



BARGE "HBC 309"

ULLAGE TRIM TABLE

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

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

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

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

LENGTH BETWEEN DRAFT MARKS: 253'-09"

August 8, 2013

PRECISION MEASUREMENT
 & ANALYSIS, INC.

P.O. Box 2092
 Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "HBC 309"

1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08 1/2"

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
					4,949.86		4,604.77		4,244.14		3,881.70		3,519.26		3,156.82		2,794.37		2,431.86
1/4	1/4	1/4	1/4	1/4	4,942.86	1/4	4,597.39	1/4	4,236.59	1/4	3,874.15	1/4	3,511.71	1/4	3,149.26	1/4	2,786.82	1/4	2,424.30
1/2	1/2	1/2	5,245.40	1/2	4,935.86	1/2	4,590.00	1/2	4,229.04	1/2	3,866.60	1/2	3,504.16	1/2	3,141.71	1/2	2,779.27	1/2	2,416.75
3/4	3/4	3/4	5,241.07	3/4	4,928.83	3/4	4,582.58	3/4	4,221.49	3/4	3,859.05	3/4	3,496.61	3/4	3,134.16	3/4	2,771.72	3/4	2,409.19
1	1	1	5,236.74	1	4,921.80	1	4,575.17	1	4,213.94	1	3,851.50	1	3,489.05	1	3,126.61	1	2,764.17	1	2,401.64
1/4	1/4	1/4	5,232.40	1/4	4,914.77	1/4	4,567.75	1/4	4,206.39	1/4	3,843.95	1/4	3,481.50	1/4	3,119.06	1/4	2,756.62	1/4	2,394.09
1/2	1/2	1/2	5,228.07	1/2	4,907.75	1/2	4,560.34	1/2	4,198.84	1/2	3,836.40	1/2	3,473.95	1/2	3,111.51	1/2	2,749.07	1/2	2,386.53
3/4	3/4	3/4	5,222.51	3/4	4,900.69	3/4	4,552.89	3/4	4,191.29	3/4	3,828.85	3/4	3,466.40	3/4	3,103.96	3/4	2,741.52	3/4	2,378.98
2	2	2	5,216.94	2	4,893.63	2	4,545.44	2	4,183.74	2	3,821.29	2	3,458.85	2	3,096.41	2	2,733.96	2	2,371.43
1/4	1/4	1/4	5,211.38	1/4	4,886.57	1/4	4,538.00	1/4	4,176.19	1/4	3,813.74	1/4	3,451.30	1/4	3,088.86	1/4	2,726.41	1/4	2,363.87
1/2	1/2	1/2	5,205.82	1/2	4,879.51	1/2	4,530.55	1/2	4,168.64	1/2	3,806.19	1/2	3,443.75	1/2	3,081.31	1/2	2,718.86	1/2	2,356.32
3/4	3/4	3/4	5,199.79	3/4	4,872.42	3/4	4,523.07	3/4	4,161.08	3/4	3,798.64	3/4	3,436.20	3/4	3,073.76	3/4	2,711.31	3/4	2,348.77
3	3	3	5,193.76	3	4,865.33	3	4,515.60	3	4,153.53	3	3,791.09	3	3,428.65	3	3,066.20	3	2,703.76	3	2,341.21
