



# BARGE "KIRBY 31010"

ULLAGE TRIM TABLE  
FORMERLY "SMI 30017"

	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	- 00-1/8	00-1/8	- 00-1/4	00-1/4	- 00-1/4	00-1/4	- 00-1/4	00-1/4	- 00-3/8	00-3/8
1 STBD	- 00-0/8	00-0/8	- 00-1/8	00-1/8	- 00-1/4	00-1/4	- 00-1/4	00-1/4	- 00-1/4	00-1/4	- 00-3/8	00-3/8
2 PORT	- 00-0/8	00-0/8	- 00-1/8	00-1/8	- 00-1/4	00-1/4	- 00-1/4	00-1/4	- 00-1/4	00-1/4	- 00-3/8	00-3/8
2 STBD	- 00-0/8	00-0/8	- 00-1/8	00-1/8	- 00-1/4	00-1/4	- 00-1/4	00-1/4	- 00-1/4	00-1/4	- 00-3/8	00-3/8
3 PORT	00-5/8	- 00-5/8	01-1/4	- 01-1/4	01-3/4	- 01-3/4	02-1/2	- 02-1/2	02-7/8	- 02-7/8	03-3/8	- 03-3/8
3 STBD	00-5/8	- 00-5/8	01-1/4	- 01-1/4	01-3/4	- 01-3/4	02-1/2	- 02-1/2	02-7/8	- 02-7/8	03-3/8	- 03-3/8

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

FWD. DRAFT = 2'-00"  
AFT DRAFT = 7'-00"  
DIFF. = 5'-00" (DOWN BY STERN)

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

November 12, 2020

**PRECISION MEASUREMENT  
& ANALYSIS, INC.**

P.O. Box 2092  
Pearland, Texas 77588

<http://www.pmacorp.net>



# BARGE "KIRBY 31010"

## 1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "SMS 30017"

GAUGE HEIGHT 17'-04"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT
0		0		0		0	5,179.48	0	4,836.87	0	4,479.11	0	4,115.90	0	3,752.68	0	3,389.47	0	3,026.25
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,172.52	1/4	4,829.59	1/4	4,471.55	1/4	4,108.33	1/4	3,745.11	1/4	3,381.90	1/4	3,018.68
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,165.56	1/2	4,822.30	1/2	4,463.98	1/2	4,100.77	1/2	3,737.55	1/2	3,374.33	1/2	3,011.11
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,158.59	3/4	4,815.02	3/4	4,456.42	3/4	4,093.20	3/4	3,729.98	3/4	3,366.77	3/4	3,003.55
1		1		1		1	5,151.63	1	4,807.73	1	4,448.85	1	4,085.63	1	3,722.41	1	3,359.20	1	2,995.98
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,144.59	1/4	4,800.37	1/4	4,441.28	1/4	4,078.06	1/4	3,714.85	1/4	3,351.63	1/4	2,988.41
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,137.54	1/2	4,793.00	1/2	4,433.72	1/2	4,070.50	1/2	3,707.28	1/2	3,344.06	1/2	2,980.84
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,130.50	3/4	4,785.64	3/4	4,426.15	3/4	4,062.93	3/4	3,699.72	3/4	3,336.50	3/4	2,973.28
2		2		2		2	5,123.45	2	4,778.27	2	4,418.58	2	4,055.36	2	3,692.15	2	3,328.93	2	2,965.71
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,116.41	1/4	4,770.90	1/4	4,411.01	1/4	4,047.79	1/4	3,684.58	1/4	3,321.36	1/4	2,958.14
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,109.36	1/2	4,763.54	1/2	4,403.45	1/2	4,040.23	1/2	3,677.02	1/2	3,313.79	1/2	2,950.58
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,102.32	3/4	4,756.17	3/4	4,395.88	3/4	4,032.66	3/4	3,669.45	3/4	3,306.23	3/4	2,943.01
3		3		3		3	5,095.27	3	4,748.80	3	4,388.31	3	4,025.09	3	3,661.88	3	3,298.66	3	2,935.45
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,088.23	1/4	4,741.44	1/4	4,380.74	1/4	4,017.53	1/4	3,654.31	1/4	3,291.09	1/4	2,927.88
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,081.19	1/2	4,734.07	1/2	4,373.18	1/2	4,009.96	1/2	3,646.75	1/2	3,283.52	1/2	2,920.31
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,074.14	3/4	4,726.71	3/4	4,365.61	3/4	4,002.40	3/4	3,639.18	3/4	3,275.96	3/4	2,912.75
4		4	5,325.99	4	5,067.10	4	4,719.34	4	4,358.04	4	3,994.83	4	3,631.61	4	3,268.39	4	2,905.18		
1/4	1/4	1/4	5,325.36	1/4	5,059.98	1/4	4,711.89	1/4	4,350.47	1/4	3,987.26	1/4	3,624.04	1/4	3,260.82	1/4	2,897.61		
1/2	1/2	1/2	5,324.73	1/2	5,052.85	1/2	4,704.45	1/2	4,342.91	1/2	3,979.70	1/2	3,616.48	1/2	3,253.26	1/2	2,890.04		
3/4	3/4	3/4	5,324.10	3/4	5,045.73	3/4	4,697.00	3/4	4,335.34	3/4	3,972.13	3/4	3,608.91	3/4	3,245.69	3/4	2,882.48		
5		5	5,323.47	5	5,038.60	5	4,689.55	5	4,327.77	5	3,964.56	5	3,601.34	5	3,238.13	5	2,874.91		
1/4	1/4	1/4	5,321.58	1/4	5,031.48	1/4	4,682.10	1/4	4,320.21	1/4	3,956.99	1/4	3,593.77	1/4	3,230.56	1/4	2,867.34		
1/2	1/2	1/2	5,319.69	1/2	5,024.36	1/2	4,674.66	1/2	4,312.64	1/2	3,949.43	1/2	3,586.21	1/2	3,222.99	1/2	2,859.77		
3/4	3/4	3/4	5,317.79	3/4	5,017.23	3/4	4,667.21	3/4	4,305.08	3/4	3,941.86	3/4	3,578.64	3/4	3,215.43	3/4	2,852.21		
6		6	5,315.90	6	5,010.11	6	4,659.76	6	4,297.51	6	3,934.29	6	3,571.07	6	3,207.86	6	2,844.64		
1/4	1/4	1/4	5,312.75	1/4	5,002.99	1/4	4,652.31	1/4	4,289.94	1/4	3,926.72	1/4	3,563.51	1/4	3,200.29	1/4	2,837.07		
1/2	1/2	1/2	5,309.60	1/2	4,995.86	1/2	4,644.87	1/2	4,282.38	1/2	3,919.16	1/2	3,555.94	1/2	3,192.72	1/2	2,829.50		
3/4	3/4	3/4	5,306.44	3/4	4,988.74	3/4	4,637.42	3/4	4,274.81	3/4	3,911.59	3/4	3,548.38	3/4	3,185.16	3/4	2,821.94		
7		7	5,303.29	7	4,981.61	7	4,629.97	7	4,267.24	7	3,904.02	7	3,540.81	7	3,177.59	7	2,814.37		
1/4	1/4	1/4	5,298.88	1/4	4,974.41	1/4	4,622.45	1/4	4,259.67	1/4	3,896.45	1/4	3,533.24	1/4	3,170.02	1/4	2,806.80		
1/2	1/2	1/2	5,294.46	1/2	4,967.20	1/2	4,614.92	1/2	4,252.11	1/2	3,888.89	1/2	3,525.68	1/2	3,162.45	1/2	2,799.24		
3/4	3/4	3/4	5,290.05	3/4	4,960.00	3/4	4,607.40	3/4	4,244.54	3/4	3,881.32	3/4	3,518.11	3/4	3,154.89	3/4	2,791.67		
8		8	5,285.63	8	4,952.79	8	4,599.87	8	4,236.97	8	3,873.75	8	3,510.54	8	3,147.32	8	2,784.11		
1/4	1/4	1/4	5,279.96	1/4	4,945.59	1/4	4,592.34	1/4	4,229.40	1/4	3,866.19	1/4	3,502.97	1/4	3,139.75	1/4	2,776.54		
1/2	1/2	1/2	5,274.28	1/2	4,938.38	1/2	4,584.82	1/2	4,221.84	1/2	3,858.62	1/2	3,495.41	1/2	3,132.18	1/2	2,768.97		
3/4	3/4	3/4	5,268.61	3/4	4,931.18	3/4	4,577.29	3/4	4,214.27	3/4	3,851.06	3/4	3,487.84	3/4	3,124.62	3/4	2,761.41		
9		9	5,262.93	9	4,923.97	9	4,569.76	9	4,206.70	9	3,843.49	9	3,480.27	9	3,117.05	9	2,753.84		
1/4	1/4	1/4	5,255.99	1/4	4,916.77	1/4	4,562.23	1/4	4,199.13	1/4	3,835.92	1/4	3,472.70	1/4	3,109.48	1/4	2,746.27		
1/2	1/2	1/2	5,249.06	1/2	4,909.56	1/2	4,554.71	1/2	4,191.57	1/2	3,828.36	1/2	3,465.13	1/2	3,101.92	1/2	2,738.70		
3/4	3/4	3/4	5,242.12	3/4	4,902.36	3/4	4,547.18	3/4	4,184.00	3/4	3,820.79	3/4	3,457.57	3/4	3,094.35	3/4	2,731.14		
10		10	5,235.18	10	4,895.15	10	4,539.65	10	4,176.43	10	3,813.22	10	3,450.00	10	3,086.79	10	2,723.57		
1/4	1/4	1/4	5,228.22	1/4	4,887.87	1/4	4,532.08	1/4	4,168.87	1/4	3,805.65	1/4	3,442.43	1/4	3,079.22	1/4	2,716.00		
1/2	1/2	1/2	5,221.26	1/2	4,880.58	1/2	4,524.52	1/2	4,161.30	1/2	3,798.09	1/2	3,434.86	1/2	3,071.65	1/2	2,708.43		
3/4	3/4	3/4	5,214.29	3/4	4,873.30	3/4	4,516.95	3/4	4,153.74	3/4	3,790.52	3/4	3,427.30	3/4	3,064.09	3/4	2,700.87		
11		11	5,207.33	11	4,866.01	11	4,509.38	11	4,146.17	11	3,782.95	11	3,419.73	11	3,056.52	11	2,693.30		
1/4	1/4	1/4	5,200.37	1/4	4,858.73	1/4	4,501.81	1/4	4,138.60	1/4	3,775.38	1/4	3,412.16	1/4	3,048.95	1/4	2,685.73		
1/2	1/2	1/2	5,193.41	1/2	4,851.44	1/2	4,494.25	1/2	4,131.04	1/2	3,767.82	1/2	3,404.60	1/2	3,041.38	1/2	2,678.16		
3/4	3/4	3/4	5,186.44	3/4	4,844.16	3/4	4,486.68	3/4	4,123.47	3/4	3,760.25	3/4	3,397.03	3/4	3,033.82	3/4	2,670.60		

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 11'-00" OFF CENTERLINE AND 42'-03" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT  
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmacorp.net>



# BARGE "KIRBY 31010"

## 1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "SMS 30017"

GAUGE HEIGHT 17'-04"

