-00" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
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BARGE "KIRBY 28061"

1 PORT ULLAGE TABLE

GAUGE HEIGHT 16'-07 1/2"
18 FT. 19 FT.

CAPACITIES GIVEN IN WHOLE BARRELS OF 42 U.S. GALLONS

	10 FT.	11 FT.	12 FT.	13 FT.	14 FT.	15 FT.	16 FT.	17 FT.	18 FT.	19 FT.
0	0	0	0	0	0	0	0	0	0	0
1/4	2,365.25	1,989.02	1,622.77	1,267.17	893.09	527.15	181.48			
1/2	2,347.62	1,981.39	1,615.14	1,249.54	885.51	519.52	174.79			
3/4	2,339.99	1,973.76	1,607.51	1,241.91	877.94	511.89	168.09			
1	2,332.36	1,966.13	1,599.88	1,234.28	870.36	504.28	161.48			
1 1/4	2,324.73	1,958.50	1,592.25	1,226.65	862.76	496.67	154.87			
1 1/2	2,317.10	1,950.87	1,584.62	1,219.02	855.17	489.06	148.26			
1 3/4	2,309.47	1,943.24	1,576.99	1,211.39	847.58	481.45	141.65			
2	2,301.84	1,935.61	1,569.36	1,203.77	839.97	473.81	135.13			
2 1/4	2,294.21	1,927.98	1,561.73	1,196.15	832.35	466.36	128.61			
2 1/2	2,286.58	1,920.35	1,554.10	1,188.54	824.73	458.81	122.09			
2 3/4	2,278.95	1,912.72	1,546.47	1,180.92	817.12	451.27	115.57			
3	2,271.32	1,905.08	1,538.84	1,173.33	809.49	443.61	109.15			
3 1/4	2,263.69	1,897.45	1,531.21	1,165.74	801.86	436.35	102.73			
3 1/2	2,256.06	1,889.82	1,523.57	1,158.15	794.23	428.88	96.31			
3 3/4	2,248.43	1,882.19	1,515.94	1,150.56	786.60	421.42	89.89			
4	2,240.80	1,874.56	1,508.31	1,142.99	778.97	414.05	83.57			
4 1/4	2,233.17	1,866.93	1,500.68	1,135.41	771.33	406.67	77.26			
4 1/2	2,225.54	1,859.30	1,493.05	1,127.84	763.70	399.29	70.94			
4 3/4	2,217.91	1,851.67	1,485.42	1,120.27	756.07	391.92	64.62			
5	2,210.28	1,844.04	1,477.81	1,112.69	748.44	384.53	58.42			
5 1/4	2,202.65	1,836.41	1,470.19	1,105.12	740.81	377.33	52.22			
5 1/2	2,195.02	1,828.78	1,462.57	1,097.55	733.18	370.04	46.03			
5 3/4	2,187.39	1,821.15	1,454.96	1,089.98	725.55	362.75	39.83			
6	2,179.76	1,813.52	1,447.36	1,082.40	717.92	355.54	34.33			
6 1/4	2,172.13	1,805.89	1,439.75	1,074.83	710.29	348.34	28.82			
6 1/2	2,164.50	1,798.26	1,432.15	1,067.26	702.66	341.13	23.32			
6 3/4	2,156.87	1,790.63	1,424.55	1,059.69	695.03	333.92	17.82			
7	2,149.24	1,783.00	1,416.95	1,052.11	687.40	326.80	14.26			
7 1/4	2,141.61	1,775.37	1,409.34	1,044.54	679.77	319.68	10.70			
7 1/2	2,133.98	1,767.74	1,401.74	1,036.97	672.14	312.56	7.14			
7 3/4	2,126.35	1,760.11	1,394.14	1,029.40	664.51	305.44	3.59			
8	2,118.72	1,752.48	1,386.53	1,021.82	656.88	298.40				
8 1/4	2,111.09	1,744.85	1,378.93	1,014.25	649.25	291.36				
8 1/2	2,103.46	1,737.22	1,371.33	1,006.68	641.62	284.32				
8 3/4	2,095.83	1,729.59	1,363.73	999.11	633.99	277.29				
9	2,088.20	1,721.96	1,356.12	991.53	626.35	270.34				
9 1/4	2,080.57	1,714.33	1,348.52	983.96	618.72	263.38				
9 1/2	2,072.94	1,706.70	1,340.92	976.39	611.09	256.43				
9 3/4	2,065.31	1,699.07	1,333.31	968.82	603.46	249.48				
10	2,057.68	1,691.44	1,325.71	961.24	595.83	242.61				
10 1/4	2,050.05	1,683.81	1,318.11	953.67	588.20	235.74				
10 1/2	2,042.42	1,676.18	1,310.50	946.10	580.57	228.86				
10 3/4	2,034.80	1,668.55	1,302.90	938.53	572.94	222.01				
11	2,027.17	1,660.92	1,295.28	930.96	565.31	216.23				
11 1/4	2,019.54	1,653.29	1,287.67	923.38	557.68	210.44				
11 1/2	2,011.91	1,645.66	1,280.05	915.81	550.05	204.66				
11 3/4	2,004.28	1,638.03	1,272.43	908.24	542.42	198.88				
12	1,996.65	1,630.40	1,264.80	900.66	534.78	193.16				