1/4	1/4	1/4	5,187.73	1/4	4,858.24	1/4	4,508.12	1/4	4,145.98	1/4	3,783.54	1/4	3,421.10	1/4	3,058.65	1/4	2,696.21	1/4	2,333.66
1/2	1/2	1/2	5,181.70	1/2	4,851.16	1/2	4,500.64	1/2	4,138.43	1/2	3,775.99	1/2	3,413.55	1/2	3,051.10	1/2	2,688.66	1/2	2,326.10
3/4	3/4	3/4	5,175.04	3/4	4,844.04	3/4	4,493.14	3/4	4,130.88	3/4	3,768.44	3/4	3,405.99	3/4	3,043.55	3/4	2,681.11	3/4	2,318.55
4	4	4	5,168.39	4	4,836.92	4	4,485.63	4	4,123.33	4	3,760.89	4	3,398.44	4	3,036.00	4	2,673.56	4	2,311.00
1/4	1/4	1/4	5,161.73	1/4	4,829.80	1/4	4,478.13	1/4	4,115.78	1/4	3,753.34	1/4	3,390.89	1/4	3,028.45	1/4	2,666.01	1/4	2,303.44
1/2	1/2	1/2	5,155.08	1/2	4,822.68	1/2	4,470.62	1/2	4,108.23	1/2	3,745.79	1/2	3,383.34	1/2	3,020.90	1/2	2,658.46	1/2	2,295.89
3/4	3/4	3/4	5,148.37	3/4	4,815.53	3/4	4,463.08	3/4	4,100.68	3/4	3,738.23	3/4	3,375.79	3/4	3,013.35	3/4	2,650.90	3/4	2,288.34
5	5	5	5,141.66	5	4,808.38	5	4,455.54	5	4,093.13	5	3,730.68	5	3,368.24	5	3,005.80	5	2,643.35	5	2,280.78
1/4	1/4	1/4	5,134.95	1/4	4,801.24	1/4	4,448.01	1/4	4,085.58	1/4	3,723.13	1/4	3,360.69	1/4	2,998.25	1/4	2,635.80	1/4	2,273.23
1/2	1/2	1/2	5,128.24	1/2	4,794.09	1/2	4,440.47	1/2	4,078.02	1/2	3,715.58	1/2	3,353.14	1/2	2,990.70	1/2	2,628.25	1/2	2,265.67
3/4	3/4	3/4	5,121.49	3/4	4,786.91	3/4	4,432.92	3/4	4,070.47	3/4	3,708.03	3/4	3,345.59	3/4	2,983.14	3/4	2,620.70	3/4	2,258.12
6	6	6	5,114.74	6	4,779.73	6	4,425.37	6	4,062.92	6	3,700.48	6	3,338.04	6	2,975.59	6	2,613.14	6	2,250.57
1/4	1/4	1/4	5,107.99	1/4	4,772.55	1/4	4,417.82	1/4	4,055.37	1/4	3,692.93	1/4	3,330.49	1/4	2,968.04	1/4	2,605.59	1/4	2,243.01
1/2	1/2	1/2	5,101.24	1/2	4,765.37	1/2	4,410.26	1/2	4,047.82	1/2	3,685.38	1/2	3,322.93	1/2	2,960.49	1/2	2,598.04	1/2	2,235.46
3/4	3/4	3/4	5,094.46	3/4	4,758.16	3/4	4,402.71	3/4	4,040.27	3/4	3,677.83	3/4	3,315.38	3/4	2,952.94	3/4	2,590.48	3/4	2,227.91
7	7	7	5,087.68	7	4,750.96	7	4,395.16	7	4,032.72	7	3,670.28	7	3,307.83	7	2,945.39	7	2,582.93	7	2,220.35
1/4	1/4	1/4	5,080.90	1/4	4,743.75	1/4	4,387.61	1/4	4,025.17	1/4	3,662.73	1/4	3,300.28	1/4	2,937.84	1/4	2,575.38	1/4	2,212.80
1/2	1/2	1/2	5,074.12	1/2	4,736.54	1/2	4,380.06	1/2	4,017.62	1/2	3,655.17	1/2	3,292.73	1/2	2,930.29	1/2	2,567.82	1/2	2,205.24