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	2,663.03	0	2,299.82	0	1,936.60	0	1,573.39	0	1,210.61	0	847.89	0	484.63	0	121.36	0		0	
1/4	2,655.46	1/4	2,292.25	1/4	1,929.03	1/4	1,565.82	1/4	1,203.06	1/4	840.32	1/4	477.06	1/4	113.79	1/4		1/4	
1/2	2,647.90	1/2	2,284.68	1/2	1,921.46	1/2	1,558.25	1/2	1,195.51	1/2	832.75	1/2	469.49	1/2	106.22	1/2		1/2	
3/4	2,640.33	3/4	2,277.12	3/4	1,913.90	3/4	1,550.69	3/4	1,187.97	3/4	825.19	3/4	461.93	3/4	98.66	3/4		3/4	
1	2,632.77	1	2,269.55	1	1,906.33	1	1,543.12	1	1,180.42	1	817.62	1	454.36	1	91.09	1		1	
1/4	2,625.20	1/4	2,261.98	1/4	1,898.76	1/4	1,535.55	1/4	1,172.87	1/4	810.05	1/4	446.79	1/4	83.90	1/4		1/4	
1/2	2,617.63	1/2	2,254.41	1/2	1,891.20	1/2	1,527.98	1/2	1,165.32	1/2	802.48	1/2	439.22	1/2	76.71	1/2		1/2	
3/4	2,610.07	3/4	2,246.85	3/4	1,883.63	3/4	1,520.42	3/4	1,157.78	3/4	794.92	3/4	431.65	3/4	69.52	3/4		3/4	
2	2,602.50	2	2,239.28	2	1,876.07	2	1,512.85	2	1,150.23	2	787.35	2	424.08	2	62.33	2		2	
1/4	2,594.93	1/4	2,231.71	1/4	1,868.50	1/4	1,505.28	1/4	1,142.68	1/4	779.78	1/4	416.51	1/4	56.28	1/4		1/4	
1/2	2,587.36	1/2	2,224.14	1/2	1,860.93	1/2	1,497.71	1/2	1,135.14	1/2	772.21	1/2	408.94	1/2	50.22	1/2		1/2	
3/4	2,579.80	3/4	2,216.58	3/4	1,853.37	3/4	1,490.15	3/4	1,127.59	3/4	764.65	3/4	401.38	3/4	44.17	3/4		3/4	
3	2,572.23	3	2,209.01	3	1,845.80	3	1,482.58	3	1,120.05	3	757.08	3	393.81	3	38.12	3		3	
1/4	2,564.66	1/4	2,201.44	1/4	1,838.23	1/4	1,475.01	1/4	1,112.50	1/4	749.51	1/4	386.24	1/4	33.58	1/4		1/4	
1/2	2,557.09	1/2	2,193.88	1/2	1,830.66	1/2	1,467.44	1/2	1,104.95	1/2	741.94	1/2	378.67	1/2	29.04	1/2		1/2	
3/4	2,549.53	3/4	2,186.31	3/4	1,823.10	3/4	1,459.88	3/4	1,097.41	3/4	734.37	3/4	371.11	3/4	24.50	3/4		3/4	
4	2,541.96	4	2,178.75	4	1,815.53	4	1,452.31	4	1,089.86	4	726.80	4	363.54	4	19.96	4		4	
1/4	2,534.39	1/4	2,171.18	1/4	1,807.96	1/4	1,444.74	1/4	1,082.31	1/4	719.23	1/4	355.97	1/4		1/4		1/4	
1/2	2,526.82	1/2	2,163.61	1/2	1,800.39	1/2	1,437.18	1/2	1,074.76	1/2	711.66	1/2	348.40	1/2		1/2		1/2	
3/4	2,519.26	3/4	2,156.05	3/4	1,792.83	3/4	1,429.61	3/4	1,067.22	3/4	704.10	3/4	340.84	3/4		3/4		3/4	
5	2,511.69	5	2,148.48	5	1,785.26	5	1,422.05	5	1,059.67	5	696.53	5	333.27	5		5		5	
1/4	2,504.12	1/4	2,140.91	1/4	1,777.69	1/4	1,414.48	1/4	1,052.12	1/4	688.96	1/4	325.70	1/4		1/4		1/4	
1/2	2,496.56	1/2	2,133.34	1/2	1,770.12	1/2	1,406.91	1/2	1,044.57	1/2	681.39	1/2	318.13	1/2		1/2		1/2	
3/4	2,488.99	3/4	2,125.78	3/4	1,762.56	3/4	1,399.35	3/4	1,037.03	3/4	673.83	3/4	310.57	3/4		3/4		3/4	
6	2,481.43	6	2,118.21	6	1,754.99	6	1,391.78	6	1,029.48	6	666.26	6	303.00	6		6		6	
1/4	2,473.86	1/4	2,110.64	1/4	1,747.42	1/4	1,384.22	1/4	1,021.92	1/4	658.69	1/4	295.43	1/4		1/4		1/4	
1/2	2,466.29	1/2	2,103.07	1/2	1,739.86	1/2	1,376.66	1/2	1,014.36	1/2	651.12	1/2	287.86	1/2		1/2		1/2	
3/4	2,458.73	3/4	2,095.51	3/4	1,732.29	3/4	1,369.11	3/4	1,006.81	3/4	643.56	3/4	280.29	3/4		3/4		3/4	
7	2,451.16	7	2,087.94	7	1,724.73	7	1,361.55	7	999.25	7	635.99	7	272.72	7		7		7	
1/4	2,443.59	1/4	2,080.37	1/4	1,717.16	1/4	1,354.00	1/4	991.68	1/4	628.42	1/4	265.15	1/4		1/4		1/4	
1/2	2,436.02	1/2	2,072.80	1/2	1,709.59	1/2	1,346.45	1/2	984.11	1/2	620.85	1/2	257.58	1/2		1/2		1/2	
3/4	2,428.46	3/4	2,065.24	3/4	1,702.03	3/4	1,338.91	3/4	976.55	3/4	613.29	3/4	250.02	3/4		3/4		3/4	
8	2,420.89	8	2,057.67	8	1,694.46	8	1,331.36	8	968.98	8	605.72	8	242.45	8		8		8	
1/4	2,413.32	1/4	2,050.10	1/4	1,686.89	1/4	1,323.81	1/4	961.41	1/4	598.15	1/4	234.88	1/4		1/4		1/4	
1/2	2,405.75	1/2	2,042.54	1/2	1,679.32	1/2	1,316.26	1/2	953.84	1/2	590.58	1/2	227.31	1/2		1/2		1/2	
3/4	2,398.19	3/4	2,034.97	3/4	1,671.76	3/4	1,308.72	3/4	946.28	3/4	583.01	3/4	219.75	3/4		3/4		3/4	
9	2,390.62	9	2,027.41	9	1,664.19	9	1,301.17	9	938.71	9	575.44	9	212.18	9		9		9	
1/4	2,383.05	1/4	2,019.84	1/4	1,656.62	1/4	1,293.62	1/4	931.14	1/4	567.87	1/4	204.61	1/4		1/4		1/4	
1/2	2,375.48	1/2	2,012.27	1/2	1,649.05	1/2	1,286.08	1/2	923.57	1/2	560.30	1/2	197.04	1/2		1/2		1/2	
3/4	2,367.92	3/4	2,004.71	3/4	1,641.49	3/4	1,278.53	3/4	916.01	3/4	552.74	3/4	189.48	3/4		3/4		3/4	
10	2,360.35	10	1,997.14	10	1,633.92	10	1,270.99	10	908.44	10	545.17	10	181.91	10		10		10	
1/4	2,352.78	1/4	1,989.57	1/4	1,626.35	1/4	1,263.44	1/4	900.87	1/4	537.60	1/4	174.34	1/4		1/4		1/4	
1/2	2,345.22	1/2	1,982.00	1/2	1,618.78	1/2	1,255.89	1/2	893.30	1/2	530.03	1/2	166.77	1/2		1/2		1/2	
3/4	2,337.65	3/4	1,974.44	3/4	1,611.22	3/4	1,248.35	3/4	885.73	3/4	522.47	3/4	159.21	3/4		3/4		3/4	
11	2,330.09	11	1,966.87	11	1,603.65	11	1,240.80	11	878.16	11	514.90	11	151.64	11		11		11	
1/4	2,322.52	1/4	1,959.30	1/4	1,596.08	1/4	1,233.25	1/4	870.59	1/4	507.33	1/4	144.07	1/4		1/4		1/4	
1/2	2,314.95	1/2	1,951.73	1/2	1,588.52	1/2	1,225.70	1/2	863.02	1/2	499.76	1/2	136.50	1/2		1/2		1/2	
3/4	2,307.39	3/4	1,944.17	3/4	1,580.95	3/4	1,218.16	3/4	855.46	3/4	492.20	3/4	128.93	3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 09/09/2010 INSP.  
RECALCULATED: 11/12/2020 PMA  
NAME CHANGE: 11/12/2020 PMA

CANCELS AND SUPERCEDES  
ALL PRIOR TO 11/2020

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



# BARGE "KIRBY 31010"

## 1 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "SMS 30017"

GAUGE HEIGHT 17'-04"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT
0		0		0		0	5,179.48	0	4,836.87	0	4,479.11	0	4,115.90	0	3,752.68	0	3,389.47	0	3,026.25
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,172.52	1/4	4,829.59	1/4	4,471.55	1/4	4,108.33	1/4	3,745.11	1/4	3,381.90	1/4	3,018.68
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,165.56	1/2	4,822.30	1/2	4,463.98	1/2	4,100.77	1/2	3,737.55	1/2	3,374.33	1/2	3,011.11
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,158.59	3/4	4,815.02	3/4	4,456.42	3/4	4,093.20	3/4	3,729.98	3/4	3,366.77	3/4	3,003.55
1		1		1		1	5,151.63	1	4,807.73	1	4,448.85	1	4,085.63	1	3,722.41	1	3,359.20	1	2,995.98
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,144.59	1/4	4,800.37	1/4	4,441.28	1/4	4,078.06	1/4	3,714.85	1/4	3,351.63	1/4	2,988.41
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,137.54	1/2	4,793.00	1/2	4,433.72	1/2	4,070.50	1/2	3,707.28	1/2	3,344.06	1/2	2,980.84
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,130.50	3/4	4,785.64	3/4	4,426.15	3/4	4,062.93	3/4	3,699.72	3/4	3,336.50	3/4	2,973.28
2		2		2		2	5,123.45	2	4,778.27	2	4,418.58	2	4,055.36	2	3,692.15	2	3,328.93	2	2,965.71
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,116.41	1/4	4,770.90	1/4	4,411.01	1/4	4,047.79	1/4	3,684.58	1/4	3,321.36	1/4	2,958.14
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,109.36	1/2	4,763.54	1/2	4,403.45	1/2	4,040.23	1/2	3,677.02	1/2	3,313.79	1/2	2,950.58
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,102.32	3/4	4,756.17	3/4	4,395.88	3/4	4,032.66	3/4	3,669.45	3/4	3,306.23	3/4	2,943.01
3		3		3		3	5,095.27	3	4,748.80	3	4,388.31	3	4,025.09	3	3,661.88	3	3,298.66	3	2,935.45
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,088.23	1/4	4,741.44	1/4	4,380.74	1/4	4,017.53	1/4	3,654.31	1/4	3,291.09	1/4	2,927.88
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,081.19	1/2	4,734.07	1/2	4,373.18	1/2	4,009.96	1/2	3,646.75	1/2	3,283.52	1/2	2,920.31
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,074.14	3/4	4,726.71	3/4	4,365.61	3/4	4,002.40	3/4	3,639.18	3/4	3,275.96	3/4	2,912.75
4		4	5,325.99	4	5,067.10	4	4,719.34	4	4,358.04	4	3,994.83	4	3,631.61	4	3,268.39	4	2,905.18		
1/4	1/4	1/4	5,325.36	1/4	5,059.98	1/4	4,711.89	1/4	4,350.47	1/4	3,987.26	1/4	3,624.04	1/4	3,260.82	1/4	2,897.61		
1/2	1/2	1/2	5,324.73	1/2	5,052.85	1/2	4,704.45	1/2	4,342.91	1/2	3,979.70	1/2	3,616.48	1/2	3,253.26	1/2	2,890.04		
3/4	3/4	3/4	5,324.10	3/4	5,045.73	3/4	4,697.00	3/4	4,335.34	3/4	3,972.13	3/4	3,608.91	3/4	3,245.69	3/4	2,882.48		
5		5	5,323.47	5	5,038.60	5	4,689.55	5	4,327.77	5	3,964.56	5	3,601.34	5	3,238.13	5	2,874.91		
1/4	1/4	1/4	5,321.58	1/4	5,031.48	1/4	4,682.10	1/4	4,320.21	1/4	3,956.99	1/4	3,593.77	1/4	3,230.56	1/4	2,867.34		
1/2	1/2	1/2	5,319.69	1/2	5,024.36	1/2	4,674.66	1/2	4,312.64	1/2	3,949.43	1/2	3,586.21	1/2	3,222.99	1/2	2,859.77		
3/4	3/4	3/4	5,317.79	3/4	5,017.23	3/4	4,667.21	3/4	4,305.08	3/4	3,941.86	3/4	3,578.64	3/4	3,215.43	3/4	2,852.21		
6		6	5,315.90	6	5,010.11	6	4,659.76	6	4,297.51	6	3,934.29	6	3,571.07	6	3,207.86	6	2,844.64		
1/4	1/4	1/4	5,312.75	1/4	5,002.99	1/4	4,652.31	1/4	4,289.94	1/4	3,926.72	1/4	3,563.51	1/4	3,200.29	1/4	2,837.07		
1/2	1/2	1/2	5,309.60	1/2	4,995.86	1/2	4,644.87	1/2	4,282.38	1/2	3,919.16	1/2	3,555.94	1/2	3,192.72	1/2	2,829.50		
3/4	3/4	3/4	5,306.44	3/4	4,988.74	3/4	4,637.42	3/4	4,274.81	3/4	3,911.59	3/4	3,548.38	3/4	3,185.16	3/4	2,821.94		
7		7	5,303.29	7	4,981.61	7	4,629.97	7	4,267.24	7	3,904.02	7	3,540.81	7	3,177.59	7	2,814.37		
1/4	1/4	1/4	5,298.88	1/4	4,974.41	1/4	4,622.45	1/4	4,259.67	1/4	3,896.45	1/4	3,533.24	1/4	3,170.02	1/4	2,806.80		
1/2	1/2	1/2	5,294.46	1/2	4,967.20	1/2	4,614.92	1/2	4,252.11	1/2	3,888.89	1/2	3,525.68	1/2	3,162.45	1/2	2,799.24		
3/4	3/4	3/4	5,290.05	3/4	4,960.00	3/4	4,607.40	3/4	4,244.54	3/4	3,881.32	3/4	3,518.11	3/4	3,154.89	3/4	2,791.67		
8		8	5,285.63	8	4,952.79	8	4,599.87	8	4,236.97	8	3,873.75	8	3,510.54	8	3,147.32	8	2,784.11		
1/4	1/4	1/4	5,279.96	1/4	4,945.59	1/4	4,592.34	1/4	4,229.40	1/4	3,866.19	1/4	3,502.97	1/4	3,139.75	1/4	2,776.54		
1/2	1/2	1/2	5,274.28	1/2	4,938.38	1/2	4,584.82	1/2	4,221.84	1/2	3,858.62	1/2	3,495.41	1/2	3,132.18	1/2	2,768.97		
3/4	3/4	3/4	5,268.61	3/4	4,931.18	3/4	4,577.29	3/4	4,214.27	3/4	3,851.06	3/4	3,487.84	3/4	3,124.62	3/4	2,761.41		
9		9	5,262.93	9	4,923.97	9	4,569.76	9	4,206.70	9	3,843.49	9	3,480.27	9	3,117.05	9	2,753.84		
1/4	1/4	1/4	5,255.99	1/4	4,916.77	1/4	4,562.23	1/4	4,199.13	1/4	3,835.92	1/4	3,472.70	1/4	3,109.48	1/4	2,746.27		
1/2	1/2	1/2	5,249.06	1/2	4,909.56	1/2	4,554.71	1/2	4,191.57	1/2	3,828.36	1/2	3,465.13	1/2	3,101.92	1/2	2,738.70		
3/4	3/4	3/4	5,242.12	3/4	4,902.36	3/4	4,547.18	3/4	4,184.00	3/4	3,820.79	3/4	3,457.57	3/4	3,094.35	3/4	2,731.14		
10		10	5,235.18	10	4,895.15	10	4,539.65	10	4,176.43	10	3,813.22	10	3,450.00	10	3,086.79	10	2,723.57		
1/4	1/4	1/4	5,228.22	1/4	4,887.87	1/4	4,532.08	1/4	4,168.87	1/4	3,805.65	1/4	3,442.43	1/4	3,079.22	1/4	2,716.00		
1/2	1/2	1/2	5,221.26	1/2	4,880.58	1/2	4,524.52	1/2	4,161.30	1/2	3,798.09	1/2	3,434.86	1/2	3,071.65	1/2	2,708.43		
3/4	3/4	3/4	5,214.29	3/4	4,873.30	3/4	4,516.95	3/4	4,153.74	3/4	3,790.52	3/4	3,427.30	3/4	3,064.09	3/4	2,700.87		
11		11	5,207.33	11	4,866.01	11	4,509.38	11	4,146.17	11	3,782.95	11	3,419.73	11	3,056.52	11	2,693.30		
1/4	1/4	1/4	5,200.37	1/4	4,858.73	1/4	4,501.81	1/4	4,138.60	1/4	3,775.38	1/4	3,412.16	1/4	3,048.95	1/4	2,685.73		
1/2	1/2	1/2	5,193.41	1/2	4,851.44	1/2	4,494.25	1/2	4,131.04	1/2	3,767.82	1/2	3,404.60	1/2	3,041.38	1/2	2,678.16		
3/4	3/4	3/4	5,186.44	3/4	4,844.16	3/4	4,486.68	3/4	4,123.47	3/4	3,760.25	3/4	3,397.03	3/4	3,033.82	3/4	2,670.60		

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 11'-00" OFF CENTERLINE AND 42'-03" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT  
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmacorp.net>



# BARGE "KIRBY 31010"

## 1 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "SMS 30017"

GAUGE HEIGHT 17'-04"

