



BARGE "KIRBY 28162"

ULLAGE TRIM TABLE

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

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

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

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

LENGTH BETWEEN DRAFT MARKS: 241'-06"

March 10, 2011

**PRECISION MEASUREMENT
& ANALYSIS, INC.**

P.O. Box 2092
 Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "KIRBY 28162"

1 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	4,526.94	0	4,194.74	0	3,838.63	0	3,472.09	0	3,105.55	0	2,739.01
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,520.25	1/4	4,187.52	1/4	3,830.99	1/4	3,464.45	1/4	3,097.91	1/4	2,731.38
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,839.18	1/2	4,513.56	1/2	4,180.30	1/2	3,823.35	1/2	3,456.82	1/2	3,090.28
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,833.54	3/4	4,506.86	3/4	4,173.08	3/4	3,815.72	3/4	3,449.18	3/4	3,082.64
1	1	1	1	1	1	1	1	1	4,827.90	1	4,500.17	1	4,165.86	1	3,808.08	1	3,441.54	1	3,075.01
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,821.06	1/4	4,493.44	1/4	4,158.60	1/4	3,800.44	1/4	3,433.91	1/4	3,067.37
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,814.23	1/2	4,486.72	1/2	4,151.34	1/2	3,792.81	1/2	3,426.27	1/2	3,059.73
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,807.39	3/4	4,479.99	3/4	4,144.09	3/4	3,785.17	3/4	3,418.63	3/4	3,052.10
2	2	2	2	2	2	2	2	2	4,800.56	2	4,473.27	2	4,136.83	2	3,777.54	2	3,411.00	2	3,044.46
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,793.09	1/4	4,466.51	1/4	4,129.54	1/4	3,769.90	1/4	3,403.36	1/4	3,036.82
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,785.62	1/2	4,459.74	1/2	4,122.24	1/2	3,762.26	1/2	3,395.73	1/2	3,029.19
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,778.14	3/4	4,452.98	3/4	4,114.95	3/4	3,754.63	3/4	3,388.09	3/4	3,021.55
3	3	3	3	3	3	3	3	3	4,770.67	3	4,446.22	3	4,107.65	3	3,746.99	3	3,380.45	3	3,013.92
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,763.12	1/4	4,439.42	1/4	4,100.32	1/4	3,739.35	1/4	3,372.82	1/4	3,006.28
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,755.57	1/2	4,432.63	1/2	4,092.99	1/2	3,731.72	1/2	3,365.18	1/2	2,998.64
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,748.02	3/4	4,425.83	3/4	4,085.66	3/4	3,724.08	3/4	3,357.54	3/4	2,991.01
4	4	4	4	4	4	4	4	4	4,740.47	4	4,419.03	4	4,078.33	4	3,716.45	4	3,349.91	4	2,983.37
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,733.19	1/4	4,412.19	1/4	4,070.97	1/4	3,708.81	1/4	3,342.27	1/4	2,975.73
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,725.92	1/2	4,405.36	1/2	4,063.61	1/2	3,701.17	1/2	3,334.64	1/2	2,968.10
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,718.65	3/4	4,398.52	3/4	4,056.25	3/4	3,693.54	3/4	3,327.00	3/4	2,960.46
5	5	5	5	5	5	5	5	5	4,711.38	5	4,391.69	5	4,048.88	5	3,685.90	5	3,319.36	5	2,952.83
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,704.65	1/4	4,384.81	1/4	4,041.49	1/4	3,678.27	1/4	3,311.73	1/4	2,945.19
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,697.93	1/2	4,377.94	1/2	4,034.09	1/2	3,670.63	1/2	3,304.09	1/2	2,937.55
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,691.21	3/4	4,371.07	3/4	4,026.69	3/4	3,662.99	3/4	3,296.46	3/4	2,929.92
6	6	6	6	6	6	6	6	6	4,684.49	6	4,364.19	6	4,019.29	6	3,655.36	6	3,288.82	6	2,922.28
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,678.02	1/4	4,357.28	1/4	4,011.86	1/4	3,647.72	1/4	3,281.18	1/4	2,914.65
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,671.55	1/2	4,350.37	1/2	4,004.42	1/2	3,640.08	1/2	3,273.55	1/2	2,907.01
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,665.08	3/4	4,343.46	3/4	3,996.99	3/4	3,632.45	3/4	3,265.91	3/4	2,899.37
7	7	7	7	7	7	7	7	7	4,658.60	7	4,336.55	7	3,989.55	7	3,624.81	7	3,258.27	7	2,891.74
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,652.10	1/4	4,329.58	1/4	3,982.08	1/4	3,617.18	1/4	3,250.64	1/4	2,884.10
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,645.59	1/2	4,322.61	1/2	3,974.61	1/2	3,609.54	1/2	3,243.00	1/2	2,876.46
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,639.08	3/4	4,315.64	3/4	3,967.13	3/4	3,601.90	3/4	3,235.37	3/4	2,868.83
8	8	8	8	8	8	8	8	8	4,632.57	8	4,308.67	8	3,959.66	8	3,594.27	8	3,227.73	8	2,861.19
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,626.03	1/4	4,301.62	1/4	3,952.15	1/4	3,586.63	1/4	3,220.09	1/4	2,853.56
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,619.48	1/2	4,294.58	1/2	3,944.64	1/2	3,578.99	1/2	3,212.46	1/2	2,845.92
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,612.93	3/4	4,287.53	3/4	3,937.13	3/4	3,571.36	3/4	3,204.82	3/4	2,838.28
9	9	9	9	9	9	9	9	9	4,606.39	9	4,280.48	9	3,929.62	9	3,563.72	9	3,197.18	9	2,830.65
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,599.81	1/4	4,273.37	1/4	3,922.08	1/4	3,556.09	1/4	3,189.55	1/4	2,823.01
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,593.22	1/2	4,266.26	1/2	3,914.53	1/2	3,548.45	1/2	3,181.91	1/2	2,815.37
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,586.64	3/4	4,259.16	3/4	3,906.98	3/4	3,540.81	3/4	3,174.28	3/4	2,807.74
10	10	10	10	10	10	10	10	10	4,580.06	10	4,252.05	10	3,899.43	10	3,533.18	10	3,166.64	10	2,800.10
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,573.44	1/4	4,244.90	1/4	3,891.85	1/4	3,525.54	1/4	3,159.00	1/4	2,792.47
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,566.82	1/2	4,237.76	1/2	3,884.26	1/2	3,517.90	1/2	3,151.37	1/2	2,784.83
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,560.19	3/4	4,230.61	3/4	3,876.68	3/4	3,510.27	3/4	3,143.73	3/4	2,777.19
11	11	11	11	11	11	11	11	11	4,553.57	11	4,223.47	11	3,869.09	11	3,502.63	11	3,136.09	11	2,769.56
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,546.92	1/4	4,216.29	1/4	3,861.48	1/4	3,495.00	1/4	3,128.46	1/4	2,761.92
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,540.26	1/2	4,209.10	1/2	3,853.86	1/2	3,487.36	1/2	3,120.82	1/2	2,754.28
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,533.60	3/4	4,201.92	3/4	3,846.24	3/4	3,479.72	3/4	3,113.19	3/4	2,746.65

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.
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BARGE "KIRBY 28162"

1 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	2,372.47	0	2,005.94	0	1,639.39	0	1,273.49	0	908.99	0	542.86	0	195.04	0		0			
1/4	2,364.84	1/4	1,998.30	1/4	1,631.75	1/4	1,265.85	1/4	901.41	1/4	535.23	1/4	188.34	1/4		1/4			
1/2	2,357.20	1/2	1,990.67	1/2	1,624.11	1/2	1,258.21	1/2	893.83	1/2	527.59	1/2	181.63	1/2		1/2			
3/4	2,349.57	3/4	1,983.03	3/4	1,616.48	3/4	1,250.58	3/4	886.25	3/4	519.95	3/4	174.93	3/4		3/4			
1	2,341.93	1	1,975.40	1	1,608.84	1	1,242.94	1	878.67	1	512.32	1	168.23	1		1			
1/4	2,334.29	1/4	1,967.76	1/4	1,601.20	1/4	1,235.30	1/4	871.07	1/4	504.70	1/4	161.61	1/4		1/4			
1/2	2,326.66	1/2	1,960.12	1/2	1,593.57	1/2	1,227.66	1/2	863.47	1/2	497.08	1/2	155.00	1/2		1/2			
3/4	2,319.02	3/4	1,952.49	3/4	1,585.93	3/4	1,220.03	3/4	855.88	3/4	489.47	3/4	148.38	3/4		3/4			
2	2,311.39	2	1,944.85	2	1,578.29	2	1,212.39	2	848.28	2	481.85	2	141.76	2		2			
1/4	2,303.75	1/4	1,937.21	1/4	1,570.66	1/4	1,204.77	1/4	840.66	1/4	474.30	1/4	135.24	1/4		1/4			
1/2	2,296.11	1/2	1,929.58	1/2	1,563.02	1/2	1,197.14	1/2	833.04	1/2	466.75	1/2	128.72	1/2		1/2			
3/4	2,288.48	3/4	1,921.94	3/4	1,555.38	3/4	1,189.52	3/4	825.42	3/4	459.19	3/4	122.19	3/4		3/4			
3	2,280.84	3	1,914.30	3	1,547.75	3	1,181.90	3	817.79	3	451.64	3	115.67	3		3			
1/4	2,273.20	1/4	1,906.67	1/4	1,540.11	1/4	1,174.30	1/4	810.16	1/4	444.17	1/4	109.24	1/4		1/4			
1/2	2,265.57	1/2	1,899.03	1/2	1,532.47	1/2	1,166.71	1/2	802.52	1/2	436.71	1/2	102.82	1/2		1/2			
3/4	2,257.93	3/4	1,891.40	3/4	1,524.84	3/4	1,159.11	3/4	794.88	3/4	429.24	3/4	96.39	3/4		3/4			
4	2,250.30	4	1,883.76	4	1,517.20	4	1,151.52	4	787.25	4	421.77	4	89.96	4		4			
1/4	2,242.66	1/4	1,876.12	1/4	1,509.57	1/4	1,143.94	1/4	779.61	1/4	414.39	1/4	83.64	1/4		1/4			
1/2	2,235.02	1/2	1,868.49	1/2	1,501.93	1/2	1,136.36	1/2	771.97	1/2	407.01	1/2	77.32	1/2		1/2			
3/4	2,227.39	3/4	1,860.85	3/4	1,494.29	3/4	1,128.78	3/4	764.34	3/4	399.62	3/4	71.00	3/4		3/4			
5	2,219.75	5	1,853.21	5	1,486.66	5	1,121.19	5	756.70	5	392.24	5	64.67	5		5			
1/4	2,212.11	1/4	1,845.58	1/4	1,479.03	1/4	1,113.62	1/4	749.06	1/4	384.94	1/4	58.47	1/4		1/4			
1/2	2,204.48	1/2	1,837.94	1/2	1,471.41	1/2	1,106.04	1/2	741.43	1/2	377.65	1/2	52.27	1/2		1/2			
3/4	2,196.84	3/4	1,830.30	3/4	1,463.79	3/4	1,098.46	3/4	733.79	3/4	370.35	3/4	46.06	3/4		3/4			
6	2,189.21	6	1,822.67	6	1,456.16	6	1,090.88	6	726.15	6	363.05	6	39.86	6		6			
1/4	2,181.57	1/4	1,815.03	1/4	1,448.56	1/4	1,083.30	1/4	718.52	1/4	355.84	1/4	34.35	1/4		1/4			
1/2	2,173.93	1/2	1,807.39	1/2	1,440.95	1/2	1,075.72	1/2	710.88	1/2	348.63	1/2	28.85	1/2		1/2			
3/4	2,166.30	3/4	1,799.76	3/4	1,433.34	3/4	1,068.14	3/4	703.24	3/4	341.41	3/4	23.34	3/4		3/4			
7	2,158.66	7	1,792.12	7	1,425.73	7	1,060.56	7	695.61	7	334.20	7	17.83	7		7			
1/4	2,151.03	1/4	1,784.48	1/4	1,418.12	1/4	1,052.99	1/4	687.97	1/4	327.07	1/4	14.27	1/4		1/4			
1/2	2,143.39	1/2	1,776.85	1/2	1,410.51	1/2	1,045.41	1/2	680.33	1/2	319.94	1/2	10.71	1/2		1/2			
3/4	2,135.75	3/4	1,769.21	3/4	1,402.90	3/4	1,037.83	3/4	672.70	3/4	312.82	3/4	7.15	3/4		3/4			
8	2,128.12	8	1,761.57	8	1,395.29	8	1,030.25	8	665.06	8	305.69	8	3.59	8		8			
1/4	2,120.48	1/4	1,753.94	1/4	1,387.68	1/4	1,022.67	1/4	657.42	1/4	298.65	1/4		1/4		1/4			
1/2	2,112.84	1/2	1,746.30	1/2	1,380.07	1/2	1,015.09	1/2	649.79	1/2	291.60	1/2		1/2		1/2			
3/4	2,105.21	3/4	1,738.66	3/4	1,372.47	3/4	1,007.51	3/4	642.15	3/4	284.56	3/4		3/4		3/4			
9	2,097.57	9	1,731.03	9	1,364.86	9	999.93	9	634.51	9	277.52	9		9		9			
1/4	2,089.94	1/4	1,723.39	1/4	1,357.25	1/4	992.36	1/4	626.87	1/4	270.56	1/4		1/4		1/4			
1/2	2,082.30	1/2	1,715.75	1/2	1,349.64	1/2	984.78	1/2	619.24	1/2	263.60	1/2		1/2		1/2			
3/4	2,074.66	3/4	1,708.12	3/4	1,342.03	3/4	977.20	3/4	611.60	3/4	256.64	3/4		3/4		3/4			
10	2,067.03	10	1,700.48	10	1,334.42	10	969.62	10	603.96	10	249.69	10		10		10			
1/4	2,059.39	1/4	1,692.84	1/4	1,326.81	1/4	962.04	1/4	596.33	1/4	242.81	1/4		1/4		1/4			
1/2	2,051.75	1/2	1,685.21	1/2	1,319.20	1/2	954.46	1/2	588.69	1/2	235.94	1/2		1/2		1/2			
3/4	2,044.12	3/4	1,677.57	3/4	1,311.59	3/4	946.88	3/4	581.05	3/4	229.07	3/4		3/4		3/4			
11	2,036.48	11	1,669.93	11	1,303.98	11	939.30	11	573.41	11	222.19	11		11		11			
1/4	2,028.85	1/4	1,662.30	1/4	1,296.36	1/4	931.72	1/4	565.78	1/4	215.40	1/4		1/4		1/4			
1/2	2,021.21	1/2	1,654.66	1/2	1,288.73	1/2	924.15	1/2	558.14	1/2	208.62	1/2		1/2		1/2			
3/4	2,013.57	3/4	1,647.02	3/4	1,281.11	3/4	916.57	3/4	550.50	3/4	201.83	3/4		3/4		3/4			