3/4	3/4	3/4	5,067.31	3/4	4,729.27	3/4	4,372.51	3/4	4,010.07	3/4	3,647.62	3/4	3,285.18	3/4	2,922.74	3/4	2,560.27	3/4	2,197.69
8	8	8	5,060.49	8	4,722.01	8	4,364.96	8	4,002.52	8	3,640.07	8	3,277.63	8	2,915.19	8	2,552.72	8	2,190.14
1/4	1/4	1/4	5,053.68	1/4	4,714.74	1/4	4,357.41	1/4	3,994.97	1/4	3,632.52	1/4	3,270.08	1/4	2,907.64	1/4	2,545.16	1/4	2,182.58
1/2	1/2	1/2	5,046.87	1/2	4,707.47	1/2	4,349.86	1/2	3,987.41	1/2	3,624.97	1/2	3,262.53	1/2	2,900.08	1/2	2,537.61	1/2	2,175.03
3/4	3/4	3/4	5,040.03	3/4	4,700.17	3/4	4,342.31	3/4	3,979.86	3/4	3,617.42	3/4	3,254.98	3/4	2,892.53	3/4	2,530.05	3/4	2,167.48
9	9	9	5,033.19	9	4,692.88	9	4,334.76	9	3,972.31	9	3,609.87	9	3,247.43	9	2,884.98	9	2,522.50	9	2,159.92
1/4	1/4	1/4	5,026.35	1/4	4,685.58	1/4	4,327.20	1/4	3,964.76	1/4	3,602.32	1/4	3,239.88	1/4	2,877.43	1/4	2,514.95	1/4	2,152.37
1/2	1/2	1/2	5,019.51	1/2	4,678.28	1/2	4,319.65	1/2	3,957.21	1/2	3,594.77	1/2	3,232.32	1/2	2,869.88	1/2	2,507.39	1/2	2,144.82
3/4	3/4	3/4	5,012.57	3/4	4,670.96	3/4	4,312.10	3/4	3,949.66	3/4	3,587.22	3/4	3,224.77	3/4	2,862.33	3/4	2,499.84	3/4	2,137.26
10	10	10	5,005.63	10	4,663.63	10	4,304.55	10	3,942.11	10	3,579.67	10	3,217.22	10	2,854.78	10	2,492.29	10	2,129.71
1/4	1/4	1/4	4,998.69	1/4	4,656.30	1/4	4,297.00	1/4	3,934.56	1/4	3,572.11	1/4	3,209.67	1/4	2,847.23	1/4	2,484.73	1/4	2,122.15
1/2	1/2	1/2	4,991.75	1/2	4,648.98	1/2	4,289.45	1/2	3,927.01	1/2	3,564.56	1/2	3,202.12	1/2	2,839.68	1/2	2,477.18	1/2	2,114.60
3/4	3/4	3/4	4,984.77	3/4	4,641.62	3/4	4,281.90	3/4	3,919.46	3/4	3,557.01	3/4	3,194.57	3/4	2,832.13	3/4	2,469.62	3/4	2,107.05
11	11	11	4,977.80	11	4,634.26	11	4,274.35	11	3,911.91	11	3,549.46	11	3,187.02	11	2,824.58	11	2,462.07	11	2,099.49
1/4	1/4	1/4	4,970.83	1/4	4,626.90	1/4	4,266.80	1/4	3,904.35	1/4	3,541.91	1/4	3,179.47	1/4	2,817.02	1/4	2,454.52	1/4	2,091.94
1/2	1/2	1/2	4,963.86	1/2	4,619.55	1/2	4,259.25	1/2	3,896.80	1/2	3,534.36	1/2	3,171.92	1/2	2,809.47	1/2	2,446.96	1/2	2,084.39
3/4	3/4	3/4	4,956.86	3/4	4,612.16	3/4	4,251.70	3/4	3,889.25	3/4	3,526.81	3/4	3,164.37	3/4	2,801.92	3/4	2,439.41	3/4	2,076.83