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	2,663.03	0	2,299.82	0	1,936.60	0	1,573.39	0	1,210.61	0	847.89	0	484.63	0	121.36	0		0	
1/4	2,655.46	1/4	2,292.25	1/4	1,929.03	1/4	1,565.82	1/4	1,203.06	1/4	840.32	1/4	477.06	1/4	113.79	1/4		1/4	
1/2	2,647.90	1/2	2,284.68	1/2	1,921.46	1/2	1,558.25	1/2	1,195.51	1/2	832.75	1/2	469.49	1/2	106.22	1/2		1/2	
3/4	2,640.33	3/4	2,277.12	3/4	1,913.90	3/4	1,550.69	3/4	1,187.97	3/4	825.19	3/4	461.93	3/4	98.66	3/4		3/4	
1	2,632.77	1	2,269.55	1	1,906.33	1	1,543.12	1	1,180.42	1	817.62	1	454.36	1	91.09	1		1	
1/4	2,625.20	1/4	2,261.98	1/4	1,898.76	1/4	1,535.55	1/4	1,172.87	1/4	810.05	1/4	446.79	1/4	83.90	1/4		1/4	
1/2	2,617.63	1/2	2,254.41	1/2	1,891.20	1/2	1,527.98	1/2	1,165.32	1/2	802.48	1/2	439.22	1/2	76.71	1/2		1/2	
3/4	2,610.07	3/4	2,246.85	3/4	1,883.63	3/4	1,520.42	3/4	1,157.78	3/4	794.92	3/4	431.65	3/4	69.52	3/4		3/4	
2	2,602.50	2	2,239.28	2	1,876.07	2	1,512.85	2	1,150.23	2	787.35	2	424.08	2	62.33	2		2	
1/4	2,594.93	1/4	2,231.71	1/4	1,868.50	1/4	1,505.28	1/4	1,142.68	1/4	779.78	1/4	416.51	1/4	56.28	1/4		1/4	
1/2	2,587.36	1/2	2,224.14	1/2	1,860.93	1/2	1,497.71	1/2	1,135.14	1/2	772.21	1/2	408.94	1/2	50.22	1/2		1/2	
3/4	2,579.80	3/4	2,216.58	3/4	1,853.37	3/4	1,490.15	3/4	1,127.59	3/4	764.65	3/4	401.38	3/4	44.17	3/4		3/4	
3	2,572.23	3	2,209.01	3	1,845.80	3	1,482.58	3	1,120.05	3	757.08	3	393.81	3	38.12	3		3	
1/4	2,564.66	1/4	2,201.44	1/4	1,838.23	1/4	1,475.01	1/4	1,112.50	1/4	749.51	1/4	386.24	1/4	33.58	1/4		1/4	
1/2	2,557.09	1/2	2,193.88	1/2	1,830.66	1/2	1,467.44	1/2	1,104.95	1/2	741.94	1/2	378.67	1/2	29.04	1/2		1/2	
3/4	2,549.53	3/4	2,186.31	3/4	1,823.10	3/4	1,459.88	3/4	1,097.41	3/4	734.37	3/4	371.11	3/4	24.50	3/4		3/4	
4	2,541.96	4	2,178.75	4	1,815.53	4	1,452.31	4	1,089.86	4	726.80	4	363.54	4	19.96	4		4	
1/4	2,534.39	1/4	2,171.18	1/4	1,807.96	1/4	1,444.74	1/4	1,082.31	1/4	719.23	1/4	355.97	1/4		1/4		1/4	
1/2	2,526.82	1/2	2,163.61	1/2	1,800.39	1/2	1,437.18	1/2	1,074.76	1/2	711.66	1/2	348.40	1/2		1/2		1/2	
3/4	2,519.26	3/4	2,156.05	3/4	1,792.83	3/4	1,429.61	3/4	1,067.22	3/4	704.10	3/4	340.84	3/4		3/4		3/4	
5	2,511.69	5	2,148.48	5	1,785.26	5	1,422.05	5	1,059.67	5	696.53	5	333.27	5		5		5	
1/4	2,504.12	1/4	2,140.91	1/4	1,777.69	1/4	1,414.48	1/4	1,052.12	1/4	688.96	1/4	325.70	1/4		1/4		1/4	
1/2	2,496.56	1/2	2,133.34	1/2	1,770.12	1/2	1,406.91	1/2	1,044.57	1/2	681.39	1/2	318.13	1/2		1/2		1/2	
3/4	2,488.99	3/4	2,125.78	3/4	1,762.56	3/4	1,399.35	3/4	1,037.03	3/4	673.83	3/4	310.57	3/4		3/4		3/4	
6	2,481.43	6	2,118.21	6	1,754.99	6	1,391.78	6	1,029.48	6	666.26	6	303.00	6		6		6	
1/4	2,473.86	1/4	2,110.64	1/4	1,747.42	1/4	1,384.22	1/4	1,021.92	1/4	658.69	1/4	295.43	1/4		1/4		1/4	
1/2	2,466.29	1/2	2,103.07	1/2	1,739.86	1/2	1,376.66	1/2	1,014.36	1/2	651.12	1/2	287.86	1/2		1/2		1/2	
3/4	2,458.73	3/4	2,095.51	3/4	1,732.29	3/4	1,369.11	3/4	1,006.81	3/4	643.56	3/4	280.29	3/4		3/4		3/4	
7	2,451.16	7	2,087.94	7	1,724.73	7	1,361.55	7	999.25	7	635.99	7	272.72	7		7		7	
1/4	2,443.59	1/4	2,080.37	1/4	1,717.16	1/4	1,354.00	1/4	991.68	1/4	628.42	1/4	265.15	1/4		1/4		1/4	
1/2	2,436.02	1/2	2,072.80	1/2	1,709.59	1/2	1,346.45	1/2	984.11	1/2	620.85	1/2	257.58	1/2		1/2		1/2	
3/4	2,428.46	3/4	2,065.24	3/4	1,702.03	3/4	1,338.91	3/4	976.55	3/4	613.29	3/4	250.02	3/4		3/4		3/4	
8	2,420.89	8	2,057.67	8	1,694.46	8	1,331.36	8	968.98	8	605.72	8	242.45	8		8		8	
1/4	2,413.32	1/4	2,050.10	1/4	1,686.89	1/4	1,323.81	1/4	961.41	1/4	598.15	1/4	234.88	1/4		1/4		1/4	
1/2	2,405.75	1/2	2,042.54	1/2	1,679.32	1/2	1,316.26	1/2	953.84	1/2	590.58	1/2	227.31	1/2		1/2		1/2	
3/4	2,398.19	3/4	2,034.97	3/4	1,671.76	3/4	1,308.72	3/4	946.28	3/4	583.01	3/4	219.75	3/4		3/4		3/4	
9	2,390.62	9	2,027.41	9	1,664.19	9	1,301.17	9	938.71	9	575.44	9	212.18	9		9		9	
1/4	2,383.05	1/4	2,019.84	1/4	1,656.62	1/4	1,293.62	1/4	931.14	1/4	567.87	1/4	204.61	1/4		1/4		1/4	
1/2	2,375.48	1/2	2,012.27	1/2	1,649.05	1/2	1,286.08	1/2	923.57	1/2	560.30	1/2	197.04	1/2		1/2		1/2	
3/4	2,367.92	3/4	2,004.71	3/4	1,641.49	3/4	1,278.53	3/4	916.01	3/4	552.74	3/4	189.48	3/4		3/4		3/4	
10	2,360.35	10	1,997.14	10	1,633.92	10	1,270.99	10	908.44	10	545.17	10	181.91	10		10		10	
1/4	2,352.78	1/4	1,989.57	1/4	1,626.35	1/4	1,263.44	1/4	900.87	1/4	537.60	1/4	174.34	1/4		1/4		1/4	
1/2	2,345.22	1/2	1,982.00	1/2	1,618.78	1/2	1,255.89	1/2	893.30	1/2	530.03	1/2	166.77	1/2		1/2		1/2	
3/4	2,337.65	3/4	1,974.44	3/4	1,611.22	3/4	1,248.35	3/4	885.73	3/4	522.47	3/4	159.21	3/4		3/4		3/4	
11	2,330.09	11	1,966.87	11	1,603.65	11	1,240.80	11	878.16	11	514.90	11	151.64	11		11		11	
1/4	2,322.52	1/4	1,959.30	1/4	1,596.08	1/4	1,233.25	1/4	870.59	1/4	507.33	1/4	144.07	1/4		1/4		1/4	
1/2	2,314.95	1/2	1,951.73	1/2	1,588.52	1/2	1,225.70	1/2	863.02	1/2	499.76	1/2	136.50	1/2		1/2		1/2	
3/4	2,307.39	3/4	1,944.17	3/4	1,580.95	3/4	1,218.16	3/4	855.46	3/4	492.20	3/4	128.93	3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 09/09/2010 INSP.  
RECALCULATED: 11/12/2020 PMA  
NAME CHANGE: 11/12/2020 PMA

CANCELS AND SUPERCEDES  
ALL PRIOR TO 11/2020

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



# BARGE "KIRBY 31010"

## 2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "SMS 30017"

GAUGE HEIGHT 17'-03 3/4"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.			
IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT		
0		0		0		0	5,151.20	0	4,808.27	0	4,450.69	0	4,089.92	0	3,729.15	0	3,368.39	0	3,007.62		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,144.24	1/4	4,800.98	1/4	4,443.17	1/4	4,082.40	1/4	3,721.64	1/4	3,360.87	1/4	3,000.10		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,137.27	1/2	4,793.70	1/2	4,435.66	1/2	4,074.89	1/2	3,714.12	1/2	3,353.36	1/2	2,992.59		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,130.31	3/4	4,786.41	3/4	4,428.14	3/4	4,067.37	3/4	3,706.60	3/4	3,345.84	3/4	2,985.07		
1		1		1		1	5,123.27	1	4,779.05	1	4,420.63	1	4,059.85	1	3,699.09	1	3,338.32	1	2,977.55		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,116.22	1/4	4,771.68	1/4	4,413.11	1/4	4,052.34	1/4	3,691.57	1/4	3,330.81	1/4	2,970.04		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,109.18	1/2	4,764.32	1/2	4,405.60	1/2	4,044.82	1/2	3,684.06	1/2	3,323.29	1/2	2,962.52		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,102.13	3/4	4,756.95	3/4	4,398.08	3/4	4,037.31	3/4	3,676.54	3/4	3,315.77	3/4	2,955.00		
2		2		2		2	5,095.09	2	4,749.58	2	4,390.56	2	4,029.79	2	3,669.03	2	3,308.26	2	2,947.49		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,088.05	1/4	4,742.22	1/4	4,383.05	1/4	4,022.27	1/4	3,661.51	1/4	3,300.74	1/4	2,939.97		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,081.00	1/2	4,734.85	1/2	4,375.53	1/2	4,014.76	1/2	3,654.00	1/2	3,293.23	1/2	2,932.46		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,073.96	3/4	4,727.48	3/4	4,368.01	3/4	4,007.24	3/4	3,646.48	3/4	3,285.71	3/4	2,924.94		
3		3		3		3	5,066.92	3	4,720.12	3	4,360.50	3	3,999.72	3	3,638.96	3	3,278.19	3	2,917.43		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,059.87	1/4	4,712.75	1/4	4,352.98	1/4	3,992.21	1/4	3,631.45	1/4	3,270.68	1/4	2,909.91		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,052.83	1/2	4,705.39	1/2	4,345.47	1/2	3,984.69	1/2	3,623.93	1/2	3,263.16	1/2	2,902.40		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,045.78	3/4	4,698.02	3/4	4,337.95	3/4	3,977.18	3/4	3,616.41	3/4	3,255.64	3/4	2,894.88		
4		4		4	5,304.67	4	5,304.04	4	5,038.66	4	4,690.57	4	4,330.43	4	3,969.66	4	3,608.90	4	3,248.13	4	2,887.36
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,303.41	1/4	5,031.53	1/4	4,683.13	1/4	4,322.92	1/4	3,962.15	1/4	3,601.38	1/4	3,240.61	1/4	2,879.85
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,302.78	1/2	5,024.41	1/2	4,675.68	1/2	4,315.40	1/2	3,954.64	1/2	3,593.87	1/2	3,233.10	1/2	2,872.33
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,302.15	3/4	5,017.28	3/4	4,668.23	3/4	4,307.88	3/4	3,947.12	3/4	3,586.35	3/4	3,225.58	3/4	2,864.81
5		5		5		5	5,300.26	5	5,010.16	5	4,660.78	5	4,300.37	5	3,939.60	5	3,578.83	5	3,218.07	5	2,857.30
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,298.37	1/4	5,003.04	1/4	4,653.34	1/4	4,292.85	1/4	3,932.09	1/4	3,571.32	1/4	3,210.55	1/4	2,849.78
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,296.47	1/2	4,995.91	1/2	4,645.89	1/2	4,285.34	1/2	3,924.57	1/2	3,563.80	1/2	3,203.04	1/2	2,842.27
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,294.58	3/4	4,988.79	3/4	4,638.44	3/4	4,277.82	3/4	3,917.05	3/4	3,556.28	3/4	3,195.52	3/4	2,834.75
6		6		6		6	5,291.43	6	4,981.67	6	4,631.00	6	4,270.31	6	3,909.54	6	3,548.77	6	3,188.00	6	2,827.23
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,288.28	1/4	4,974.54	1/4	4,623.55	1/4	4,262.79	1/4	3,902.02	1/4	3,541.25	1/4	3,180.49	1/4	2,819.72
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,285.12	1/2	4,967.42	1/2	4,616.11	1/2	4,255.28	1/2	3,894.51	1/2	3,533.74	1/2	3,172.97	1/2	2,812.20
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,281.97	3/4	4,960.29	3/4	4,608.66	3/4	4,247.76	3/4	3,886.99	3/4	3,526.22	3/4	3,165.45	3/4	2,804.68
7		7		7		7	5,277.56	7	4,953.09	7	4,601.13	7	4,240.24	7	3,879.47	7	3,518.71	7	3,157.94	7	2,797.17
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,273.15	1/4	4,945.88	1/4	4,593.61	1/4	4,232.73	1/4	3,871.96	1/4	3,511.19	1/4	3,150.42	1/4	2,789.65
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,268.73	1/2	4,938.68	1/2	4,586.08	1/2	4,225.21	1/2	3,864.44	1/2	3,503.68	1/2	3,142.91	1/2	2,782.14
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,264.32	3/4	4,931.47	3/4	4,578.55	3/4	4,217.69	3/4	3,856.92	3/4	3,496.16	3/4	3,135.39	3/4	2,774.62
8		8		8		8	5,258.64	8	4,924.27	8	4,571.02	8	4,210.18	8	3,849.41	8	3,488.64	8	3,127.87	8	2,767.11
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,252.97	1/4	4,917.06	1/4	4,563.50	1/4	4,202.66	1/4	3,841.89	1/4	3,481.13	1/4	3,120.36	1/4	2,759.59
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,247.29	1/2	4,909.86	1/2	4,555.97	1/2	4,195.15	1/2	3,834.38	1/2	3,473.61	1/2	3,112.84	1/2	2,752.08
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,241.61	3/4	4,902.65	3/4	4,548.44	3/4	4,187.63	3/4	3,826.86	3/4	3,466.09	3/4	3,105.32	3/4	2,744.56
9		9		9		9	5,234.67	9	4,895.45	9	4,540.91	9	4,180.11	9	3,819.35	9	3,458.58	9	3,097.81	9	2,737.04
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,227.74	1/4	4,888.24	1/4	4,533.39	1/4	4,172.60	1/4	3,811.83	1/4	3,451.06	1/4	3,090.29	1/4	2,729.53
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,220.80	1/2	4,881.04	1/2	4,525.86	1/2	4,165.08	1/2	3,804.32	1/2	3,443.55	1/2	3,082.78	1/2	2,722.01
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,213.86	3/4	4,873.83	3/4	4,518.33	3/4	4,157.56	3/4	3,796.80	3/4	3,436.03	3/4	3,075.26	3/4	2,714.49
10		10		10		10	5,206.90	10	4,866.55	10	4,510.82	10	4,150.05	10	3,789.28	10	3,428.51	10	3,067.75	10	2,706.98
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,199.94	1/4	4,859.26	1/4	4,503.30	1/4	4,142.53	1/4	3,781.77	1/4	3,421.00	1/4	3,060.23	1/4	2,699.46
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,192.97	1/2	4,851.98	1/2	4,495.79	1/2	4,135.01	1/2	3,774.25	1/2	3,413.48	1/2	3,052.72	1/2	2,691.95
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,186.01	3/4	4,844.69	3/4	4,488.27	3/4	4,127.50	3/4	3,766.73	3/4	3,405.96	3/4	3,045.20	3/4	2,684.43
11		11		11		11	5,179.05	11	4,837.41	11	4,480.75	11	4,119.98	11	3,759.22	11	3,398.45	11	3,037.68	11	2,676.91
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,172.09	1/4	4,830.12	1/4	4,473.24	1/4	4,112.47	1/4	3,751.70	1/4	3,390.93	1/4	3,030.17	1/4	2,669.40
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,165.12	1/2	4,822.84	1/2	4,465.72	1/2	4,104.95	1/2	3,744.19	1/2	3,383.42	1/2	3,022.65	1/2	2,661.88
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,158.16	3/4	4,815.55	3/4	4,458.20	3/4	4,097.44	3/4	3,736.67	3/4	3,375.90	3/4	3,015.13	3/4	2,654.36