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 04/31/2004 CL - BW
CALCULATED: 04/01/2004 CL
PRINTED: 04/30/2004 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 04/2004

PRECISION MEASUREMENT
& ANALYSIS, INC.
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BARGE "KIRBY 28061"

2 STBD ULLAGE TABLE

GAUGE HEIGHT 16'-07 1/2"

CAPACITIES GIVEN IN WHOLE BARRELS OF 42 U.S. GALLONS

	10 FT.	11 FT.	12 FT.	13 FT.	14 FT.	15 FT.	16 FT.	17 FT.	18 FT.	19 FT.
N	0	0	0	0	0	0	0	0	0	0
1/4	2,406.59	2,042.57	1,678.54	1,318.40	955.37	591.42	227.35			
1/2	2,399.01	1,670.96	1,310.81	947.81	583.83	219.77				
3/4	2,391.42	1,663.37	1,303.23	940.25	576.25	212.18				
N	2,383.84	1,655.79	1,295.64	932.68	568.66	204.60				
1/4	2,376.26	1,648.21	1,288.06	925.11	561.08	197.02				
1/2	2,368.67	1,640.62	1,280.47	917.54	553.50	189.44				
3/4	2,361.09	1,633.04	1,272.89	909.96	545.91	181.86				
N	2,353.50	1,625.45	1,265.30	902.38	538.33	174.28				
1/4	2,345.92	1,617.87	1,257.72	894.80	530.74	166.71				
1/2	2,338.34	1,610.29	1,250.13	887.21	523.16	159.13				
3/4	2,330.75	1,602.71	1,242.55	879.63	515.57	151.56				
N	2,323.17	1,595.12	1,234.98	872.04	507.99	143.99				
1/4	2,315.59	1,587.53	1,227.41	864.46	500.40	136.43				
1/2	2,308.00	1,579.95	1,219.83	856.87	492.82	128.87				
3/4	2,300.42	1,572.37	1,212.26	849.29	485.23	121.30				
N	2,292.83	1,564.78	1,204.70	841.71	477.65	113.76				
1/4	2,285.25	1,557.19	1,197.15	834.12	470.06	106.22				
1/2	2,277.67	1,549.61	1,189.59	826.54	462.48	98.67				
3/4	2,270.08	1,542.02	1,182.03	818.95	454.89	91.13				
N	2,262.50	1,534.43	1,174.48	811.37	447.31	83.62				
1/4	2,254.92	1,526.84	1,166.92	803.78	439.72	76.11				
1/2	2,247.33	1,519.25	1,159.37	796.20	432.14	68.60				
3/4	2,239.75	1,511.66	1,151.81	788.62	424.56	61.09				
N	2,232.17	1,504.07	1,144.26	781.03	416.97	54.19				
1/4	2,224.58	1,496.48	1,136.70	773.45	409.39	47.29				
1/2	2,217.00	1,488.89	1,129.15	765.86	401.80	40.38				
3/4	2,209.41	1,481.30	1,121.59	758.28	394.22	33.48				
N	2,201.83	1,473.71	1,114.03	750.70	386.63	28.43				
1/4	2,194.25	1,466.12	1,106.48	743.11	379.05	23.37				
1/2	2,186.66	1,458.53	1,098.92	735.53	371.46	18.32				
3/4	2,179.08	1,450.94	1,091.37	727.94	363.88	13.27				
N	2,171.50	1,443.35	1,083.81	720.36	356.29					
1/4	2,163.91	1,435.76	1,076.26	712.77	348.71					
1/2	2,156.33	1,428.17	1,068.70	705.19	341.12					
3/4	2,148.74	1,420.58	1,061.15	697.61	333.54					
N	2,141.16	1,413.00	1,053.59	690.02	325.95					
1/4	2,133.58	1,405.41	1,046.04	682.44	318.37					
1/2	2,125.99	1,397.82	1,038.48	674.85	310.79					
3/4	2,118.41	1,390.23	1,030.93	667.27	303.20					
N	2,110.83	1,382.64	1,023.37	659.68	295.62					
1/4	2,103.24	1,375.05	1,015.81	652.10	288.03					
1/2	2,095.66	1,367.46	1,008.26	644.51	280.45					
3/4	2,088.07	1,359.87	1,000.70	636.93	272.86					
N	2,080.49	1,352.28	993.15	629.34	265.28					
1/4	2,072.91	1,344.69	985.59	621.76	257.69					
1/2	2,065.32	1,337.10	978.04	614.17	250.11					
3/4	2,057.74	1,329.51	970.48	606.59	242.52					
N	2,050.16	1,321.92	962.93	599.00	234.94					