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 TO TOP OF 2" HERMETIC CLOSED GAUGING VALVE.
 GAUGE POINT: (HERMETIC) LOCATED 10'-06" OFF CENTERLINE AND 42'-00" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

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BARGE "HBC 309"

1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08 1/2"

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	2,069.28	0	1,706.70	0	1,344.12	0	981.96	0	619.47	0	256.91	0		0		0		0	
1/4	2,061.72	1/4	1,699.15	1/4	1,336.57	1/4	974.42	1/4	611.92	1/4	249.36	1/4		1/4		1/4		1/4	
1/2	2,054.17	1/2	1,691.59	1/2	1,329.02	1/2	966.88	1/2	604.37	1/2	241.80	1/2		1/2		1/2		1/2	
3/4	2,046.62	3/4	1,684.04	3/4	1,321.46	3/4	959.34	3/4	596.81	3/4	234.25	3/4		3/4		3/4		3/4	
1	2,039.06	1	1,676.49	1	1,313.91	1	951.80	1	589.26	1	226.70	1		1		1		1	
1/4	2,031.51	1/4	1,668.93	1/4	1,306.35	1/4	944.26	1/4	581.71	1/4	219.14	1/4		1/4		1/4		1/4	
1/2	2,023.96	1/2	1,661.38	1/2	1,298.80	1/2	936.72	1/2	574.15	1/2	211.59	1/2		1/2		1/2		1/2	
3/4	2,016.40	3/4	1,653.82	3/4	1,291.25	3/4	929.16	3/4	566.60	3/4	204.04	3/4		3/4		3/4		3/4	
2	2,008.85	2	1,646.27	2	1,283.69	2	921.61	2	559.05	2	196.48	2		2		2		2	
1/4	2,001.30	1/4	1,638.72	1/4	1,276.14	1/4	914.06	1/4	551.49	1/4	188.93	1/4		1/4		1/4		1/4	
1/2	1,993.74	1/2	1,631.16	1/2	1,268.59	1/2	906.50	1/2	543.94	1/2	181.38	1/2		1/2		1/2		1/2	
3/4	1,986.19	3/4	1,623.61	3/4	1,261.03	3/4	898.95	3/4	536.39	3/4	173.82	3/4		3/4		3/4		3/4	
3	1,978.63	3	1,616.06	3	1,253.48	3	891.39	3	528.83	3	166.27	3		3		3		3	
1/4	1,971.08	1/4	1,608.50	1/4	1,245.93	1/4	883.84	1/4	521.28	1/4	158.72	1/4		1/4		1/4		1/4	
1/2	1,963.53	1/2	1,600.95	1/2	1,238.37	1/2	876.29	1/2	513.72	1/2	151.17	1/2		1/2		1/2		1/2	
3/4	1,955.97	3/4	1,593.40	3/4	1,230.83	3/4	868.73	3/4	506.17	3/4	143.62	3/4		3/4		3/4		3/4	
4	1,948.42	4	1,585.84	4	1,223.29	4	861.18	4	498.62	4	136.08	4		4		4		4	
1/4	1,940.87	1/4	1,578.29	1/4	1,215.75	1/4	853.63	1/4	491.06	1/4	128.54	1/4		1/4		1/4		1/4	
1/2	1,933.31	1/2	1,570.73	1/2	1,208.21	1/2	846.07	1/2	483.51	1/2	120.99	1/2		1/2		1/2		1/2	
3/4	1,925.76	3/4	1,563.18	3/4	1,200.66	3/4	838.52	3/4	475.96	3/4	113.48	3/4		3/4		3/4		3/4	
5	1,918.20	5	1,555.63	5	1,193.12	5	830.97	5	468.40	5	105.96	5		5		5		5	
1/4	1,910.65	1/4	1,548.07	1/4	1,185.58	1/4	823.41	1/4	460.85	1/4	98.44	1/4		1/4		1/4		1/4	
