



# BARGE "KIRBY 24702"

## ULLAGE TRIM TABLE

### FORMERLY "HW 2523"

	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	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-1/8	00-1/8
1 STBD	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-1/8	00-1/8
2 PORT	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-1/8	00-1/8
2 STBD	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-1/8	00-1/8
3 PORT	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/4	00-1/4	- 00-3/8	00-3/8	- 00-1/2	00-1/2	- 00-1/2	00-1/2
3 STBD	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/4	00-1/4	- 00-3/8	00-3/8	- 00-1/2	00-1/2	- 00-1/2	00-1/2

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

LENGTH BETWEEN DRAFT MARKS: 261'-06"

December 9, 2014

**PRECISION MEASUREMENT  
& ANALYSIS, INC.**

P.O. Box 2092  
 Pearland, Texas 77588

<http://www.pmacorp.net>



# BARGE "KIRBY 24702"

## 1 PORT ULLAGE TABLE

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

FORMERLY "HW 2523"

GAUGE HEIGHT 16'-06 1/4"

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	4,216.82	0	3,881.32	0	3,544.65	0	3,207.97	0	2,871.27	0	2,534.53		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,209.84	1/4	3,874.30	1/4	3,537.63	1/4	3,200.96	1/4	2,864.25	1/4	2,527.51		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,202.86	1/2	3,867.29	1/2	3,530.62	1/2	3,193.95	1/2	2,857.24	1/2	2,520.50		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,195.88	3/4	3,860.28	3/4	3,523.60	3/4	3,186.93	3/4	2,850.22	3/4	2,513.48		
1	1	1	1	1	1	1	1	1	4,188.90	1	3,853.26	1	3,516.59	1	3,179.92	1	2,843.21	1	2,506.47		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,181.92	1/4	3,846.25	1/4	3,509.57	1/4	3,172.90	1/4	2,836.19	1/4	2,499.45		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,174.94	1/2	3,839.24	1/2	3,502.56	1/2	3,165.89	1/2	2,829.18	1/2	2,492.43		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,167.96	3/4	3,832.22	3/4	3,495.55	3/4	3,158.88	3/4	2,822.16	3/4	2,485.42		
2	2	2	2	2	2	2	2	2	4,160.98	2	3,825.21	2	3,488.53	2	3,151.86	2	2,815.15	2	2,478.40		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,154.00	1/4	3,818.19	1/4	3,481.52	1/4	3,144.85	1/4	2,808.13	1/4	2,471.38		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,147.02	1/2	3,811.18	1/2	3,474.51	1/2	3,137.84	1/2	2,801.12	1/2	2,464.36		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,140.04	3/4	3,804.16	3/4	3,467.49	3/4	3,130.82	3/4	2,794.11	3/4	2,457.35		
3	3	3	3	3	3	3	3	3	4,133.05	3	3,797.15	3	3,460.48	3	3,123.81	3	2,787.09	3	2,450.33		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,126.07	1/4	3,790.13	1/4	3,453.46	1/4	3,116.79	1/4	2,780.08	1/4	2,443.31		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,119.09	1/2	3,783.12	1/2	3,446.45	1/2	3,109.78	1/2	2,773.07	1/2	2,436.30		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,112.11	3/4	3,776.11	3/4	3,439.44	3/4	3,102.76	3/4	2,766.05	3/4	2,429.28		
4	4	4	4	4	4	4	4	4	4,105.13	4	3,769.09	4	3,432.42	4	3,095.75	4	2,759.04	4	2,422.27		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,098.15	1/4	3,762.08	1/4	3,425.41	1/4	3,088.73	1/4	2,752.02	1/4	2,415.25		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,091.17	1/2	3,755.07	1/2	3,418.40	1/2	3,081.72	1/2	2,745.00	1/2	2,408.23		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,084.19	3/4	3,748.05	3/4	3,411.38	3/4	3,074.70	3/4	2,737.99	3/4	2,401.22		
5	5	5	5	5	5	5	5	5	4,077.21	5	3,741.04	5	3,404.37	5	3,067.69	5	2,730.97	5	2,394.20		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,070.23	1/4	3,734.02	1/4	3,397.35	1/4	3,060.67	1/4	2,723.95	1/4	2,387.18		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,063.25	1/2	3,727.01	1/2	3,390.34	1/2	3,053.66	1/2	2,716.94	1/2	2,380.16		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,056.27	3/4	3,720.00	3/4	3,383.32	3/4	3,046.64	3/4	2,709.92	3/4	2,373.15		
6	6	6	6	6	6	6	6	6	4,350.15	6	4,049.28	6	3,712.98	6	3,376.31	6	3,039.63	6	2,702.91	6	2,366.13
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,347.34	1/4	4,042.30	1/4	3,705.97	1/4	3,369.29	1/4	3,032.61	1/4	2,695.89	1/4	2,359.11
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,343.95	1/2	4,035.32	1/2	3,698.96	1/2	3,362.28	1/2	3,025.60	1/2	2,688.88	1/2	2,352.09
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,340.56	3/4	4,028.34	3/4	3,691.94	3/4	3,355.27	3/4	3,018.58	3/4	2,681.86	3/4	2,345.08
7	7	7	7	7	7	7	7	7	4,337.16	7	4,021.36	7	3,684.93	7	3,348.25	7	3,011.57	7	2,674.85	7	2,338.06
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,333.77	1/4	4,014.38	1/4	3,677.91	1/4	3,341.24	1/4	3,004.55	1/4	2,667.83	1/4	2,331.04
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,329.21	1/2	4,007.40	1/2	3,670.90	1/2	3,334.23	1/2	2,997.54	1/2	2,660.81	1/2	2,324.03
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,324.65	3/4	4,000.42	3/4	3,663.88	3/4	3,327.21	3/4	2,990.52	3/4	2,653.80	3/4	2,317.01
8	8	8	8	8	8	8	8	8	4,320.09	8	3,993.44	8	3,656.87	8	3,320.20	8	2,983.51	8	2,646.78	8	2,310.00
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,315.53	1/4	3,986.46	1/4	3,649.85	1/4	3,313.18	1/4	2,976.49	1/4	2,639.76	1/4	2,302.98
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,309.76	1/2	3,979.46	1/2	3,642.84	1/2	3,306.17	1/2	2,969.48	1/2	2,632.75	1/2	2,295.96
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,303.99	3/4	3,972.47	3/4	3,635.83	3/4	3,299.16	3/4	2,962.46	3/4	2,625.73	3/4	2,288.95
9	9	9	9	9	9	9	9	9	4,298.21	9	3,965.47	9	3,628.81	9	3,292.14	9	2,955.45	9	2,618.72	9	2,281.93
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,292.44	1/4	3,958.47	1/4	3,621.80	1/4	3,285.13	1/4	2,948.43	1/4	2,611.70	1/4	2,274.91
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,285.75	1/2	3,951.46	1/2	3,614.79	1/2	3,278.12	1/2	2,941.42	1/2	2,604.69	1/2	2,267.89
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,279.07	3/4	3,944.44	3/4	3,607.77	3/4	3,271.10	3/4	2,934.40	3/4	2,597.67	3/4	2,260.88
10	10	10	10	10	10	10	10	10	4,272.38	10	3,937.43	10	3,600.76	10	3,264.09	10	2,927.39	10	2,590.66	10	2,253.86
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,265.69	1/4	3,930.41	1/4	3,593.74	1/4	3,257.07	1/4	2,920.37	1/4	2,583.64	1/4	2,246.84
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,258.71	1/2	3,923.40	1/2	3,586.73	1/2	3,250.06	1/2	2,913.36	1/2	2,576.62	1/2	2,239.82
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,251.73	3/4	3,916.39	3/4	3,579.72	3/4	3,243.04	3/4	2,906.34	3/4	2,569.61	3/4	2,232.81
11	11	11	11	11	11	11	11	11	4,244.74	11	3,909.37	11	3,572.70	11	3,236.03	11	2,899.33	11	2,562.59	11	2,225.79
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,237.76	1/4	3,902.36	1/4	3,565.69	1/4	3,229.01	1/4	2,892.31	1/4	2,555.57	1/4	2,218.77
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,230.78	1/2	3,895.35	1/2	3,558.68	1/2	3,222.00	1/2	2,885.30	1/2	2,548.56	1/2	2,211.76
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,223.80	3/4	3,888.33	3/4	3,551.66	3/4	3,214.99	3/4	2,878.28	3/4	2,541.54	3/4	2,204.74

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 UNDERSIDE OF DECK AT GAUGE POINT.  
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES OBSERVED WITH "HERMETIC" CLOSED GAUGING DEVICE.  
 GAUGE POINT: (HERMETIC) LOCATED 11'-00" OFF CENTERLINE AND 43'-09" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT  
 & ANALYSIS, INC.  
 P.O. Box 2092  
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# BARGE "KIRBY 24702"

## 1 PORT ULLAGE TABLE

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

FORMERLY "HW 2523"

GAUGE HEIGHT 16'-06 1/4"