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 03/10/2011 CL - SW
CALCULATED: 03/10/2011 CL
PRINTED: 03/10/2011 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 28162"

1 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-07 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	4,520.07	0	4,187.46	0	3,831.06	0	3,464.65	0	3,098.24	0	2,731.82
1/4		1/4		1/4		1/4		1/4	4,513.38	1/4	4,180.24	1/4	3,823.43	1/4	3,457.02	1/4	3,090.60	1/4	2,724.19
1/2		1/2		1/2		1/2		1/2	4,506.69	1/2	4,173.03	1/2	3,815.79	1/2	3,449.38	1/2	3,082.97	1/2	2,716.56
3/4		3/4		3/4		3/4	4,827.61	3/4	4,500.00	3/4	4,165.81	3/4	3,808.16	3/4	3,441.75	3/4	3,075.34	3/4	2,708.92
1		1		1		1	4,820.78	1	4,493.28	1	4,158.55	1	3,800.53	1	3,434.12	1	3,067.70	1	2,701.29
1/4		1/4		1/4		1/4	4,813.94	1/4	4,486.55	1/4	4,151.30	1/4	3,792.89	1/4	3,426.48	1/4	3,060.07	1/4	2,693.66
1/2		1/2		1/2		1/2	4,807.11	1/2	4,479.83	1/2	4,144.04	1/2	3,785.26	1/2	3,418.85	1/2	3,052.44	1/2	2,686.02
3/4		3/4		3/4		3/4	4,800.28	3/4	4,473.11	3/4	4,136.79	3/4	3,777.63	3/4	3,411.21	3/4	3,044.80	3/4	2,678.39
2		2		2		2	4,792.81	2	4,466.35	2	4,129.50	2	3,769.99	2	3,403.58	2	3,037.17	2	2,670.76
1/4		1/4		1/4		1/4	4,785.34	1/4	4,459.59	1/4	4,122.21	1/4	3,762.36	1/4	3,395.95	1/4	3,029.53	1/4	2,663.12
1/2		1/2		1/2		1/2	4,777.87	1/2	4,452.83	1/2	4,114.91	1/2	3,754.73	1/2	3,388.31	1/2	3,021.90	1/2	2,655.49
3/4		3/4		3/4		3/4	4,770.40	3/4	4,446.07	3/4	4,107.62	3/4	3,747.09	3/4	3,380.68	3/4	3,014.27	3/4	2,647.85
3		3		3		3	4,762.85	3	4,439.28	3	4,100.29	3	3,739.46	3	3,373.05	3	3,006.63	3	2,640.22
1/4		1/4		1/4		1/4	4,755.31	1/4	4,432.48	1/4	4,092.97	1/4	3,731.83	1/4	3,365.41	1/4	2,999.00	1/4	2,632.59
1/2		1/2		1/2		1/2	4,747.76	1/2	4,425.68	1/2	4,085.64	1/2	3,724.19	1/2	3,357.78	1/2	2,991.37	1/2	2,624.95
3/4		3/4		3/4		3/4	4,740.21	3/4	4,418.89	3/4	4,078.31	3/4	3,716.56	3/4	3,350.15	3/4	2,983.73	3/4	2,617.32
4		4		4		4	4,732.94	4	4,412.05	4	4,070.95	4	3,708.92	4	3,342.51	4	2,976.10	4	2,609.69
1/4		1/4		1/4		1/4	4,725.67	1/4	4,405.22	1/4	4,063.59	1/4	3,701.29	1/4	3,334.88	1/4	2,968.47	1/4	2,602.05
1/2		1/2		1/2		1/2	4,718.40	1/2	4,398.39	1/2	4,056.23	1/2	3,693.66	1/2	3,327.24	1/2	2,960.83	1/2	2,594.42
3/4		3/4		3/4		3/4	4,711.13	3/4	4,391.55	3/4	4,048.87	3/4	3,686.02	3/4	3,319.61	3/4	2,953.20	3/4	2,586.79
5		5		5		5	4,704.41	5	4,384.68	5	4,041.48	5	3,678.39	5	3,311.98	5	2,945.56	5	2,579.15
1/4		1/4		1/4		1/4	4,697.69	1/4	4,377.81	1/4	4,034.08	1/4	3,670.76	1/4	3,304.34	1/4	2,937.93	1/4	2,571.52
1/2		1/2		1/2		1/2	4,690.97	1/2	4,370.94	1/2	4,026.69	1/2	3,663.12	1/2	3,296.71	1/2	2,930.30	1/2	2,563.88
3/4		3/4		3/4		3/4	4,684.25	3/4	4,364.07	3/4	4,019.29	3/4	3,655.49	3/4	3,289.08	3/4	2,922.66	3/4	2,556.25
6		6		6		6	4,677.78	6	4,357.16	6	4,011.86	6	3,647.86	6	3,281.44	6	2,915.03	6	2,548.62
1/4		1/4		1/4		1/4	4,671.31	1/4	4,350.26	1/4	4,004.43	1/4	3,640.22	1/4	3,273.81	1/4	2,907.40	1/4	2,540.98
1/2		1/2		1/2		1/2	4,664.85	1/2	4,343.35	1/2	3,997.00	1/2	3,632.59	1/2	3,266.18	1/2	2,899.76	1/2	2,533.35
3/4		3/4		3/4		3/4	4,658.38	3/4	4,336.44	3/4	3,989.56	3/4	3,624.96	3/4	3,258.54	3/4	2,892.13	3/4	2,525.72
7		7		7		7	4,651.87	7	4,329.47	7	3,982.09	7	3,617.32	7	3,250.91	7	2,884.50	7	2,518.08
1/4		1/4		1/4		1/4	4,645.36	1/4	4,322.51	1/4	3,974.62	1/4	3,609.69	1/4	3,243.28	1/4	2,876.86	1/4	2,510.45
1/2		1/2		1/2		1/2	4,638.86	1/2	4,315.54	1/2	3,967.15	1/2	3,602.05	1/2	3,235.64	1/2	2,869.23	1/2	2,502.82
3/4		3/4		3/4		3/4	4,632.35	3/4	4,308.57	3/4	3,959.68	3/4	3,594.42	3/4	3,228.01	3/4	2,861.60	3/4	2,495.18
8		8		8		8	4,625.81	8	4,301.53	8	3,952.18	8	3,586.79	8	3,220.37	8	2,853.96	8	2,487.55
1/4		1/4		1/4		1/4	4,619.27	1/4	4,294.48	1/4	3,944.67	1/4	3,579.15	1/4	3,212.74	1/4	2,846.33	1/4	2,479.92
1/2		1/2		1/2		1/2	4,612.72	1/2	4,287.43	1/2	3,937.16	1/2	3,571.52	1/2	3,205.11	1/2	2,838.69	1/2	2,472.28
3/4		3/4		3/4		3/4	4,606.18	3/4	4,280.39	3/4	3,929.65	3/4	3,563.89	3/4	3,197.47	3/4	2,831.06	3/4	2,464.65
9		9		9		9	4,599.60	9	4,273.28	9	3,922.11	9	3,556.25	9	3,189.84	9	2,823.43	9	2,457.01
1/4		1/4		1/4		1/4	4,593.02	1/4	4,266.18	1/4	3,914.56	1/4	3,548.62	1/4	3,182.21	1/4	2,815.79	1/4	2,449.38
1/2		1/2		1/2		1/2	4,586.44	1/2	4,259.07	1/2	3,907.02	1/2	3,540.99	1/2	3,174.57	1/2	2,808.16	1/2	2,441.75
3/4		3/4		3/4		3/4	4,579.86	3/4	4,251.97	3/4	3,899.47	3/4	3,533.35	3/4	3,166.94	3/4	2,800.53	3/4	2,434.11
10		10		10		10	4,573.24	10	4,244.82	10	3,891.89	10	3,525.72	10	3,159.31	10	2,792.89	10	2,426.48
1/4		1/4		1/4		1/4	4,566.62	1/4	4,237.68	1/4	3,884.31	1/4	3,518.08	1/4	3,151.67	1/4	2,785.26	1/4	2,418.85
1/2		1/2		1/2		1/2	4,560.00	1/2	4,230.54	1/2	3,876.73	1/2	3,510.45	1/2	3,144.04	1/2	2,777.63	1/2	2,411.21
3/4		3/4		3/4		3/4	4,553.38	3/4	4,223.40	3/4	3,869.15	3/4	3,502.82	3/4	3,136.40	3/4	2,769.99	3/4	2,403.58
11		11		11		11	4,546.73	11	4,216.22	11	3,861.53	11	3,495.18	11	3,128.77	11	2,762.36	11	2,395.95
1/4		1/4		1/4		1/4	4,540.07	1/4	4,209.04	1/4	3,853.92	1/4	3,487.55	1/4	3,121.14	1/4	2,754.72	1/4	2,388.31
1/2		1/2		1/2		1/2	4,533.42	1/2	4,201.86	1/2	3,846.31	1/2	3,479.92	1/2	3,113.50	1/2	2,747.09	1/2	2,380.68
3/4		3/4		3/4		3/4	4,526.76	3/4	4,194.68	3/4	3,838.69	3/4	3,472.28	3/4	3,105.87	3/4	2,739.46	3/4	2,373.04

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 52'-09" FORWARD OF AFT BULKHEAD.