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 03/31/2004 CL - BW
CALCULATED: 04/01/2004 CL
PRINTED: 03/20/2004 CL

PRECISION MEASUREMENT
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CANCELS AND SUPERCEDES
ALL PRIOR TO 04/2004

SHEET NO. 8 OF 12

[Signature]



BARGE "KIRBY 28061"

3 PORT ULLAGE TABLE

Table with columns for GAUGE HEIGHT 16'-06" and 9 FT., and rows for capacities in whole barrels of 42 U.S. gallons (0 FT. to 10 FT.).

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY. CAPACITIES GIVEN IN WHOLE BARRELS OF 42 U.S. GALLONS. BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH API MPMS CHAPTER 2.7. CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL. CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES OBSERVED WITH "HERMETIC" CLOSED GAUGING DEVICE. GAUGE POINT: (HERMETIC) LOCATED 17'-06" OFF CENTERLINE AND 65'-06" FORWARD OF AFT BULKHEAD.



BARGE "KIRBY 28061"

3 PORT
ULLAGE TABLE

GAUGE HEIGHT 16'-06"
18 FT. 19 FT.

CAPACITIES GIVEN IN WHOLE BARRELS OF 42 U.S. GALLONS

	10 FT.	11 FT.	12 FT.	13 FT.	14 FT.	15 FT.	16 FT.	17 FT.	18 FT.	19 FT.
0	0	1,949.87	0	1,227.36	0	872.73	0	516.35	0	151.81
1/4	0	1,949.87	0	1,227.36	0	872.73	0	516.35	0	151.81
1/2	0	1,949.87	0	1,227.36	0	872.73	0	516.35	0	151.81
3/4	0	1,949.87	0	1,227.36	0	872.73	0	516.35	0	151.81
1	0	1,949.87	0	1,227.36	0	872.73	0	516.35	0	151.81
1 1/4	14	1,949.87	0	1,227.36	0	872.73	0	516.35	0	151.81
1 1/2	14	1,949.87	0	1,227.36	0	872.73	0	516.35	0	151.81
1 3/4	14	1,949.87	0	1,227.36	0	872.73	0	516.35	0	151.81
2	14	1,949.87	0	1,227.36	0	872.73	0	516.35	0	151.81
2 1/4	14	1,949.87	0	1,227.36	0	872.73	0	516.35	0	151.81
2 1/2	14	1,949.87	0	1,227.36	0	872.73	0	516.35	0	151.81
2 3/4	14	1,949.87	0	1,227.36	0	872.73	0	516.35	0	151.81
3	14	1,949.87	0	1,227.36	0	872.73	0	516.35	0	151.81
3 1/4	14	1,949.87	0	1,227.36	0	872.73	0	516.35	0	151.81
3 1/2	14	1,949.87	0	1,227.36	0	872.73	0	516.35	0	151.81
3 3/4	14	1,949.87	0	1,227.36	0	872.73	0	516.35	0	151.81
4	14	1,949.87	0	1,227.36	0	872.73	0	516.35	0	151.81
4 1/4	14	1,949.87	0	1,227.36	0	872.73	0	516.35	0	151.81
4 1/2	14	1,949.87	0	1,227.36	0	872.73	0	516.35	0	151.81
4 3/4	14	1,949.87	0	1,227.36	0	872.73	0	516.35	0	151.81
5	14	1,949.87	0	1,227.36	0	872.73	0	516.35	0	151.81
5 1/4	14	1,949.87	0	1,227.36	0	872.73	0	516.35	0	151.81
5 1/2	14	1,949.87	0	1,227.36	0	872.73	0	516.35	0	151.81
5 3/4	14	1,949.87	0	1,227.36	0	872.73	0	516.35	0	151.81
6	14	1,949.87	0	1,227.36	0	872.73	0	516.35	0	151.81
6 1/4	14	1,949.87	0	1,227.36	0	872.73	0	516.35	0	151.81
6 1/2	14	1,949.87	0	1,227.36	0	872.73	0	516.35	0	151.81
6 3/4	14	1,949.87	0	1,227.36	0	872.73	0	516.35	0	151.81
7	14	1,949.87	0	1,227.36	0	872.73	0	516.35	0	151.81
7 1/4	14	1,949.87	0	1,227.36	0	872.73	0	516.35	0	151.81
7 1/2	14	1,949.87	0	1,227.36	0	872.73	0	516.35	0	151.81
7 3/4	14	1,949.87	0	1,227.36	0	872.73	0	516.35	0	151.81
8	14	1,949.87	0	1,227.36	0	872.73	0	516.35	0	151.81
8 1/4	14	1,949.87	0	1,227.36	0	872.73	0	516.35	0	151.81
8 1/2	14	1,949.87	0	1,227.36	0	872.73	0	516.35	0	151.81
8 3/4	14	1,949.87	0	1,227.36	0	872.73	0	516.35	0	151.81
9	14	1,949.87	0	1,227.36	0	872.73	0	516.35	0	151.81
9 1/4	14	1,949.87	0	1,227.36	0	872.73	0	516.35	0	151.81
9 1/2	14	1,949.87	0	1,227.36	0	872.73	0	516.35	0	151.81
9 3/4	14	1,949.87	0	1,227.36	0	872.73	0	516.35	0	151.81
10	14	1,949.87	0	1,227.36	0	872.73	0	516.35	0	151.81
10 1/4	14	1,949.87	0	1,227.36	0	872.73	0	516.35	0	151.81
10 1/2	14	1,949.87	0	1,227.36	0	872.73	0	516.35	0	151.81
10 3/4	14	1,949.87	0	1,227.36	0	872.73	0	516.35	0	151.81
11	14	1,949.87	0	1,227.36	0	872.73	0	516.35	0	151.81
11 1/4	14	1,949.87	0	1,227.36	0	872.73	0	516.35	0	151.81
11 1/2	14	1,949.87	0	1,227.36	0	872.73	0	516.35	0	151.81
11 3/4	14	1,949.87	0	1,227.36	0	872.73	0	516.35	0	151.81
12	14	1,949.87	0	1,227.36	0	872.73	0	516.35	0	151.81