1/2	1,903.10	1/2	1,540.52	1/2	1,178.04	1/2	815.86	1/2	453.30	1/2	90.92	1/2		1/2		1/2		1/2	
3/4	1,895.54	3/4	1,532.97	3/4	1,170.50	3/4	808.31	3/4	445.74	3/4	84.00	3/4		3/4		3/4		3/4	
6	1,887.99	6	1,525.41	6	1,162.96	6	800.75	6	438.19	6	77.08	6		6		6		6	
1/4	1,880.44	1/4	1,517.86	1/4	1,155.42	1/4	793.20	1/4	430.64	1/4	70.16	1/4		1/4		1/4		1/4	
1/2	1,872.88	1/2	1,510.30	1/2	1,147.87	1/2	785.65	1/2	423.08	1/2	63.24	1/2		1/2		1/2		1/2	
3/4	1,865.33	3/4	1,502.75	3/4	1,140.33	3/4	778.09	3/4	415.53	3/4	57.57	3/4		3/4		3/4		3/4	
7	1,857.77	7	1,495.20	7	1,132.79	7	770.54	7	407.98	7	51.91	7		7		7		7	
1/4	1,850.22	1/4	1,487.64	1/4	1,125.25	1/4	762.99	1/4	400.42	1/4	46.24	1/4		1/4		1/4		1/4	
1/2	1,842.67	1/2	1,480.09	1/2	1,117.71	1/2	755.43	1/2	392.87	1/2	40.58	1/2		1/2		1/2		1/2	
3/4	1,835.11	3/4	1,472.54	3/4	1,110.17	3/4	747.88	3/4	385.32	3/4	36.17	3/4		3/4		3/4		3/4	
8	1,827.56	8	1,464.98	8	1,102.63	8	740.33	8	377.76	8	31.77	8		8		8		8	
1/4	1,820.01	1/4	1,457.43	1/4	1,095.08	1/4	732.77	1/4	370.21	1/4	27.36	1/4		1/4		1/4		1/4	
1/2	1,812.45	1/2	1,449.87	1/2	1,087.54	1/2	725.22	1/2	362.66	1/2	22.96	1/2		1/2		1/2		1/2	
3/4	1,804.90	3/4	1,442.32	3/4	1,080.00	3/4	717.67	3/4	355.10	3/4		3/4		3/4		3/4		3/4	
9	1,797.35	9	1,434.77	9	1,072.46	9	710.11	9	347.55	9		9		9		9		9	
1/4	1,789.79	1/4	1,427.21	1/4	1,064.92	1/4	702.56	1/4	340.00	1/4		1/4		1/4		1/4		1/4	
1/2	1,782.24	1/2	1,419.66	1/2	1,057.38	1/2	695.01	1/2	332.44	1/2		1/2		1/2		1/2		1/2	
3/4	1,774.68	3/4	1,412.11	3/4	1,049.84	3/4	687.45	3/4	324.89	3/4		3/4		3/4		3/4		3/4	
10	1,767.13	10	1,404.55	10	1,042.29	10	679.90	10	317.34	10		10		10		10		10	
1/4	1,759.58	1/4	1,397.00	1/4	1,034.75	1/4	672.35	1/4	309.78	1/4		1/4		1/4		1/4		1/4	
1/2	1,752.02	1/2	1,389.45	1/2	1,027.21	1/2	664.79	1/2	302.23	1/2		1/2		1/2		1/2		1/2	
3/4	1,744.47	3/4	1,381.89	3/4	1,019.67	3/4	657.24	3/4	294.68	3/4		3/4		3/4		3/4		3/4	
11	1,736.92	11	1,374.34	11	1,012.13	11	649.69	11	287.12	11		11		11		11		11	
1/4	1,729.36	1/4	1,366.78	1/4	1,004.59	1/4	642.13	1/4	279.57	1/4		1/4		1/4		1/4		1/4	
1/2	1,721.81	1/2	1,359.23	1/2	997.05	1/2	634.58	1/2	272.02	1/2		1/2		1/2		1/2		1/2	
3/4	1,714.25	3/4	1,351.68	3/4	989.51	3/4	627.03	3/4	264.46	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 08/08/2013 CL
CALCULATED: 08/08/2013 CL
PRINTED: 08/08/2013 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 08/2013