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



BARGE "KIRBY 28162"

1 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	2,365.41	0	1,999.00	0	1,632.57	0	1,266.80	0	901.35	0	535.03	0	188.27	0		0		0	
1/4	2,357.78	1/4	1,991.37	1/4	1,624.94	1/4	1,259.17	1/4	893.74	1/4	527.40	1/4	181.56	1/4		1/4		1/4	
1/2	2,350.14	1/2	1,983.73	1/2	1,617.31	1/2	1,251.53	1/2	886.14	1/2	519.77	1/2	174.86	1/2		1/2		1/2	
3/4	2,342.51	3/4	1,976.10	3/4	1,609.67	3/4	1,243.90	3/4	878.53	3/4	512.13	3/4	168.16	3/4		3/4		3/4	
1	2,334.88	1	1,968.47	1	1,602.04	1	1,236.26	1	870.91	1	504.52	1	161.55	1		1		1	
1/4	2,327.24	1/4	1,960.83	1/4	1,594.40	1/4	1,228.63	1/4	863.29	1/4	496.90	1/4	154.94	1/4		1/4		1/4	
1/2	2,319.61	1/2	1,953.20	1/2	1,586.77	1/2	1,220.99	1/2	855.66	1/2	489.29	1/2	148.32	1/2		1/2		1/2	
3/4	2,311.98	3/4	1,945.56	3/4	1,579.14	3/4	1,213.36	3/4	848.04	3/4	481.68	3/4	141.71	3/4		3/4		3/4	
2	2,304.34	2	1,937.93	2	1,571.50	2	1,205.72	2	840.41	2	474.13	2	135.19	2		2		2	
1/4	2,296.71	1/4	1,930.30	1/4	1,563.87	1/4	1,198.09	1/4	832.77	1/4	466.58	1/4	128.67	1/4		1/4		1/4	
1/2	2,289.08	1/2	1,922.66	1/2	1,556.23	1/2	1,190.46	1/2	825.14	1/2	459.03	1/2	122.15	1/2		1/2		1/2	
3/4	2,281.44	3/4	1,915.03	3/4	1,548.60	3/4	1,182.82	3/4	817.51	3/4	451.48	3/4	115.62	3/4		3/4		3/4	
3	2,273.81	3	1,907.39	3	1,540.97	3	1,175.20	3	809.87	3	444.01	3	109.20	3		3		3	
1/4	2,266.17	1/4	1,899.76	1/4	1,533.33	1/4	1,167.58	1/4	802.24	1/4	436.55	1/4	102.78	1/4		1/4		1/4	
1/2	2,258.54	1/2	1,892.13	1/2	1,525.70	1/2	1,159.96	1/2	794.60	1/2	429.08	1/2	96.35	1/2		1/2		1/2	
3/4	2,250.91	3/4	1,884.49	3/4	1,518.07	3/4	1,152.33	3/4	786.97	3/4	421.62	3/4	89.93	3/4		3/4		3/4	
4	2,243.27	4	1,876.86	4	1,510.43	4	1,144.73	4	779.33	4	414.24	4	83.61	4		4		4	
1/4	2,235.64	1/4	1,869.22	1/4	1,502.80	1/4	1,137.12	1/4	771.70	1/4	406.86	1/4	77.29	1/4		1/4		1/4	
1/2	2,228.01	1/2	1,861.59	1/2	1,495.16	1/2	1,129.51	1/2	764.07	1/2	399.48	1/2	70.97	1/2		1/2		1/2	
3/4	2,220.37	3/4	1,853.96	3/4	1,487.53	3/4	1,121.91	3/4	756.43	3/4	392.10	3/4	64.65	3/4		3/4		3/4	
5	2,212.74	5	1,846.32	5	1,479.91	5	1,114.30	5	748.80	5	384.80	5	58.45	5		5		5	
1/4	2,205.11	1/4	1,838.69	1/4	1,472.29	1/4	1,106.70	1/4	741.16	1/4	377.51	1/4	52.25	1/4		1/4		1/4	
1/2	2,197.47	1/2	1,831.06	1/2	1,464.67	1/2	1,099.09	1/2	733.53	1/2	370.21	1/2	46.05	1/2		1/2		1/2	
3/4	2,189.84	3/4	1,823.42	3/4	1,457.05	3/4	1,091.48	3/4	725.99	3/4	362.92	3/4	39.84	3/4		3/4		3/4	
6	2,182.20	6	1,815.79	6	1,449.44	6	1,083.88	6	718.26	6	355.71	6	34.34	6		6		6	
1/4	2,174.57	1/4	1,808.15	1/4	1,441.84	1/4	1,076.27	1/4	710.63	1/4	348.50	1/4	28.83	1/4		1/4		1/4	
1/2	2,166.94	1/2	1,800.52	1/2	1,434.23	1/2	1,068.67	1/2	702.99	1/2	341.29	1/2	23.33	1/2		1/2		1/2	
3/4	2,159.30	3/4	1,792.89	3/4	1,426.62	3/4	1,061.06	3/4	695.36	3/4	334.08	3/4	17.83	3/4		3/4		3/4	
7	2,151.67	7	1,785.25	7	1,419.02	7	1,053.46	7	687.72	7	326.95	7	14.27	7		7		7	
1/4	2,144.04	1/4	1,777.62	1/4	1,411.41	1/4	1,045.85	1/4	680.09	1/4	319.83	1/4	10.71	1/4		1/4		1/4	
1/2	2,136.40	1/2	1,769.98	1/2	1,403.81	1/2	1,038.25	1/2	672.46	1/2	312.70	1/2	7.15	1/2		1/2		1/2	
3/4	2,128.77	3/4	1,762.35	3/4	1,396.20	3/4	1,030.64	3/4	664.82	3/4	305.58	3/4	3.59	3/4		3/4		3/4	
8	2,121.14	8	1,754.72	8	1,388.59	8	1,023.04	8	657.19	8	298.54	8		8		8		8	
1/4	2,113.50	1/4	1,747.08	1/4	1,380.99	1/4	1,015.43	1/4	649.55	1/4	291.50	1/4		1/4		1/4		1/4	
1/2	2,105.87	1/2	1,739.45	1/2	1,373.38	1/2	1,007.83	1/2	641.92	1/2	284.45	1/2		1/2		1/2		1/2	
3/4	2,098.24	3/4	1,731.81	3/4	1,365.77	3/4	1,000.22	3/4	634.28	3/4	277.41	3/4		3/4		3/4		3/4	
9	2,090.60	9	1,724.18	9	1,358.17	9	992.62	9	626.65	9	270.46	9		9		9		9	
1/4	2,082.97	1/4	1,716.55	1/4	1,350.56	1/4	985.01	1/4	619.02	1/4	263.50	1/4		1/4		1/4		1/4	
1/2	2,075.33	1/2	1,708.91	1/2	1,342.95	1/2	977.41	1/2	611.38	1/2	256.55	1/2		1/2		1/2		1/2	
3/4	2,067.70	3/4	1,701.28	3/4	1,335.35	3/4	969.80	3/4	603.75	3/4	249.59	3/4		3/4		3/4		3/4	
10	2,060.07	10	1,693.65	10	1,327.74	10	962.19	10	596.11	10	242.72	10		10		10		10	
1/4	2,052.43	1/4	1,686.01	1/4	1,320.13	1/4	954.59	1/4	588.48	1/4	235.85	1/4		1/4		1/4		1/4	
1/2	2,044.80	1/2	1,678.38	1/2	1,312.52	1/2	946.98	1/2	580.84	1/2	228.98	1/2		1/2		1/2		1/2	
3/4	2,037.17	3/4	1,670.74	3/4	1,304.92	3/4	939.38	3/4	573.21	3/4	222.11	3/4		3/4		3/4		3/4	
11	2,029.53	11	1,663.11	11	1,297.30	11	931.77	11	565.57	11	215.32	11		11		11		11	
1/4	2,021.90	1/4	1,655.48	1/4	1,289.68	1/4	924.17	1/4	557.94	1/4	208.54	1/4		1/4		1/4		1/4	
1/2	2,014.27	1/2	1,647.84	1/2	1,282.06	1/2	916.56	1/2	550.30	1/2	201.75	1/2		1/2		1/2		1/2	
3/4	2,006.63	3/4	1,640.21	3/4	1,274.43	3/4	908.96	3/4	542.67	3/4	194.97	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 03/10/2011 CL - SW
CALCULATED: 03/10/2011 CL
PRINTED: 03/10/2011 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 28162"

2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-07 1/2"

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	4,530.80	0	4,199.96	0	3,845.60	0	3,481.71	0	3,117.82	0	2,753.94
1/4		1/4		1/4		1/4	4,848.46	1/4	4,524.15	1/4	4,192.79	1/4	3,838.02	1/4	3,474.13	1/4	3,110.24	1/4	2,746.36
1/2		1/2		1/2		1/2	4,842.85	1/2	4,517.51	1/2	4,185.62	1/2	3,830.44	1/2	3,466.55	1/2	3,102.66	1/2	2,738.77
3/4		3/4		3/4		3/4	4,836.07	3/4	4,510.83	3/4	4,178.42	3/4	3,822.86	3/4	3,458.97	3/4	3,095.08	3/4	2,731.19
1		1		1		1	4,829.28	1	4,504.15	1	4,171.21	1	3,815.28	1	3,451.39	1	3,087.50	1	2,723.61
1/4		1/4		1/4		1/4	4,822.50	1/4	4,497.48	1/4	4,164.01	1/4	3,807.70	1/4	3,443.81	1/4	3,079.92	1/4	2,716.03
1/2		1/2		1/2		1/2	4,815.71	1/2	4,490.80	1/2	4,156.80	1/2	3,800.11	1/2	3,436.23	1/2	3,072.34	1/2	2,708.45
3/4		3/4		3/4		3/4	4,808.29	3/4	4,484.09	3/4	4,149.56	3/4	3,792.53	3/4	3,428.65	3/4	3,064.76	3/4	2,700.87
2		2		2		2	4,800.88	2	4,477.38	2	4,142.32	2	3,784.95	2	3,421.06	2	3,057.18	2	2,693.29
1/4		1/4		1/4		1/4	4,793.46	1/4	4,470.66	1/4	4,135.08	1/4	3,777.37	1/4	3,413.48	1/4	3,049.60	1/4	2,685.71
1/2		1/2		1/2		1/2	4,786.04	1/2	4,463.95	1/2	4,127.83	1/2	3,769.79	1/2	3,405.90	1/2	3,042.01	1/2	2,678.13
3/4		3/4		3/4		3/4	4,778.54	3/4	4,457.20	3/4	4,120.56	3/4	3,762.21	3/4	3,398.32	3/4	3,034.43	3/4	2,670.55
3		3		3		3	4,771.05	3	4,450.45	3	4,113.28	3	3,754.63	3	3,390.74	3	3,026.85	3	2,662.96
1/4		1/4		1/4		1/4	4,763.55	1/4	4,443.71	1/4	4,106.00	1/4	3,747.05	1/4	3,383.16	1/4	3,019.27	1/4	2,655.38
1/2		1/2		1/2		1/2	4,756.06	1/2	4,436.96	1/2	4,098.73	1/2	3,739.47	1/2	3,375.58	1/2	3,011.69	1/2	2,647.80
3/4		3/4		3/4		3/4	4,748.84	3/4	4,430.17	3/4	4,091.42	3/4	3,731.89	3/4	3,368.00	3/4	3,004.11	3/4	2,640.22
4		4		4		4	4,741.62	4	4,423.38	4	4,084.11	4	3,724.30	4	3,360.42	4	2,996.53	4	2,632.64
1/4		1/4		1/4		1/4	4,734.40	1/4	4,416.60	1/4	4,076.80	1/4	3,716.72	1/4	3,352.84	1/4	2,988.95	1/4	2,625.06
1/2		1/2		1/2		1/2	4,727.18	1/2	4,409.81	1/2	4,069.49	1/2	3,709.14	1/2	3,345.25	1/2	2,981.37	1/2	2,617.48
3/4		3/4		3/4		3/4	4,720.51	3/4	4,402.99	3/4	4,062.14	3/4	3,701.56	3/4	3,337.67	3/4	2,973.79	3/4	2,609.90
5		5		5		5	4,713.83	5	4,396.17	5	4,054.80	5	3,693.98	5	3,330.09	5	2,966.20	5	2,602.32
1/4		1/4		1/4		1/4	4,707.16	1/4	4,389.34	1/4	4,047.46	1/4	3,686.40	1/4	3,322.51	1/4	2,958.62	1/4	2,594.74
1/2		1/2		1/2		1/2	4,700.49	1/2	4,382.52	1/2	4,040.11	1/2	3,678.82	1/2	3,314.93	1/2	2,951.04	1/2	2,587.15
3/4		3/4		3/4		3/4	4,694.06	3/4	4,375.66	3/4	4,032.73	3/4	3,671.24	3/4	3,307.35	3/4	2,943.46	3/4	2,579.57
6		6		6		6	4,687.64	6	4,368.80	6	4,025.35	6	3,663.66	6	3,299.77	6	2,935.88	6	2,571.99
1/4		1/4		1/4		1/4	4,681.21	1/4	4,361.94	1/4	4,017.97	1/4	3,656.08	1/4	3,292.19	1/4	2,928.30	1/4	2,564.41
1/2		1/2		1/2		1/2	4,674.79	1/2	4,355.08	1/2	4,010.59	1/2	3,648.49	1/2	3,284.61	1/2	2,920.72	1/2	2,556.83
3/4		3/4		3/4		3/4	4,668.33	3/4	4,348.16	3/4	4,003.17	3/4	3,640.91	3/4	3,277.03	3/4	2,913.14	3/4	2,549.25
7		7		7		7	4,661.87	7	4,341.24	7	3,995.75	7	3,633.33	7	3,269.44	7	2,905.56	7	2,541.67
1/4		1/4		1/4		1/4	4,655.41	1/4	4,334.32	1/4	3,988.33	1/4	3,625.75	1/4	3,261.86	1/4	2,897.98	1/4	2,534.09
1/2		1/2		1/2		1/2	4,648.95	1/2	4,327.40	1/2	3,980.91	1/2	3,618.17	1/2	3,254.28	1/2	2,890.39	1/2	2,526.51
3/4		3/4		3/4		3/4	4,642.45	3/4	4,320.41	3/4	3,973.46	3/4	3,610.59	3/4	3,246.70	3/4	2,882.81	3/4	2,518.93
8		8		8		8	4,635.95	8	4,313.41	8	3,966.00	8	3,603.01	8	3,239.12	8	2,875.23	8	2,511.34
1/4		1/4		1/4		1/4	4,629.45	1/4	4,306.41	1/4	3,958.55	1/4	3,595.43	1/4	3,231.54	1/4	2,867.65	1/4	2,503.76
1/2		1/2		1/2		1/2	4,622.95	1/2	4,299.41	1/2	3,951.09	1/2	3,587.85	1/2	3,223.96	1/2	2,860.07	1/2	2,496.18
3/4		3/4		3/4		3/4	4,616.42	3/4	4,292.36	3/4	3,943.60	3/4	3,580.27	3/4	3,216.38	3/4	2,852.49	3/4	2,488.60
9		9		9		9	4,609.88	9	4,285.30	9	3,936.10	9	3,572.68	9	3,208.80	9	2,844.91	9	2,481.02
1/4		1/4		1/4		1/4	4,603.35	1/4	4,278.24	1/4	3,928.61	1/4	3,565.10	1/4	3,201.22	1/4	2,837.33	1/4	2,473.44
1/2		1/2		1/2		1/2	4,596.81	1/2	4,271.19	1/2	3,921.12	1/2	3,557.52	1/2	3,193.63	1/2	2,829.75	1/2	2,465.86
3/4		3/4		3/4		3/4	4,590.24	3/4	4,264.09	3/4	3,913.59	3/4	3,549.94	3/4	3,186.05	3/4	2,822.17	3/4	2,458.28
10		10		10		10	4,583.67	10	4,257.00	10	3,906.06	10	3,542.36	10	3,178.47	10	2,814.58	10	2,450.70
1/4		1/4		1/4		1/4	4,577.10	1/4	4,249.91	1/4	3,898.53	1/4	3,534.78	1/4	3,170.89	1/4	2,807.00	1/4	2,443.12
1/2		1/2		1/2		1/2	4,570.52	1/2	4,242.81	1/2	3,891.00	1/2	3,527.20	1/2	3,163.31	1/2	2,799.42	1/2	2,435.53
3/4		3/4		3/4		3/4	4,563.91	3/4	4,235.68	3/4	3,883.44	3/4	3,519.62	3/4	3,155.73	3/4	2,791.84	3/4	2,427.95
11		11		11		11	4,557.30	11	4,228.55	11	3,875.88	11	3,512.04	11	3,148.15	11	2,784.26	11	2,420.37
1/4		1/4		1/4		1/4	4,550.69	1/4	4,221.42	1/4	3,868.32	1/4	3,504.46	1/4	3,140.57	1/4	2,776.68	1/4	2,412.79
1/2		1/2		1/2		1/2	4,544.09	1/2	4,214.29	1/2	3,860.75	1/2	3,496.87	1/2	3,132.99	1/2	2,769.10	1/2	2,405.21
3/4		3/4		3/4		3/4	4,537.44	3/4	4,207.12	3/4	3,853.18	3/4	3,489.29	3/4	3,125.41	3/4	2,761.52	3/4	2,397.63