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 03/31/2004 CL - SW
CALCULATED: 04/01/2004 CL
PRINTED: 03/30/2004 CL
CANCELS AND SUPERCEDES
ALL PRIOR TO 04/2004

PRECISION MEASUREMENT
& ANALYSIS, INC.
P.O. Box 2032
Pearland, Texas 77588
http://www.pma.com.net



BARGE "KIRBY 28061"

3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE BARRELS OF 42 U.S. GALLONS

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

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH API 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 OBSERVED WITH "HERMETIC" CLOSED GAUGING DEVICE.
 GAUGE POINT: (HERMETIC) LOCATED 17" OFF CENTERLINE AND 85" 0" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT & ANALYSIS, INC.
 P.O. Box 2032
 Pearland, Texas 77688
<http://www.pma-inc.com>

John J. ...



BARGE "KIRBY 28061"

3 STBD ULLAGE TABLE

GAUGE HEIGHT 16'-06"
18 FT. 19 FT.

CAPACITIES GIVEN IN WHOLE BARRELS OF 42 U.S. GALLONS

H	10 FT.	11 FT.	12 FT.	13 FT.	14 FT.	15 FT.	16 FT.	17 FT.	18 FT.	19 FT.
0	2,333.92	0	1,969.42	0	1,604.91	0	880.72	0	516.35	0
1/4	2,326.33	1/4	1,961.83	1/4	1,236.69	1/4	873.16	1/4	508.76	1/4
1/2	2,318.73	1/2	1,954.23	1/2	1,229.10	1/2	865.59	1/2	501.16	1/2
3/4	2,311.14	3/4	1,946.64	3/4	1,221.50	3/4	858.02	3/4	493.57	3/4
1	2,303.55	1	1,939.05	1	1,213.91	1	850.45	1	485.97	1
1/4	2,295.95	1/4	1,931.46	1/4	1,206.31	1/4	842.87	1/4	478.38	1/4
1/2	2,288.36	1/2	1,923.86	1/2	1,198.72	1/2	835.29	1/2	470.79	1/2
3/4	2,280.76	3/4	1,916.26	3/4	1,191.12	3/4	827.71	3/4	463.19	3/4
2	2,273.17	2	1,908.67	2	1,183.53	2	820.13	2	455.60	2
1/4	2,265.58	1/4	1,901.08	1/4	1,175.94	1/4	812.53	1/4	448.00	1/4
1/2	2,257.98	1/2	1,893.48	1/2	1,168.34	1/2	804.94	1/2	440.41	1/2
3/4	2,250.39	3/4	1,885.89	3/4	1,160.75	3/4	797.35	3/4	432.81	3/4
3	2,242.80	3	1,878.29	3	1,153.15	3	789.76	3	425.22	3
1/4	2,235.20	1/4	1,870.70	1/4	1,145.57	1/4	782.16	1/4	417.62	1/4
1/2	2,227.61	1/2	1,863.11	1/2	1,137.99	1/2	774.58	1/2	410.03	1/2
3/4	2,220.01	3/4	1,855.51	3/4	1,130.41	3/4	766.97	3/4	402.43	3/4
4	2,212.42	4	1,847.92	4	1,122.82	4	759.37	4	394.84	4
1/4	2,204.83	1/4	1,840.33	1/4	1,115.26	1/4	751.78	1/4	387.24	1/4