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 11'-00" OFF CENTERLINE AND 42'-03" FORWARD OF AFT BULKHEAD.

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 31010"

## 2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "SMS 30017"

GAUGE HEIGHT 17'-03 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	2,646.85	0	2,286.08	0	1,925.31	0	1,564.55	0	1,203.06	0	840.32	0	477.06	0	113.79	0		0	
1/4	2,639.33	1/4	2,278.57	1/4	1,917.80	1/4	1,557.03	1/4	1,195.52	1/4	832.76	1/4	469.50	1/4	106.23	1/4		1/4	
1/2	2,631.82	1/2	2,271.05	1/2	1,910.28	1/2	1,549.52	1/2	1,187.97	1/2	825.19	1/2	461.93	1/2	98.66	1/2		1/2	
3/4	2,624.30	3/4	2,263.53	3/4	1,902.76	3/4	1,542.00	3/4	1,180.42	3/4	817.62	3/4	454.36	3/4	91.09	3/4		3/4	
1	2,616.79	1	2,256.02	1	1,895.25	1	1,534.48	1	1,172.87	1	810.05	1	446.79	1	83.90	1		1	
1/4	2,609.27	1/4	2,248.50	1/4	1,887.73	1/4	1,526.97	1/4	1,165.33	1/4	802.49	1/4	439.22	1/4	76.71	1/4		1/4	
1/2	2,601.76	1/2	2,240.99	1/2	1,880.22	1/2	1,519.45	1/2	1,157.78	1/2	794.92	1/2	431.65	1/2	69.52	1/2		1/2	
3/4	2,594.24	3/4	2,233.47	3/4	1,872.70	3/4	1,511.93	3/4	1,150.23	3/4	787.35	3/4	424.08	3/4	62.33	3/4		3/4	
2	2,586.72	2	2,225.95	2	1,865.19	2	1,504.42	2	1,142.69	2	779.78	2	416.51	2	56.28	2		2	
1/4	2,579.21	1/4	2,218.44	1/4	1,857.67	1/4	1,496.90	1/4	1,135.14	1/4	772.22	1/4	408.95	1/4	50.23	1/4		1/4	
1/2	2,571.69	1/2	2,210.92	1/2	1,850.16	1/2	1,489.39	1/2	1,127.60	1/2	764.65	1/2	401.38	1/2	44.17	1/2		1/2	
3/4	2,564.17	3/4	2,203.40	3/4	1,842.64	3/4	1,481.87	3/4	1,120.05	3/4	757.08	3/4	393.81	3/4	38.12	3/4		3/4	
3	2,556.66	3	2,195.89	3	1,835.12	3	1,474.35	3	1,112.50	3	749.51	3	386.24	3	33.58	3		3	
1/4	2,549.14	1/4	2,188.37	1/4	1,827.61	1/4	1,466.84	1/4	1,104.96	1/4	741.94	1/4	378.68	1/4	29.04	1/4		1/4	
1/2	2,541.63	1/2	2,180.86	1/2	1,820.09	1/2	1,459.32	1/2	1,097.41	1/2	734.37	1/2	371.11	1/2	24.50	1/2		1/2	
3/4	2,534.11	3/4	2,173.34	3/4	1,812.57	3/4	1,451.80	3/4	1,089.86	3/4	726.80	3/4	363.54	3/4	19.96	3/4		3/4	
4	2,526.59	4	2,165.83	4	1,805.06	4	1,444.29	4	1,082.31	4	719.23	4	355.97	4		4		4	
1/4	2,519.08	1/4	2,158.31	1/4	1,797.54	1/4	1,436.77	1/4	1,074.77	1/4	711.67	1/4	348.41	1/4		1/4		1/4	
1/2	2,511.56	1/2	2,150.80	1/2	1,790.03	1/2	1,429.26	1/2	1,067.22	1/2	704.10	1/2	340.84	1/2		1/2		1/2	
3/4	2,504.04	3/4	2,143.28	3/4	1,782.51	3/4	1,421.74	3/4	1,059.67	3/4	696.53	3/4	333.27	3/4		3/4		3/4	
5	2,496.53	5	2,135.76	5	1,774.99	5	1,414.23	5	1,052.12	5	688.96	5	325.70	5		5		5	
1/4	2,489.01	1/4	2,128.25	1/4	1,767.48	1/4	1,406.71	1/4	1,044.58	1/4	681.40	1/4	318.14	1/4		1/4		1/4	
1/2	2,481.50	1/2	2,120.73	1/2	1,759.96	1/2	1,399.20	1/2	1,037.03	1/2	673.83	1/2	310.57	1/2		1/2		1/2	
3/4	2,473.98	3/4	2,113.21	3/4	1,752.44	3/4	1,391.68	3/4	1,029.48	3/4	666.26	3/4	303.00	3/4		3/4		3/4	
6	2,466.47	6	2,105.70	6	1,744.93	6	1,384.15	6	1,021.92	6	658.69	6	295.43	6		6		6	
1/4	2,458.95	1/4	2,098.18	1/4	1,737.41	1/4	1,376.62	1/4	1,014.37	1/4	651.13	1/4	287.86	1/4		1/4		1/4	
1/2	2,451.44	1/2	2,090.67	1/2	1,729.90	1/2	1,369.08	1/2	1,006.81	1/2	643.56	1/2	280.29	1/2		1/2		1/2	
3/4	2,443.92	3/4	2,083.15	3/4	1,722.38	3/4	1,361.55	3/4	999.25	3/4	635.99	3/4	272.72	3/4		3/4		3/4	
7	2,436.40	7	2,075.63	7	1,714.87	7	1,354.00	7	991.68	7	628.42	7	265.15	7		7		7	
1/4	2,428.89	1/4	2,068.12	1/4	1,707.35	1/4	1,346.46	1/4	984.12	1/4	620.86	1/4	257.59	1/4		1/4		1/4	
1/2	2,421.37	1/2	2,060.60	1/2	1,699.84	1/2	1,338.91	1/2	976.55	1/2	613.29	1/2	250.02	1/2		1/2		1/2	
3/4	2,413.85	3/4	2,053.08	3/4	1,692.32	3/4	1,331.36	3/4	968.98	3/4	605.72	3/4	242.45	3/4		3/4		3/4	
8	2,406.34	8	2,045.57	8	1,684.80	8	1,323.81	8	961.41	8	598.15	8	234.88	8		8		8	
1/4	2,398.82	1/4	2,038.05	1/4	1,677.29	1/4	1,316.27	1/4	953.85	1/4	590.58	1/4	227.32	1/4		1/4		1/4	
1/2	2,391.31	1/2	2,030.54	1/2	1,669.77	1/2	1,308.72	1/2	946.28	1/2	583.01	1/2	219.75	1/2		1/2		1/2	
3/4	2,383.79	3/4	2,023.02	3/4	1,662.25	3/4	1,301.17	3/4	938.71	3/4	575.44	3/4	212.18	3/4		3/4		3/4	
9	2,376.27	9	2,015.51	9	1,654.74	9	1,293.63	9	931.14	9	567.87	9	204.61	9		9		9	
1/4	2,368.76	1/4	2,007.99	1/4	1,647.22	1/4	1,286.08	1/4	923.58	1/4	560.31	1/4	197.05	1/4		1/4		1/4	
1/2	2,361.24	1/2	2,000.48	1/2	1,639.71	1/2	1,278.54	1/2	916.01	1/2	552.74	1/2	189.48	1/2		1/2		1/2	
3/4	2,353.72	3/4	1,992.96	3/4	1,632.19	3/4	1,270.99	3/4	908.44	3/4	545.17	3/4	181.91	3/4		3/4		3/4	
10	2,346.21	10	1,985.44	10	1,624.67	10	1,263.44	10	900.87	10	537.60	10	174.34	10		10		10	
1/4	2,338.69	1/4	1,977.93	1/4	1,617.16	1/4	1,255.90	1/4	893.30	1/4	530.04	1/4	166.78	1/4		1/4		1/4	
1/2	2,331.18	1/2	1,970.41	1/2	1,609.64	1/2	1,248.35	1/2	885.73	1/2	522.47	1/2	159.21	1/2		1/2		1/2	
3/4	2,323.66	3/4	1,962.89	3/4	1,602.12	3/4	1,240.80	3/4	878.16	3/4	514.90	3/4	151.64	3/4		3/4		3/4	
11	2,316.15	11	1,955.38	11	1,594.61	11	1,233.25	11	870.59	11	507.33	11	144.07	11		11		11	
1/4	2,308.63	1/4	1,947.86	1/4	1,587.09	1/4	1,225.71	1/4	863.03	1/4	499.77	1/4	136.50	1/4		1/4		1/4	
1/2	2,301.12	1/2	1,940.35	1/2	1,579.58	1/2	1,218.16	1/2	855.46	1/2	492.20	1/2	128.93	1/2		1/2		1/2	
3/4	2,293.60	3/4	1,932.83	3/4	1,572.06	3/4	1,210.61	3/4	847.89	3/4	484.63	3/4	121.36	3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 09/09/2010 INSP.  
RECALCULATED: 11/12/2020 PMA  
NAME CHANGE: 11/12/2020 PMA

CANCELS AND SUPERCEDES  
ALL PRIOR TO 11/2020

PRECISION MEASUREMENT  
& ANALYSIS, INC.  
P.O. Box 2092  
Pearland, Texas 77588  
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# BARGE "KIRBY 31010"