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN WITH "HERMETIC" CLOSED GAUGING DEVICE.
 GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 52'-08" FORWARD OF AFT BULKHEAD.

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



BARGE "KIRBY 28162"

2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-07 1/2"

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	2,390.05	0	2,026.16	0	1,662.26	0	1,302.24	0	951.41	0	591.21	0	227.27	0		0		0	
1/4	2,382.47	1/4	2,018.58	1/4	1,654.68	1/4	1,294.66	1/4	944.15	1/4	583.63	1/4	219.69	1/4		1/4		1/4	
1/2	2,374.89	1/2	2,010.99	1/2	1,647.10	1/2	1,287.08	1/2	936.90	1/2	576.04	1/2	212.11	1/2		1/2		1/2	
3/4	2,367.31	3/4	2,003.41	3/4	1,639.52	3/4	1,279.50	3/4	929.63	3/4	568.46	3/4	204.53	3/4		3/4		3/4	
1	2,359.72	1	1,995.83	1	1,631.93	1	1,271.91	1	922.37	1	560.88	1	196.95	1		1		1	
1/4	2,352.14	1/4	1,988.25	1/4	1,624.35	1/4	1,264.33	1/4	915.10	1/4	553.30	1/4	189.37	1/4		1/4		1/4	
1/2	2,344.56	1/2	1,980.67	1/2	1,616.77	1/2	1,256.75	1/2	907.83	1/2	545.72	1/2	181.79	1/2		1/2		1/2	
3/4	2,336.98	3/4	1,973.09	3/4	1,609.19	3/4	1,249.32	3/4	900.55	3/4	538.13	3/4	174.22	3/4		3/4		3/4	
2	2,329.40	2	1,965.51	2	1,601.61	2	1,241.89	2	893.27	2	530.55	2	166.65	2		2		2	
1/4	2,321.82	1/4	1,957.93	1/4	1,594.03	1/4	1,234.46	1/4	885.99	1/4	522.97	1/4	159.07	1/4		1/4		1/4	
1/2	2,314.24	1/2	1,950.35	1/2	1,586.45	1/2	1,227.03	1/2	878.71	1/2	515.39	1/2	151.50	1/2		1/2		1/2	
3/4	2,306.66	3/4	1,942.76	3/4	1,578.87	3/4	1,219.76	3/4	871.28	3/4	507.81	3/4	143.94	3/4		3/4		3/4	
3	2,299.08	3	1,935.18	3	1,571.29	3	1,212.49	3	863.85	3	500.22	3	136.38	3		3		3	
1/4	2,291.50	1/4	1,927.60	1/4	1,563.70	1/4	1,205.22	1/4	856.42	1/4	492.64	1/4	128.82	1/4		1/4		1/4	
1/2	2,283.91	1/2	1,920.02	1/2	1,556.12	1/2	1,197.96	1/2	848.99	1/2	485.06	1/2	121.26	1/2		1/2		1/2	
3/4	2,276.33	3/4	1,912.44	3/4	1,548.62	3/4	1,190.70	3/4	841.41	3/4	477.48	3/4	113.72	3/4		3/4		3/4	
4	2,268.75	4	1,904.86	4	1,541.12	4	1,183.45	4	833.83	4	469.90	4	106.18	4		4		4	
1/4	2,261.17	1/4	1,897.28	1/4	1,533.62	1/4	1,176.20	1/4	826.24	1/4	462.31	1/4	98.64	1/4		1/4		1/4	
1/2	2,253.59	1/2	1,889.70	1/2	1,526.12	1/2	1,168.94	1/2	818.66	1/2	454.73	1/2	91.10	1/2		1/2		1/2	
3/4	2,246.01	3/4	1,882.11	3/4	1,518.70	3/4	1,161.69	3/4	811.08	3/4	447.15	3/4	83.59	3/4		3/4		3/4	
5	2,238.43	5	1,874.53	5	1,511.28	5	1,154.44	5	803.50	5	439.57	5	76.08	5		5		5	
1/4	2,230.85	1/4	1,866.95	1/4	1,503.86	1/4	1,147.19	1/4	795.92	1/4	431.99	1/4	68.58	1/4		1/4		1/4	
1/2	2,223.27	1/2	1,859.37	1/2	1,496.45	1/2	1,139.94	1/2	788.34	1/2	424.40	1/2	61.07	1/2		1/2		1/2	
3/4	2,215.69	3/4	1,851.79	3/4	1,489.03	3/4	1,132.69	3/4	780.75	3/4	416.82	3/4	54.17	3/4		3/4		3/4	
6	2,208.10	6	1,844.21	6	1,481.61	6	1,125.44	6	773.17	6	409.24	6	47.27	6		6		6	
1/4	2,200.52	1/4	1,836.63	1/4	1,474.19	1/4	1,118.19	1/4	765.59	1/4	401.66	1/4	40.37	1/4		1/4		1/4	
1/2	2,192.94	1/2	1,829.05	1/2	1,466.77	1/2	1,110.94	1/2	758.01	1/2	394.08	1/2	33.47	1/2		1/2		1/2	
3/4	2,185.36	3/4	1,821.46	3/4	1,459.35	3/4	1,103.68	3/4	750.43	3/4	386.49	3/4	28.42	3/4		3/4		3/4	
7	2,177.78	7	1,813.88	7	1,451.93	7	1,096.43	7	742.85	7	378.91	7	23.37	7		7		7	
1/4	2,170.20	1/4	1,806.30	1/4	1,444.51	1/4	1,089.18	1/4	735.26	1/4	371.33	1/4	18.31	1/4		1/4		1/4	
1/2	2,162.62	1/2	1,798.72	1/2	1,437.09	1/2	1,081.93	1/2	727.68	1/2	363.75	1/2	13.26	1/2		1/2		1/2	
3/4	2,155.04	3/4	1,791.14	3/4	1,429.67	3/4	1,074.68	3/4	720.10	3/4	356.17	3/4		3/4		3/4		3/4	
8	2,147.46	8	1,783.56	8	1,422.25	8	1,067.43	8	712.52	8	348.58	8		8		8		8	
1/4	2,139.88	1/4	1,775.98	1/4	1,414.84	1/4	1,060.18	1/4	704.94	1/4	341.00	1/4		1/4		1/4		1/4	
1/2	2,132.29	1/2	1,768.40	1/2	1,407.42	1/2	1,052.93	1/2	697.36	1/2	333.42	1/2		1/2		1/2		1/2	
3/4	2,124.71	3/4	1,760.82	3/4	1,400.00	3/4	1,045.68	3/4	689.77	3/4	325.84	3/4		3/4		3/4		3/4	
9	2,117.13	9	1,753.23	9	1,392.58	9	1,038.42	9	682.19	9	318.26	9		9		9		9	
1/4	2,109.55	1/4	1,745.65	1/4	1,385.16	1/4	1,031.17	1/4	674.61	1/4	310.67	1/4		1/4		1/4		1/4	
1/2	2,101.97	1/2	1,738.07	1/2	1,377.74	1/2	1,023.92	1/2	667.03	1/2	303.09	1/2		1/2		1/2		1/2	
3/4	2,094.39	3/4	1,730.49	3/4	1,370.24	3/4	1,016.67	3/4	659.45	3/4	295.51	3/4		3/4		3/4		3/4	
10	2,086.81	10	1,722.91	10	1,362.73	10	1,009.42	10	651.86	10	287.93	10		10		10		10	
1/4	2,079.23	1/4	1,715.33	1/4	1,355.23	1/4	1,002.17	1/4	644.28	1/4	280.35	1/4		1/4		1/4		1/4	
1/2	2,071.65	1/2	1,707.75	1/2	1,347.73	1/2	994.92	1/2	636.70	1/2	272.76	1/2		1/2		1/2		1/2	
3/4	2,064.07	3/4	1,700.17	3/4	1,340.15	3/4	987.67	3/4	629.12	3/4	265.18	3/4		3/4		3/4		3/4	
11	2,056.48	11	1,692.58	11	1,332.57	11	980.42	11	621.54	11	257.60	11		11		11		11	
1/4	2,048.90	1/4	1,685.00	1/4	1,324.99	1/4	973.16	1/4	613.95	1/4	250.02	1/4		1/4		1/4		1/4	
1/2	2,041.32	1/2	1,677.42	1/2	1,317.41	1/2	965.91	1/2	606.37	1/2	242.44	1/2		1/2		1/2		1/2	
3/4	2,033.74	3/4	1,669.84	3/4	1,309.82	3/4	958.66	3/4	598.79	3/4	234.85	3/4		3/4		3/4		3/4	

STRAPPED: 03/10/2011 CL - SW
CALCULATED: 03/10/2011 CL
PRINTED: 03/10/2011 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 03/2011

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



BARGE "KIRBY 28162"

2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-07 1/2"