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.	
IN		IN		IN		IN		IN		IN		IN		IN		IN		IN	
0	2,197.73	0	1,860.91	0	1,524.10	0	1,187.29	0	850.48	0	513.72	0	177.18	0		0		0	
1/4	2,190.71	1/4	1,853.89	1/4	1,517.08	1/4	1,180.27	1/4	843.46	1/4	506.71	1/4	170.20	1/4		1/4		1/4	
1/2	2,183.69	1/2	1,846.88	1/2	1,510.07	1/2	1,173.25	1/2	836.44	1/2	499.70	1/2	163.22	1/2		1/2		1/2	
3/4	2,176.68	3/4	1,839.86	3/4	1,503.05	3/4	1,166.24	3/4	829.43	3/4	492.68	3/4	156.24	3/4		3/4		3/4	
1	2,169.66	1	1,832.85	1	1,496.04	1	1,159.22	1	822.41	1	485.67	1	149.25	1		1		1	
1/4	2,162.64	1/4	1,825.83	1/4	1,489.02	1/4	1,152.20	1/4	815.39	1/4	478.65	1/4	142.27	1/4		1/4		1/4	
1/2	2,155.62	1/2	1,818.81	1/2	1,482.00	1/2	1,145.19	1/2	808.38	1/2	471.64	1/2	135.29	1/2		1/2		1/2	
3/4	2,148.61	3/4	1,811.80	3/4	1,474.99	3/4	1,138.17	3/4	801.36	3/4	464.63	3/4	128.31	3/4		3/4		3/4	
2	2,141.59	2	1,804.78	2	1,467.97	2	1,131.16	2	794.35	2	457.61	2	121.32	2		2		2	
1/4	2,134.57	1/4	1,797.76	1/4	1,460.95	1/4	1,124.14	1/4	787.33	1/4	450.60	1/4	114.34	1/4		1/4		1/4	
1/2	2,127.55	1/2	1,790.74	1/2	1,453.93	1/2	1,117.12	1/2	780.31	1/2	443.59	1/2	107.66	1/2		1/2		1/2	
3/4	2,120.54	3/4	1,783.73	3/4	1,446.92	3/4	1,110.11	3/4	773.30	3/4	436.57	3/4	100.99	3/4		3/4		3/4	
3	2,113.52	3	1,776.71	3	1,439.90	3	1,103.09	3	766.28	3	429.56	3	94.31	3		3		3	
1/4	2,106.50	1/4	1,769.69	1/4	1,432.88	1/4	1,096.07	1/4	759.26	1/4	422.54	1/4	87.63	1/4		1/4		1/4	
1/2	2,099.48	1/2	1,762.67	1/2	1,425.86	1/2	1,089.05	1/2	752.24	1/2	415.53	1/2	81.25	1/2		1/2		1/2	
3/4	2,092.47	3/4	1,755.66	3/4	1,418.85	3/4	1,082.04	3/4	745.23	3/4	408.51	3/4	74.88	3/4		3/4		3/4	
4	2,085.45	4	1,748.64	4	1,411.83	4	1,075.02	4	738.21	4	401.50	4	68.50	4		4		4	
1/4	2,078.43	1/4	1,741.62	1/4	1,404.81	1/4	1,068.00	1/4	731.19	1/4	394.48	1/4	62.12	1/4		1/4		1/4	
1/2	2,071.42	1/2	1,734.61	1/2	1,397.79	1/2	1,060.98	1/2	724.17	1/2	387.47	1/2	56.07	1/2		1/2		1/2	
3/4	2,064.40	3/4	1,727.59	3/4	1,390.78	3/4	1,053.97	3/4	717.16	3/4	380.45	3/4	50.03	3/4		3/4		3/4	
5	2,057.39	5	1,720.58	5	1,383.76	5	1,046.95	5	710.14	5	373.44	5	43.98	5		5		5	
1/4	2,050.37	1/4	1,713.56	1/4	1,376.74	1/4	1,039.93	1/4	703.12	1/4	366.42	1/4	37.93	1/4		1/4		1/4	
1/2	2,043.35	1/2	1,706.54	1/2	1,369.73	1/2	1,032.92	1/2	696.10	1/2	359.41	1/2	33.11	1/2		1/2		1/2	
3/4	2,036.34	3/4	1,699.53	3/4	1,362.71	3/4	1,025.90	3/4	689.09	3/4	352.39	3/4	28.29	3/4		3/4		3/4	
6	2,029.32	6	1,692.51	6	1,355.70	6	1,018.89	6	682.07	6	345.38	6	23.46	6		6		6	
1/4	2,022.30	1/4	1,685.49	1/4	1,348.68	1/4	1,011.87	1/4	675.05	1/4	338.36	1/4	18.64	1/4		1/4		1/4	
1/2	2,015.28	1/2	1,678.47	1/2	1,341.66	1/2	1,004.85	1/2	668.04	1/2	331.34	1/2		1/2		1/2		1/2	
3/4	2,008.27	3/4	1,671.46	3/4	1,334.65	3/4	997.84	3/4	661.02	3/4	324.33	3/4		3/4		3/4		3/4	
7	2,001.25	7	1,664.44	7	1,327.63	7	990.82	7	654.01	7	317.31	7		7		7		7	
1/4	1,994.23	1/4	1,657.42	1/4	1,320.61	1/4	983.80	1/4	646.99	1/4	310.29	1/4		1/4		1/4		1/4	
1/2	1,987.21	1/2	1,650.40	1/2	1,313.59	1/2	976.78	1/2	639.98	1/2	303.27	1/2		1/2		1/2		1/2	
3/4	1,980.20	3/4	1,643.39	3/4	1,306.58	3/4	969.77	3/4	632.96	3/4	296.26	3/4		3/4		3/4		3/4	
8	1,973.18	8	1,636.37	8	1,299.56	8	962.75	8	625.95	8	289.24	8		8		8		8	
1/4	1,966.16	1/4	1,629.35	1/4	1,292.54	1/4	955.73	1/4	618.93	1/4	282.22	1/4		1/4		1/4		1/4	
1/2	1,959.15	1/2	1,622.34	1/2	1,285.52	1/2	948.71	1/2	611.92	1/2	275.20	1/2		1/2		1/2		1/2	
3/4	1,952.13	3/4	1,615.32	3/4	1,278.51	3/4	941.70	3/4	604.91	3/4	268.19	3/4		3/4		3/4		3/4	
9	1,945.12	9	1,608.31	9	1,271.49	9	934.68	9	597.89	9	261.17	9		9		9		9	
1/4	1,938.10	1/4	1,601.29	1/4	1,264.47	1/4	927.66	1/4	590.88	1/4	254.15	1/4		1/4		1/4		1/4	
1/2	1,931.08	1/2	1,594.27	1/2	1,257.46	1/2	920.65	1/2	583.87	1/2	247.14	1/2		1/2		1/2		1/2	
3/4	1,924.07	3/4	1,587.26	3/4	1,250.44	3/4	913.63	3/4	576.85	3/4	240.12	3/4		3/4		3/4		3/4	
10	1,917.05	10	1,580.24	10	1,243.43	10	906.62	10	569.84	10	233.11	10		10		10		10	
1/4	1,910.03	1/4	1,573.22	1/4	1,236.41	1/4	899.60	1/4	562.82	1/4	226.09	1/4		1/4		1/4		1/4	
1/2	1,903.01	1/2	1,566.20	1/2	1,229.39	1/2	892.58	1/2	555.81	1/2	219.10	1/2		1/2		1/2		1/2	
3/4	1,896.00	3/4	1,559.19	3/4	1,222.38	3/4	885.57	3/4	548.79	3/4	212.11	3/4		3/4		3/4		3/4	
11	1,888.98	11	1,552.17	11	1,215.36	11	878.55	11	541.78	11	205.11	11		11		11		11	
1/4	1,881.96	1/4	1,545.15	1/4	1,208.34	1/4	871.53	1/4	534.76	1/4	198.12	1/4		1/4		1/4		1/4	
1/2	1,874.94	1/2	1,538.13	1/2	1,201.32	1/2	864.51	1/2	527.75	1/2	191.14	1/2		1/2		1/2		1/2	
3/4	1,867.93	3/4	1,531.12	3/4	1,194.31	3/4	857.50	3/4	520.74	3/4	184.16	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 10/31/1994 CTC  
DECK MEASUREMENTS: 12/09/2014 SW  
REPRINTED: 12/09/2014 SW

CANCELS AND SUPERCEDES  
ALL PRIOR TO 12/2014

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



# BARGE "KIRBY 24702"

## 1 STBD ULLAGE TABLE

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

FORMERLY "HW 2523"

GAUGE HEIGHT 16'-05 5/8"

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	4,208.77	0	3,872.39	0	3,534.93	0	3,197.46	0	2,859.97	0	2,522.43
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,201.78	1/4	3,865.36	1/4	3,527.89	1/4	3,190.43	1/4	2,852.93	1/4	2,515.39
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,194.78	1/2	3,858.33	1/2	3,520.86	1/2	3,183.40	1/2	2,845.90	1/2	2,508.36
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,187.78	3/4	3,851.30	3/4	3,513.83	3/4	3,176.37	3/4	2,838.87	3/4	2,501.33
1	1	1	1	1	1	1	1	1	4,180.79	1	3,844.27	1	3,506.80	1	3,169.34	1	2,831.84	1	2,494.30
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,173.79	1/4	3,837.24	1/4	3,499.77	1/4	3,162.31	1/4	2,824.81	1/4	2,487.26
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,166.79	1/2	3,830.21	1/2	3,492.74	1/2	3,155.28	1/2	2,817.78	1/2	2,480.23
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,159.79	3/4	3,823.18	3/4	3,485.71	3/4	3,148.25	3/4	2,810.75	3/4	2,473.20
2	2	2	2	2	2	2	2	2	4,152.80	2	3,816.15	2	3,478.68	2	3,141.22	2	2,803.72	2	2,466.17
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,145.80	1/4	3,809.11	1/4	3,471.65	1/4	3,134.19	1/4	2,796.68	1/4	2,459.13
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,138.80	1/2	3,802.08	1/2	3,464.62	1/2	3,127.16	1/2	2,789.65	1/2	2,452.10
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,131.80	3/4	3,795.05	3/4	3,457.59	3/4	3,120.13	3/4	2,782.62	3/4	2,445.06
3	3	3	3	3	3	3	3	3	4,124.81	3	3,788.02	3	3,450.56	3	3,113.10	3	2,775.59	3	2,438.03
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,117.81	1/4	3,780.99	1/4	3,443.53	1/4	3,106.06	1/4	2,768.55	1/4	2,430.99
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,110.81	1/2	3,773.96	1/2	3,436.50	1/2	3,099.03	1/2	2,761.52	1/2	2,423.96
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,103.81	3/4	3,766.93	3/4	3,429.47	3/4	3,092.00	3/4	2,754.49	3/4	2,416.93
4	4	4	4	4	4	4	4	4	4,096.82	4	3,759.90	4	3,422.44	4	3,084.97	4	2,747.46	4	2,409.90
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,089.82	1/4	3,752.87	1/4	3,415.41	1/4	3,077.94	1/4	2,740.43	1/4	2,402.86
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,082.82	1/2	3,745.84	1/2	3,408.38	1/2	3,070.91	1/2	2,733.40	1/2	2,395.83
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,075.82	3/4	3,738.81	3/4	3,401.35	3/4	3,063.88	3/4	2,726.37	3/4	2,388.80
5	5	5	5	5	5	5	5	5	4,068.83	5	3,731.78	5	3,394.32	5	3,056.85	5	2,719.34	5	2,381.77
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,061.83	1/4	3,724.75	1/4	3,387.28	1/4	3,049.81	1/4	2,712.30	1/4	2,374.73
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,054.83	1/2	3,717.72	1/2	3,380.25	1/2	3,042.78	1/2	2,705.27	1/2	2,367.70
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,047.83	3/4	3,710.69	3/4	3,373.22	3/4	3,035.75	3/4	2,698.24	3/4	2,360.66
6	6	6	6	6 1/8	4,351.47	6	4,040.84	6	3,703.66	6	3,366.19	6	3,028.72	6	2,691.21	6	2,353.63		
1/4	1/4	1/4	1/4	1/4	4,349.48	1/4	4,033.84	1/4	3,696.63	1/4	3,359.16	1/4	3,021.68	1/4	2,684.17	1/4	2,346.59		
1/2	1/2	1/2	1/2	1/2	4,345.38	1/2	4,026.84	1/2	3,689.60	1/2	3,352.13	1/2	3,014.65	1/2	2,677.14	1/2	2,339.56		
3/4	3/4	3/4	3/4	3/4	4,341.06	3/4	4,019.84	3/4	3,682.57	3/4	3,345.10	3/4	3,007.62	3/4	2,670.11	3/4	2,332.53		
7	7	7	7	7	4,336.64	7	4,012.85	7	3,675.54	7	3,338.07	7	3,000.59	7	2,663.08	7	2,325.50		
1/4	1/4	1/4	1/4	1/4	4,332.21	1/4	4,005.85	1/4	3,668.50	1/4	3,331.04	1/4	2,993.56	1/4	2,656.04	1/4	2,318.46		
1/2	1/2	1/2	1/2	1/2	4,327.48	1/2	3,998.85	1/2	3,661.47	1/2	3,324.01	1/2	2,986.53	1/2	2,649.01	1/2	2,311.43		
3/4	3/4	3/4	3/4	3/4	4,322.15	3/4	3,991.84	3/4	3,654.44	3/4	3,316.98	3/4	2,979.50	3/4	2,641.98	3/4	2,304.40		
8	8	8	8	8	4,316.53	8	3,984.84	8	3,647.41	8	3,309.95	8	2,972.47	8	2,634.95	8	2,297.37		
1/4	1/4	1/4	1/4	1/4	4,310.90	1/4	3,977.83	1/4	3,640.38	1/4	3,302.92	1/4	2,965.43	1/4	2,627.91	1/4	2,290.33		
1/2	1/2	1/2	1/2	1/2	4,305.02	1/2	3,970.81	1/2	3,633.35	1/2	3,295.89	1/2	2,958.40	1/2	2,620.88	1/2	2,283.30		
3/4	3/4	3/4	3/4	3/4	4,298.64	3/4	3,963.79	3/4	3,626.32	3/4	3,288.86	3/4	2,951.37	3/4	2,613.85	3/4	2,276.26		
9	9	9	9	9	4,292.01	9	3,956.76	9	3,619.29	9	3,281.83	9	2,944.34	9	2,606.82	9	2,269.23		
1/4	1/4	1/4	1/4	1/4	4,285.37	1/4	3,949.72	1/4	3,612.26	1/4	3,274.80	1/4	2,937.31	1/4	2,599.78	1/4	2,262.19		
1/2	1/2	1/2	1/2	1/2	4,278.65	1/2	3,942.69	1/2	3,605.23	1/2	3,267.77	1/2	2,930.28	1/2	2,592.75	1/2	2,255.16		
3/4	3/4	3/4	3/4	3/4	4,271.74	3/4	3,935.66	3/4	3,598.20	3/4	3,260.74	3/4	2,923.25	3/4	2,585.72	3/4	2,248.13		
10	10	10	10	10	4,264.75	10	3,928.63	10	3,591.17	10	3,253.71	10	2,916.22	10	2,578.69	10	2,241.10		
1/4	1/4	1/4	1/4	1/4	4,257.75	1/4	3,921.60	1/4	3,584.14	1/4	3,246.67	1/4	2,909.18	1/4	2,571.65	1/4	2,234.06		
1/2	1/2	1/2	1/2	1/2	4,250.75	1/2	3,914.57	1/2	3,577.11	1/2	3,239.64	1/2	2,902.15	1/2	2,564.62	1/2	2,227.03		
3/4	3/4	3/4	3/4	3/4	4,243.75	3/4	3,907.54	3/4	3,570.08	3/4	3,232.61	3/4	2,895.12	3/4	2,557.59	3/4	2,220.00		
11	11	11	11	11	4,236.76	11	3,900.51	11	3,563.05	11	3,225.58	11	2,888.09	11	2,550.56	11	2,212.96		
1/4	1/4	1/4	1/4	1/4	4,229.76	1/4	3,893.48	1/4	3,556.02	1/4	3,218.55	1/4	2,881.06	1/4	2,543.52	1/4	2,205.93		
1/2	1/2	1/2	1/2	1/2	4,222.76	1/2	3,886.45	1/2	3,548.99	1/2	3,211.52	1/2	2,874.03	1/2	2,536.49	1/2	2,198.89		
3/4	3/4	3/4	3/4	3/4	4,215.77	3/4	3,879.42	3/4	3,541.96	3/4	3,204.49	3/4	2,867.00	3/4	2,529.46	3/4	2,191.86		

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 UNDERSIDE OF DECK AT GAUGE POINT.