## 2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "SMS 30017"

GAUGE HEIGHT 17'-04"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.			
IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT		
0		0		0		0	5,158.16	0	4,815.55	0	4,458.20	0	4,097.44	0	3,736.67	0	3,375.90	0	3,015.13		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,151.20	1/4	4,808.27	1/4	4,450.69	1/4	4,089.92	1/4	3,729.15	1/4	3,368.39	1/4	3,007.62		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,144.24	1/2	4,800.98	1/2	4,443.17	1/2	4,082.40	1/2	3,721.64	1/2	3,360.87	1/2	3,000.10		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,137.27	3/4	4,793.70	3/4	4,435.66	3/4	4,074.89	3/4	3,714.12	3/4	3,353.36	3/4	2,992.59		
1		1		1		1	5,130.31	1	4,786.41	1	4,428.14	1	4,067.37	1	3,706.60	1	3,345.84	1	2,985.07		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,123.27	1/4	4,779.05	1/4	4,420.63	1/4	4,059.85	1/4	3,699.09	1/4	3,338.32	1/4	2,977.55		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,116.22	1/2	4,771.68	1/2	4,413.11	1/2	4,052.34	1/2	3,691.57	1/2	3,330.81	1/2	2,970.04		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,109.18	3/4	4,764.32	3/4	4,405.60	3/4	4,044.82	3/4	3,684.06	3/4	3,323.29	3/4	2,962.52		
2		2		2		2	5,102.13	2	4,756.95	2	4,398.08	2	4,037.31	2	3,676.54	2	3,315.77	2	2,955.00		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,095.09	1/4	4,749.58	1/4	4,390.56	1/4	4,029.79	1/4	3,669.03	1/4	3,308.26	1/4	2,947.49		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,088.05	1/2	4,742.22	1/2	4,383.05	1/2	4,022.27	1/2	3,661.51	1/2	3,300.74	1/2	2,939.97		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,081.00	3/4	4,734.85	3/4	4,375.53	3/4	4,014.76	3/4	3,654.00	3/4	3,293.23	3/4	2,932.46		
3		3		3		3	5,073.96	3	4,727.48	3	4,368.01	3	4,007.24	3	3,646.48	3	3,285.71	3	2,924.94		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,066.92	1/4	4,720.12	1/4	4,360.50	1/4	3,999.72	1/4	3,638.96	1/4	3,278.19	1/4	2,917.43		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,059.87	1/2	4,712.75	1/2	4,352.98	1/2	3,992.21	1/2	3,631.45	1/2	3,270.68	1/2	2,909.91		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,052.83	3/4	4,705.39	3/4	4,345.47	3/4	3,984.69	3/4	3,623.93	3/4	3,263.16	3/4	2,902.40		
4		4	5,304.67	4	5,045.78	4	4,698.02	4	4,337.95	4	3,977.18	4	3,616.41	4	3,255.64	4	2,894.88				
1/4	1/4	1/4	5,304.04	1/4	5,038.66	1/4	4,690.57	1/4	4,330.43	1/4	3,969.66	1/4	3,608.90	1/4	3,248.13	1/4	2,887.36				
1/2	1/2	1/2	5,303.41	1/2	5,031.53	1/2	4,683.13	1/2	4,322.92	1/2	3,962.15	1/2	3,601.38	1/2	3,240.61	1/2	2,879.85				
3/4	3/4	3/4	5,302.78	3/4	5,024.41	3/4	4,675.68	3/4	4,315.40	3/4	3,954.64	3/4	3,593.87	3/4	3,233.10	3/4	2,872.33				
5		5	5,302.15	5	5,017.28	5	4,668.23	5	4,307.88	5	3,947.12	5	3,586.35	5	3,225.58	5	2,864.81				
1/4	1/4	1/4	5,300.26	1/4	5,010.16	1/4	4,660.78	1/4	4,300.37	1/4	3,939.60	1/4	3,578.83	1/4	3,218.07	1/4	2,857.30				
1/2	1/2	1/2	5,298.37	1/2	5,003.04	1/2	4,653.34	1/2	4,292.85	1/2	3,932.09	1/2	3,571.32	1/2	3,210.55	1/2	2,849.78				
3/4	3/4	3/4	5,296.47	3/4	4,995.91	3/4	4,645.89	3/4	4,285.34	3/4	3,924.57	3/4	3,563.80	3/4	3,203.04	3/4	2,842.27				
6		6	5,294.58	6	4,988.79	6	4,638.44	6	4,277.82	6	3,917.05	6	3,556.28	6	3,195.52	6	2,834.75				
1/4	1/4	1/4	5,291.43	1/4	4,981.67	1/4	4,631.00	1/4	4,270.31	1/4	3,909.54	1/4	3,548.77	1/4	3,188.00	1/4	2,827.23				
1/2	1/2	1/2	5,288.28	1/2	4,974.54	1/2	4,623.55	1/2	4,262.79	1/2	3,902.02	1/2	3,541.25	1/2	3,180.49	1/2	2,819.72				
3/4	3/4	3/4	5,285.12	3/4	4,967.42	3/4	4,616.11	3/4	4,255.28	3/4	3,894.51	3/4	3,533.74	3/4	3,172.97	3/4	2,812.20				
7		7	5,281.97	7	4,960.29	7	4,608.66	7	4,247.76	7	3,886.99	7	3,526.22	7	3,165.45	7	2,804.68				
1/4	1/4	1/4	5,277.56	1/4	4,953.09	1/4	4,601.13	1/4	4,240.24	1/4	3,879.47	1/4	3,518.71	1/4	3,157.94	1/4	2,797.17				
1/2	1/2	1/2	5,273.15	1/2	4,945.88	1/2	4,593.61	1/2	4,232.73	1/2	3,871.96	1/2	3,511.19	1/2	3,150.42	1/2	2,789.65				
3/4	3/4	3/4	5,268.73	3/4	4,938.68	3/4	4,586.08	3/4	4,225.21	3/4	3,864.44	3/4	3,503.68	3/4	3,142.91	3/4	2,782.14				
8		8	5,264.32	8	4,931.47	8	4,578.55	8	4,217.69	8	3,856.92	8	3,496.16	8	3,135.39	8	2,774.62				
1/4	1/4	1/4	5,258.64	1/4	4,924.27	1/4	4,571.02	1/4	4,210.18	1/4	3,849.41	1/4	3,488.64	1/4	3,127.87	1/4	2,767.11				
1/2	1/2	1/2	5,252.97	1/2	4,917.06	1/2	4,563.50	1/2	4,202.66	1/2	3,841.89	1/2	3,481.13	1/2	3,120.36	1/2	2,759.59				
3/4	3/4	3/4	5,247.29	3/4	4,909.86	3/4	4,555.97	3/4	4,195.15	3/4	3,834.38	3/4	3,473.61	3/4	3,112.84	3/4	2,752.08				
9		9	5,241.61	9	4,902.65	9	4,548.44	9	4,187.63	9	3,826.86	9	3,466.09	9	3,105.32	9	2,744.56				
1/4	1/4	1/4	5,234.67	1/4	4,895.45	1/4	4,540.91	1/4	4,180.11	1/4	3,819.35	1/4	3,458.58	1/4	3,097.81	1/4	2,737.04				
1/2	1/2	1/2	5,227.74	1/2	4,888.24	1/2	4,533.39	1/2	4,172.60	1/2	3,811.83	1/2	3,451.06	1/2	3,090.29	1/2	2,729.53				
3/4	3/4	3/4	5,220.80	3/4	4,881.04	3/4	4,525.86	3/4	4,165.08	3/4	3,804.32	3/4	3,443.55	3/4	3,082.78	3/4	2,722.01				
10		10	5,213.86	10	4,873.83	10	4,518.33	10	4,157.56	10	3,796.80	10	3,436.03	10	3,075.26	10	2,714.49				
1/4	1/4	1/4	5,206.90	1/4	4,866.55	1/4	4,510.82	1/4	4,150.05	1/4	3,789.28	1/4	3,428.51	1/4	3,067.75	1/4	2,706.98				
1/2	1/2	1/2	5,199.94	1/2	4,859.26	1/2	4,503.30	1/2	4,142.53	1/2	3,781.77	1/2	3,421.00	1/2	3,060.23	1/2	2,699.46				
3/4	3/4	3/4	5,192.97	3/4	4,851.98	3/4	4,495.79	3/4	4,135.01	3/4	3,774.25	3/4	3,413.48	3/4	3,052.72	3/4	2,691.95				
11		11	5,186.01	11	4,844.69	11	4,488.27	11	4,127.50	11	3,766.73	11	3,405.96	11	3,045.20	11	2,684.43				
1/4	1/4	1/4	5,179.05	1/4	4,837.41	1/4	4,480.75	1/4	4,119.98	1/4	3,759.22	1/4	3,398.45	1/4	3,037.68	1/4	2,676.91				
1/2	1/2	1/2	5,172.09	1/2	4,830.12	1/2	4,473.24	1/2	4,112.47	1/2	3,751.70	1/2	3,390.93	1/2	3,030.17	1/2	2,669.40				
3/4	3/4	3/4	5,165.12	3/4	4,822.84	3/4	4,465.72	3/4	4,104.95	3/4	3,744.19	3/4	3,383.42	3/4	3,022.65	3/4	2,661.88				

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 11'-00" OFF CENTERLINE AND 42'-03" FORWARD OF AFT BULKHEAD.

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 31010"

## 2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "SMS 30017"

GAUGE HEIGHT 17'-04"

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	2,654.36	0	2,293.60	0	1,932.83	0	1,572.06	0	1,210.61	0	847.89	0	484.63	0	121.36	0		0	
1/4	2,646.85	1/4	2,286.08	1/4	1,925.31	1/4	1,564.55	1/4	1,203.06	1/4	840.32	1/4	477.06	1/4	113.79	1/4		1/4	
1/2	2,639.33	1/2	2,278.57	1/2	1,917.80	1/2	1,557.03	1/2	1,195.52	1/2	832.76	1/2	469.50	1/2	106.23	1/2		1/2	
3/4	2,631.82	3/4	2,271.05	3/4	1,910.28	3/4	1,549.52	3/4	1,187.97	3/4	825.19	3/4	461.93	3/4	98.66	3/4		3/4	
1	2,624.30	1	2,263.53	1	1,902.76	1	1,542.00	1	1,180.42	1	817.62	1	454.36	1	91.09	1		1	
1/4	2,616.79	1/4	2,256.02	1/4	1,895.25	1/4	1,534.48	1/4	1,172.87	1/4	810.05	1/4	446.79	1/4	83.90	1/4		1/4	
1/2	2,609.27	1/2	2,248.50	1/2	1,887.73	1/2	1,526.97	1/2	1,165.33	1/2	802.49	1/2	439.22	1/2	76.71	1/2		1/2	
3/4	2,601.76	3/4	2,240.99	3/4	1,880.22	3/4	1,519.45	3/4	1,157.78	3/4	794.92	3/4	431.65	3/4	69.52	3/4		3/4	
2	2,594.24	2	2,233.47	2	1,872.70	2	1,511.93	2	1,150.23	2	787.35	2	424.08	2	62.33	2		2	
1/4	2,586.72	1/4	2,225.95	1/4	1,865.19	1/4	1,504.42	1/4	1,142.69	1/4	779.78	1/4	416.51	1/4	56.28	1/4		1/4	
1/2	2,579.21	1/2	2,218.44	1/2	1,857.67	1/2	1,496.90	1/2	1,135.14	1/2	772.22	1/2	408.95	1/2	50.23	1/2		1/2	
3/4	2,571.69	3/4	2,210.92	3/4	1,850.16	3/4	1,489.39	3/4	1,127.60	3/4	764.65	3/4	401.38	3/4	44.17	3/4		3/4	
3	2,564.17	3	2,203.40	3	1,842.64	3	1,481.87	3	1,120.05	3	757.08	3	393.81	3	38.12	3		3	
1/4	2,556.66	1/4	2,195.89	1/4	1,835.12	1/4	1,474.35	1/4	1,112.50	1/4	749.51	1/4	386.24	1/4	33.58	1/4		1/4	
1/2	2,549.14	1/2	2,188.37	1/2	1,827.61	1/2	1,466.84	1/2	1,104.96	1/2	741.94	1/2	378.68	1/2	29.04	1/2		1/2	
3/4	2,541.63	3/4	2,180.86	3/4	1,820.09	3/4	1,459.32	3/4	1,097.41	3/4	734.37	3/4	371.11	3/4	24.50	3/4		3/4	
4	2,534.11	4	2,173.34	4	1,812.57	4	1,451.80	4	1,089.86	4	726.80	4	363.54	4	19.96	4		4	
1/4	2,526.59	1/4	2,165.83	1/4	1,805.06	1/4	1,444.29	1/4	1,082.31	1/4	719.23	1/4	355.97	1/4		1/4		1/4	
1/2	2,519.08	1/2	2,158.31	1/2	1,797.54	1/2	1,436.77	1/2	1,074.77	1/2	711.67	1/2	348.41	1/2		1/2		1/2	
3/4	2,511.56	3/4	2,150.80	3/4	1,790.03	3/4	1,429.26	3/4	1,067.22	3/4	704.10	3/4	340.84	3/4		3/4		3/4	
5	2,504.04	5	2,143.28	5	1,782.51	5	1,421.74	5	1,059.67	5	696.53	5	333.27	5		5		5	
1/4	2,496.53	1/4	2,135.76	1/4	1,774.99	1/4	1,414.23	1/4	1,052.12	1/4	688.96	1/4	325.70	1/4		1/4		1/4	
1/2	2,489.01	1/2	2,128.25	1/2	1,767.48	1/2	1,406.71	1/2	1,044.58	1/2	681.40	1/2	318.14	1/2		1/2		1/2	
3/4	2,481.50	3/4	2,120.73	3/4	1,759.96	3/4	1,399.20	3/4	1,037.03	3/4	673.83	3/4	310.57	3/4		3/4		3/4	
6	2,473.98	6	2,113.21	6	1,752.44	6	1,391.68	6	1,029.48	6	666.26	6	303.00	6		6		6	
1/4	2,466.47	1/4	2,105.70	1/4	1,744.93	1/4	1,384.15	1/4	1,021.92	1/4	658.69	1/4	295.43	1/4		1/4		1/4	
1/2	2,458.95	1/2	2,098.18	1/2	1,737.41	1/2	1,376.62	1/2	1,014.37	1/2	651.13	1/2	287.86	1/2		1/2		1/2	
3/4	2,451.44	3/4	2,090.67	3/4	1,729.90	3/4	1,369.08	3/4	1,006.81	3/4	643.56	3/4	280.29	3/4		3/4		3/4	
7	2,443.92	7	2,083.15	7	1,722.38	7	1,361.55	7	999.25	7	635.99	7	272.72	7		7		7	
1/4	2,436.40	1/4	2,075.63	1/4	1,714.87	1/4	1,354.00	1/4	991.68	1/4	628.42	1/4	265.15	1/4		1/4		1/4	
1/2	2,428.89	1/2	2,068.12	1/2	1,707.35	1/2	1,346.46	1/2	984.12	1/2	620.86	1/2	257.59	1/2		1/2		1/2	
3/4	2,421.37	3/4	2,060.60	3/4	1,699.84	3/4	1,338.91	3/4	976.55	3/4	613.29	3/4	250.02	3/4		3/4		3/4	
8	2,413.85	8	2,053.08	8	1,692.32	8	1,331.36	8	968.98	8	605.72	8	242.45	8		8		8	
1/4	2,406.34	1/4	2,045.57	1/4	1,684.80	1/4	1,323.81	1/4	961.41	1/4	598.15	1/4	234.88	1/4		1/4		1/4	
1/2	2,398.82	1/2	2,038.05	1/2	1,677.29	1/2	1,316.27	1/2	953.85	1/2	590.58	1/2	227.32	1/2		1/2		1/2	
3/4	2,391.31	3/4	2,030.54	3/4	1,669.77	3/4	1,308.72	3/4	946.28	3/4	583.01	3/4	219.75	3/4		3/4		3/4	
9	2,383.79	9	2,023.02	9	1,662.25	9	1,301.17	9	938.71	9	575.44	9	212.18	9		9		9	
1/4	2,376.27	1/4	2,015.51	1/4	1,654.74	1/4	1,293.63	1/4	931.14	1/4	567.87	1/4	204.61	1/4		1/4		1/4	
1/2	2,368.76	1/2	2,007.99	1/2	1,647.22	1/2	1,286.08	1/2	923.58	1/2	560.31	1/2	197.05	1/2		1/2		1/2	
3/4	2,361.24	3/4	2,000.48	3/4	1,639.71	3/4	1,278.54	3/4	916.01	3/4	552.74	3/4	189.48	3/4		3/4		3/4	
10	2,353.72	10	1,992.96	10	1,632.19	10	1,270.99	10	908.44	10	545.17	10	181.91	10		10		10	
1/4	2,346.21	1/4	1,985.44	1/4	1,624.67	1/4	1,263.44	1/4	900.87	1/4	537.60	1/4	174.34	1/4		1/4		1/4	
1/2	2,338.69	1/2	1,977.93	1/2	1,617.16	1/2	1,255.90	1/2	893.30	1/2	530.04	1/2	166.78	1/2		1/2		1/2	
3/4	2,331.18	3/4	1,970.41	3/4	1,609.64	3/4	1,248.35	3/4	885.73	3/4	522.47	3/4	159.21	3/4		3/4		3/4	
11	2,323.66	11	1,962.89	11	1,602.12	11	1,240.80	11	878.16	11	514.90	11	151.64	11		11		11	
1/4	2,316.15	1/4	1,955.38	1/4	1,594.61	1/4	1,233.25	1/4	870.59	1/4	507.33	1/4	144.07	1/4		1/4		1/4	
1/2	2,308.63	1/2	1,947.86	1/2	1,587.09	1/2	1,225.71	1/2	863.03	1/2	499.77	1/2	136.50	1/2		1/2		1/2	
3/4	2,301.12	3/4	1,940.35	3/4	1,579.58	3/4	1,218.16	3/4	855.46	3/4	492.20	3/4	128.93	3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 09/09/2010 INSP.  
RECALCULATED: 11/12/2020 PMA  
NAME CHANGE: 11/12/2020 PMA