PRECISION MEASUREMENT
& ANALYSIS, INC.
P.O. Box 2092
Pearland, Texas 77588
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BARGE "HBC 309"

1 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08 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	4,954.37	0	4,609.71	0	4,249.29	0	3,886.89	0	3,524.49	0	3,162.09	0	2,799.69	0	2,437.22
1/4		1/4		1/4	4,947.37	1/4	4,602.32	1/4	4,241.74	1/4	3,879.34	1/4	3,516.94	1/4	3,154.54	1/4	2,792.14	1/4	2,429.67
1/2		1/2		1/2	4,940.37	1/2	4,594.94	1/2	4,234.19	1/2	3,871.79	1/2	3,509.39	1/2	3,146.99	1/2	2,784.59	1/2	2,422.12
3/4		3/4	5,242.87	3/4	4,933.37	3/4	4,587.55	3/4	4,226.64	3/4	3,864.24	3/4	3,501.84	3/4	3,139.44	3/4	2,777.04	3/4	2,414.56
1		1	5,238.54	1	4,926.34	1	4,580.14	1	4,219.09	1	3,856.69	1	3,494.29	1	3,131.89	1	2,769.49	1	2,407.01
1/4		1/4	5,234.21	1/4	4,919.31	1/4	4,572.72	1/4	4,211.54	1/4	3,849.14	1/4	3,486.74	1/4	3,124.34	1/4	2,761.94	1/4	2,399.46
1/2		1/2	5,229.87	1/2	4,912.29	1/2	4,565.31	1/2	4,203.99	1/2	3,841.59	1/2	3,479.19	1/2	3,116.79	1/2	2,754.39	1/2	2,391.90
3/4		3/4	5,225.54	3/4	4,905.26	3/4	4,557.89	3/4	4,196.44	3/4	3,834.04	3/4	3,471.64	3/4	3,109.24	3/4	2,746.84	3/4	2,384.35
2		2	5,219.98	2	4,898.20	2	4,550.44	2	4,188.89	2	3,826.49	2	3,464.09	2	3,101.69	2	2,739.29	2	2,376.80
1/4		1/4	5,214.42	1/4	4,891.14	1/4	4,543.00	1/4	4,181.34	1/4	3,818.94	1/4	3,456.54	1/4	3,094.14	1/4	2,731.74	1/4	2,369.25
1/2		1/2	5,208.85	1/2	4,884.08	1/2	4,535.55	1/2	4,173.79	1/2	3,811.39	1/2	3,448.99	1/2	3,086.59	1/2	2,724.19	1/2	2,361.69
3/4		3/4	5,203.29	3/4	4,877.03	3/4	4,528.11	3/4	4,166.24	3/4	3,803.84	3/4	3,441.44	3/4	3,079.04	3/4	2,716.64	3/4	2,354.14
3		3	5,197.26	3	4,869.94	3	4,520.63	3	4,158.69	3	3,796.29	3	3,433.89	3	3,071.49	3	2,709.09	3	2,346.59
1/4		1/4	5,191.23	1/4	4,862.85	1/4	4,513.16	1/4	4,151.14	1/4	3,788.74	1/4	3,426.34	1/4	3,063.94	1/4	2,701.54	1/4	2,339.04
1/2		1/2	5,185.20	1/2	4,855.76	1/2	4,505.68	1/2	4,143.59	1/2	3,781.19	1/2	3,418.79	1/2	3,056.39	1/2	2,693.99	1/2	2,331.48
3/4		3/4	5,179.18	3/4	4,848.67	3/4	4,498.21	3/4	4,136.04	3/4	3,773.64	3/4	3,411.24	3/4	3,048.84	3/4	2,686.44	3/4	2,323.93
4		4	5,172.52	4	4,841.56	4	4,490.70	4	4,128.49	4	3,766.09	4	3,403.69	4	3,041.29	4	2,678.89	4	2,316.38
1/4		1/4	5,165.87	1/4	4,834.44	1/4	4,483.20	1/4	4,120.94	1/4	3,758.54	1/4	3,396.14	1/4	3,033.74	1/4	2,671.34	1/4	2,308.82
1/2		1/2	5,159.21	1/2	4,827.32	1/2	4,475.69	1/2	4,113.39	1/2	3,750.99	1/2	3,388.59	1/2	3,026.19	1/2	2,663.79	1/2	2,301.27
3/4		3/4	5,152.56	3/4	4,820.20	3/4	4,468.19	3/4	4,105.84	3/4	3,743.44	3/4	3,381.04	3/4	3,018.64	3/4	2,656.24	3/4	2,293.72
5		5	5,145.85	5	4,813.06	5	4,460.65	5	4,098.29	5	3,735.89	5	3,373.49	5	3,011.09	5	2,648.69	5	2,286.17
1/4		1/4	5,139.14	1/4	4,805.91	1/4	4,453.11	1/4	4,090.74	1/4	3,728.34	1/4	3,365.94	1/4	3,003.54	1/4	2,641.14	1/4	2,278.61
1/2		1/2	5,132.43	1/2	4,798.76	1/2	4,445.58	1/2	4,083.19	1/2	3,720.79	1/2	3,358.39	1/2	2,995.99	1/2	2,633.59	1/2	2,271.06