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	4,545.40	0	4,214.64	0	3,860.36	0	3,496.56	0	3,132.76	0	2,768.96		
1/4		1/4		1/4		1/4		1/4	4,538.76	1/4	4,207.47	1/4	3,852.78	1/4	3,488.98	1/4	3,125.18	1/4	2,761.38		
1/2		1/2		1/2		1/2		1/2	4,857.40	1/2	4,532.12	1/2	4,200.31	1/2	3,845.21	1/2	3,481.41	1/2	3,117.60	1/2	2,753.80
3/4		3/4		3/4		3/4		3/4	4,850.61	3/4	4,525.44	3/4	4,193.10	3/4	3,837.63	3/4	3,473.83	3/4	3,110.02	3/4	2,746.22
1		1		1		1		1	4,843.83	1	4,518.77	1	4,185.90	1	3,830.05	1	3,466.25	1	3,102.45	1	2,738.64
1/4		1/4		1/4		1/4		1/4	4,837.04	1/4	4,512.09	1/4	4,178.70	1/4	3,822.47	1/4	3,458.67	1/4	3,094.87	1/4	2,731.06
1/2		1/2		1/2		1/2		1/2	4,830.26	1/2	4,505.42	1/2	4,171.49	1/2	3,814.89	1/2	3,451.09	1/2	3,087.29	1/2	2,723.49
3/4		3/4		3/4		3/4		3/4	4,822.84	3/4	4,498.71	3/4	4,164.25	3/4	3,807.31	3/4	3,443.51	3/4	3,079.71	3/4	2,715.91
2		2		2		2		2	4,815.42	2	4,492.00	2	4,157.01	2	3,799.73	2	3,435.93	2	3,072.13	2	2,708.33
1/4		1/4		1/4		1/4		1/4	4,808.01	1/4	4,485.29	1/4	4,149.77	1/4	3,792.15	1/4	3,428.35	1/4	3,064.55	1/4	2,700.75
1/2		1/2		1/2		1/2		1/2	4,800.59	1/2	4,478.57	1/2	4,142.53	1/2	3,784.57	1/2	3,420.77	1/2	3,056.97	1/2	2,693.17
3/4		3/4		3/4		3/4		3/4	4,793.10	3/4	4,471.83	3/4	4,135.26	3/4	3,776.99	3/4	3,413.19	3/4	3,049.39	3/4	2,685.59
3		3		3		3		3	4,785.60	3	4,465.08	3	4,127.98	3	3,769.42	3	3,405.61	3	3,041.81	3	2,678.01
1/4		1/4		1/4		1/4		1/4	4,778.11	1/4	4,458.33	1/4	4,120.71	1/4	3,761.84	1/4	3,398.03	1/4	3,034.23	1/4	2,670.43
1/2		1/2		1/2		1/2		1/2	4,770.61	1/2	4,451.58	1/2	4,113.43	1/2	3,754.26	1/2	3,390.46	1/2	3,026.65	1/2	2,662.85
3/4		3/4		3/4		3/4		3/4	4,763.40	3/4	4,444.80	3/4	4,106.12	3/4	3,746.68	3/4	3,382.88	3/4	3,019.07	3/4	2,655.27
4		4		4		4		4	4,756.18	4	4,438.02	4	4,098.82	4	3,739.10	4	3,375.30	4	3,011.50	4	2,647.69
1/4		1/4		1/4		1/4		1/4	4,748.96	1/4	4,431.23	1/4	4,091.51	1/4	3,731.52	1/4	3,367.72	1/4	3,003.92	1/4	2,640.11
1/2		1/2		1/2		1/2		1/2	4,741.74	1/2	4,424.45	1/2	4,084.20	1/2	3,723.94	1/2	3,360.14	1/2	2,996.34	1/2	2,632.54
3/4		3/4		3/4		3/4		3/4	4,735.07	3/4	4,417.63	3/4	4,076.86	3/4	3,716.36	3/4	3,352.56	3/4	2,988.76	3/4	2,624.96
5		5		5		5		5	4,728.40	5	4,410.80	5	4,069.52	5	3,708.78	5	3,344.98	5	2,981.18	5	2,617.38
1/4		1/4		1/4		1/4		1/4	4,721.73	1/4	4,403.98	1/4	4,062.17	1/4	3,701.20	1/4	3,337.40	1/4	2,973.60	1/4	2,609.80
1/2		1/2		1/2		1/2		1/2	4,715.06	1/2	4,397.16	1/2	4,054.83	1/2	3,693.62	1/2	3,329.82	1/2	2,966.02	1/2	2,602.22
3/4		3/4		3/4		3/4		3/4	4,708.63	3/4	4,390.30	3/4	4,047.45	3/4	3,686.04	3/4	3,322.24	3/4	2,958.44	3/4	2,594.64
6		6		6		6		6	4,702.21	6	4,383.44	6	4,040.07	6	3,678.46	6	3,314.66	6	2,950.86	6	2,587.06
1/4		1/4		1/4		1/4		1/4	4,695.79	1/4	4,376.58	1/4	4,032.69	1/4	3,670.89	1/4	3,307.08	1/4	2,943.28	1/4	2,579.48
1/2		1/2		1/2		1/2		1/2	4,689.37	1/2	4,369.73	1/2	4,025.31	1/2	3,663.31	1/2	3,299.50	1/2	2,935.70	1/2	2,571.90
3/4		3/4		3/4		3/4		3/4	4,682.91	3/4	4,362.81	3/4	4,017.90	3/4	3,655.73	3/4	3,291.93	3/4	2,928.12	3/4	2,564.32
7		7		7		7		7	4,676.45	7	4,355.89	7	4,010.48	7	3,648.15	7	3,284.35	7	2,920.54	7	2,556.74
1/4		1/4		1/4		1/4		1/4	4,669.99	1/4	4,348.97	1/4	4,003.06	1/4	3,640.57	1/4	3,276.77	1/4	2,912.97	1/4	2,549.16
1/2		1/2		1/2		1/2		1/2	4,663.53	1/2	4,342.06	1/2	3,995.65	1/2	3,632.99	1/2	3,269.19	1/2	2,905.39	1/2	2,541.58
3/4		3/4		3/4		3/4		3/4	4,657.03	3/4	4,335.06	3/4	3,988.19	3/4	3,625.41	3/4	3,261.61	3/4	2,897.81	3/4	2,534.01
8		8		8		8		8	4,650.53	8	4,328.06	8	3,980.74	8	3,617.83	8	3,254.03	8	2,890.23	8	2,526.43
1/4		1/4		1/4		1/4		1/4	4,644.04	1/4	4,321.07	1/4	3,973.28	1/4	3,610.25	1/4	3,246.45	1/4	2,882.65	1/4	2,518.85
1/2		1/2		1/2		1/2		1/2	4,637.54	1/2	4,314.07	1/2	3,965.83	1/2	3,602.67	1/2	3,238.87	1/2	2,875.07	1/2	2,511.27
3/4		3/4		3/4		3/4		3/4	4,631.01	3/4	4,307.02	3/4	3,958.34	3/4	3,595.09	3/4	3,231.29	3/4	2,867.49	3/4	2,503.69
9		9		9		9		9	4,624.47	9	4,299.96	9	3,950.85	9	3,587.51	9	3,223.71	9	2,859.91	9	2,496.11
1/4		1/4		1/4		1/4		1/4	4,617.94	1/4	4,292.91	1/4	3,943.36	1/4	3,579.94	1/4	3,216.13	1/4	2,852.33	1/4	2,488.53
1/2		1/2		1/2		1/2		1/2	4,611.41	1/2	4,285.85	1/2	3,935.87	1/2	3,572.36	1/2	3,208.55	1/2	2,844.75	1/2	2,480.95
3/4		3/4		3/4		3/4		3/4	4,604.84	3/4	4,278.76	3/4	3,928.34	3/4	3,564.78	3/4	3,200.98	3/4	2,837.17	3/4	2,473.37
10		10		10		10		10	4,598.26	10	4,271.67	10	3,920.81	10	3,557.20	10	3,193.40	10	2,829.59	10	2,465.79
1/4		1/4		1/4		1/4		1/4	4,591.69	1/4	4,264.58	1/4	3,913.28	1/4	3,549.62	1/4	3,185.82	1/4	2,822.02	1/4	2,458.21
1/2		1/2		1/2		1/2		1/2	4,585.12	1/2	4,257.49	1/2	3,905.75	1/2	3,542.04	1/2	3,178.24	1/2	2,814.44	1/2	2,450.63
3/4		3/4		3/4		3/4		3/4	4,578.51	3/4	4,250.36	3/4	3,898.19	3/4	3,534.46	3/4	3,170.66	3/4	2,806.86	3/4	2,443.06
11		11		11		11		11	4,571.91	11	4,243.23	11	3,890.63	11	3,526.88	11	3,163.08	11	2,799.28	11	2,435.48
1/4		1/4		1/4		1/4		1/4	4,565.30	1/4	4,236.10	1/4	3,883.08	1/4	3,519.30	1/4	3,155.50	1/4	2,791.70	1/4	2,427.90
1/2		1/2		1/2		1/2		1/2	4,558.69	1/2	4,228.97	1/2	3,875.52	1/2	3,511.72	1/2	3,147.92	1/2	2,784.12	1/2	2,420.32
3/4		3/4		3/4		3/4		3/4	4,552.05	3/4	4,221.80	3/4	3,867.94	3/4	3,504.14	3/4	3,140.34	3/4	2,776.54	3/4	2,412.74

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 28162"

2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-07 1/2"