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

GAUGE POINT: (HERMETIC) LOCATED 10'-06" OFF CENTERLINE AND 43'-09" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT  
& ANALYSIS, INC.

P.O. Box 2092  
Pearland, Texas 77588

<http://www.pmacorp.net>



# BARGE "KIRBY 24702"

**1 STBD  
ULLAGE TABLE**

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

FORMERLY "HW 2523"

GAUGE HEIGHT 16'-05 5/8"

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	2,184.83	0	1,847.23	0	1,509.62	0	1,172.02	0	834.42	0	497.15	0	160.12	0		0		0	
1/4	2,177.79	1/4	1,840.19	1/4	1,502.59	1/4	1,164.98	1/4	827.38	1/4	490.13	1/4	153.12	1/4		1/4		1/4	
1/2	2,170.76	1/2	1,833.16	1/2	1,495.55	1/2	1,157.95	1/2	820.35	1/2	483.11	1/2	146.12	1/2		1/2		1/2	
3/4	2,163.73	3/4	1,826.12	3/4	1,488.52	3/4	1,150.92	3/4	813.32	3/4	476.09	3/4	139.12	3/4		3/4		3/4	
1	2,156.70	1	1,819.09	1	1,481.49	1	1,143.89	1	806.28	1	469.08	1	132.12	1		1		1	
1/4	2,149.66	1/4	1,812.05	1/4	1,474.45	1/4	1,136.85	1/4	799.25	1/4	462.06	1/4	125.12	1/4		1/4		1/4	
1/2	2,142.63	1/2	1,805.02	1/2	1,467.42	1/2	1,129.82	1/2	792.21	1/2	455.04	1/2	118.18	1/2		1/2		1/2	
3/4	2,135.60	3/4	1,797.99	3/4	1,460.39	3/4	1,122.78	3/4	785.18	3/4	448.02	3/4	111.35	3/4		3/4		3/4	
2	2,128.56	2	1,790.96	2	1,453.36	2	1,115.75	2	778.15	2	441.00	2	104.58	2		2		2	
1/4	2,121.53	1/4	1,783.92	1/4	1,446.32	1/4	1,108.71	1/4	771.11	1/4	433.98	1/4	97.81	1/4		1/4		1/4	
1/2	2,114.49	1/2	1,776.89	1/2	1,439.29	1/2	1,101.68	1/2	764.08	1/2	426.96	1/2	91.13	1/2		1/2		1/2	
3/4	2,107.46	3/4	1,769.86	3/4	1,432.26	3/4	1,094.65	3/4	757.05	3/4	419.94	3/4	84.65	3/4		3/4		3/4	
3	2,100.43	3	1,762.83	3	1,425.22	3	1,087.62	3	750.02	3	412.92	3	78.26	3		3		3	
1/4	2,093.39	1/4	1,755.79	1/4	1,418.19	1/4	1,080.58	1/4	742.98	1/4	405.90	1/4	71.86	1/4		1/4		1/4	
1/2	2,086.36	1/2	1,748.76	1/2	1,411.15	1/2	1,073.55	1/2	735.95	1/2	398.88	1/2	65.55	1/2		1/2		1/2	
3/4	2,079.33	3/4	1,741.72	3/4	1,404.12	3/4	1,066.52	3/4	728.92	3/4	391.86	3/4	59.38	3/4		3/4		3/4	
4	2,072.30	4	1,734.69	4	1,397.09	4	1,059.49	4	721.88	4	384.84	4	53.29	4		4		4	
1/4	2,065.26	1/4	1,727.65	1/4	1,390.05	1/4	1,052.45	1/4	714.85	1/4	377.82	1/4	47.19	1/4		1/4		1/4	
1/2	2,058.23	1/2	1,720.62	1/2	1,383.02	1/2	1,045.42	1/2	707.81	1/2	370.80	1/2	41.38	1/2		1/2		1/2	
3/4	2,051.20	3/4	1,713.59	3/4	1,375.99	3/4	1,038.38	3/4	700.78	3/4	363.77	3/4	36.12	3/4		3/4		3/4	
5	2,044.16	5	1,706.56	5	1,368.96	5	1,031.35	5	693.75	5	356.74	5	31.14	5		5		5	
1/4	2,037.13	1/4	1,699.52	1/4	1,361.92	1/4	1,024.31	1/4	686.71	1/4	349.71	1/4	26.15	1/4		1/4		1/4	
1/2	2,030.09	1/2	1,692.49	1/2	1,354.89	1/2	1,017.28	1/2	679.68	1/2	342.68	1/2	21.17	1/2		1/2		1/2	
3/4	2,023.06	3/4	1,685.46	3/4	1,347.86	3/4	1,010.25	3/4	672.65	3/4	335.65	3/4	18.68	3/4		3/4		3/4	
6	2,016.03	6	1,678.43	6	1,340.82	6	1,003.22	6	665.63	6	328.62	6		6		6		6	
1/4	2,008.99	1/4	1,671.39	1/4	1,333.79	1/4	996.18	1/4	658.60	1/4	321.58	1/4		1/4		1/4		1/4	
1/2	2,001.96	1/2	1,664.36	1/2	1,326.75	1/2	989.15	1/2	651.57	1/2	314.55	1/2		1/2		1/2		1/2	
3/4	1,994.93	3/4	1,657.32	3/4	1,319.72	3/4	982.12	3/4	644.55	3/4	307.52	3/4		3/4		3/4		3/4	
7	1,987.90	7	1,650.29	7	1,312.69	7	975.09	7	637.53	7	300.48	7		7		7		7	
1/4	1,980.86	1/4	1,643.25	1/4	1,305.65	1/4	968.05	1/4	630.51	1/4	293.45	1/4		1/4		1/4		1/4	
1/2	1,973.83	1/2	1,636.22	1/2	1,298.62	1/2	961.02	1/2	623.49	1/2	286.41	1/2		1/2		1/2		1/2	
3/4	1,966.80	3/4	1,629.19	3/4	1,291.59	3/4	953.98	3/4	616.47	3/4	279.38	3/4		3/4		3/4		3/4	
8	1,959.76	8	1,622.16	8	1,284.56	8	946.95	8	609.46	8	272.35	8		8		8		8	
1/4	1,952.73	1/4	1,615.12	1/4	1,277.52	1/4	939.91	1/4	602.44	1/4	265.31	1/4		1/4		1/4		1/4	
1/2	1,945.69	1/2	1,608.09	1/2	1,270.49	1/2	932.88	1/2	595.42	1/2	258.28	1/2		1/2		1/2		1/2	
3/4	1,938.66	3/4	1,601.06	3/4	1,263.46	3/4	925.85	3/4	588.40	3/4	251.25	3/4		3/4		3/4		3/4	
9	1,931.63	9	1,594.03	9	1,256.42	9	918.82	9	581.38	9	244.22	9		9		9		9	
1/4	1,924.59	1/4	1,586.99	1/4	1,249.39	1/4	911.78	1/4	574.36	1/4	237.18	1/4		1/4		1/4		1/4	
1/2	1,917.56	1/2	1,579.96	1/2	1,242.35	1/2	904.75	1/2	567.34	1/2	230.16	1/2		1/2		1/2		1/2	
3/4	1,910.52	3/4	1,572.92	3/4	1,235.32	3/4	897.72	3/4	560.32	3/4	223.14	3/4		3/4		3/4		3/4	
10	1,903.49	10	1,565.89	10	1,228.29	10	890.69	10	553.30	10	216.13	10		10		10		10	
1/4	1,896.45	1/4	1,558.85	1/4	1,221.25	1/4	883.65	1/4	546.28	1/4	209.11	1/4		1/4		1/4		1/4	
1/2	1,889.42	1/2	1,551.82	1/2	1,214.22	1/2	876.62	1/2	539.26	1/2	202.10	1/2		1/2		1/2		1/2	
3/4	1,882.39	3/4	1,544.79	3/4	1,207.18	3/4	869.58	3/4	532.24	3/4	195.10	3/4		3/4		3/4		3/4	
11	1,875.36	11	1,537.76	11	1,200.15	11	862.55	11	525.23	11	188.11	11		11		11		11	
1/4	1,868.32	1/4	1,530.72	1/4	1,193.11	1/4	855.51	1/4	518.21	1/4	181.11	1/4		1/4		1/4		1/4	
1/2	1,861.29	1/2	1,523.69	1/2	1,186.08	1/2	848.48	1/2	511.19	1/2	174.11	1/2		1/2		1/2		1/2	
3/4	1,854.26	3/4	1,516.66	3/4	1,179.05	3/4	841.45	3/4	504.17	3/4	167.11	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 10/31/1994 CTC  
DECK MEASUREMENTS: 12/09/2014 SW  
REPRINTED: 12/09/2014 SW

CANCELS AND SUPERCEDES  
ALL PRIOR TO 12/2014

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



# BARGE "KIRBY 24702"

## 2 PORT ULLAGE TABLE

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

FORMERLY "HW 2523"