CANCELS AND SUPERCEDES  
ALL PRIOR TO 11/2020

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



# BARGE "KIRBY 31010"

## 3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "SMS 30017"

GAUGE HEIGHT 17'-04"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0
							4,284.18		4,101.96		3,911.69		3,718.49		3,525.29		3,331.51		3,006.08
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,280.48	1/4	4,098.08	1/4	3,907.66	1/4	3,714.46	1/4	3,521.26	1/4	3,326.90	1/4	2,998.55
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,276.78	1/2	4,094.21	1/2	3,903.64	1/2	3,710.44	1/2	3,517.24	1/2	3,322.30	1/2	2,991.03
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,273.07	3/4	4,090.33	3/4	3,899.61	3/4	3,706.41	3/4	3,513.21	3/4	3,317.69	3/4	2,983.50
<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>4,086.37</b>	<b>1</b>	<b>4,086.46</b>	<b>1</b>	<b>3,895.59</b>	<b>1</b>	<b>3,702.39</b>	<b>1</b>	<b>3,509.19</b>	<b>1</b>	<b>3,313.09</b>	<b>1</b>	<b>2,975.98</b>
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,265.62	1/4	4,082.54	1/4	3,891.56	1/4	3,698.36	1/4	3,505.16	1/4	3,307.90	1/4	2,968.45
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,261.88	1/2	4,078.62	1/2	3,887.54	1/2	3,694.34	1/2	3,501.14	1/2	3,302.72	1/2	2,960.93
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,258.13	3/4	4,074.71	3/4	3,883.51	3/4	3,690.31	3/4	3,497.11	3/4	3,297.53	3/4	2,953.40
<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>4,254.38</b>	<b>2</b>	<b>4,070.79</b>	<b>2</b>	<b>3,879.49</b>	<b>2</b>	<b>3,686.29</b>	<b>2</b>	<b>3,493.09</b>	<b>2</b>	<b>3,292.35</b>	<b>2</b>	<b>2,945.88</b>
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,250.64	1/4	4,066.87	1/4	3,875.46	1/4	3,682.26	1/4	3,489.06	1/4	3,286.58	1/4	2,938.35
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,246.89	1/2	4,062.95	1/2	3,871.44	1/2	3,678.24	1/2	3,485.04	1/2	3,280.81	1/2	2,930.82
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,243.15	3/4	4,059.04	3/4	3,867.41	3/4	3,674.21	3/4	3,481.01	3/4	3,275.05	3/4	2,923.30
<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>4,239.40</b>	<b>3</b>	<b>4,055.12</b>	<b>3</b>	<b>3,863.39</b>	<b>3</b>	<b>3,670.19</b>	<b>3</b>	<b>3,476.99</b>	<b>3</b>	<b>3,269.28</b>	<b>3</b>	<b>2,915.77</b>
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,235.65	1/4	4,051.20	1/4	3,859.36	1/4	3,666.16	1/4	3,472.96	1/4	3,262.93	1/4	2,908.24
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,231.91	1/2	4,047.28	1/2	3,855.34	1/2	3,662.14	1/2	3,468.94	1/2	3,256.59	1/2	2,900.72
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,228.16	3/4	4,043.37	3/4	3,851.31	3/4	3,658.11	3/4	3,464.91	3/4	3,250.24	3/4	2,893.19
<b>4</b>	<b>4</b>	<b>4</b>	<b>4,362.10</b>	<b>4</b>	<b>4,362.41</b>	<b>4</b>	<b>4,039.45</b>	<b>4</b>	<b>3,847.29</b>	<b>4</b>	<b>3,654.09</b>	<b>4</b>	<b>3,460.89</b>	<b>4</b>	<b>3,243.90</b>	<b>4</b>	<b>3,050.24</b>	<b>4</b>	<b>2,885.67</b>
1/4	1/4	1/4	4,361.77	1/4	4,220.62	1/4	4,035.49	1/4	3,843.26	1/4	3,650.06	1/4	3,456.86	1/4	3,236.97	1/4	3,043.24	1/4	2,878.14
1/2	1/2	1/2	4,361.43	1/2	4,216.83	1/2	4,031.53	1/2	3,839.24	1/2	3,646.04	1/2	3,452.84	1/2	3,230.04	1/2	3,036.32	1/2	2,870.61
3/4	3/4	3/4	4,361.10	3/4	4,213.05	3/4	4,027.57	3/4	3,835.21	3/4	3,642.01	3/4	3,448.81	3/4	3,223.12	3/4	3,028.64	3/4	2,863.09
<b>5</b>	<b>5</b>	<b>5</b>	<b>4,360.76</b>	<b>5</b>	<b>4,209.26</b>	<b>5</b>	<b>4,023.61</b>	<b>5</b>	<b>3,831.19</b>	<b>5</b>	<b>3,637.99</b>	<b>5</b>	<b>3,444.79</b>	<b>5</b>	<b>3,216.19</b>	<b>5</b>	<b>3,020.14</b>	<b>5</b>	<b>2,855.56</b>
1/4	1/4	1/4	4,359.75	1/4	4,205.47	1/4	4,019.65	1/4	3,827.16	1/4	3,633.96	1/4	3,440.76	1/4	3,208.82	1/4	3,016.32	1/4	2,848.03
1/2	1/2	1/2	4,358.75	1/2	4,201.68	1/2	4,015.69	1/2	3,823.14	1/2	3,629.94	1/2	3,436.74	1/2	3,201.45	1/2	2,999.14	1/2	2,840.51
3/4	3/4	3/4	4,357.74	3/4	4,197.89	3/4	4,011.73	3/4	3,819.11	3/4	3,625.91	3/4	3,432.71	3/4	3,194.08	3/4	2,990.32	3/4	2,832.98
<b>6</b>	<b>6</b>	<b>6</b>	<b>4,356.73</b>	<b>6</b>	<b>4,194.10</b>	<b>6</b>	<b>4,007.77</b>	<b>6</b>	<b>3,815.09</b>	<b>6</b>	<b>3,621.89</b>	<b>6</b>	<b>3,428.69</b>	<b>6</b>	<b>3,186.71</b>	<b>6</b>	<b>2,982.64</b>	<b>6</b>	<b>2,825.46</b>
1/4	1/4	1/4	4,355.06	1/4	4,190.31	1/4	4,003.81	1/4	3,811.06	1/4	3,617.86	1/4	3,424.66	1/4	3,179.18	1/4	2,973.14	1/4	2,817.93
1/2	1/2	1/2	4,353.38	1/2	4,186.52	1/2	3,999.85	1/2	3,807.04	1/2	3,613.84	1/2	3,420.64	1/2	3,171.65	1/2	2,964.65	1/2	2,810.41
3/4	3/4	3/4	4,351.71	3/4	4,182.74	3/4	3,995.89	3/4	3,803.01	3/4	3,609.81	3/4	3,416.61	3/4	3,164.13	3/4	2,955.17	3/4	2,802.88
<b>7</b>	<b>7</b>	<b>7</b>	<b>4,350.03</b>	<b>7</b>	<b>4,178.95</b>	<b>7</b>	<b>3,991.93</b>	<b>7</b>	<b>3,798.99</b>	<b>7</b>	<b>3,605.79</b>	<b>7</b>	<b>3,412.59</b>	<b>7</b>	<b>3,156.60</b>	<b>7</b>	<b>2,945.68</b>	<b>7</b>	<b>2,795.36</b>
1/4	1/4	1/4	4,347.68	1/4	4,175.12	1/4	3,987.92	1/4	3,794.96	1/4	3,601.76	1/4	3,408.56	1/4	3,149.07	1/4	2,936.19	1/4	2,787.83
1/2	1/2	1/2	4,345.33	1/2	4,171.28	1/2	3,983.92	1/2	3,790.94	1/2	3,597.74	1/2	3,404.54	1/2	3,141.55	1/2	2,926.73	1/2	2,780.30
3/4	3/4	3/4	4,342.98	3/4	4,167.45	3/4	3,979.91	3/4	3,786.91	3/4	3,593.71	3/4	3,400.51	3/4	3,134.02	3/4	2,916.24	3/4	2,772.78
<b>8</b>	<b>8</b>	<b>8</b>	<b>4,340.63</b>	<b>8</b>	<b>4,163.62</b>	<b>8</b>	<b>3,975.91</b>	<b>8</b>	<b>3,782.89</b>	<b>8</b>	<b>3,589.69</b>	<b>8</b>	<b>3,396.49</b>	<b>8</b>	<b>3,126.50</b>	<b>8</b>	<b>2,906.75</b>	<b>8</b>	<b>2,765.25</b>
1/4	1/4	1/4	4,337.61	1/4	4,159.79	1/4	3,971.91	1/4	3,778.86	1/4	3,585.66	1/4	3,392.46	1/4	3,118.97	1/4	2,897.26	1/4	2,757.72
1/2	1/2	1/2	4,334.60	1/2	4,155.95	1/2	3,967.90	1/2	3,774.84	1/2	3,581.64	1/2	3,388.44	1/2	3,111.45	1/2	2,887.77	1/2	2,750.20
3/4	3/4	3/4	4,331.58	3/4	4,152.12	3/4	3,963.90	3/4	3,770.81	3/4	3,577.61	3/4	3,384.41	3/4	3,103.92	3/4	2,878.28	3/4	2,742.67
<b>9</b>	<b>9</b>	<b>9</b>	<b>4,328.56</b>	<b>9</b>	<b>4,148.29</b>	<b>9</b>	<b>3,959.90</b>	<b>9</b>	<b>3,766.79</b>	<b>9</b>	<b>3,573.59</b>	<b>9</b>	<b>3,380.39</b>	<b>9</b>	<b>3,096.40</b>	<b>9</b>	<b>2,868.33</b>	<b>9</b>	<b>2,735.15</b>
1/4	1/4	1/4	4,324.87	1/4	4,144.46	1/4	3,955.90	1/4	3,762.76	1/4	3,569.56	1/4	3,376.36	1/4	3,088.87	1/4	2,858.84	1/4	2,727.62
1/2	1/2	1/2	4,321.18	1/2	4,140.62	1/2	3,951.89	1/2	3,758.74	1/2	3,565.54	1/2	3,372.34	1/2	3,081.34	1/2	2,849.35	1/2	2,720.09
3/4	3/4	3/4	4,317.49	3/4	4,136.79	3/4	3,947.89	3/4	3,754.71	3/4	3,561.51	3/4	3,368.31	3/4	3,073.82	3/4	2,840.86	3/4	2,712.57
<b>10</b>	<b>10</b>	<b>10</b>	<b>4,313.80</b>	<b>10</b>	<b>4,132.96</b>	<b>10</b>	<b>3,943.89</b>	<b>10</b>	<b>3,750.69</b>	<b>10</b>	<b>3,557.49</b>	<b>10</b>	<b>3,364.29</b>	<b>10</b>	<b>3,066.29</b>	<b>10</b>	<b>2,831.91</b>	<b>10</b>	<b>2,705.04</b>
1/4	1/4	1/4	4,310.10	1/4	4,129.08	1/4	3,939.86	1/4	3,746.66	1/4	3,553.46	1/4	3,360.26	1/4	3,058.76	1/4	2,822.42	1/4	2,697.51
1/2	1/2	1/2	4,306.40	1/2	4,125.21	1/2	3,935.84	1/2	3,742.64	1/2	3,549.44	1/2	3,356.24	1/2	3,051.24	1/2	2,813.93	1/2	2,689.99
3/4	3/4	3/4	4,302.69	3/4	4,121.33	3/4	3,931.81	3/4	3,738.61	3/4	3,545.41	3/4	3,352.21	3/4	3,043.71	3/4	2,804.44	3/4	2,682.46
<b>11</b>	<b>11</b>	<b>11</b>	<b>4,298.99</b>	<b>11</b>	<b>4,117.46</b>	<b>11</b>	<b>3,927.79</b>	<b>11</b>	<b>3,734.59</b>	<b>11</b>	<b>3,541.39</b>	<b>11</b>	<b>3,348.19</b>	<b>11</b>	<b>3,036.19</b>	<b>11</b>	<b>2,795.44</b>	<b>11</b>	<b>2,674.94</b>
1/4	1/4	1/4	4,295.29	1/4	4,113.58	1/4	3,923.76	1/4	3,730.56	1/4	3,537.36	1/4	3,344.02	1/4	3,028.66	1/4	2,785.99	1/4	2,667.41
1/2	1/2	1/2	4,291.59	1/2	4,109.71	1/2	3,919.74	1/2	3,726.54	1/2	3,533.34	1/2	3,339.85	1/2	3,021.13	1/2	2,776.54	1/2	2,659.89
3/4	3/4	3/4	4,287.88	3/4	4,105.83	3/4	3,915.71	3/4	3,722.51	3/4	3,529.31	3/4	3,335.68	3/4	3,013.61	3/4	2,767.09	3/4	2,652.36

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 11'-00" OFF CENTERLINE AND 55'-00" FORWARD OF AFT BULKHEAD.