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	2,405.16	0	2,041.36	0	1,677.54	0	1,317.61	0	954.80	0	591.07	0	227.22	0		0		0	
1/4	2,397.58	1/4	2,033.78	1/4	1,669.96	1/4	1,310.03	1/4	947.25	1/4	583.49	1/4	219.64	1/4		1/4		1/4	
1/2	2,390.00	1/2	2,026.20	1/2	1,662.38	1/2	1,302.45	1/2	939.69	1/2	575.91	1/2	212.06	1/2		1/2		1/2	
3/4	2,382.42	3/4	2,018.62	3/4	1,654.81	3/4	1,294.87	3/4	932.13	3/4	568.33	3/4	204.48	3/4		3/4		3/4	
1	2,374.84	1	2,011.04	1	1,647.23	1	1,287.29	1	924.56	1	560.75	1	196.90	1		1		1	
1/4	2,367.26	1/4	2,003.46	1/4	1,639.65	1/4	1,279.71	1/4	916.99	1/4	553.17	1/4	189.33	1/4		1/4		1/4	
1/2	2,359.68	1/2	1,995.88	1/2	1,632.07	1/2	1,272.13	1/2	909.42	1/2	545.59	1/2	181.75	1/2		1/2		1/2	
3/4	2,352.10	3/4	1,988.30	3/4	1,624.49	3/4	1,264.55	3/4	901.84	3/4	538.01	3/4	174.18	3/4		3/4		3/4	
2	2,344.53	2	1,980.72	2	1,616.91	2	1,256.97	2	894.26	2	530.43	2	166.61	2		2		2	
1/4	2,336.95	1/4	1,973.14	1/4	1,609.33	1/4	1,249.39	1/4	886.68	1/4	522.85	1/4	159.04	1/4		1/4		1/4	
1/2	2,329.37	1/2	1,965.56	1/2	1,601.75	1/2	1,241.81	1/2	879.10	1/2	515.27	1/2	151.47	1/2		1/2		1/2	
3/4	2,321.79	3/4	1,957.98	3/4	1,594.17	3/4	1,234.24	3/4	871.52	3/4	507.69	3/4	143.91	3/4		3/4		3/4	
3	2,314.21	3	1,950.40	3	1,586.59	3	1,226.68	3	863.94	3	500.11	3	136.35	3		3		3	
1/4	2,306.63	1/4	1,942.82	1/4	1,579.01	1/4	1,219.11	1/4	856.36	1/4	492.53	1/4	128.79	1/4		1/4		1/4	
1/2	2,299.05	1/2	1,935.24	1/2	1,571.43	1/2	1,211.54	1/2	848.78	1/2	484.94	1/2	121.23	1/2		1/2		1/2	
3/4	2,291.47	3/4	1,927.66	3/4	1,563.93	3/4	1,203.99	3/4	841.21	3/4	477.36	3/4	113.69	3/4		3/4		3/4	
4	2,283.89	4	1,920.08	4	1,556.44	4	1,196.44	4	833.63	4	469.78	4	106.15	4		4		4	
1/4	2,276.31	1/4	1,912.51	1/4	1,548.94	1/4	1,188.88	1/4	826.05	1/4	462.20	1/4	98.62	1/4		1/4		1/4	
1/2	2,268.73	1/2	1,904.93	1/2	1,541.44	1/2	1,181.33	1/2	818.47	1/2	454.62	1/2	91.08	1/2		1/2		1/2	
3/4	2,261.15	3/4	1,897.35	3/4	1,534.02	3/4	1,173.78	3/4	810.89	3/4	447.04	3/4	83.57	3/4		3/4		3/4	
5	2,253.58	5	1,889.77	5	1,526.60	5	1,166.23	5	803.31	5	439.46	5	76.07	5		5		5	
1/4	2,246.00	1/4	1,882.19	1/4	1,519.19	1/4	1,158.68	1/4	795.73	1/4	431.88	1/4	68.56	1/4		1/4		1/4	
1/2	2,238.42	1/2	1,874.61	1/2	1,511.77	1/2	1,151.13	1/2	788.15	1/2	424.30	1/2	61.06	1/2		1/2		1/2	
3/4	2,230.84	3/4	1,867.03	3/4	1,504.35	3/4	1,143.58	3/4	780.57	3/4	416.72	3/4	54.16	3/4		3/4		3/4	
6	2,223.26	6	1,859.45	6	1,496.93	6	1,136.03	6	772.99	6	409.14	6	47.26	6		6		6	
1/4	2,215.68	1/4	1,851.87	1/4	1,489.52	1/4	1,128.47	1/4	765.41	1/4	401.56	1/4	40.36	1/4		1/4		1/4	
1/2	2,208.10	1/2	1,844.29	1/2	1,482.10	1/2	1,120.92	1/2	757.83	1/2	393.98	1/2	33.46	1/2		1/2		1/2	
3/4	2,200.52	3/4	1,836.71	3/4	1,474.68	3/4	1,113.37	3/4	750.25	3/4	386.40	3/4	28.41	3/4		3/4		3/4	
7	2,192.94	7	1,829.13	7	1,467.27	7	1,105.82	7	742.67	7	378.82	7	23.36	7		7		7	
1/4	2,185.36	1/4	1,821.55	1/4	1,459.85	1/4	1,098.27	1/4	735.09	1/4	371.24	1/4	18.31	1/4		1/4		1/4	
1/2	2,177.78	1/2	1,813.97	1/2	1,452.43	1/2	1,090.72	1/2	727.51	1/2	363.66	1/2	13.26	1/2		1/2		1/2	
3/4	2,170.20	3/4	1,806.39	3/4	1,445.01	3/4	1,083.17	3/4	719.93	3/4	356.08	3/4		3/4		3/4		3/4	
8	2,162.62	8	1,798.81	8	1,437.60	8	1,075.62	8	712.35	8	348.50	8		8		8		8	
1/4	2,155.05	1/4	1,791.23	1/4	1,430.18	1/4	1,068.07	1/4	704.77	1/4	340.92	1/4		1/4		1/4		1/4	
1/2	2,147.47	1/2	1,783.66	1/2	1,422.76	1/2	1,060.52	1/2	697.19	1/2	333.34	1/2		1/2		1/2		1/2	
3/4	2,139.89	3/4	1,776.08	3/4	1,415.34	3/4	1,052.97	3/4	689.61	3/4	325.76	3/4		3/4		3/4		3/4	
9	2,132.31	9	1,768.50	9	1,407.92	9	1,045.41	9	682.03	9	318.18	9		9		9		9	
1/4	2,124.73	1/4	1,760.92	1/4	1,400.51	1/4	1,037.86	1/4	674.45	1/4	310.60	1/4		1/4		1/4		1/4	
1/2	2,117.15	1/2	1,753.34	1/2	1,393.09	1/2	1,030.31	1/2	666.87	1/2	303.02	1/2		1/2		1/2		1/2	
3/4	2,109.57	3/4	1,745.76	3/4	1,385.59	3/4	1,022.76	3/4	659.29	3/4	295.44	3/4		3/4		3/4		3/4	
10	2,101.99	10	1,738.18	10	1,378.09	10	1,015.21	10	651.71	10	287.86	10		10		10		10	
1/4	2,094.41	1/4	1,730.60	1/4	1,370.59	1/4	1,007.66	1/4	644.13	1/4	280.28	1/4		1/4		1/4		1/4	
1/2	2,086.83	1/2	1,723.02	1/2	1,363.09	1/2	1,000.11	1/2	636.55	1/2	272.70	1/2		1/2		1/2		1/2	
3/4	2,079.25	3/4	1,715.44	3/4	1,355.51	3/4	992.56	3/4	628.97	3/4	265.12	3/4		3/4		3/4		3/4	
11	2,071.67	11	1,707.86	11	1,347.93	11	985.01	11	621.39	11	257.54	11		11		11		11	
1/4	2,064.10	1/4	1,700.28	1/4	1,340.35	1/4	977.46	1/4	613.81	1/4	249.96	1/4		1/4		1/4		1/4	
1/2	2,056.52	1/2	1,692.70	1/2	1,332.77	1/2	969.91	1/2	606.23	1/2	242.38	1/2		1/2		1/2		1/2	
3/4	2,048.94	3/4	1,685.12	3/4	1,325.19	3/4	962.35	3/4	598.65	3/4	234.80	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 03/10/2011 CL - SW
CALCULATED: 03/10/2011 CL
PRINTED: 03/10/2011 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 28162"

3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-05 1/2"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.			
IN		IN		IN		IN		IN		IN		IN		IN		IN		IN		IN	
0		0		0		0	4,460.72	0	4,205.84	0	3,944.72	0	3,669.80	0	3,388.00	0	3,025.70	0	2,662.12		
1/4	1/4		1/4		1/4		4,455.99		4,200.55		3,939.11		3,663.97		3,381.29		3,018.13		2,654.54		
1/2	1/2		1/2		1/2		4,451.26		4,195.26		3,933.50		3,658.14		3,374.57		3,010.55		2,646.97		
3/4	3/4		3/4		3/4		4,446.22		4,189.95		3,927.86		3,652.30		3,366.98		3,002.98		2,639.40		
1		1		1		1	4,441.19	1	4,184.64	1	3,922.23	1	3,646.47	1	3,359.38	1	2,995.40	1	2,631.82		
1/4	1/4		1/4		1/4		4,436.15		4,179.33		3,916.60		3,640.63		3,351.79		2,987.83		2,624.25		
1/2	1/2		1/2		1/2		4,431.11		4,174.02		3,910.97		3,634.80		3,344.19		2,980.25		2,616.67		
3/4	3/4		3/4		3/4		4,425.44		4,168.69		3,905.32		3,628.96		3,336.60		2,972.68		2,609.10		
2		2		2		2	4,419.77	2	4,163.36	2	3,899.66	2	3,623.13	2	3,329.00	2	2,965.10	2	2,601.52		
1/4	1/4		1/4		1/4		4,414.10		4,158.04		3,894.01		3,617.30		3,321.41		2,957.53		2,593.95		
1/2	1/2		1/2		1/2		4,408.43		4,152.71		3,888.36		3,611.46		3,313.82		2,949.95		2,586.37		
3/4	3/4		3/4		3/4		4,402.68		4,147.36		3,882.69		3,605.63		3,306.22		2,942.38		2,578.80		
3		3		3		3	4,396.93	3	4,142.01	3	3,877.02	3	3,599.79	3	3,298.63	3	2,934.80	3	2,571.22		
1/4	1/4		1/4		1/4		4,391.18		4,136.66		3,871.35		3,593.96		3,291.03		2,927.23		2,563.65		
1/2	1/2		1/2		1/2		4,385.43		4,131.31		3,865.68		3,588.13		3,283.44		2,919.66		2,556.07		
3/4	3/4		3/4		3/4		4,379.83		4,125.95		3,859.99		3,582.29		3,275.84		2,912.08		2,548.50		
4		4		4		4	4,374.23	4	4,120.58	4	3,854.30	4	3,576.46	4	3,268.25	4	2,904.51	4	2,540.93		
1/4	1/4		1/4		1/4		4,368.63		4,115.21		3,848.61		3,570.62		3,260.65		2,896.93		2,533.35		
1/2	1/2		1/2		1/2		4,363.02		4,109.84		3,842.92		3,564.79		3,253.06		2,889.36		2,525.78		
3/4	3/4		3/4		3/4		4,357.72		4,104.45		3,837.22		3,558.95		3,245.46		2,881.78		2,518.20		
5		5		5		5	4,352.41	5	4,099.06	5	3,831.51	5	3,553.12	5	3,237.87	5	2,874.21	5	2,510.63		
1/4	1/4		1/4		1/4		4,347.10		4,093.68		3,825.80		3,547.29		3,230.28		2,866.63		2,503.05		
1/2	1/2		1/2		1/2		4,341.79		4,088.29		3,820.09		3,541.45		3,222.68		2,859.06		2,495.48		
3/4	3/4		3/4		3/4		4,336.62		4,082.88		3,814.37		3,535.62		3,215.10		2,851.48		2,487.90		
6		6		6		6	4,331.45	6	4,077.47	6	3,808.64	6	3,529.78	6	3,207.51	6	2,843.91	6	2,480.33		
1/4	1/4		1/4		1/4		4,326.27		4,072.06		3,802.91		3,523.95		3,199.93		2,836.34		2,472.75		
1/2	1/2		1/2		1/2		4,321.10		4,066.66		3,797.19		3,518.11		3,192.34		2,828.76		2,465.18		
3/4	3/4		3/4		3/4		4,315.90		4,061.21		3,791.44		3,512.28		3,184.77		2,821.19		2,457.61		
7		7		7		7	4,310.71	7	4,055.76	7	3,785.69	7	3,506.45	7	3,177.19	7	2,813.61	7	2,450.03		
1/4	1/4		1/4		1/4		4,305.52		4,050.31		3,779.95		3,500.61		3,169.62		2,806.04		2,442.46		
1/2	1/2		1/2		1/2		4,300.32		4,044.86		3,774.20		3,494.78		3,162.04		2,798.46		2,434.88		
3/4	3/4		3/4		3/4		4,295.11		4,039.35		3,768.43		3,488.94		3,154.47		2,790.89		2,427.31		
8		8		8		8	4,289.90	8	4,033.84	8	3,762.67	8	3,483.11	8	3,146.89	8	2,783.31	8	2,419.73		
1/4	1/4		1/4		1/4		4,284.68		4,028.33		3,756.90		3,477.28		3,139.32		2,775.74		2,412.16		
1/2	1/2		1/2		1/2		4,279.47		4,022.81		3,751.13		3,471.44		3,131.74		2,768.16		2,404.58		
3/4	3/4		3/4		3/4		4,274.24		4,017.26		3,745.35		3,465.61		3,124.17		2,760.59		2,397.01		
9		9		9		9	4,269.00	9	4,011.71	9	3,739.56	9	3,459.77	9	3,116.60	9	2,753.01	9	2,389.43		
1/4	1/4		1/4		1/4		4,263.77		4,006.16		3,733.77		3,453.94		3,109.02		2,745.44		2,381.86		
1/2	1/2		1/2		1/2		4,258.54		4,000.60		3,727.98		3,448.10		3,101.45		2,737.87		2,374.28		
3/4	3/4		3/4		3/4		4,253.28		3,995.03		3,722.18		3,442.27		3,093.87		2,730.29		2,366.71		
10		10		10		10	4,248.03	10	3,989.46	10	3,716.37	10	3,436.44	10	3,086.30	10	2,722.72	10	2,359.14		
1/4	1/4		1/4		1/4		4,242.77		3,983.89		3,710.56		3,430.60		3,078.72		2,715.14		2,351.56		
1/2	1/2		1/2		1/2		4,237.52		3,978.31		3,704.76		3,424.77		3,071.15		2,707.57		2,343.99		
3/4	3/4		3/4		3/4		4,232.25		3,972.72		3,698.93		3,418.93		3,063.57		2,699.99		2,336.41		
11		11		11		11	4,226.97	11	3,967.13	11	3,693.11	11	3,413.10	11	3,056.00	11	2,692.42	11	2,328.84		
1/4	1/4		1/4		1/4		4,221.70		3,961.54		3,687.29		3,407.27		3,048.42		2,684.84		2,321.26		
1/2	1/2		1/2		1/2		4,216.43		3,955.95		3,681.46		3,401.43		3,040.85		2,677.27		2,313.69		
3/4	3/4		3/4		3/4		4,211.14		3,950.33		3,675.63		3,394.72		3,033.27		2,669.69		2,306.11		

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 28162"

3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-05 1/2"