GAUGE HEIGHT 16'-05 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	4,190.54	0	3,855.93	0	3,520.22	0	3,184.50	0	2,848.76	0	2,513.01		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,183.58	1/4	3,848.93	1/4	3,513.22	1/4	3,177.51	1/4	2,841.76	1/4	2,506.01		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,176.62	1/2	3,841.94	1/2	3,506.23	1/2	3,170.51	1/2	2,834.77	1/2	2,499.02		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,169.66	3/4	3,834.94	3/4	3,499.23	3/4	3,163.52	3/4	2,827.77	3/4	2,492.02		
1	1	1	1	1	1	1	1	1	4,162.70	1	3,827.95	1	3,492.24	1	3,156.53	1	2,820.78	1	2,485.02		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,155.74	1/4	3,820.96	1/4	3,485.24	1/4	3,149.53	1/4	2,813.78	1/4	2,478.03		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,148.77	1/2	3,813.96	1/2	3,478.25	1/2	3,142.54	1/2	2,806.79	1/2	2,471.03		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,141.81	3/4	3,806.97	3/4	3,471.25	3/4	3,135.54	3/4	2,799.79	3/4	2,464.03		
2	2	2	2	2	2	2	2	2	4,134.85	2	3,799.98	2	3,464.26	2	3,128.55	2	2,792.80	2	2,457.04		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,127.89	1/4	3,792.98	1/4	3,457.27	1/4	3,121.56	1/4	2,785.80	1/4	2,450.04		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,120.93	1/2	3,785.99	1/2	3,450.27	1/2	3,114.56	1/2	2,778.81	1/2	2,443.05		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,113.97	3/4	3,778.99	3/4	3,443.28	3/4	3,107.57	3/4	2,771.81	3/4	2,436.05		
3	3	3	3	3	3	3	3	3	4,107.01	3	3,772.00	3	3,436.29	3	3,100.58	3	2,764.82	3	2,429.06		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,100.05	1/4	3,765.00	1/4	3,429.29	1/4	3,093.58	1/4	2,757.82	1/4	2,422.06		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,093.09	1/2	3,758.01	1/2	3,422.30	1/2	3,086.59	1/2	2,750.83	1/2	2,415.07		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,086.13	3/4	3,751.01	3/4	3,415.30	3/4	3,079.59	3/4	2,743.83	3/4	2,408.07		
4	4	4	4	4	4	4	4	4	4,079.17	4	3,744.02	4	3,408.31	4	3,072.60	4	2,736.84	4	2,401.07		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,072.21	1/4	3,737.03	1/4	3,401.32	1/4	3,065.60	1/4	2,729.84	1/4	2,394.08		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,065.24	1/2	3,730.03	1/2	3,394.32	1/2	3,058.61	1/2	2,722.85	1/2	2,387.08		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,058.28	3/4	3,723.04	3/4	3,387.33	3/4	3,051.61	3/4	2,715.85	3/4	2,380.08		
5	5	5	5	5	5	5	5	5	4,051.32	5	3,716.05	5	3,380.34	5	3,044.62	5	2,708.86	5	2,373.09		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,044.36	1/4	3,709.05	1/4	3,373.34	1/4	3,037.62	1/4	2,701.86	1/4	2,366.09		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,037.40	1/2	3,702.06	1/2	3,366.35	1/2	3,030.63	1/2	2,694.87	1/2	2,359.10		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,030.44	3/4	3,695.06	3/4	3,359.35	3/4	3,023.63	3/4	2,687.87	3/4	2,352.10		
6	6	6	6	6	6	6	6	6	4,023.48	6	3,688.07	6	3,352.36	6	3,016.64	6	2,680.88	6	2,345.10		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,016.52	1/4	3,681.08	1/4	3,345.36	1/4	3,009.64	1/4	2,673.88	1/4	2,338.11		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,325.04	1/2	4,009.56	1/2	3,674.08	1/2	3,338.37	1/2	3,002.65	1/2	2,666.89	1/2	2,331.11
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,321.08	3/4	4,002.60	3/4	3,667.09	3/4	3,331.37	3/4	2,995.65	3/4	2,659.89	3/4	2,324.11
7	7	7	7	7	7	7	7	7	4,316.53	7	3,995.64	7	3,660.10	7	3,324.38	7	2,988.66	7	2,652.90	7	2,317.12
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,311.98	1/4	3,988.68	1/4	3,653.10	1/4	3,317.39	1/4	2,981.66	1/4	2,645.90	1/4	2,310.12
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,307.43	1/2	3,981.72	1/2	3,646.11	1/2	3,310.39	1/2	2,974.67	1/2	2,638.91	1/2	2,303.13
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,302.88	3/4	3,974.76	3/4	3,639.11	3/4	3,303.40	3/4	2,967.67	3/4	2,631.91	3/4	2,296.13
8	8	8	8	8	8	8	8	8	4,297.13	8	3,967.78	8	3,632.12	8	3,296.41	8	2,960.68	8	2,624.92	8	2,289.14
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,291.37	1/4	3,960.81	1/4	3,625.12	1/4	3,289.41	1/4	2,953.68	1/4	2,617.92	1/4	2,282.14
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,285.62	1/2	3,953.83	1/2	3,618.13	1/2	3,282.42	1/2	2,946.69	1/2	2,610.93	1/2	2,275.15
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,279.86	3/4	3,946.85	3/4	3,611.13	3/4	3,275.42	3/4	2,939.69	3/4	2,603.93	3/4	2,268.15
9	9	9	9	9	9	9	9	9	4,273.19	9	3,939.86	9	3,604.14	9	3,268.43	9	2,932.70	9	2,596.94	9	2,261.15
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,266.52	1/4	3,932.86	1/4	3,597.15	1/4	3,261.44	1/4	2,925.70	1/4	2,589.94	1/4	2,254.16
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,259.85	1/2	3,925.87	1/2	3,590.15	1/2	3,254.44	1/2	2,918.71	1/2	2,582.95	1/2	2,247.16
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,253.18	3/4	3,918.87	3/4	3,583.16	3/4	3,247.45	3/4	2,911.71	3/4	2,575.95	3/4	2,240.16
10	10	10	10	10	10	10	10	10	4,246.22	10	3,911.88	10	3,576.17	10	3,240.46	10	2,904.72	10	2,568.96	10	2,233.17
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,239.26	1/4	3,904.88	1/4	3,569.17	1/4	3,233.46	1/4	2,897.72	1/4	2,561.97	1/4	2,226.17
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,232.30	1/2	3,897.89	1/2	3,562.18	1/2	3,226.47	1/2	2,890.73	1/2	2,554.97	1/2	2,219.18
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,225.34	3/4	3,890.89	3/4	3,555.18	3/4	3,219.47	3/4	2,883.73	3/4	2,547.98	3/4	2,212.18
11	11	11	11	11	11	11	11	11	4,218.38	11	3,883.90	11	3,548.19	11	3,212.48	11	2,876.74	11	2,540.99	11	2,205.18
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,211.42	1/4	3,876.91	1/4	3,541.20	1/4	3,205.48	1/4	2,869.74	1/4	2,533.99	1/4	2,198.19
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,204.46	1/2	3,869.91	1/2	3,534.20	1/2	3,198.49	1/2	2,862.75	1/2	2,527.00	1/2	2,191.19
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,197.50	3/4	3,862.92	3/4	3,527.21	3/4	3,191.49	3/4	2,855.75	3/4	2,520.00	3/4	2,184.19

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 UNDERSIDE OF DECK AT GAUGE POINT.  
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES OBSERVED WITH "HERMETIC" CLOSED GAUGING DEVICE.  
 GAUGE POINT: (HERMETIC) LOCATED 11'-00" OFF CENTERLINE AND 43'-09" FORWARD OF AFT BULKHEAD.

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



# BARGE "KIRBY 24702"

## 2 PORT ULLAGE TABLE

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

FORMERLY "HW 2523"

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	2,177.20	0	1,841.39	0	1,505.58	0	1,169.78	0	833.97	0	498.22	0	162.74	0					
1/4	2,170.20	1/4	1,834.40	1/4	1,498.59	1/4	1,162.78	1/4	826.97	1/4	491.23	1/4	155.78	1/4					
1/2	2,163.21	1/2	1,827.40	1/2	1,491.59	1/2	1,155.79	1/2	819.98	1/2	484.23	1/2	148.82	1/2					
3/4	2,156.21	3/4	1,820.40	3/4	1,484.59	3/4	1,148.79	3/4	812.98	3/4	477.24	3/4	141.86	3/4					
1	2,149.22	1	1,813.41	1	1,477.60	1	1,141.79	1	805.98	1	470.25	1	134.90	1					
1/4	2,142.22	1/4	1,806.41	1/4	1,470.60	1/4	1,134.80	1/4	798.99	1/4	463.26	1/4	127.94	1/4					
1/2	2,135.23	1/2	1,799.42	1/2	1,463.61	1/2	1,127.80	1/2	791.99	1/2	456.26	1/2	120.97	1/2					
3/4	2,128.23	3/4	1,792.42	3/4	1,456.61	3/4	1,120.80	3/4	784.99	3/4	449.27	3/4	114.01	3/4					
2	2,121.23	2	1,785.42	2	1,449.62	2	1,113.81	2	778.00	2	442.28	2	107.35	2					
1/4	2,114.24	1/4	1,778.43	1/4	1,442.62	1/4	1,106.81	1/4	771.00	1/4	435.28	1/4	100.69	1/4					
1/2	2,107.24	1/2	1,771.43	1/2	1,435.63	1/2	1,099.82	1/2	764.01	1/2	428.29	1/2	94.03	1/2					
3/4	2,100.24	3/4	1,764.43	3/4	1,428.63	3/4	1,092.82	3/4	757.01	3/4	421.29	3/4	87.37	3/4					
3	2,093.25	3	1,757.44	3	1,421.63	3	1,085.82	3	750.02	3	414.30	3	81.01	3					
1/4	2,086.25	1/4	1,750.44	1/4	1,414.64	1/4	1,078.83	1/4	743.02	1/4	407.31	1/4	74.66	1/4					
1/2	2,079.26	1/2	1,743.45	1/2	1,407.64	1/2	1,071.83	1/2	736.03	1/2	400.31	1/2	68.30	1/2					
3/4	2,072.26	3/4	1,736.45	3/4	1,400.64	3/4	1,064.83	3/4	729.03	3/4	393.32	3/4	61.94	3/4					
4	2,065.26	4	1,729.46	4	1,393.65	4	1,057.84	4	722.03	4	386.33	4	55.91	4					
1/4	2,058.27	1/4	1,722.46	1/4	1,386.65	1/4	1,050.84	1/4	715.04	1/4	379.34	1/4	49.88	1/4					
1/2	2,051.27	1/2	1,715.47	1/2	1,379.66	1/2	1,043.85	1/2	708.04	1/2	372.34	1/2	43.85	1/2					
3/4	2,044.27	3/4	1,708.47	3/4	1,372.66	3/4	1,036.85	3/4	701.04	3/4	365.35	3/4	37.82	3/4					
5	2,037.28	5	1,701.47	5	1,365.66	5	1,029.86	5	694.05	5	358.35	5	33.01	5					
1/4	2,030.28	1/4	1,694.48	1/4	1,358.67	1/4	1,022.86	1/4	687.05	1/4	351.36	1/4	28.20	1/4					
1/2	2,023.29	1/2	1,687.48	1/2	1,351.67	1/2	1,015.87	1/2	680.06	1/2	344.36	1/2	23.39	1/2					
3/4	2,016.29	3/4	1,680.48	3/4	1,344.67	3/4	1,008.87	3/4	673.06	3/4	337.36	3/4	18.58	3/4					
6	2,009.30	6	1,673.49	6	1,337.68	6	1,001.87	6	666.07	6	330.37	6		6					
1/4	2,002.30	1/4	1,666.49	1/4	1,330.68	1/4	994.88	1/4	659.07	1/4	323.37	1/4		1/4					
1/2	1,995.31	1/2	1,659.50	1/2	1,323.69	1/2	987.88	1/2	652.08	1/2	316.38	1/2		1/2					
3/4	1,988.31	3/4	1,652.50	3/4	1,316.69	3/4	980.88	3/4	645.08	3/4	309.38	3/4		3/4					
7	1,981.31	7	1,645.50	7	1,309.70	7	973.89	7	638.09	7	302.38	7		7					
1/4	1,974.32	1/4	1,638.51	1/4	1,302.70	1/4	966.89	1/4	631.09	1/4	295.39	1/4		1/4					
1/2	1,967.32	1/2	1,631.51	1/2	1,295.71	1/2	959.90	1/2	624.10	1/2	288.39	1/2		1/2					
3/4	1,960.32	3/4	1,624.51	3/4	1,288.71	3/4	952.90	3/4	617.10	3/4	281.39	3/4		3/4					
8	1,953.33	8	1,617.52	8	1,281.71	8	945.90	8	610.11	8	274.40	8		8					
1/4	1,946.33	1/4	1,610.52	1/4	1,274.72	1/4	938.91	1/4	603.12	1/4	267.40	1/4		1/4					
1/2	1,939.34	1/2	1,603.53	1/2	1,267.72	1/2	931.91	1/2	596.12	1/2	260.41	1/2		1/2					
3/4	1,932.34	3/4	1,596.53	3/4	1,260.72	3/4	924.91	3/4	589.13	3/4	253.41	3/4		3/4					
9	1,925.34	9	1,589.54	9	1,253.73	9	917.92	9	582.14	9	246.42	9		9					
1/4	1,918.35	1/4	1,582.54	1/4	1,246.73	1/4	910.92	1/4	575.15	1/4	239.42	1/4		1/4					
1/2	1,911.35	1/2	1,575.55	1/2	1,239.74	1/2	903.93	1/2	568.15	1/2	232.43	1/2		1/2					
3/4	1,904.35	3/4	1,568.55	3/4	1,232.74	3/4	896.93	3/4	561.16	3/4	225.43	3/4		3/4					
10	1,897.36	10	1,561.55	10	1,225.74	10	889.94	10	554.17	10	218.46	10		10					
1/4	1,890.36	1/4	1,554.56	1/4	1,218.75	1/4	882.94	1/4	547.17	1/4	211.49	1/4		1/4					
1/2	1,883.37	1/2	1,547.56	1/2	1,211.75	1/2	875.95	1/2	540.18	1/2	204.52	1/2		1/2					
3/4	1,876.37	3/4	1,540.56	3/4	1,204.75	3/4	868.95	3/4	533.18	3/4	197.55	3/4		3/4					
11	1,869.38	11	1,533.57	11	1,197.76	11	861.95	11	526.19	11	190.59	11		11					
1/4	1,862.38	1/4	1,526.57	1/4	1,190.76	1/4	854.96	1/4	519.20	1/4	183.63	1/4		1/4					
1/2	1,855.39	1/2	1,519.58	1/2	1,183.77	1/2	847.96	1/2	512.20	1/2	176.66	1/2		1/2					
3/4	1,848.39	3/4	1,512.58	3/4	1,176.77	3/4	840.96	3/4	505.21	3/4	169.70	3/4		3/4					

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 10/31/1994 CTC  
DECK MEASUREMENTS: 12/09/2014 SW  
REPRINTED: 12/09/2014 SW

CANCELS AND SUPERCEDES  
ALL PRIOR TO 12/2014

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





# BARGE "KIRBY 24702"

## 2 STBD ULLAGE TABLE

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

FORMERLY "HW 2523"

GAUGE HEIGHT 16'-06 1/8"