1/2	2,197.23	1/2	1,832.73	1/2	1,107.69	1/2	744.19	1/2	379.65	1/2
3/4	2,189.64	3/4	1,825.14	3/4	1,100.12	3/4	736.59	3/4	372.05	3/4
5	2,182.05	5	1,817.54	5	1,092.56	5	729.00	5	364.46	5
1/4	2,174.45	1/4	1,809.95	1/4	1,084.99	1/4	721.40	1/4	356.86	1/4
1/2	2,166.86	1/2	1,802.36	1/2	1,077.42	1/2	713.81	1/2	349.27	1/2
3/4	2,159.27	3/4	1,794.76	3/4	1,069.86	3/4	706.21	3/4	341.67	3/4
6	2,151.67	6	1,787.17	6	1,062.29	6	698.62	6	334.08	6
1/4	2,144.08	1/4	1,779.57	1/4	1,054.73	1/4	691.03	1/4	326.49	1/4
1/2	2,136.48	1/2	1,771.98	1/2	1,047.16	1/2	683.43	1/2	318.89	1/2
3/4	2,128.89	3/4	1,764.39	3/4	1,039.60	3/4	675.84	3/4	311.30	3/4
7	2,121.30	7	1,756.79	7	1,032.03	7	668.24	7	303.70	7
1/4	2,113.70	1/4	1,749.20	1/4	1,024.47	1/4	660.65	1/4	296.11	1/4
1/2	2,106.11	1/2	1,741.60	1/2	1,016.90	1/2	653.05	1/2	288.51	1/2
3/4	2,098.52	3/4	1,734.01	3/4	1,009.34	3/4	645.46	3/4	280.92	3/4
8	2,090.92	8	1,726.42	8	1,001.77	8	637.87	8	273.32	8
1/4	2,083.33	1/4	1,718.82	1/4	994.21	1/4	630.27	1/4	265.73	1/4
1/2	2,075.73	1/2	1,711.23	1/2	986.64	1/2	622.68	1/2	258.13	1/2
3/4	2,068.14	3/4	1,703.64	3/4	979.07	3/4	615.08	3/4	250.54	3/4
9	2,060.55	9	1,696.04	9	971.51	9	607.49	9	242.94	9
1/4	2,052.95	1/4	1,688.45	1/4	963.94	1/4	599.89	1/4	235.35	1/4
1/2	2,045.36	1/2	1,680.86	1/2	956.38	1/2	592.30	1/2	227.75	1/2
3/4	2,037.77	3/4	1,673.26	3/4	948.81	3/4	584.70	3/4	220.16	3/4
10	2,030.17	10	1,665.67	10	941.25	10	577.11	10	212.56	10
1/4	2,022.58	1/4	1,658.07	1/4	933.68	1/4	569.52	1/4	204.97	1/4
1/2	2,014.98	1/2	1,650.48	1/2	926.12	1/2	561.92	1/2	197.38	1/2
3/4	2,007.39	3/4	1,642.88	3/4	918.55	3/4	554.33	3/4	189.78	3/4
11	1,999.80	11	1,635.29	11	910.99	11	546.73	11	182.19	11
1/4	1,992.20	1/4	1,627.70	1/4	903.42	1/4	539.14	1/4	174.59	1/4
1/2	1,984.61	1/2	1,620.10	1/2	895.86	1/2	531.54	1/2	167.00	1/2
3/4	1,977.02	3/4	1,612.51	3/4	888.29	3/4	523.95	3/4	159.40	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 032172004 CL - BW
CALCULATED: 04/01/2004 CL
PRINTED: 03/20/2004 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 04/2004

PRECISION MEASUREMENT
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