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 31010"

## 3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "SMS 30017"

GAUGE HEIGHT 17'-04"

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	2,644.84	0	2,283.59	0	1,922.34	0	1,561.09	0	1,200.72	0	840.96	0	480.67	0	120.38	0		0	
1/4	2,637.31	1/4	2,276.06	1/4	1,914.81	1/4	1,553.56	1/4	1,193.23	1/4	833.45	1/4	473.16	1/4	112.87	1/4		1/4	
1/2	2,629.78	1/2	2,268.53	1/2	1,907.29	1/2	1,546.04	1/2	1,185.75	1/2	825.94	1/2	465.65	1/2	105.37	1/2		1/2	
3/4	2,622.26	3/4	2,261.01	3/4	1,899.76	3/4	1,538.51	3/4	1,178.26	3/4	818.44	3/4	458.15	3/4	97.86	3/4		3/4	
1	2,614.73	1	2,253.48	1	1,892.24	1	1,530.99	1	1,170.78	1	810.93	1	450.64	1	90.36	1		1	
1/4	2,607.20	1/4	2,245.95	1/4	1,884.71	1/4	1,523.46	1/4	1,163.29	1/4	803.42	1/4	443.13	1/4	83.23	1/4		1/4	
1/2	2,599.68	1/2	2,238.43	1/2	1,877.18	1/2	1,515.93	1/2	1,155.81	1/2	795.92	1/2	435.63	1/2	76.09	1/2		1/2	
3/4	2,592.15	3/4	2,230.90	3/4	1,869.66	3/4	1,508.41	3/4	1,148.32	3/4	788.41	3/4	428.12	3/4	68.96	3/4		3/4	
2	2,584.63	2	2,223.38	2	1,862.13	2	1,500.88	2	1,140.84	2	780.91	2	420.62	2	61.83	2		2	
1/4	2,577.10	1/4	2,215.85	1/4	1,854.60	1/4	1,493.35	1/4	1,133.35	1/4	773.40	1/4	413.11	1/4	55.82	1/4		1/4	
1/2	2,569.57	1/2	2,208.33	1/2	1,847.08	1/2	1,485.83	1/2	1,125.86	1/2	765.89	1/2	405.61	1/2	49.82	1/2		1/2	
3/4	2,562.05	3/4	2,200.80	3/4	1,839.55	3/4	1,478.30	3/4	1,118.38	3/4	758.39	3/4	398.10	3/4	43.81	3/4		3/4	
3	2,554.52	3	2,193.28	3	1,832.03	3	1,470.78	3	1,110.89	3	750.88	3	390.60	3	37.81	3		3	
1/4	2,546.99	1/4	2,185.75	1/4	1,824.50	1/4	1,463.25	1/4	1,103.40	1/4	743.37	1/4	383.09	1/4	33.31	1/4		1/4	
1/2	2,539.47	1/2	2,178.22	1/2	1,816.97	1/2	1,455.73	1/2	1,095.92	1/2	735.87	1/2	375.58	1/2	28.80	1/2		1/2	
3/4	2,531.94	3/4	2,170.70	3/4	1,809.45	3/4	1,448.20	3/4	1,088.43	3/4	728.36	3/4	368.08	3/4	24.30	3/4		3/4	
4	2,524.42	4	2,163.17	4	1,801.92	4	1,440.68	4	1,080.95	4	720.86	4	360.57	4	19.80	4		4	
1/4	2,516.89	1/4	2,155.64	1/4	1,794.39	1/4	1,433.15	1/4	1,073.46	1/4	713.35	1/4	353.06	1/4		1/4		1/4	
1/2	2,509.37	1/2	2,148.12	1/2	1,786.87	1/2	1,425.62	1/2	1,065.97	1/2	705.85	1/2	345.56	1/2		1/2		1/2	
3/4	2,501.84	3/4	2,140.59	3/4	1,779.34	3/4	1,418.10	3/4	1,058.49	3/4	698.34	3/4	338.05	3/4		3/4		3/4	
5	2,494.32	5	2,133.07	5	1,771.82	5	1,410.57	5	1,051.00	5	690.84	5	330.55	5		5		5	
1/4	2,486.79	1/4	2,125.54	1/4	1,764.29	1/4	1,403.04	1/4	1,043.51	1/4	683.33	1/4	323.04	1/4		1/4		1/4	
1/2	2,479.26	1/2	2,118.01	1/2	1,756.77	1/2	1,395.52	1/2	1,036.03	1/2	675.82	1/2	315.53	1/2		1/2		1/2	
3/4	2,471.74	3/4	2,110.49	3/4	1,749.24	3/4	1,387.99	3/4	1,028.54	3/4	668.32	3/4	308.03	3/4		3/4		3/4	
6	2,464.21	6	2,102.96	6	1,741.72	6	1,380.47	6	1,021.06	6	660.81	6	300.52	6		6		6	
1/4	2,456.68	1/4	2,095.43	1/4	1,734.19	1/4	1,372.96	1/4	1,013.56	1/4	653.30	1/4	293.01	1/4		1/4		1/4	
1/2	2,449.16	1/2	2,087.91	1/2	1,726.66	1/2	1,365.45	1/2	1,006.07	1/2	645.80	1/2	285.51	1/2		1/2		1/2	
3/4	2,441.63	3/4	2,080.38	3/4	1,719.14	3/4	1,357.95	3/4	998.57	3/4	638.29	3/4	278.00	3/4		3/4		3/4	
7	2,434.11	7	2,072.86	7	1,711.61	7	1,350.44	7	991.08	7	630.79	7	270.50	7		7		7	
1/4	2,426.58	1/4	2,065.33	1/4	1,704.08	1/4	1,342.95	1/4	983.57	1/4	623.28	1/4	262.99	1/4		1/4		1/4	
1/2	2,419.05	1/2	2,057.81	1/2	1,696.56	1/2	1,335.47	1/2	976.06	1/2	615.77	1/2	255.49	1/2		1/2		1/2	
3/4	2,411.53	3/4	2,050.28	3/4	1,689.03	3/4	1,327.98	3/4	968.56	3/4	608.27	3/4	247.98	3/4		3/4		3/4	
8	2,404.00	8	2,042.76	8	1,681.51	8	1,320.50	8	961.05	8	600.76	8	240.48	8		8		8	
1/4	2,396.47	1/4	2,035.23	1/4	1,673.98	1/4	1,313.01	1/4	953.54	1/4	593.25	1/4	232.97	1/4		1/4		1/4	
1/2	2,388.95	1/2	2,027.70	1/2	1,666.45	1/2	1,305.53	1/2	946.04	1/2	585.75	1/2	225.46	1/2		1/2		1/2	
3/4	2,381.42	3/4	2,020.18	3/4	1,658.93	3/4	1,298.04	3/4	938.53	3/4	578.24	3/4	217.96	3/4		3/4		3/4	
9	2,373.90	9	2,012.65	9	1,651.40	9	1,290.56	9	931.03	9	570.74	9	210.45	9		9		9	
1/4	2,366.37	1/4	2,005.12	1/4	1,643.87	1/4	1,283.07	1/4	923.52	1/4	563.23	1/4	202.94	1/4		1/4		1/4	
1/2	2,358.85	1/2	1,997.60	1/2	1,636.35	1/2	1,275.58	1/2	916.01	1/2	555.73	1/2	195.44	1/2		1/2		1/2	
3/4	2,351.32	3/4	1,990.07	3/4	1,628.82	3/4	1,268.10	3/4	908.51	3/4	548.22	3/4	187.93	3/4		3/4		3/4	
10	2,343.80	10	1,982.55	10	1,621.30	10	1,260.61	10	901.00	10	540.72	10	180.43	10		10		10	
1/4	2,336.27	1/4	1,975.02	1/4	1,613.77	1/4	1,253.12	1/4	893.49	1/4	533.21	1/4	172.92	1/4		1/4		1/4	
1/2	2,328.74	1/2	1,967.49	1/2	1,606.25	1/2	1,245.64	1/2	885.99	1/2	525.70	1/2	165.41	1/2		1/2		1/2	
3/4	2,321.22	3/4	1,959.97	3/4	1,598.72	3/4	1,238.15	3/4	878.48	3/4	518.20	3/4	157.91	3/4		3/4		3/4	
11	2,313.69	11	1,952.44	11	1,591.20	11	1,230.67	11	870.98	11	510.69	11	150.40	11		11		11	
1/4	2,306.16	1/4	1,944.91	1/4	1,583.67	1/4	1,223.18	1/4	863.47	1/4	503.18	1/4	142.89	1/4		1/4		1/4	
1/2	2,298.64	1/2	1,937.39	1/2	1,576.14	1/2	1,215.69	1/2	855.97	1/2	495.68	1/2	135.39	1/2		1/2		1/2	
3/4	2,291.11	3/4	1,929.86	3/4	1,568.62	3/4	1,208.21	3/4	848.46	3/4	488.17	3/4	127.88	3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 09/09/2010 INSP.  
RECALCULATED: 11/12/2020 PMA  
NAME CHANGE: 11/12/2020 PMA

CANCELS AND SUPERCEDES  
ALL PRIOR TO 11/2020

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



# BARGE "KIRBY 31010"

## 3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "SMS 30017"

GAUGE HEIGHT 17'-04"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0
							4,284.18		4,101.96		3,911.69		3,718.49		3,525.29		3,331.51		3,006.08
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,280.48	1/4	4,098.08	1/4	3,907.66	1/4	3,714.46	1/4	3,521.26	1/4	3,326.90	1/4	2,998.55
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,276.78	1/2	4,094.21	1/2	3,903.64	1/2	3,710.44	1/2	3,517.24	1/2	3,322.30	1/2	2,991.03
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,273.07	3/4	4,090.33	3/4	3,899.61	3/4	3,706.41	3/4	3,513.21	3/4	3,317.69	3/4	2,983.50
<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>4,086.37</b>	<b>1</b>	<b>4,086.46</b>	<b>1</b>	<b>3,895.59</b>	<b>1</b>	<b>3,702.39</b>	<b>1</b>	<b>3,509.19</b>	<b>1</b>	<b>3,313.09</b>	<b>1</b>	<b>2,975.98</b>
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,265.62	1/4	4,082.54	1/4	3,891.56	1/4	3,698.36	1/4	3,505.16	1/4	3,307.90	1/4	2,968.45
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,261.88	1/2	4,078.62	1/2	3,887.54	1/2	3,694.34	1/2	3,501.14	1/2	3,302.72	1/2	2,960.93
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,258.13	3/4	4,074.71	3/4	3,883.51	3/4	3,690.31	3/4	3,497.11	3/4	3,297.53	3/4	2,953.40
<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>4,254.38</b>	<b>2</b>	<b>4,070.79</b>	<b>2</b>	<b>3,879.49</b>	<b>2</b>	<b>3,686.29</b>	<b>2</b>	<b>3,493.09</b>	<b>2</b>	<b>3,292.35</b>	<b>2</b>	<b>2,945.88</b>
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,250.64	1/4	4,066.87	1/4	3,875.46	1/4	3,682.26	1/4	3,489.06	1/4	3,286.58	1/4	2,938.35
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,246.89	1/2	4,062.95	1/2	3,871.44	1/2	3,678.24	1/2	3,485.04	1/2	3,280.81	1/2	2,930.82
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,243.15	3/4	4,059.04	3/4	3,867.41	3/4	3,674.21	3/4	3,481.01	3/4	3,275.05	3/4	2,923.30
<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>4,239.40</b>	<b>3</b>	<b>4,055.12</b>	<b>3</b>	<b>3,863.39</b>	<b>3</b>	<b>3,670.19</b>	<b>3</b>	<b>3,476.99</b>	<b>3</b>	<b>3,269.28</b>	<b>3</b>	<b>2,915.77</b>
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,235.65	1/4	4,051.20	1/4	3,859.36	1/4	3,666.16	1/4	3,472.96	1/4	3,262.93	1/4	2,908.24
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,231.91	1/2	4,047.28	1/2	3,855.34	1/2	3,662.14	1/2	3,468.94	1/2	3,256.59	1/2	2,900.72
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,228.16	3/4	4,043.37	3/4	3,851.31	3/4	3,658.11	3/4	3,464.91	3/4	3,250.24	3/4	2,893.19
<b>4</b>	<b>4</b>	<b>4</b>	<b>4,362.10</b>	<b>4</b>	<b>4,362.41</b>	<b>4</b>	<b>4,039.45</b>	<b>4</b>	<b>3,847.29</b>	<b>4</b>	<b>3,654.09</b>	<b>4</b>	<b>3,460.89</b>	<b>4</b>	<b>3,243.90</b>	<b>4</b>	<b>3,050.67</b>	<b>4</b>	<b>2,885.67</b>
1/4	1/4	1/4	4,361.77	1/4	4,220.62	1/4	4,035.49	1/4	3,843.26	1/4	3,650.06	1/4	3,456.86	1/4	3,236.97	1/4	3,043.74	1/4	2,878.14
1/2	1/2	1/2	4,361.43	1/2	4,216.83	1/2	4,031.53	1/2	3,839.24	1/2	3,646.04	1/2	3,452.84	1/2	3,230.04	1/2	3,036.58	1/2	2,870.61
3/4	3/4	3/4	4,361.10	3/4	4,213.05	3/4	4,027.57	3/4	3,835.21	3/4	3,642.01	3/4	3,448.81	3/4	3,223.12	3/4	3,027.06	3/4	2,863.09
<b>5</b>	<b>5</b>	<b>5</b>	<b>4,360.76</b>	<b>5</b>	<b>4,209.26</b>	<b>5</b>	<b>4,023.61</b>	<b>5</b>	<b>3,831.19</b>	<b>5</b>	<b>3,637.99</b>	<b>5</b>	<b>3,444.79</b>	<b>5</b>	<b>3,216.19</b>	<b>5</b>	<b>3,022.96</b>	<b>5</b>	<b>2,855.56</b>
1/4	1/4	1/4	4,359.75	1/4	4,205.47	1/4	4,019.65	1/4	3,827.16	1/4	3,633.96	1/4	3,440.76	1/4	3,208.82	1/4	3,014.36	1/4	2,848.03
1/2	1/2	1/2	4,358.75	1/2	4,201.68	1/2	4,015.69	1/2	3,823.14	1/2	3,629.94	1/2	3,436.74	1/2	3,201.45	1/2	2,999.91	1/2	2,840.51
3/4	3/4	3/4	4,357.74	3/4	4,197.89	3/4	4,011.73	3/4	3,819.11	3/4	3,625.91	3/4	3,432.71	3/4	3,194.08	3/4	2,991.42	3/4	2,832.98
<b>6</b>	<b>6</b>	<b>6</b>	<b>4,356.73</b>	<b>6</b>	<b>4,194.10</b>	<b>6</b>	<b>4,007.77</b>	<b>6</b>	<b>3,815.09</b>	<b>6</b>	<b>3,621.89</b>	<b>6</b>	<b>3,428.69</b>	<b>6</b>	<b>3,186.71</b>	<b>6</b>	<b>2,983.44</b>	<b>6</b>	<b>2,825.46</b>
1/4	1/4	1/4	4,355.06	1/4	4,190.31	1/4	4,003.81	1/4	3,811.06	1/4	3,617.86	1/4	3,424.66	1/4	3,179.18	1/4	2,974.93	1/4	2,817.93
1/2	1/2	1/2	4,353.38	1/2	4,186.52	1/2	3,999.85	1/2	3,807.04	1/2	3,613.84	1/2	3,420.64	1/2	3,171.65	1/2	2,966.44	1/2	2,810.41
3/4	3/4	3/4	4,351.71	3/4	4,182.74	3/4	3,995.89	3/4	3,803.01	3/4	3,609.81	3/4	3,416.61	3/4	3,164.13	3/4	2,957.96	3/4	2,802.88
<b>7</b>	<b>7</b>	<b>7</b>	<b>4,350.03</b>	<b>7</b>	<b>4,178.95</b>	<b>7</b>	<b>3,991.93</b>	<b>7</b>	<b>3,798.99</b>	<b>7</b>	<b>3,605.79</b>	<b>7</b>	<b>3,412.59</b>	<b>7</b>	<b>3,156.60</b>	<b>7</b>	<b>2,949.07</b>	<b>7</b>	<b>2,795.36</b>
1/4	1/4	1/4	4,347.68	1/4	4,175.12	1/4	3,987.92	1/4	3,794.96	1/4	3,601.76	1/4	3,408.56	1/4	3,149.07	1/4	2,940.58	1/4	2,787.83
1/2	1/2	1/2	4,345.33	1/2	4,171.28	1/2	3,983.92	1/2	3,790.94	1/2	3,597.74	1/2	3,404.54	1/2	3,141.55	1/2	2,932.09	1/2	2,780.30
3/4	3/4	3/4	4,342.98	3/4	4,167.45	3/4	3,979.91	3/4	3,786.91	3/4	3,593.71	3/4	3,400.51	3/4	3,134.02	3/4	2,923.60	3/4	2,772.78
<b>8</b>	<b>8</b>	<b>8</b>	<b>4,340.63</b>	<b>8</b>	<b>4,163.62</b>	<b>8</b>	<b>3,975.91</b>	<b>8</b>	<b>3,782.89</b>	<b>8</b>	<b>3,589.69</b>	<b>8</b>	<b>3,396.49</b>	<b>8</b>	<b>3,126.50</b>	<b>8</b>	<b>2,914.11</b>	<b>8</b>	<b>2,765.25</b>
1/4	1/4	1/4	4,337.61	1/4	4,159.79	1/4	3,971.91	1/4	3,778.86	1/4	3,585.66	1/4	3,392.46	1/4	3,118.97	1/4	2,905.62	1/4	2,757.72
1/2	1/2	1/2	4,334.60	1/2	4,155.95	1/2	3,967.90	1/2	3,774.84	1/2	3,581.64	1/2	3,388.44	1/2	3,111.45	1/2	2,896.13	1/2	2,750.20
3/4	3/4	3/4	4,331.58	3/4	4,152.12	3/4	3,963.90	3/4	3,770.81	3/4	3,577.61	3/4	3,384.41	3/4	3,103.92	3/4	2,887.64	3/4	2,742.67
<b>9</b>	<b>9</b>	<b>9</b>	<b>4,328.56</b>	<b>9</b>	<b>4,148.29</b>	<b>9</b>	<b>3,959.90</b>	<b>9</b>	<b>3,766.79</b>	<b>9</b>	<b>3,573.59</b>	<b>9</b>	<b>3,380.39</b>	<b>9</b>	<b>3,096.40</b>	<b>9</b>	<b>2,878.15</b>	<b>9</b>	<b>2,735.15</b>
1/4	1/4	1/4	4,324.87	1/4	4,144.46	1/4	3,955.90	1/4	3,762.76	1/4	3,569.56	1/4	3,376.36	1/4	3,088.87	1/4	2,869.66	1/4	2,727.62
1/2	1/2	1/2	4,321.18	1/2	4,140.62	1/2	3,951.89	1/2	3,758.74	1/2	3,565.54	1/2	3,372.34	1/2	3,081.34	1/2	2,860.17	1/2	2,720.09
3/4	3/4	3/4	4,317.49	3/4	4,136.79	3/4	3,947.89	3/4	3,754.71	3/4	3,561.51	3/4	3,368.31	3/4	3,073.82	3/4	2,850.68	3/4	2,712.57
<b>10</b>	<b>10</b>	<b>10</b>	<b>4,313.80</b>	<b>10</b>	<b>4,132.96</b>	<b>10</b>	<b>3,943.89</b>	<b>10</b>	<b>3,750.69</b>	<b>10</b>	<b>3,557.49</b>	<b>10</b>	<b>3,364.29</b>	<b>10</b>	<b>3,066.29</b>	<b>10</b>	<b>2,841.19</b>	<b>10</b>	<b>2,705.04</b>
1/4	1/4	1/4	4,310.10	1/4	4,129.08	1/4	3,939.86	1/4	3,746.66	1/4	3,553.46	1/4	3,360.26	1/4	3,058.76	1/4	2,831.70	1/4	2,697.51
1/2	1/2	1/2	4,306.40	1/2	4,125.21	1/2	3,935.84	1/2	3,742.64	1/2	3,549.44	1/2	3,356.24	1/2	3,051.24	1/2	2,822.21	1/2	2,689.99
3/4	3/4	3/4	4,302.69	3/4	4,121.33	3/4	3,931.81	3/4	3,738.61	3/4	3,545.41	3/4	3,352.21	3/4	3,043.71	3/4	2,812.71	3/4	2,682.46
<b>11</b>	<b>11</b>	<b>11</b>	<b>4,298.99</b>	<b>11</b>	<b>4,117.46</b>	<b>11</b>	<b>3,927.79</b>	<b>11</b>	<b>3,734.59</b>	<b>11</b>	<b>3,541.39</b>	<b>11</b>	<b>3,348.19</b>	<b>11</b>	<b>3,036.19</b>	<b>11</b>	<b>2,803.21</b>	<b>11</b>	<b>2,674.94</b>
1/4	1/4	1/4	4,295.29	1/4	4,113.58	1/4	3,923.76	1/4	3,730.56	1/4	3,537.36	1/4	3,344.02	1/4	3,028.66	1/4	2,793.76	1/4	2,667.41
1/2	1/2	1/2	4,291.59	1/2	4,109.71	1/2	3,919.74	1/2	3,726.54	1/2	3,533.34	1/2	3,339.85	1/2	3,021.13	1/2	2,784.27	1/2	2,659.89
3/4	3/4	3/4	4,287.88	3/4	4,105.83	3/4	3,915.71	3/4	3,722.51	3/4	3,529.31	3/4	3,335.68	3/4	3,013.61	3/4	2,774.79	3/4	2,652.36