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	4,196.77	0	3,862.54	0	3,527.16	0	3,191.79	0	2,856.38	0	2,520.96
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,189.82	1/4	3,855.55	1/4	3,520.18	1/4	3,184.80	1/4	2,849.39	1/4	2,513.97
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,182.86	1/2	3,848.57	1/2	3,513.19	1/2	3,177.82	1/2	2,842.41	1/2	2,506.99
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,175.91	3/4	3,841.58	3/4	3,506.21	3/4	3,170.83	3/4	2,835.42	3/4	2,500.00
1	1	1	1	1	1	1	1	1	4,168.95	1	3,834.59	1	3,499.22	1	3,163.84	1	2,828.43	1	2,493.01
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,162.00	1/4	3,827.60	1/4	3,492.23	1/4	3,156.85	1/4	2,821.44	1/4	2,486.02
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,155.05	1/2	3,820.62	1/2	3,485.25	1/2	3,149.87	1/2	2,814.46	1/2	2,479.04
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,148.09	3/4	3,813.63	3/4	3,478.26	3/4	3,142.88	3/4	2,807.47	3/4	2,472.05
2	2	2	2	2	2	2	2	2	4,141.14	2	3,806.64	2	3,471.27	2	3,135.89	2	2,800.48	2	2,465.06
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,134.19	1/4	3,799.66	1/4	3,464.28	1/4	3,128.90	1/4	2,793.49	1/4	2,458.07
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,127.23	1/2	3,792.67	1/2	3,457.30	1/2	3,121.92	1/2	2,786.51	1/2	2,451.08
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,120.28	3/4	3,785.69	3/4	3,450.31	3/4	3,114.93	3/4	2,779.52	3/4	2,444.09
3	3	3	3	3	3	3	3	3	4,113.32	3	3,778.70	3	3,443.32	3	3,107.94	3	2,772.53	3	2,437.10
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,106.37	1/4	3,771.71	1/4	3,436.33	1/4	3,100.95	1/4	2,765.54	1/4	2,430.11
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,099.42	1/2	3,764.73	1/2	3,429.35	1/2	3,093.97	1/2	2,758.56	1/2	2,423.12
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,092.46	3/4	3,757.74	3/4	3,422.36	3/4	3,086.98	3/4	2,751.57	3/4	2,416.13
4	4	4	4	4	4	4	4	4	4,085.51	4	3,750.75	4	3,415.37	4	3,079.99	4	2,744.58	4	2,409.14
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,078.56	1/4	3,743.76	1/4	3,408.38	1/4	3,073.00	1/4	2,737.59	1/4	2,402.15
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,071.60	1/2	3,736.78	1/2	3,401.40	1/2	3,066.02	1/2	2,730.60	1/2	2,395.17
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,064.65	3/4	3,729.79	3/4	3,394.41	3/4	3,059.03	3/4	2,723.61	3/4	2,388.18
5	5	5	5	5	5	5	5	5	4,057.69	5	3,722.80	5	3,387.42	5	3,052.04	5	2,716.62	5	2,381.19
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,050.74	1/4	3,715.81	1/4	3,380.44	1/4	3,045.05	1/4	2,709.63	1/4	2,374.20
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,043.79	1/2	3,708.83	1/2	3,373.45	1/2	3,038.07	1/2	2,702.65	1/2	2,367.21
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,036.83	3/4	3,701.84	3/4	3,366.47	3/4	3,031.08	3/4	2,695.66	3/4	2,360.22
6	6	6	6	6	6	6	6	6	4,029.88	6	3,694.85	6	3,359.48	6	3,024.09	6	2,688.67	6	2,353.23
1/4	1/4	1/4	1/4	3/8	4,327.47	1/4	4,022.93	1/4	3,687.86	1/4	3,352.49	1/4	3,017.10	1/4	2,681.68	1/4	2,346.24		
1/2	1/2	1/2	1/2	1/2	4,325.72	1/2	4,015.97	1/2	3,680.88	1/2	3,345.51	1/2	3,010.12	1/2	2,674.70	1/2	2,339.26		
3/4	3/4	3/4	3/4	3/4	4,322.23	3/4	4,009.02	3/4	3,673.89	3/4	3,338.52	3/4	3,003.13	3/4	2,667.71	3/4	2,332.27		
7	7	7	7	7	4,318.50	7	4,002.06	7	3,666.90	7	3,331.53	7	2,996.14	7	2,660.72	7	2,325.28		
1/4	1/4	1/4	1/4	1/4	4,314.33	1/4	3,995.11	1/4	3,659.92	1/4	3,324.54	1/4	2,989.15	1/4	2,653.73	1/4	2,318.29		
1/2	1/2	1/2	1/2	1/2	4,309.93	1/2	3,988.16	1/2	3,652.93	1/2	3,317.56	1/2	2,982.17	1/2	2,646.75	1/2	2,311.30		
3/4	3/4	3/4	3/4	3/4	4,305.53	3/4	3,981.20	3/4	3,645.95	3/4	3,310.57	3/4	2,975.18	3/4	2,639.76	3/4	2,304.31		
8	8	8	8	8	4,300.83	8	3,974.25	8	3,638.96	8	3,303.58	8	2,968.19	8	2,632.77	8	2,297.32		
1/4	1/4	1/4	1/4	1/4	4,295.54	1/4	3,967.28	1/4	3,631.97	1/4	3,296.59	1/4	2,961.20	1/4	2,625.78	1/4	2,290.33		
1/2	1/2	1/2	1/2	1/2	4,289.95	1/2	3,960.31	1/2	3,624.99	1/2	3,289.61	1/2	2,954.22	1/2	2,618.80	1/2	2,283.34		
3/4	3/4	3/4	3/4	3/4	4,284.35	3/4	3,953.33	3/4	3,618.00	3/4	3,282.62	3/4	2,947.23	3/4	2,611.81	3/4	2,276.35		
9	9	9	9	9	4,278.51	9	3,946.36	9	3,611.01	9	3,275.63	9	2,940.24	9	2,604.82	9	2,269.36		
1/4	1/4	1/4	1/4	1/4	4,272.17	1/4	3,939.38	1/4	3,604.02	1/4	3,268.64	1/4	2,933.25	1/4	2,597.83	1/4	2,262.37		
1/2	1/2	1/2	1/2	1/2	4,265.58	1/2	3,932.40	1/2	3,597.04	1/2	3,261.66	1/2	2,926.26	1/2	2,590.85	1/2	2,255.39		
3/4	3/4	3/4	3/4	3/4	4,258.99	3/4	3,925.42	3/4	3,590.05	3/4	3,254.67	3/4	2,919.27	3/4	2,583.86	3/4	2,248.40		
10	10	10	10	10	4,252.31	10	3,918.44	10	3,583.06	10	3,247.68	10	2,912.28	10	2,576.87	10	2,241.41		
1/4	1/4	1/4	1/4	1/4	4,245.45	1/4	3,911.45	1/4	3,576.07	1/4	3,240.70	1/4	2,905.29	1/4	2,569.88	1/4	2,234.42		
1/2	1/2	1/2	1/2	1/2	4,238.49	1/2	3,904.47	1/2	3,569.09	1/2	3,233.71	1/2	2,898.31	1/2	2,562.89	1/2	2,227.43		
3/4	3/4	3/4	3/4	3/4	4,231.54	3/4	3,897.48	3/4	3,562.10	3/4	3,226.73	3/4	2,891.32	3/4	2,555.90	3/4	2,220.44		
11	11	11	11	11	4,224.58	11	3,890.49	11	3,555.11	11	3,219.74	11	2,884.33	11	2,548.91	11	2,213.45		
1/4	1/4	1/4	1/4	1/4	4,217.63	1/4	3,883.50	1/4	3,548.12	1/4	3,212.75	1/4	2,877.34	1/4	2,541.92	1/4	2,206.46		
1/2	1/2	1/2	1/2	1/2	4,210.68	1/2	3,876.52	1/2	3,541.14	1/2	3,205.77	1/2	2,870.36	1/2	2,534.94	1/2	2,199.48		
3/4	3/4	3/4	3/4	3/4	4,203.72	3/4	3,869.53	3/4	3,534.15	3/4	3,198.78	3/4	2,863.37	3/4	2,527.95	3/4	2,192.49		

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 UNDERSIDE OF DECK AT GAUGE POINT.

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

GAUGE POINT: (HERMETIC) LOCATED 10'-06" OFF CENTERLINE AND 43'-09" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT  
& ANALYSIS, INC.

P.O. Box 2092  
Pearland, Texas 77588

<http://www.pmacorp.net>





# BARGE "KIRBY 24702"

**2 STBD  
ULLAGE TABLE**

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

FORMERLY "HW 2523"

GAUGE HEIGHT 16'-06 1/8"