3/4		3/4	5,125.72	3/4	4,791.61	3/4	4,438.04	3/4	4,075.64	3/4	3,713.24	3/4	3,350.84	3/4	2,988.44	3/4	2,626.04	3/4	2,263.51
6		6	5,118.97	6	4,784.44	6	4,430.49	6	4,068.09	6	3,705.69	6	3,343.29	6	2,980.89	6	2,618.49	6	2,255.95
1/4		1/4	5,112.22	1/4	4,777.26	1/4	4,422.94	1/4	4,060.54	1/4	3,698.14	1/4	3,335.74	1/4	2,973.34	1/4	2,610.94	1/4	2,248.40
1/2		1/2	5,105.47	1/2	4,770.08	1/2	4,415.39	1/2	4,052.99	1/2	3,690.59	1/2	3,328.19	1/2	2,965.79	1/2	2,603.38	1/2	2,240.85
3/4		3/4	5,098.73	3/4	4,762.90	3/4	4,407.84	3/4	4,045.44	3/4	3,683.04	3/4	3,320.64	3/4	2,958.24	3/4	2,595.83	3/4	2,233.30
7		7	5,091.95	7	4,755.70	7	4,400.29	7	4,037.89	7	3,675.49	7	3,313.09	7	2,950.69	7	2,588.28	7	2,225.74
1/4		1/4	5,085.17	1/4	4,748.49	1/4	4,392.74	1/4	4,030.34	1/4	3,667.94	1/4	3,305.54	1/4	2,943.14	1/4	2,580.72	1/4	2,218.19
1/2		1/2	5,078.39	1/2	4,741.28	1/2	4,385.19	1/2	4,022.79	1/2	3,660.39	1/2	3,297.99	1/2	2,935.59	1/2	2,573.17	1/2	2,210.64
3/4		3/4	5,071.61	3/4	4,734.07	3/4	4,377.64	3/4	4,015.24	3/4	3,652.84	3/4	3,290.44	3/4	2,928.04	3/4	2,565.62	3/4	2,203.08
8		8	5,064.80	8	4,726.81	8	4,370.09	8	4,007.69	8	3,645.29	8	3,282.89	8	2,920.49	8	2,558.07	8	2,195.53
1/4		1/4	5,057.99	1/4	4,719.54	1/4	4,362.54	1/4	4,000.14	1/4	3,637.74	1/4	3,275.34	1/4	2,912.94	1/4	2,550.51	1/4	2,187.98
1/2		1/2	5,051.18	1/2	4,712.27	1/2	4,354.99	1/2	3,992.59	1/2	3,630.19	1/2	3,267.79	1/2	2,905.39	1/2	2,542.96	1/2	2,180.43
3/4		3/4	5,044.37	3/4	4,705.01	3/4	4,347.44	3/4	3,985.04	3/4	3,622.64	3/4	3,260.24	3/4	2,897.84	3/4	2,535.41	3/4	2,172.87
9		9	5,037.53	9	4,697.71	9	4,339.89	9	3,977.49	9	3,615.09	9	3,252.69	9	2,890.29	9	2,527.86	9	2,165.32
1/4		1/4	5,030.69	1/4	4,690.42	1/4	4,332.34	1/4	3,969.94	1/4	3,607.54	1/4	3,245.14	1/4	2,882.74	1/4	2,520.30	1/4	2,157.77
1/2		1/2	5,023.85	1/2	4,683.12	1/2	4,324.79	1/2	3,962.39	1/2	3,599.99	1/2	3,237.59	1/2	2,875.19	1/2	2,512.75	1/2	2,150.22
3/4		3/4	5,017.01	3/4	4,675.82	3/4	4,317.24	3/4	3,954.84	3/4	3,592.44	3/4	3,230.04	3/4	2,867.64	3/4	2,505.20	3/4	2,142.66
10		10	5,010.07	10	4,668.50	10	4,309.69	10	3,947.29	10	3,584.89	10	3,222.49	10	2,860.09	10	2,497.64	10	2,135.11
1/4		1/4	5,003.13	1/4	4,661.17	1/4	4,302.14	1/4	3,939.74	1/4	3,577.34	1/4	3,214.94	1/4	2,852.54	1/4	2,490.09	1/4	2,127.56
1/2		1/2	4,996.19	1/2	4,653.85	1/2	4,294.59	1/2	3,932.19	1/2	3,569.79	1/2	3,207.39	1/2	2,844.99	1/2	2,482.54	1/2	2,120.00
3/4		3/4	4,989.25	3/4	4,646.52	3/4	4,287.04	3/4	3,924.64	3/4	3,562.24	3/4	3,199.84	3/4	2,837.44	3/4	2,474.99	3/4	2,112.45
11		11	4,982.28	11	4,639.16	11	4,279.49	11	3,917.09	11	3,554.69	11	3,192.29	11	2,829.89	11	2,467.43	11	2,104.90
1/4		1/4	4,975.31	1/4	4,631.81	1/4	4,271.94	1/4	3,909.54	1/4	3,547.14	1/4	3,184.74	1/4	2,822.34	1/4	2,459.88	1/4	2,097.35
1/2		1/2	4,968.33	1/2	4,624.45	1/2	4,264.39	1/2	3,901.99	1/2	3,539.59	1/2	3,177.19	1/2	2,814.79	1/2	2,452.33	1/2	2,089.79
3/4		3/4	4,961.36	3/4	4,617.10	3/4	4,256.84	3/4	3,894.44	3/4	3,532.04	3/4	3,169.64	3/4	2,807.24	3/4	2,444.77	3/4	2,082.24