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	2,298.54	0	1,934.96	0	1,571.46	0	1,212.39	0	858.12	0	501.22	0	137.27	0		0		0	
1/4	2,290.96	1/4	1,927.38	1/4	1,563.91	1/4	1,204.84	1/4	850.77	1/4	493.63	1/4	129.99	1/4		1/4		1/4	
1/2	2,283.39	1/2	1,919.81	1/2	1,556.36	1/2	1,197.28	1/2	843.41	1/2	486.03	1/2	122.71	1/2		1/2		1/2	
3/4	2,275.81	3/4	1,912.23	3/4	1,548.81	3/4	1,189.72	3/4	836.04	3/4	478.44	3/4	116.38	3/4		3/4		3/4	
1	2,268.24	1	1,904.66	1	1,541.25	1	1,182.16	1	828.66	1	470.84	1	110.05	1		1		1	
1/4	2,260.67	1/4	1,897.08	1/4	1,533.70	1/4	1,174.60	1/4	821.29	1/4	463.25	1/4	103.72	1/4		1/4		1/4	
1/2	2,253.09	1/2	1,889.51	1/2	1,526.15	1/2	1,167.04	1/2	813.92	1/2	455.65	1/2	97.40	1/2		1/2		1/2	
3/4	2,245.52	3/4	1,881.93	3/4	1,518.60	3/4	1,159.58	3/4	806.53	3/4	448.05	3/4	92.34	3/4		3/4		3/4	
2	2,237.94	2	1,874.36	2	1,511.05	2	1,152.13	2	799.15	2	440.46	2	87.28	2		2		2	
1/4	2,230.37	1/4	1,866.78	1/4	1,503.50	1/4	1,144.67	1/4	791.76	1/4	432.86	1/4	82.22	1/4		1/4		1/4	
1/2	2,222.79	1/2	1,859.21	1/2	1,495.95	1/2	1,137.22	1/2	784.38	1/2	425.27	1/2	77.17	1/2		1/2		1/2	
3/4	2,215.22	3/4	1,851.63	3/4	1,488.40	3/4	1,129.87	3/4	776.99	3/4	417.67	3/4	73.39	3/4		3/4		3/4	
3	2,207.64	3	1,844.06	3	1,480.84	3	1,122.53	3	769.61	3	410.08	3	69.61	3		3		3	
1/4	2,200.07	1/4	1,836.48	1/4	1,473.29	1/4	1,115.18	1/4	762.22	1/4	402.48	1/4	65.83	1/4		1/4		1/4	
1/2	2,192.49	1/2	1,828.91	1/2	1,465.74	1/2	1,107.84	1/2	754.84	1/2	394.88	1/2	62.05	1/2		1/2		1/2	
3/4	2,184.92	3/4	1,821.33	3/4	1,458.27	3/4	1,100.50	3/4	747.45	3/4	387.29	3/4	59.55	3/4		3/4		3/4	
4	2,177.34	4	1,813.76	4	1,450.80	4	1,093.16	4	740.07	4	379.69	4	57.05	4		4		4	
1/4	2,169.77	1/4	1,806.18	1/4	1,443.33	1/4	1,085.82	1/4	732.68	1/4	372.10	1/4	54.56	1/4		1/4		1/4	
1/2	2,162.20	1/2	1,798.61	1/2	1,435.86	1/2	1,078.48	1/2	725.30	1/2	364.50	1/2	52.06	1/2		1/2		1/2	
3/4	2,154.62	3/4	1,791.04	3/4	1,428.46	3/4	1,071.14	3/4	717.92	3/4	356.91	3/4	50.86	3/4		3/4		3/4	
5	2,147.05	5	1,783.46	5	1,421.06	5	1,063.80	5	710.53	5	349.31	5	49.67	5		5		5	
1/4	2,139.47	1/4	1,775.89	1/4	1,413.66	1/4	1,056.47	1/4	703.15	1/4	341.72	1/4	48.47	1/4		1/4		1/4	
1/2	2,131.90	1/2	1,768.31	1/2	1,406.25	1/2	1,049.13	1/2	695.76	1/2	334.12	1/2	47.27	1/2		1/2		1/2	
3/4	2,124.32	3/4	1,760.74	3/4	1,398.84	3/4	1,041.79	3/4	688.38	3/4	326.52	3/4		3/4		3/4		3/4	
6	2,116.75	6	1,753.16	6	1,391.43	6	1,034.45	6	680.99	6	318.93	6		6		6		6	
1/4	2,109.17	1/4	1,745.59	1/4	1,384.01	1/4	1,027.12	1/4	673.61	1/4	311.33	1/4		1/4		1/4		1/4	
1/2	2,101.60	1/2	1,738.01	1/2	1,376.60	1/2	1,019.78	1/2	666.22	1/2	303.74	1/2		1/2		1/2		1/2	
3/4	2,094.02	3/4	1,730.44	3/4	1,369.19	3/4	1,012.44	3/4	658.84	3/4	296.14	3/4		3/4		3/4		3/4	
7	2,086.45	7	1,722.86	7	1,361.77	7	1,005.10	7	651.45	7	288.55	7		7		7		7	
1/4	2,078.88	1/4	1,715.29	1/4	1,354.36	1/4	997.76	1/4	644.07	1/4	280.95	1/4		1/4		1/4		1/4	
1/2	2,071.30	1/2	1,707.71	1/2	1,346.94	1/2	990.43	1/2	636.68	1/2	273.36	1/2		1/2		1/2		1/2	
3/4	2,063.73	3/4	1,700.14	3/4	1,339.53	3/4	983.09	3/4	629.30	3/4	265.76	3/4		3/4		3/4		3/4	
8	2,056.15	8	1,692.56	8	1,332.12	8	975.75	8	621.91	8	258.16	8		8		8		8	
1/4	2,048.58	1/4	1,684.99	1/4	1,324.70	1/4	968.41	1/4	614.53	1/4	250.57	1/4		1/4		1/4		1/4	
1/2	2,041.00	1/2	1,677.41	1/2	1,317.29	1/2	961.08	1/2	607.14	1/2	242.97	1/2		1/2		1/2		1/2	
3/4	2,033.43	3/4	1,669.84	3/4	1,309.88	3/4	953.73	3/4	599.65	3/4	235.38	3/4		3/4		3/4		3/4	
9	2,025.85	9	1,662.26	9	1,302.48	9	946.38	9	592.16	9	227.78	9		9		9		9	
1/4	2,018.28	1/4	1,654.69	1/4	1,295.07	1/4	939.03	1/4	584.67	1/4	220.19	1/4		1/4		1/4		1/4	
1/2	2,010.70	1/2	1,647.11	1/2	1,287.66	1/2	931.69	1/2	577.18	1/2	212.59	1/2		1/2		1/2		1/2	
3/4	2,003.13	3/4	1,639.54	3/4	1,280.19	3/4	924.33	3/4	569.58	3/4	204.99	3/4		3/4		3/4		3/4	
10	1,995.55	10	1,631.96	10	1,272.71	10	916.98	10	561.99	10	197.40	10		10		10		10	
1/4	1,987.98	1/4	1,624.39	1/4	1,265.23	1/4	909.62	1/4	554.39	1/4	189.80	1/4		1/4		1/4		1/4	
1/2	1,980.41	1/2	1,616.81	1/2	1,257.75	1/2	902.26	1/2	546.80	1/2	182.21	1/2		1/2		1/2		1/2	
3/4	1,972.83	3/4	1,609.25	3/4	1,250.19	3/4	894.91	3/4	539.20	3/4	174.61	3/4		3/4		3/4		3/4	
11	1,965.26	11	1,601.69	11	1,242.63	11	887.55	11	531.61	11	167.02	11		11		11		11	
1/4	1,957.68	1/4	1,594.13	1/4	1,235.07	1/4	880.20	1/4	524.01	1/4	159.42	1/4		1/4		1/4		1/4	
1/2	1,950.11	1/2	1,586.56	1/2	1,227.51	1/2	872.84	1/2	516.41	1/2	151.83	1/2		1/2		1/2		1/2	
3/4	1,942.53	3/4	1,579.01	3/4	1,219.95	3/4	865.48	3/4	508.82	3/4	144.55	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 03/10/2011 CL - SW
CALCULATED: 03/10/2011 CL
PRINTED: 03/10/2011 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 28162"

3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-05 1/2"

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	4,486.27	0	4,231.24	0	3,969.96	0	3,694.88	0	3,412.91	0	3,049.91	0	2,685.15
1/4		1/4		1/4		1/4	4,481.54	1/4	4,225.95	1/4	3,964.35	1/4	3,689.04	1/4	3,406.19	1/4	3,042.31	1/4	2,677.55
1/2		1/2		1/2		1/2	4,476.81	1/2	4,220.65	1/2	3,958.73	1/2	3,683.21	1/2	3,399.47	1/2	3,034.71	1/2	2,669.95
3/4		3/4		3/4		3/4	4,471.77	3/4	4,215.34	3/4	3,953.10	3/4	3,677.37	3/4	3,391.87	3/4	3,027.11	3/4	2,662.35
1		1		1		1	4,466.72	1	4,210.02	1	3,947.46	1	3,671.53	1	3,384.27	1	3,019.51	1	2,654.75
1/4		1/4		1/4		1/4	4,461.68	1/4	4,204.71	1/4	3,941.83	1/4	3,665.69	1/4	3,376.67	1/4	3,011.91	1/4	2,647.16
1/2		1/2		1/2		1/2	4,456.64	1/2	4,199.40	1/2	3,936.19	1/2	3,659.86	1/2	3,369.07	1/2	3,004.31	1/2	2,639.56
3/4		3/4		3/4		3/4	4,450.97	3/4	4,194.07	3/4	3,930.53	3/4	3,654.02	3/4	3,361.47	3/4	2,996.71	3/4	2,631.96
2		2		2		2	4,445.29	2	4,188.74	2	3,924.88	2	3,648.18	2	3,353.87	2	2,989.11	2	2,624.36
1/4		1/4		1/4		1/4	4,439.62	1/4	4,183.40	1/4	3,919.22	1/4	3,642.34	1/4	3,346.27	1/4	2,981.52	1/4	2,616.76
1/2		1/2		1/2		1/2	4,433.94	1/2	4,178.07	1/2	3,913.57	1/2	3,636.51	1/2	3,338.67	1/2	2,973.92	1/2	2,609.16
3/4		3/4		3/4		3/4	4,428.19	3/4	4,172.72	3/4	3,907.89	3/4	3,630.67	3/4	3,331.07	3/4	2,966.32	3/4	2,601.56
3		3		3		3	4,422.44	3	4,167.37	3	3,902.22	3	3,624.83	3	3,323.48	3	2,958.72	3	2,593.96
1/4		1/4		1/4		1/4	4,416.68	1/4	4,162.02	1/4	3,896.55	1/4	3,618.99	1/4	3,315.88	1/4	2,951.12	1/4	2,586.36
1/2		1/2		1/2		1/2	4,410.93	1/2	4,156.67	1/2	3,890.87	1/2	3,613.16	1/2	3,308.28	1/2	2,943.52	1/2	2,578.76
3/4		3/4		3/4		3/4	4,405.33	3/4	4,151.30	3/4	3,885.18	3/4	3,607.32	3/4	3,300.68	3/4	2,935.92	3/4	2,571.16
4		4		4		4	4,399.72	4	4,145.92	4	3,879.49	4	3,601.48	4	3,293.08	4	2,928.32	4	2,563.57
1/4		1/4		1/4		1/4	4,394.12	1/4	4,140.55	1/4	3,873.80	1/4	3,595.64	1/4	3,285.48	1/4	2,920.72	1/4	2,555.97
1/2		1/2		1/2		1/2	4,388.52	1/2	4,135.18	1/2	3,868.10	1/2	3,589.80	1/2	3,277.88	1/2	2,913.12	1/2	2,548.37
3/4		3/4		3/4		3/4	4,383.20	3/4	4,129.79	3/4	3,862.39	3/4	3,583.97	3/4	3,270.28	3/4	2,905.52	3/4	2,540.77
5		5		5		5	4,377.89	5	4,124.40	5	3,856.68	5	3,578.13	5	3,262.68	5	2,897.93	5	2,533.17
1/4		1/4		1/4		1/4	4,372.58	1/4	4,119.01	1/4	3,850.97	1/4	3,572.29	1/4	3,255.08	1/4	2,890.33	1/4	2,525.57
1/2		1/2		1/2		1/2	4,367.27	1/2	4,113.62	1/2	3,845.26	1/2	3,566.45	1/2	3,247.48	1/2	2,882.73	1/2	2,517.97
3/4		3/4		3/4		3/4	4,362.10	3/4	4,108.20	3/4	3,839.53	3/4	3,560.62	3/4	3,239.89	3/4	2,875.13	3/4	2,510.37
6		6		6		6	4,356.92	6	4,102.79	6	3,833.80	6	3,554.78	6	3,232.29	6	2,867.53	6	2,502.77
1/4		1/4		1/4		1/4	4,351.74	1/4	4,097.38	1/4	3,828.07	1/4	3,548.94	1/4	3,224.69	1/4	2,859.93	1/4	2,495.17
1/2		1/2		1/2		1/2	4,346.56	1/2	4,091.97	1/2	3,822.34	1/2	3,543.10	1/2	3,217.09	1/2	2,852.33	1/2	2,487.57
3/4		3/4		3/4		3/4	4,341.37	3/4	4,086.52	3/4	3,816.59	3/4	3,537.27	3/4	3,209.49	3/4	2,844.73	3/4	2,479.98
7		7		7		7	4,336.17	7	4,081.07	7	3,810.84	7	3,531.43	7	3,201.89	7	2,837.13	7	2,472.38
1/4		1/4		1/4		1/4	4,330.97	1/4	4,075.61	1/4	3,805.09	1/4	3,525.59	1/4	3,194.29	1/4	2,829.53	1/4	2,464.78
1/2		1/2		1/2		1/2	4,325.78	1/2	4,070.16	1/2	3,799.34	1/2	3,519.75	1/2	3,186.69	1/2	2,821.93	1/2	2,457.18
3/4		3/4		3/4		3/4	4,320.56	3/4	4,064.65	3/4	3,793.57	3/4	3,513.91	3/4	3,179.09	3/4	2,814.34	3/4	2,449.58
8		8		8		8	4,315.34	8	4,059.13	8	3,787.80	8	3,508.08	8	3,171.49	8	2,806.74	8	2,441.98
1/4		1/4		1/4		1/4	4,310.13	1/4	4,053.62	1/4	3,782.03	1/4	3,502.24	1/4	3,163.89	1/4	2,799.14	1/4	2,434.38
1/2		1/2		1/2		1/2	4,304.91	1/2	4,048.10	1/2	3,776.26	1/2	3,496.40	1/2	3,156.30	1/2	2,791.54	1/2	2,426.78
3/4		3/4		3/4		3/4	4,299.67	3/4	4,042.55	3/4	3,770.47	3/4	3,490.56	3/4	3,148.70	3/4	2,783.94	3/4	2,419.18
9		9		9		9	4,294.44	9	4,036.99	9	3,764.68	9	3,484.73	9	3,141.10	9	2,776.34	9	2,411.58
1/4		1/4		1/4		1/4	4,289.20	1/4	4,031.44	1/4	3,758.89	1/4	3,478.89	1/4	3,133.50	1/4	2,768.74	1/4	2,403.98
1/2		1/2		1/2		1/2	4,283.96	1/2	4,025.88	1/2	3,753.10	1/2	3,473.05	1/2	3,125.90	1/2	2,761.14	1/2	2,396.39
3/4		3/4		3/4		3/4	4,278.71	3/4	4,020.30	3/4	3,747.29	3/4	3,467.21	3/4	3,118.30	3/4	2,753.54	3/4	2,388.79
10		10		10		10	4,273.45	10	4,014.73	10	3,741.48	10	3,461.38	10	3,110.70	10	2,745.94	10	2,381.19
1/4		1/4		1/4		1/4	4,268.19	1/4	4,009.15	1/4	3,735.67	1/4	3,455.54	1/4	3,103.10	1/4	2,738.34	1/4	2,373.59
1/2		1/2		1/2		1/2	4,262.94	1/2	4,003.58	1/2	3,729.86	1/2	3,449.70	1/2	3,095.50	1/2	2,730.75	1/2	2,365.99
3/4		3/4		3/4		3/4	4,257.66	3/4	3,997.98	3/4	3,724.03	3/4	3,443.86	3/4	3,087.90	3/4	2,723.15	3/4	2,358.39
11		11		11		11	4,252.38	11	3,992.39	11	3,718.20	11	3,438.02	11	3,080.30	11	2,715.55	11	2,350.79
1/4		1/4		1/4		1/4	4,247.11	1/4	3,986.79	1/4	3,712.38	1/4	3,432.19	1/4	3,072.70	1/4	2,707.95	1/4	2,343.19
1/2		1/2		1/2		1/2	4,495.74	1/2	4,241.83	1/2	3,981.19	1/2	3,706.55	1/2	3,426.35	1/2	2,700.35	1/2	2,335.59
3/4		3/4		3/4		3/4	4,491.01	3/4	4,236.54	3/4	3,975.58	3/4	3,700.71	3/4	3,419.63	3/4	2,692.75	3/4	2,327.99