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	2,185.50	0	1,850.02	0	1,514.55	0	1,179.08	0	843.61	0	508.19	0	173.00	0		0		0	
1/4	2,178.51	1/4	1,843.03	1/4	1,507.56	1/4	1,172.09	1/4	836.62	1/4	501.21	1/4	166.05	1/4		1/4		1/4	
1/2	2,171.52	1/2	1,836.05	1/2	1,500.58	1/2	1,165.10	1/2	829.63	1/2	494.22	1/2	159.10	1/2		1/2		1/2	
3/4	2,164.53	3/4	1,829.06	3/4	1,493.59	3/4	1,158.11	3/4	822.64	3/4	487.24	3/4	152.14	3/4		3/4		3/4	
1	2,157.54	1	1,822.07	1	1,486.60	1	1,151.12	1	815.65	1	480.25	1	145.19	1		1		1	
1/4	2,150.55	1/4	1,815.08	1/4	1,479.61	1/4	1,144.13	1/4	808.66	1/4	473.26	1/4	138.24	1/4		1/4		1/4	
1/2	2,143.56	1/2	1,808.09	1/2	1,472.62	1/2	1,137.15	1/2	801.68	1/2	466.28	1/2	131.28	1/2		1/2		1/2	
3/4	2,136.57	3/4	1,801.10	3/4	1,465.63	3/4	1,130.16	3/4	794.69	3/4	459.29	3/4	124.33	3/4		3/4		3/4	
2	2,129.58	2	1,794.11	2	1,458.64	2	1,123.17	2	787.70	2	452.30	2	117.43	2		2		2	
1/4	2,122.59	1/4	1,787.12	1/4	1,451.65	1/4	1,116.18	1/4	780.71	1/4	445.32	1/4	110.64	1/4		1/4		1/4	
1/2	2,115.61	1/2	1,780.14	1/2	1,444.66	1/2	1,109.19	1/2	773.72	1/2	438.33	1/2	103.92	1/2		1/2		1/2	
3/4	2,108.62	3/4	1,773.15	3/4	1,437.67	3/4	1,102.20	3/4	766.73	3/4	431.35	3/4	97.19	3/4		3/4		3/4	
3	2,101.63	3	1,766.16	3	1,430.68	3	1,095.21	3	759.74	3	424.36	3	90.55	3		3		3	
1/4	2,094.64	1/4	1,759.17	1/4	1,423.69	1/4	1,088.22	1/4	752.75	1/4	417.37	1/4	84.11	1/4		1/4		1/4	
1/2	2,087.65	1/2	1,752.18	1/2	1,416.71	1/2	1,081.24	1/2	745.76	1/2	410.39	1/2	77.76	1/2		1/2		1/2	
3/4	2,080.66	3/4	1,745.19	3/4	1,409.72	3/4	1,074.25	3/4	738.77	3/4	403.40	3/4	71.40	3/4		3/4		3/4	
4	2,073.67	4	1,738.20	4	1,402.73	4	1,067.26	4	731.78	4	396.41	4	65.13	4		4		4	
1/4	2,066.68	1/4	1,731.21	1/4	1,395.74	1/4	1,060.27	1/4	724.79	1/4	389.43	1/4	59.00	1/4		1/4		1/4	
1/2	2,059.70	1/2	1,724.22	1/2	1,388.75	1/2	1,053.28	1/2	717.81	1/2	382.44	1/2	52.94	1/2		1/2		1/2	
3/4	2,052.71	3/4	1,717.23	3/4	1,381.76	3/4	1,046.29	3/4	710.82	3/4	375.46	3/4	46.89	3/4		3/4		3/4	
5	2,045.72	5	1,710.24	5	1,374.77	5	1,039.30	5	703.83	5	368.47	5	41.11	5		5		5	
1/4	2,038.73	1/4	1,703.25	1/4	1,367.78	1/4	1,032.31	1/4	696.84	1/4	361.48	1/4	35.89	1/4		1/4		1/4	
1/2	2,031.74	1/2	1,696.27	1/2	1,360.80	1/2	1,025.32	1/2	689.85	1/2	354.49	1/2	30.94	1/2		1/2		1/2	
3/4	2,024.75	3/4	1,689.28	3/4	1,353.81	3/4	1,018.33	3/4	682.86	3/4	347.50	3/4	25.99	3/4		3/4		3/4	
6	2,017.76	6	1,682.29	6	1,346.82	6	1,011.34	6	675.87	6	340.51	6	21.04	6		6		6	
1/4	2,010.77	1/4	1,675.30	1/4	1,339.83	1/4	1,004.35	1/4	668.88	1/4	333.52	1/8	18.56	1/4		1/4		1/4	
1/2	2,003.78	1/2	1,668.31	1/2	1,332.84	1/2	997.37	1/2	661.90	1/2	326.54	1/2		1/2		1/2		1/2	
3/4	1,996.79	3/4	1,661.32	3/4	1,325.85	3/4	990.38	3/4	654.91	3/4	319.55	3/4		3/4		3/4		3/4	
7	1,989.80	7	1,654.33	7	1,318.86	7	983.39	7	647.92	7	312.56	7		7		7		7	
1/4	1,982.81	1/4	1,647.34	1/4	1,311.87	1/4	976.40	1/4	640.93	1/4	305.57	1/4		1/4		1/4		1/4	
1/2	1,975.83	1/2	1,640.36	1/2	1,304.88	1/2	969.41	1/2	633.95	1/2	298.58	1/2		1/2		1/2		1/2	
3/4	1,968.84	3/4	1,633.37	3/4	1,297.89	3/4	962.42	3/4	626.96	3/4	291.59	3/4		3/4		3/4		3/4	
8	1,961.85	8	1,626.38	8	1,290.90	8	955.43	8	619.97	8	284.60	8		8		8		8	
1/4	1,954.86	1/4	1,619.39	1/4	1,283.91	1/4	948.44	1/4	612.99	1/4	277.61	1/4		1/4		1/4		1/4	
1/2	1,947.87	1/2	1,612.40	1/2	1,276.93	1/2	941.46	1/2	606.00	1/2	270.62	1/2		1/2		1/2		1/2	
3/4	1,940.88	3/4	1,605.41	3/4	1,269.94	3/4	934.47	3/4	599.02	3/4	263.63	3/4		3/4		3/4		3/4	
9	1,933.89	9	1,598.42	9	1,262.95	9	927.48	9	592.03	9	256.64	9		9		9		9	
1/4	1,926.90	1/4	1,591.43	1/4	1,255.96	1/4	920.49	1/4	585.04	1/4	249.65	1/4		1/4		1/4		1/4	
1/2	1,919.92	1/2	1,584.44	1/2	1,248.97	1/2	913.50	1/2	578.06	1/2	242.67	1/2		1/2		1/2		1/2	
3/4	1,912.93	3/4	1,577.45	3/4	1,241.98	3/4	906.51	3/4	571.07	3/4	235.68	3/4		3/4		3/4		3/4	
10	1,905.94	10	1,570.46	10	1,234.99	10	899.52	10	564.08	10	228.70	10		10		10		10	
1/4	1,898.95	1/4	1,563.47	1/4	1,228.00	1/4	892.53	1/4	557.10	1/4	221.72	1/4		1/4		1/4		1/4	
1/2	1,891.96	1/2	1,556.49	1/2	1,221.02	1/2	885.54	1/2	550.11	1/2	214.76	1/2		1/2		1/2		1/2	
3/4	1,884.97	3/4	1,549.50	3/4	1,214.03	3/4	878.55	3/4	543.13	3/4	207.79	3/4		3/4		3/4		3/4	
11	1,877.98	11	1,542.51	11	1,207.04	11	871.56	11	536.14	11	200.82	11		11		11		11	
1/4	1,870.99	1/4	1,535.52	1/4	1,200.05	1/4	864.57	1/4	529.15	1/4	193.87	1/4		1/4		1/4		1/4	
1/2	1,864.00	1/2	1,528.53	1/2	1,193.06	1/2	857.59	1/2	522.17	1/2	186.91	1/2		1/2		1/2		1/2	
3/4	1,857.01	3/4	1,521.54	3/4	1,186.07	3/4	850.60	3/4	515.18	3/4	179.96	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 10/31/1994 CTC  
DECK MEASUREMENTS: 12/09/2014 SW  
REPRINTED: 12/09/2014 SW

CANCELS AND SUPERCEDES  
ALL PRIOR TO 12/2014

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



# BARGE "KIRBY 24702"

## 3 PORT ULLAGE TABLE

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

FORMERLY "HW 2523"

GAUGE HEIGHT 16'-06"

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	3,723.14	0	3,480.62	0	3,237.31	0	2,994.42	0	2,716.75	0	2,397.76		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,718.10	1/4	3,475.55	1/4	3,232.24	1/4	2,989.35	1/4	2,710.10	1/4	2,391.10		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,713.05	1/2	3,470.48	1/2	3,227.17	1/2	2,984.28	1/2	2,703.46	1/2	2,384.45		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,708.01	3/4	3,465.42	3/4	3,222.11	3/4	2,979.22	3/4	2,696.81	3/4	2,377.79		
1	1	1	1	1	1	1	1	1	3,702.96	1	3,460.35	1	3,217.04	1	2,974.15	1	2,691.17	1	2,371.14		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,697.92	1/4	3,455.28	1/4	3,211.97	1/4	2,969.08	1/4	2,683.52	1/4	2,364.48		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,692.87	1/2	3,450.21	1/2	3,206.90	1/2	2,964.01	1/2	2,676.88	1/2	2,357.82		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,687.83	3/4	3,445.14	3/4	3,201.83	3/4	2,958.94	3/4	2,670.23	3/4	2,351.17		
2	2	2	2	2	2	2	2	2	3,682.78	2	3,440.07	2	3,196.76	2	2,953.87	2	2,663.59	2	2,344.51		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,677.74	1/4	3,435.00	1/4	3,191.69	1/4	2,948.80	1/4	2,656.94	1/4	2,337.85		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,672.69	1/2	3,429.93	1/2	3,186.62	1/2	2,943.73	1/2	2,650.30	1/2	2,331.20		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,667.65	3/4	3,424.87	3/4	3,181.55	3/4	2,938.66	3/4	2,643.65	3/4	2,324.54		
3	3	3	3	3	3	3	3	3	3,662.60	3	3,419.80	3	3,176.48	3	2,933.59	3	2,637.01	3	2,317.89		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,657.55	1/4	3,414.73	1/4	3,171.41	1/4	2,928.52	1/4	2,630.36	1/4	2,311.23		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,652.51	1/2	3,409.66	1/2	3,166.34	1/2	2,923.45	1/2	2,623.72	1/2	2,304.57		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,647.46	3/4	3,404.59	3/4	3,161.28	3/4	2,918.39	3/4	2,617.07	3/4	2,297.92		
4	4	4	4	4	4	4	4	4	3,642.41	4	3,399.52	4	3,156.21	4	2,913.32	4	2,610.43	4	2,291.26		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,637.37	1/4	3,394.45	1/4	3,151.14	1/4	2,908.25	1/4	2,603.78	1/4	2,284.60		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,632.32	1/2	3,389.38	1/2	3,146.07	1/2	2,903.18	1/2	2,597.14	1/2	2,277.95		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,627.28	3/4	3,384.31	3/4	3,141.00	3/4	2,898.11	3/4	2,590.49	3/4	2,271.29		
5	5	5	5	5	5	5	5	5	3,622.23	5	3,379.24	5	3,135.93	5	2,893.04	5	2,583.85	5	2,264.64		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,617.19	1/4	3,374.17	1/4	3,130.86	1/4	2,887.97	1/4	2,577.20	1/4	2,257.98		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,612.14	1/2	3,369.10	1/2	3,125.79	1/2	2,882.90	1/2	2,570.56	1/2	2,251.32		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,607.10	3/4	3,364.04	3/4	3,120.73	3/4	2,877.83	3/4	2,563.91	3/4	2,244.67		
6	6	6	6	6	6	6	6	6	3,602.05	6	3,358.97	6	3,115.66	6	2,872.76	6	2,557.27	6	2,238.01		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,597.00	1/4	3,353.90	1/4	3,110.59	1/4	2,866.91	1/4	2,550.62	1/4	2,231.35		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,818.47	1/2	3,591.96	1/2	3,105.52	1/2	2,861.06	1/2	2,543.98	1/2	2,224.70		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,815.60	3/4	3,586.91	3/4	3,100.45	3/4	2,855.21	3/4	2,537.33	3/4	2,218.04		
7	7	7	7	7	7	7	7	7	3,812.72	7	3,581.86	7	3,338.69	7	3,095.38	7	2,849.36	7	2,530.69	7	2,211.39
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,809.42	1/4	3,576.82	1/4	3,333.62	1/4	3,090.33	1/4	2,842.73	1/4	2,524.04	1/4	2,204.73
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,806.13	1/2	3,571.77	1/2	3,328.55	1/2	3,085.28	1/2	2,836.10	1/2	2,517.40	1/2	2,198.07
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,802.83	3/4	3,566.73	3/4	3,323.49	3/4	3,080.23	3/4	2,829.48	3/4	2,510.75	3/4	2,191.42
8	8	8	8	8	8	8	8	8	3,799.53	8	3,561.68	8	3,318.42	8	3,075.18	8	2,822.85	8	2,504.11	8	2,184.76
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,795.36	1/4	3,556.62	1/4	3,313.35	1/4	3,070.14	1/4	2,816.22	1/4	2,497.46	1/4	2,178.10
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,791.19	1/2	3,551.57	1/2	3,308.28	1/2	3,065.09	1/2	2,809.59	1/2	2,490.81	1/2	2,171.45
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,787.02	3/4	3,546.51	3/4	3,303.21	3/4	3,060.05	3/4	2,802.96	3/4	2,484.17	3/4	2,164.79
9	9	9	9	9	9	9	9	9	3,782.85	9	3,541.45	9	3,298.14	9	3,055.01	9	2,796.33	9	2,477.52	9	2,158.14
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,778.02	1/4	3,536.38	1/4	3,293.07	1/4	3,049.97	1/4	2,789.70	1/4	2,470.87	1/4	2,151.48
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,773.18	1/2	3,531.32	1/2	3,288.00	1/2	3,044.92	1/2	2,783.07	1/2	2,464.23	1/2	2,144.82
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,768.35	3/4	3,526.25	3/4	3,282.93	3/4	3,039.88	3/4	2,776.44	3/4	2,457.58	3/4	2,138.17
10	10	10	10	10	10	10	10	10	3,763.51	10	3,521.18	10	3,277.86	10	3,034.84	10	2,769.81	10	2,450.94	10	2,131.51
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,758.47	1/4	3,516.11	1/4	3,272.79	1/4	3,029.80	1/4	2,763.18	1/4	2,444.29	1/4	2,124.85
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,753.42	1/2	3,511.04	1/2	3,267.72	1/2	3,024.75	1/2	2,756.55	1/2	2,437.65	1/2	2,118.20
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,748.38	3/4	3,505.97	3/4	3,262.66	3/4	3,019.71	3/4	2,749.92	3/4	2,431.00	3/4	2,111.54
11	11	11	11	11	11	11	11	11	3,743.33	11	3,500.90	11	3,257.59	11	3,014.67	11	2,743.29	11	2,424.36	11	2,104.89
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,738.28	1/4	3,495.83	1/4	3,252.52	1/4	3,009.61	1/4	2,736.65	1/4	2,417.71	1/4	2,098.23
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,733.24	1/2	3,490.76	1/2	3,247.45	1/2	3,004.54	1/2	2,730.02	1/2	2,411.06	1/2	2,091.57
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,728.19	3/4	3,485.69	3/4	3,242.38	3/4	2,999.48	3/4	2,723.38	3/4	2,404.41	3/4	2,084.92

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 UNDERSIDE OF DECK AT GAUGE POINT.  
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES OBSERVED WITH "HERMETIC" CLOSED GAUGING DEVICE.  
 GAUGE POINT: (HERMETIC) LOCATED 11'-00" OFF CENTERLINE AND 39'-09" FORWARD OF AFT BULKHEAD.