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 11'-00" OFF CENTERLINE AND 55'-00" FORWARD OF AFT BULKHEAD.

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 31010"

## 3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "SMS 30017"

GAUGE HEIGHT 17'-04"

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	2,644.84	0	2,283.59	0	1,922.34	0	1,561.09	0	1,200.72	0	840.96	0	480.67	0	120.38	0		0	
1/4	2,637.31	1/4	2,276.06	1/4	1,914.81	1/4	1,553.56	1/4	1,193.23	1/4	833.45	1/4	473.16	1/4	112.87	1/4		1/4	
1/2	2,629.78	1/2	2,268.53	1/2	1,907.29	1/2	1,546.04	1/2	1,185.75	1/2	825.94	1/2	465.65	1/2	105.37	1/2		1/2	
3/4	2,622.26	3/4	2,261.01	3/4	1,899.76	3/4	1,538.51	3/4	1,178.26	3/4	818.44	3/4	458.15	3/4	97.86	3/4		3/4	
1	2,614.73	1	2,253.48	1	1,892.24	1	1,530.99	1	1,170.78	1	810.93	1	450.64	1	90.36	1		1	
1/4	2,607.20	1/4	2,245.95	1/4	1,884.71	1/4	1,523.46	1/4	1,163.29	1/4	803.42	1/4	443.13	1/4	83.23	1/4		1/4	
1/2	2,599.68	1/2	2,238.43	1/2	1,877.18	1/2	1,515.93	1/2	1,155.81	1/2	795.92	1/2	435.63	1/2	76.09	1/2		1/2	
3/4	2,592.15	3/4	2,230.90	3/4	1,869.66	3/4	1,508.41	3/4	1,148.32	3/4	788.41	3/4	428.12	3/4	68.96	3/4		3/4	
2	2,584.63	2	2,223.38	2	1,862.13	2	1,500.88	2	1,140.84	2	780.91	2	420.62	2	61.83	2		2	
1/4	2,577.10	1/4	2,215.85	1/4	1,854.60	1/4	1,493.35	1/4	1,133.35	1/4	773.40	1/4	413.11	1/4	55.82	1/4		1/4	
1/2	2,569.57	1/2	2,208.33	1/2	1,847.08	1/2	1,485.83	1/2	1,125.86	1/2	765.89	1/2	405.61	1/2	49.82	1/2		1/2	
3/4	2,562.05	3/4	2,200.80	3/4	1,839.55	3/4	1,478.30	3/4	1,118.38	3/4	758.39	3/4	398.10	3/4	43.81	3/4		3/4	
3	2,554.52	3	2,193.28	3	1,832.03	3	1,470.78	3	1,110.89	3	750.88	3	390.60	3	37.81	3		3	
1/4	2,546.99	1/4	2,185.75	1/4	1,824.50	1/4	1,463.25	1/4	1,103.40	1/4	743.37	1/4	383.09	1/4	33.31	1/4		1/4	
1/2	2,539.47	1/2	2,178.22	1/2	1,816.97	1/2	1,455.73	1/2	1,095.92	1/2	735.87	1/2	375.58	1/2	28.80	1/2		1/2	
3/4	2,531.94	3/4	2,170.70	3/4	1,809.45	3/4	1,448.20	3/4	1,088.43	3/4	728.36	3/4	368.08	3/4	24.30	3/4		3/4	
4	2,524.42	4	2,163.17	4	1,801.92	4	1,440.68	4	1,080.95	4	720.86	4	360.57	4	19.80	4		4	
1/4	2,516.89	1/4	2,155.64	1/4	1,794.39	1/4	1,433.15	1/4	1,073.46	1/4	713.35	1/4	353.06	1/4		1/4		1/4	
1/2	2,509.37	1/2	2,148.12	1/2	1,786.87	1/2	1,425.62	1/2	1,065.97	1/2	705.85	1/2	345.56	1/2		1/2		1/2	
3/4	2,501.84	3/4	2,140.59	3/4	1,779.34	3/4	1,418.10	3/4	1,058.49	3/4	698.34	3/4	338.05	3/4		3/4		3/4	
5	2,494.32	5	2,133.07	5	1,771.82	5	1,410.57	5	1,051.00	5	690.84	5	330.55	5		5		5	
1/4	2,486.79	1/4	2,125.54	1/4	1,764.29	1/4	1,403.04	1/4	1,043.51	1/4	683.33	1/4	323.04	1/4		1/4		1/4	
1/2	2,479.26	1/2	2,118.01	1/2	1,756.77	1/2	1,395.52	1/2	1,036.03	1/2	675.82	1/2	315.53	1/2		1/2		1/2	
3/4	2,471.74	3/4	2,110.49	3/4	1,749.24	3/4	1,387.99	3/4	1,028.54	3/4	668.32	3/4	308.03	3/4		3/4		3/4	
6	2,464.21	6	2,102.96	6	1,741.72	6	1,380.47	6	1,021.06	6	660.81	6	300.52	6		6		6	
1/4	2,456.68	1/4	2,095.43	1/4	1,734.19	1/4	1,372.96	1/4	1,013.56	1/4	653.30	1/4	293.01	1/4		1/4		1/4	
1/2	2,449.16	1/2	2,087.91	1/2	1,726.66	1/2	1,365.45	1/2	1,006.07	1/2	645.80	1/2	285.51	1/2		1/2		1/2	
3/4	2,441.63	3/4	2,080.38	3/4	1,719.14	3/4	1,357.95	3/4	998.57	3/4	638.29	3/4	278.00	3/4		3/4		3/4	
7	2,434.11	7	2,072.86	7	1,711.61	7	1,350.44	7	991.08	7	630.79	7	270.50	7		7		7	
1/4	2,426.58	1/4	2,065.33	1/4	1,704.08	1/4	1,342.95	1/4	983.57	1/4	623.28	1/4	262.99	1/4		1/4		1/4	
1/2	2,419.05	1/2	2,057.81	1/2	1,696.56	1/2	1,335.47	1/2	976.06	1/2	615.77	1/2	255.49	1/2		1/2		1/2	
3/4	2,411.53	3/4	2,050.28	3/4	1,689.03	3/4	1,327.98	3/4	968.56	3/4	608.27	3/4	247.98	3/4		3/4		3/4	
8	2,404.00	8	2,042.76	8	1,681.51	8	1,320.50	8	961.05	8	600.76	8	240.48	8		8		8	
1/4	2,396.47	1/4	2,035.23	1/4	1,673.98	1/4	1,313.01	1/4	953.54	1/4	593.25	1/4	232.97	1/4		1/4		1/4	
1/2	2,388.95	1/2	2,027.70	1/2	1,666.45	1/2	1,305.53	1/2	946.04	1/2	585.75	1/2	225.46	1/2		1/2		1/2	
3/4	2,381.42	3/4	2,020.18	3/4	1,658.93	3/4	1,298.04	3/4	938.53	3/4	578.24	3/4	217.96	3/4		3/4		3/4	
9	2,373.90	9	2,012.65	9	1,651.40	9	1,290.56	9	931.03	9	570.74	9	210.45	9		9		9	
1/4	2,366.37	1/4	2,005.12	1/4	1,643.87	1/4	1,283.07	1/4	923.52	1/4	563.23	1/4	202.94	1/4		1/4		1/4	
1/2	2,358.85	1/2	1,997.60	1/2	1,636.35	1/2	1,275.58	1/2	916.01	1/2	555.73	1/2	195.44	1/2		1/2		1/2	
3/4	2,351.32	3/4	1,990.07	3/4	1,628.82	3/4	1,268.10	3/4	908.51	3/4	548.22	3/4	187.93	3/4		3/4		3/4	
10	2,343.80	10	1,982.55	10	1,621.30	10	1,260.61	10	901.00	10	540.72	10	180.43	10		10		10	
1/4	2,336.27	1/4	1,975.02	1/4	1,613.77	1/4	1,253.12	1/4	893.49	1/4	533.21	1/4	172.92	1/4		1/4		1/4	
1/2	2,328.74	1/2	1,967.49	1/2	1,606.25	1/2	1,245.64	1/2	885.99	1/2	525.70	1/2	165.41	1/2		1/2		1/2	
3/4	2,321.22	3/4	1,959.97	3/4	1,598.72	3/4	1,238.15	3/4	878.48	3/4	518.20	3/4	157.91	3/4		3/4		3/4	
11	2,313.69	11	1,952.44	11	1,591.20	11	1,230.67	11	870.98	11	510.69	11	150.40	11		11		11	
1/4	2,306.16	1/4	1,944.91	1/4	1,583.67	1/4	1,223.18	1/4	863.47	1/4	503.18	1/4	142.89	1/4		1/4		1/4	
1/2	2,298.64	1/2	1,937.39	1/2	1,576.14	1/2	1,215.69	1/2	855.97	1/2	495.68	1/2	135.39	1/2		1/2		1/2	
3/4	2,291.11	3/4	1,929.86	3/4	1,568.62	3/4	1,208.21	3/4	848.46	3/4	488.17	3/4	127.88	3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 09/09/2010 INSP.  
RECALCULATED: 11/12/2020 PMA  
NAME CHANGE: 11/12/2020 PMA

CANCELS AND SUPERCEDES  
ALL PRIOR TO 11/2020

PRECISION MEASUREMENT  
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