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 28162"

3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-05 1/2"

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	2,320.39	0	1,955.63	0	1,590.87	0	1,229.98	0	866.21	0	501.52	0	137.35	0		0		0	
1/4	2,312.79	1/4	1,948.03	1/4	1,583.27	1/4	1,222.38	1/4	858.64	1/4	493.92	1/4	130.07	1/4		1/4		1/4	
1/2	2,305.20	1/2	1,940.43	1/2	1,575.67	1/2	1,214.78	1/2	851.06	1/2	486.32	1/2	122.78	1/2		1/2		1/2	
3/4	2,297.60	3/4	1,932.83	3/4	1,568.07	3/4	1,207.18	3/4	843.48	3/4	478.72	3/4	116.45	3/4		3/4		3/4	
1	2,290.00	1	1,925.24	1	1,560.47	1	1,199.58	1	835.89	1	471.12	1	110.12	1		1		1	
1/4	2,282.40	1/4	1,917.64	1/4	1,552.87	1/4	1,191.98	1/4	828.30	1/4	463.52	1/4	103.79	1/4		1/4		1/4	
1/2	2,274.80	1/2	1,910.04	1/2	1,545.27	1/2	1,184.38	1/2	820.72	1/2	455.92	1/2	97.45	1/2		1/2		1/2	
3/4	2,267.20	3/4	1,902.44	3/4	1,537.67	3/4	1,176.78	3/4	813.12	3/4	448.32	3/4	92.39	3/4		3/4		3/4	
2	2,259.60	2	1,894.84	2	1,530.07	2	1,169.18	2	805.52	2	440.72	2	87.33	2		2		2	
1/4	2,252.00	1/4	1,887.24	1/4	1,522.47	1/4	1,161.58	1/4	797.92	1/4	433.12	1/4	82.27	1/4		1/4		1/4	
1/2	2,244.40	1/2	1,879.64	1/2	1,514.87	1/2	1,153.98	1/2	790.32	1/2	425.52	1/2	77.21	1/2		1/2		1/2	
3/4	2,236.80	3/4	1,872.04	3/4	1,507.27	3/4	1,146.39	3/4	782.72	3/4	417.92	3/4	73.43	3/4		3/4		3/4	
3	2,229.20	3	1,864.44	3	1,499.67	3	1,138.80	3	775.12	3	410.32	3	69.65	3		3		3	
1/4	2,221.61	1/4	1,856.84	1/4	1,492.08	1/4	1,131.22	1/4	767.52	1/4	402.72	1/4	65.87	1/4		1/4		1/4	
1/2	2,214.01	1/2	1,849.24	1/2	1,484.48	1/2	1,123.63	1/2	759.92	1/2	395.12	1/2	62.08	1/2		1/2		1/2	
3/4	2,206.41	3/4	1,841.64	3/4	1,476.96	3/4	1,116.06	3/4	752.32	3/4	387.52	3/4	59.59	3/4		3/4		3/4	
4	2,198.81	4	1,834.04	4	1,469.44	4	1,108.48	4	744.72	4	379.92	4	57.09	4		4		4	
1/4	2,191.21	1/4	1,826.44	1/4	1,461.92	1/4	1,100.91	1/4	737.12	1/4	372.32	1/4	54.59	1/4		1/4		1/4	
1/2	2,183.61	1/2	1,818.85	1/2	1,454.40	1/2	1,093.34	1/2	729.52	1/2	364.72	1/2	52.09	1/2		1/2		1/2	
3/4	2,176.01	3/4	1,811.25	3/4	1,446.97	3/4	1,085.77	3/4	721.92	3/4	357.12	3/4	50.89	3/4		3/4		3/4	
5	2,168.41	5	1,803.65	5	1,439.53	5	1,078.20	5	714.32	5	349.52	5	49.69	5		5		5	
1/4	2,160.81	1/4	1,796.05	1/4	1,432.09	1/4	1,070.63	1/4	706.72	1/4	341.92	1/4	48.50	1/4		1/4		1/4	
1/2	2,153.21	1/2	1,788.45	1/2	1,424.65	1/2	1,063.06	1/2	699.12	1/2	334.32	1/2	47.30	1/2		1/2		1/2	
3/4	2,145.61	3/4	1,780.85	3/4	1,417.22	3/4	1,055.48	3/4	691.52	3/4	326.72	3/4		3/4		3/4		3/4	
6	2,138.02	6	1,773.25	6	1,409.78	6	1,047.91	6	683.92	6	319.12	6		6		6		6	
1/4	2,130.42	1/4	1,765.65	1/4	1,402.34	1/4	1,040.34	1/4	676.32	1/4	311.52	1/4		1/4		1/4		1/4	
1/2	2,122.82	1/2	1,758.05	1/2	1,394.91	1/2	1,032.77	1/2	668.72	1/2	303.92	1/2		1/2		1/2		1/2	
3/4	2,115.22	3/4	1,750.45	3/4	1,387.47	3/4	1,025.20	3/4	661.12	3/4	296.32	3/4		3/4		3/4		3/4	
7	2,107.62	7	1,742.85	7	1,380.03	7	1,017.63	7	653.52	7	288.72	7		7		7		7	
1/4	2,100.02	1/4	1,735.25	1/4	1,372.59	1/4	1,010.06	1/4	645.92	1/4	281.12	1/4		1/4		1/4		1/4	
1/2	2,092.42	1/2	1,727.65	1/2	1,365.16	1/2	1,002.49	1/2	638.32	1/2	273.52	1/2		1/2		1/2		1/2	
3/4	2,084.82	3/4	1,720.05	3/4	1,357.72	3/4	994.92	3/4	630.72	3/4	265.92	3/4		3/4		3/4		3/4	
8	2,077.22	8	1,712.45	8	1,350.28	8	987.35	8	623.12	8	258.32	8		8		8		8	
1/4	2,069.62	1/4	1,704.86	1/4	1,342.84	1/4	979.78	1/4	615.52	1/4	250.72	1/4		1/4		1/4		1/4	
1/2	2,062.02	1/2	1,697.26	1/2	1,335.41	1/2	972.21	1/2	607.92	1/2	243.12	1/2		1/2		1/2		1/2	
3/4	2,054.43	3/4	1,689.66	3/4	1,327.97	3/4	964.63	3/4	600.32	3/4	235.52	3/4		3/4		3/4		3/4	
9	2,046.83	9	1,682.06	9	1,320.53	9	957.06	9	592.72	9	227.92	9		9		9		9	
1/4	2,039.23	1/4	1,674.46	1/4	1,313.09	1/4	949.49	1/4	585.12	1/4	220.32	1/4		1/4		1/4		1/4	
1/2	2,031.63	1/2	1,666.86	1/2	1,305.65	1/2	941.92	1/2	577.52	1/2	212.72	1/2		1/2		1/2		1/2	
3/4	2,024.03	3/4	1,659.26	3/4	1,298.14	3/4	934.35	3/4	569.92	3/4	205.12	3/4		3/4		3/4		3/4	
10	2,016.43	10	1,651.66	10	1,290.62	10	926.78	10	562.32	10	197.52	10		10		10		10	
1/4	2,008.83	1/4	1,644.06	1/4	1,283.10	1/4	919.21	1/4	554.72	1/4	189.92	1/4		1/4		1/4		1/4	
1/2	2,001.23	1/2	1,636.46	1/2	1,275.58	1/2	911.64	1/2	547.12	1/2	182.32	1/2		1/2		1/2		1/2	
3/4	1,993.63	3/4	1,628.86	3/4	1,267.98	3/4	904.07	3/4	539.52	3/4	174.72	3/4		3/4		3/4		3/4	
11	1,986.03	11	1,621.26	11	1,260.38	11	896.50	11	531.92	11	167.12	11		11		11		11	
1/4	1,978.43	1/4	1,613.66	1/4	1,252.78	1/4	888.93	1/4	524.32	1/4	159.52	1/4		1/4		1/4		1/4	
1/2	1,970.84	1/2	1,606.06	1/2	1,245.18	1/2	881.36	1/2	516.72	1/2	151.92	1/2		1/2		1/2		1/2	
3/4	1,963.24	3/4	1,598.47	3/4	1,237.58	3/4	873.78	3/4	509.12	3/4	144.63	3/4		3/4		3/4		3/4	

STRAPPED: 03/10/2011 CL - SW
CALCULATED: 03/10/2011 CL
PRINTED: 03/10/2011 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 03/2011

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT
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