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





# BARGE "KIRBY 24702"

## 3 PORT ULLAGE TABLE

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

FORMERLY "HW 2523"

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	2,078.26	0	1,758.76	0	1,439.25	0	1,119.73	0	800.21	0	480.73	0	161.49	0		0		0	
1/4	2,071.60	1/4	1,752.10	1/4	1,432.59	1/4	1,113.07	1/4	793.55	1/4	474.08	1/4	154.86	1/4		1/4		1/4	
1/2	2,064.94	1/2	1,745.44	1/2	1,425.93	1/2	1,106.41	1/2	786.89	1/2	467.42	1/2	148.24	1/2		1/2		1/2	
3/4	2,058.29	3/4	1,738.79	3/4	1,419.28	3/4	1,099.76	3/4	780.24	3/4	460.77	3/4	141.61	3/4		3/4		3/4	
1	2,051.63	1	1,732.13	1	1,412.62	1	1,093.10	1	773.58	1	454.12	1	134.99	1		1		1	
1/4	2,044.97	1/4	1,725.47	1/4	1,405.96	1/4	1,086.44	1/4	766.92	1/4	447.46	1/4	128.37	1/4		1/4		1/4	
1/2	2,038.32	1/2	1,718.82	1/2	1,399.31	1/2	1,079.79	1/2	760.26	1/2	440.81	1/2	121.74	1/2		1/2		1/2	
3/4	2,031.66	3/4	1,712.16	3/4	1,392.65	3/4	1,073.13	3/4	753.61	3/4	434.15	3/4	115.12	3/4		3/4		3/4	
2	2,025.01	2	1,705.51	2	1,386.00	2	1,066.48	2	746.95	2	427.50	2	108.50	2		2		2	
1/4	2,018.35	1/4	1,698.85	1/4	1,379.34	1/4	1,059.82	1/4	740.29	1/4	420.84	1/4	102.16	1/4		1/4		1/4	
1/2	2,011.69	1/2	1,692.19	1/2	1,372.68	1/2	1,053.16	1/2	733.63	1/2	414.19	1/2	95.82	1/2		1/2		1/2	
3/4	2,005.04	3/4	1,685.54	3/4	1,366.03	3/4	1,046.51	3/4	726.98	3/4	407.53	3/4	89.49	3/4		3/4		3/4	
3	1,998.38	3	1,678.88	3	1,359.37	3	1,039.85	3	720.32	3	400.88	3	83.15	3		3		3	
1/4	1,991.72	1/4	1,672.22	1/4	1,352.71	1/4	1,033.19	1/4	713.66	1/4	394.23	1/4	77.10	1/4		1/4		1/4	
1/2	1,985.07	1/2	1,665.57	1/2	1,346.05	1/2	1,026.54	1/2	707.00	1/2	387.57	1/2	71.05	1/2		1/2		1/2	
3/4	1,978.41	3/4	1,658.91	3/4	1,339.40	3/4	1,019.88	3/4	700.35	3/4	380.92	3/4	65.00	3/4		3/4		3/4	
4	1,971.76	4	1,652.26	4	1,332.74	4	1,013.23	4	693.69	4	374.27	4	58.95	4		4		4	
1/4	1,965.10	1/4	1,645.60	1/4	1,326.08	1/4	1,006.57	1/4	687.03	1/4	367.61	1/4	53.21	1/4		1/4		1/4	
1/2	1,958.44	1/2	1,638.94	1/2	1,319.43	1/2	999.91	1/2	680.38	1/2	360.96	1/2	47.47	1/2		1/2		1/2	
3/4	1,951.79	3/4	1,632.29	3/4	1,312.77	3/4	993.26	3/4	673.72	3/4	354.30	3/4	41.74	3/4		3/4		3/4	
5	1,945.13	5	1,625.63	5	1,306.12	5	986.60	5	667.07	5	347.65	5	36.00	5		5		5	
1/4	1,938.47	1/4	1,618.97	1/4	1,299.46	1/4	979.94	1/4	660.41	1/4	340.99	1/4	31.42	1/4		1/4		1/4	
1/2	1,931.82	1/2	1,612.32	1/2	1,292.80	1/2	973.28	1/2	653.75	1/2	334.33	1/2	26.84	1/2		1/2		1/2	
3/4	1,925.16	3/4	1,605.66	3/4	1,286.15	3/4	966.63	3/4	647.10	3/4	327.68	3/4	22.27	3/4		3/4		3/4	
6	1,918.51	6	1,599.01	6	1,279.49	6	959.97	6	640.44	6	321.02	6	17.69	6		6		6	
1/4	1,911.85	1/4	1,592.35	1/4	1,272.83	1/4	953.31	1/4	633.78	1/4	314.36	1/4		1/4		1/4		1/4	
1/2	1,905.19	1/2	1,585.69	1/2	1,266.17	1/2	946.65	1/2	627.12	1/2	307.70	1/2		1/2		1/2		1/2	
3/4	1,898.54	3/4	1,579.04	3/4	1,259.52	3/4	940.00	3/4	620.47	3/4	301.05	3/4		3/4		3/4		3/4	
7	1,891.88	7	1,572.38	7	1,252.86	7	933.34	7	613.81	7	294.39	7		7		7		7	
1/4	1,885.22	1/4	1,565.72	1/4	1,246.20	1/4	926.68	1/4	607.16	1/4	287.73	1/4		1/4		1/4		1/4	
1/2	1,878.57	1/2	1,559.06	1/2	1,239.55	1/2	920.03	1/2	600.50	1/2	281.08	1/2		1/2		1/2		1/2	
3/4	1,871.91	3/4	1,552.41	3/4	1,232.89	3/4	913.37	3/4	593.85	3/4	274.42	3/4		3/4		3/4		3/4	
8	1,865.26	8	1,545.75	8	1,226.24	8	906.72	8	587.20	8	267.77	8		8		8		8	
1/4	1,858.60	1/4	1,539.09	1/4	1,219.58	1/4	900.06	1/4	580.54	1/4	261.11	1/4		1/4		1/4		1/4	
1/2	1,851.94	1/2	1,532.44	1/2	1,212.92	1/2	893.40	1/2	573.89	1/2	254.45	1/2		1/2		1/2		1/2	
3/4	1,845.29	3/4	1,525.78	3/4	1,206.27	3/4	886.75	3/4	567.23	3/4	247.80	3/4		3/4		3/4		3/4	
9	1,838.63	9	1,519.13	9	1,199.61	9	880.09	9	560.58	9	241.14	9		9		9		9	
1/4	1,831.97	1/4	1,512.47	1/4	1,192.95	1/4	873.43	1/4	553.93	1/4	234.48	1/4		1/4		1/4		1/4	
1/2	1,825.32	1/2	1,505.81	1/2	1,186.29	1/2	866.77	1/2	547.27	1/2	227.82	1/2		1/2		1/2		1/2	
3/4	1,818.66	3/4	1,499.16	3/4	1,179.64	3/4	860.12	3/4	540.62	3/4	221.17	3/4		3/4		3/4		3/4	
10	1,812.01	10	1,492.50	10	1,172.98	10	853.46	10	533.97	10	214.51	10		10		10		10	
1/4	1,805.35	1/4	1,485.84	1/4	1,166.32	1/4	846.80	1/4	527.31	1/4	207.88	1/4		1/4		1/4		1/4	
1/2	1,798.69	1/2	1,479.18	1/2	1,159.67	1/2	840.14	1/2	520.66	1/2	201.24	1/2		1/2		1/2		1/2	
3/4	1,792.04	3/4	1,472.53	3/4	1,153.01	3/4	833.49	3/4	514.00	3/4	194.61	3/4		3/4		3/4		3/4	
11	1,785.38	11	1,465.87	11	1,146.36	11	826.83	11	507.35	11	187.98	11		11		11		11	
1/4	1,778.72	1/4	1,459.21	1/4	1,139.70	1/4	820.17	1/4	500.69	1/4	181.36	1/4		1/4		1/4		1/4	
1/2	1,772.07	1/2	1,452.56	1/2	1,133.04	1/2	813.52	1/2	494.04	1/2	174.73	1/2		1/2		1/2		1/2	
3/4	1,765.41	3/4	1,445.90	3/4	1,126.39	3/4	806.86	3/4	487.38	3/4	168.11	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 10/31/1994 CTC  
DECK MEASUREMENTS: 12/09/2014 SW  
REPRINTED: 12/09/2014 SW

CANCELS AND SUPERCEDES  
ALL PRIOR TO 12/2014

PRECISION MEASUREMENT  
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# BARGE "KIRBY 24702"

## 3 STBD ULLAGE TABLE

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

FORMERLY "HW 2523"

GAUGE HEIGHT 16'-05 3/8"

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	3,699.42	0	3,457.00	0	3,213.85	0	2,971.54	0	2,690.39	0	2,372.15
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,694.38	1/4	3,451.93	1/4	3,208.78	1/4	2,966.47	1/4	2,683.76	1/4	2,365.51
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,689.34	1/2	3,446.87	1/2	3,203.72	1/2	2,961.41	1/2	2,677.13	1/2	2,358.87
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,684.30	3/4	3,441.80	3/4	3,198.65	3/4	2,956.34	3/4	2,670.51	3/4	2,352.23
1	1	1	1	1	1	1	1	1	3,679.25	1	3,436.74	1	3,193.59	1	2,951.28	1	2,663.88	1	2,345.59
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,674.21	1/4	3,431.67	1/4	3,188.52	1/4	2,946.21	1/4	2,657.25	1/4	2,338.95
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,669.17	1/2	3,426.61	1/2	3,183.45	1/2	2,941.15	1/2	2,650.62	1/2	2,332.31
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,664.13	3/4	3,421.54	3/4	3,178.39	3/4	2,936.08	3/4	2,644.00	3/4	2,325.67
2	2	2	2	2	2	2	2	2	3,659.08	2	3,416.48	2	3,173.32	2	2,931.02	2	2,637.37	2	2,319.03
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,654.04	1/4	3,411.41	1/4	3,168.25	1/4	2,925.95	1/4	2,630.74	1/4	2,312.39
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,649.00	1/2	3,406.35	1/2	3,163.19	1/2	2,920.88	1/2	2,624.11	1/2	2,305.75
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,643.96	3/4	3,401.28	3/4	3,158.12	3/4	2,915.82	3/4	2,617.48	3/4	2,299.11
3	3	3	3	3	3	3	3	3	3,638.91	3	3,396.22	3	3,153.06	3	2,910.75	3	2,610.85	3	2,292.47
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,633.87	1/4	3,391.15	1/4	3,147.99	1/4	2,905.68	1/4	2,604.22	1/4	2,285.83
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,628.83	1/2	3,386.08	1/2	3,142.93	1/2	2,900.62	1/2	2,597.59	1/2	2,279.19
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,623.79	3/4	3,381.02	3/4	3,137.86	3/4	2,895.55	3/4	2,590.97	3/4	2,272.55
4	4	4	4	4	4	4	4	4	3,618.74	4	3,375.95	4	3,132.80	4	2,890.49	4	2,584.34	4	2,265.91
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,613.70	1/4	3,370.88	1/4	3,127.73	1/4	2,885.42	1/4	2,577.71	1/4	2,259.27
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,608.66	1/2	3,365.82	1/2	3,122.67	1/2	2,880.35	1/2	2,571.08	1/2	2,252.63
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,603.62	3/4	3,360.75	3/4	3,117.60	3/4	2,875.29	3/4	2,564.45	3/4	2,245.99
5	5	5	5	5	5	5	5	5	3,598.57	5	3,355.69	5	3,112.54	5	2,870.22	5	2,557.82	5	2,239.35
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,593.53	1/4	3,350.62	1/4	3,107.47	1/4	2,865.01	1/4	2,551.19	1/4	2,232.71
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,588.49	1/2	3,345.56	1/2	3,102.40	1/2	2,859.51	1/2	2,544.56	1/2	2,226.07
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,583.45	3/4	3,340.49	3/4	3,097.34	3/4	2,853.86	3/4	2,537.93	3/4	2,219.43
6	6	6	6	6 1/8	3,804.42	6	3,578.40	6	3,335.43	6	3,092.27	6	2,848.22	6	2,531.30	6	2,212.78		
1/4	1/4	1/4	1/4	1/4	3,802.98	1/4	3,573.36	1/4	3,330.36	1/4	3,087.21	1/4	2,842.33	1/4	2,524.67	1/4	2,206.14		
1/2	1/2	1/2	1/2	1/2	3,800.00	1/2	3,568.32	1/2	3,325.29	1/2	3,082.17	1/2	2,835.96	1/2	2,518.04	1/2	2,199.50		
3/4	3/4	3/4	3/4	3/4	3,796.81	3/4	3,563.28	3/4	3,320.23	3/4	3,077.14	3/4	2,829.34	3/4	2,511.41	3/4	2,192.86		
7	7	7	7	7	3,793.52	7	3,558.23	7	3,315.16	7	3,072.10	7	2,822.73	7	2,504.78	7	2,186.22		
1/4	1/4	1/4	1/4	1/4	3,790.03	1/4	3,553.19	1/4	3,310.09	1/4	3,067.08	1/4	2,816.11	1/4	2,498.15	1/4	2,179.58		
1/2	1/2	1/2	1/2	1/2	3,786.17	1/2	3,548.14	1/2	3,305.03	1/2	3,062.06	1/2	2,809.50	1/2	2,491.52	1/2	2,172.94		
3/4	3/4	3/4	3/4	3/4	3,782.11	3/4	3,543.09	3/4	3,299.96	3/4	3,057.05	3/4	2,802.89	3/4	2,484.89	3/4	2,166.30		
8	8	8	8	8	3,778.06	8	3,538.03	8	3,294.90	8	3,052.03	8	2,796.27	8	2,478.26	8	2,159.66		
1/4	1/4	1/4	1/4	1/4	3,773.82	1/4	3,532.98	1/4	3,289.83	1/4	3,047.02	1/4	2,789.66	1/4	2,471.63	1/4	2,153.02		
1/2	1/2	1/2	1/2	1/2	3,769.22	1/2	3,527.92	1/2	3,284.77	1/2	3,042.01	1/2	2,783.05	1/2	2,465.00	1/2	2,146.38		
3/4	3/4	3/4	3/4	3/4	3,764.45	3/4	3,522.85	3/4	3,279.70	3/4	3,037.00	3/4	2,776.44	3/4	2,458.38	3/4	2,139.74		
9	9	9	9	9	3,759.67	9	3,517.79	9	3,274.64	9	3,031.98	9	2,769.82	9	2,451.75	9	2,133.10		
1/4	1/4	1/4	1/4	1/4	3,754.82	1/4	3,512.72	1/4	3,269.57	1/4	3,026.97	1/4	2,763.21	1/4	2,445.12	1/4	2,126.46		
1/2	1/2	1/2	1/2	1/2	3,749.85	1/2	3,507.66	1/2	3,264.51	1/2	3,021.96	1/2	2,756.60	1/2	2,438.49	1/2	2,119.82		
3/4	3/4	3/4	3/4	3/4	3,744.81	3/4	3,502.59	3/4	3,259.44	3/4	3,016.95	3/4	2,749.98	3/4	2,431.86	3/4	2,113.18		
10	10	10	10	10	3,739.76	10	3,497.53	10	3,254.38	10	3,011.93	10	2,743.37	10	2,425.23	10	2,106.54		
1/4	1/4	1/4	1/4	1/4	3,734.72	1/4	3,492.46	1/4	3,249.31	1/4	3,006.91	1/4	2,736.75	1/4	2,418.60	1/4	2,099.90		
1/2	1/2	1/2	1/2	1/2	3,729.68	1/2	3,487.40	1/2	3,244.24	1/2	3,001.87	1/2	2,730.13	1/2	2,411.97	1/2	2,093.26		
3/4	3/4	3/4	3/4	3/4	3,724.64	3/4	3,482.33	3/4	3,239.18	3/4	2,996.83	3/4	2,723.52	3/4	2,405.34	3/4	2,086.62		
11	11	11	11	11	3,719.59	11	3,477.27	11	3,234.11	11	2,991.78	11	2,716.90	11	2,398.70	11	2,079.98		
1/4	1/4	1/4	1/4	1/4	3,714.55	1/4	3,472.20	1/4	3,229.04	1/4	2,986.73	1/4	2,710.28	1/4	2,392.07	1/4	2,073.34		
1/2	1/2	1/2	1/2	1/2	3,709.51	1/2	3,467.13	1/2	3,223.98	1/2	2,981.67	1/2	2,703.65	1/2	2,385.43	1/2	2,066.70		
3/4	3/4	3/4	3/4	3/4	3,704.47	3/4	3,462.07	3/4	3,218.91	3/4	2,976.60	3/4	2,697.02	3/4	2,378.79	3/4	2,060.06		

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 UNDERSIDE OF DECK AT GAUGE POINT.  
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES OBSERVED WITH "HERMETIC" CLOSED GAUGING DEVICE.  
 GAUGE POINT: (HERMETIC) LOCATED 10'-06" OFF CENTERLINE AND 39'-09" FORWARD OF AFT BULKHEAD.

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



# BARGE "KIRBY 24702"

## 3 STBD ULLAGE TABLE

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

FORMERLY "HW 2523"

GAUGE HEIGHT 16'-05 3/8"

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	2,053.42	0	1,734.79	0	1,417.40	0	1,098.67	0	779.94	0	462.24	0	144.57	0		0		0	
1/4	2,046.78	1/4	1,728.15	1/4	1,410.76	1/4	1,092.03	1/4	773.30	1/4	455.64	1/4	137.96	1/4		1/4		1/4	
1/2	2,040.14	1/2	1,721.51	1/2	1,404.12	1/2	1,085.39	1/2	766.66	1/2	449.04	1/2	131.35	1/2		1/2		1/2	
3/4	2,033.50	3/4	1,714.88	3/4	1,397.48	3/4	1,078.75	3/4	760.02	3/4	442.44	3/4	124.75	3/4		3/4		3/4	
1	2,026.86	1	1,708.24	1	1,390.84	1	1,072.11	1	753.38	1	435.83	1	118.14	1		1		1	
1/4	2,020.22	1/4	1,701.60	1/4	1,384.20	1/4	1,065.47	1/4	746.74	1/4	429.23	1/4	111.58	1/4		1/4		1/4	
1/2	2,013.58	1/2	1,694.96	1/2	1,377.56	1/2	1,058.83	1/2	740.10	1/2	422.63	1/2	105.14	1/2		1/2		1/2	
3/4	2,006.94	3/4	1,688.33	3/4	1,370.92	3/4	1,052.19	3/4	733.46	3/4	416.03	3/4	98.75	3/4		3/4		3/4	
2	2,000.29	2	1,681.69	2	1,364.28	2	1,045.55	2	726.81	2	409.43	2	92.35	2		2		2	
1/4	1,993.65	1/4	1,675.05	1/4	1,357.64	1/4	1,038.91	1/4	720.17	1/4	402.83	1/4	86.05	1/4		1/4		1/4	
1/2	1,987.01	1/2	1,668.42	1/2	1,351.00	1/2	1,032.27	1/2	713.53	1/2	396.23	1/2	79.93	1/2		1/2		1/2	
3/4	1,980.37	3/4	1,661.78	3/4	1,344.36	3/4	1,025.63	3/4	706.89	3/4	389.63	3/4	73.89	3/4		3/4		3/4	
3	1,973.73	3	1,655.15	3	1,337.72	3	1,018.99	3	700.25	3	383.03	3	67.86	3		3		3	
1/4	1,967.09	1/4	1,648.51	1/4	1,331.08	1/4	1,012.35	1/4	693.61	1/4	376.43	1/4	61.89	1/4		1/4		1/4	
1/2	1,960.45	1/2	1,641.87	1/2	1,324.44	1/2	1,005.71	1/2	686.97	1/2	369.83	1/2	56.07	1/2		1/2		1/2	
3/4	1,953.81	3/4	1,635.24	3/4	1,317.80	3/4	999.07	3/4	680.33	3/4	363.23	3/4	50.32	3/4		3/4		3/4	
4	1,947.17	4	1,628.60	4	1,311.16	4	992.43	4	673.69	4	356.62	4	44.57	4		4		4	
1/4	1,940.53	1/4	1,621.96	1/4	1,304.52	1/4	985.79	1/4	667.05	1/4	350.02	1/4	39.08	1/4		1/4		1/4	
1/2	1,933.89	1/2	1,615.33	1/2	1,297.88	1/2	979.15	1/2	660.41	1/2	343.40	1/2	34.12	1/2		1/2		1/2	
3/4	1,927.25	3/4	1,608.69	3/4	1,291.24	3/4	972.51	3/4	653.78	3/4	336.79	3/4	29.42	3/4		3/4		3/4	
5	1,920.61	5	1,602.06	5	1,284.60	5	965.87	5	647.14	5	330.17	5	24.72	5		5		5	
1/4	1,913.97	1/4	1,595.42	1/4	1,277.96	1/4	959.23	1/4	640.51	1/4	323.54	1/4	20.02	1/4		1/4		1/4	
1/2	1,907.33	1/2	1,588.78	1/2	1,271.32	1/2	952.59	1/2	633.89	1/2	316.91	1/2	17.67	1/2		1/2		1/2	
3/4	1,900.70	3/4	1,582.14	3/4	1,264.68	3/4	945.95	3/4	627.28	3/4	310.27	3/4		3/4		3/4		3/4	
6	1,894.06	6	1,575.50	6	1,258.04	6	939.31	6	620.67	6	303.63	6		6		6		6	
1/4	1,887.42	1/4	1,568.87	1/4	1,251.40	1/4	932.67	1/4	614.06	1/4	296.99	1/4		1/4		1/4		1/4	
1/2	1,880.78	1/2	1,562.27	1/2	1,244.76	1/2	926.03	1/2	607.46	1/2	290.35	1/2		1/2		1/2		1/2	
3/4	1,874.15	3/4	1,555.68	3/4	1,238.12	3/4	919.39	3/4	600.86	3/4	283.71	3/4		3/4		3/4		3/4	
7	1,867.51	7	1,549.09	7	1,231.47	7	912.75	7	594.26	7	277.07	7		7		7		7	
1/4	1,860.87	1/4	1,542.51	1/4	1,224.83	1/4	906.11	1/4	587.66	1/4	270.43	1/4		1/4		1/4		1/4	
1/2	1,854.24	1/2	1,535.94	1/2	1,218.19	1/2	899.47	1/2	581.06	1/2	263.79	1/2		1/2		1/2		1/2	
3/4	1,847.60	3/4	1,529.38	3/4	1,211.55	3/4	892.83	3/4	574.46	3/4	257.15	3/4		3/4		3/4		3/4	
8	1,840.97	8	1,522.81	8	1,204.91	8	886.18	8	567.85	8	250.51	8		8		8		8	
1/4	1,834.33	1/4	1,516.25	1/4	1,198.27	1/4	879.54	1/4	561.25	1/4	243.87	1/4		1/4		1/4		1/4	
1/2	1,827.69	1/2	1,509.69	1/2	1,191.63	1/2	872.90	1/2	554.65	1/2	237.23	1/2		1/2		1/2		1/2	
3/4	1,821.06	3/4	1,503.13	3/4	1,184.99	3/4	866.26	3/4	548.05	3/4	230.59	3/4		3/4		3/4		3/4	
9	1,814.42	9	1,496.57	9	1,178.35	9	859.62	9	541.45	9	223.94	9		9		9		9	
1/4	1,807.78	1/4	1,490.01	1/4	1,171.71	1/4	852.98	1/4	534.85	1/4	217.31	1/4		1/4		1/4		1/4	
1/2	1,801.15	1/2	1,483.45	1/2	1,165.07	1/2	846.34	1/2	528.25	1/2	210.68	1/2		1/2		1/2		1/2	
3/4	1,794.51	3/4	1,476.89	3/4	1,158.43	3/4	839.70	3/4	521.65	3/4	204.06	3/4		3/4		3/4		3/4	
10	1,787.88	10	1,470.32	10	1,151.79	10	833.06	10	515.05	10	197.44	10		10		10		10	
1/4	1,781.24	1/4	1,463.75	1/4	1,145.15	1/4	826.42	1/4	508.45	1/4	190.82	1/4		1/4		1/4		1/4	
1/2	1,774.60	1/2	1,457.15	1/2	1,138.51	1/2	819.78	1/2	501.85	1/2	184.21	1/2		1/2		1/2		1/2	
3/4	1,767.97	3/4	1,450.54	3/4	1,131.87	3/4	813.14	3/4	495.25	3/4	177.61	3/4		3/4		3/4		3/4	
11	1,761.33	11	1,443.93	11	1,125.23	11	806.50	11	488.64	11	171.00	11		11		11		11	
1/4	1,754.69	1/4	1,437.31	1/4	1,118.59	1/4	799.86	1/4	482.04	1/4	164.39	1/4		1/4		1/4		1/4	
1/2	1,748.06	1/2	1,430.68	1/2	1,111.95	1/2	793.22	1/2	475.44	1/2	157.78	1/2		1/2		1/2		1/2	
3/4	1,741.42	3/4	1,424.04	3/4	1,105.31	3/4	786.58	3/4	468.84	3/4	151.18	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 10/31/1994 CTC  
DECK MEASUREMENTS: 12/09/2014 SW  
REPRINTED: 12/09/2014 SW

CANCELS AND SUPERCEDES  
ALL PRIOR TO 12/2014

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