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 TO TOP OF 2" HERMETIC CLOSED GAUGING VALVE.
 GAUGE POINT: (HERMETIC) LOCATED 10'-06" OFF CENTERLINE AND 42'-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 "HBC 309"

1 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08 3/4"

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	2,074.69	0	1,712.15	0	1,349.62	0	988.95	0	626.95	0	264.43	0		0		0		0	
1/4	2,067.13	1/4	1,704.60	1/4	1,342.07	1/4	981.45	1/4	619.40	1/4	256.88	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,059.58	1/2	1,697.05	1/2	1,334.51	1/2	973.95	1/2	611.85	1/2	249.33	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,052.03	3/4	1,689.49	3/4	1,326.96	3/4	966.45	3/4	604.29	3/4	241.77	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	2,044.48	1	1,681.94	1	1,319.41	1	958.95	1	598.74	1	234.22	1	1	1	1	1	1	1	1
1/4	2,036.92	1/4	1,674.39	1/4	1,311.85	1/4	951.45	1/4	589.19	1/4	226.67	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,029.37	1/2	1,666.84	1/2	1,304.30	1/2	943.95	1/2	581.64	1/2	219.12	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,021.82	3/4	1,659.28	3/4	1,296.75	3/4	936.45	3/4	574.08	3/4	211.56	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	2,014.26	2	1,651.73	2	1,289.20	2	928.93	2	566.53	2	204.01	2	2	2	2	2	2	2	2
1/4	2,006.71	1/4	1,644.18	1/4	1,281.64	1/4	921.42	1/4	558.98	1/4	196.46	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,999.16	1/2	1,636.62	1/2	1,274.09	1/2	913.91	1/2	551.43	1/2	188.91	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,991.61	3/4	1,629.07	3/4	1,266.54	3/4	906.39	3/4	543.87	3/4	181.35	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	1,984.05	3	1,621.52	3	1,259.02	3	898.84	3	536.32	3	173.80	3	3	3	3	3	3	3	3
1/4	1,976.50	1/4	1,613.97	1/4	1,251.51	1/4	891.29	1/4	528.77	1/4	166.25	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,968.95	1/2	1,606.41	1/2	1,244.00	1/2	883.74	1/2	521.22	1/2	158.70	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,961.40	3/4	1,598.86	3/4	1,236.49	3/4	876.18	3/4	513.66	3/4	151.15	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	1,953.84	4	1,591.31	4	1,228.98	4	868.63	4	506.11	4	143.61	4	4	4	4	4	4	4	4
1/4	1,946.29	1/4	1,583.76	1/4	1,221.48	1/4	861.08	1/4	498.56	1/4	136.06	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,938.74	1/2	1,576.20	1/2	1,213.98	1/2	853.53	1/2	491.01	1/2	128.52	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,931.18	3/4	1,568.65	3/4	1,206.48	3/4	845.97	3/4	483.45	3/4	120.98	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	1,923.63	5	1,561.10	5	1,198.98	5	838.42	5	475.90	5	113.46	5	5	5	5	5	5	5	5
1/4	1,916.08	1/4	1,553.54	1/4	1,191.48	1/4	830.87	1/4	468.35	1/4	105.95	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,908.53	1/2	1,545.99	1/2	1,183.98	1/2	823.32	1/2	460.80	1/2	98.43	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,900.97	3/4	1,538.44	3/4	1,176.48	3/4	815.76	3/4	453.24	3/4	90.91	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	1,893.42	6	1,530.89	6	1,168.98	6	808.21	6	445.69	6	83.99	6	6	6	6	6	6	6	6
1/4	1,885.87	1/4	1,523.33	1/4	1,161.48	1/4	800.66	1/4	438.14	1/4	77.07	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,878.31	1/2	1,515.78	1/2	1,153.97	1/2	793.11	1/2	430.59	1/2	70.15	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,870.76	3/4	1,508.23	3/4	1,146.47	3/4	785.55	3/4	423.03	3/4	63.23	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	1,863.21	7	1,500.67	7	1,138.97	7	778.00	7	415.48	7	57.57	7	7	7	7	7	7	7	7
1/4	1,855.66	1/4	1,493.12	1/4	1,131.47	1/4	770.45	1/4	407.93	1/4	51.90	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,848.10	1/2	1,485.57	1/2	1,123.97	1/2	762.90	1/2	400.38	1/2	46.24	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,840.55	3/4	1,478.02	3/4	1,116.47	3/4	755.34	3/4	392.82	3/4	40.57	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	1,833.00	8	1,470.46	8	1,108.97	8	747.79	8	385.27	8	36.17	8	8	8	8	8	8	8	8
1/4	1,825.44	1/4	1,462.91	1/4	1,101.47	1/4	740.24	1/4	377.72	1/4	31.77	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,817.89	1/2	1,455.36	1/2	1,093.97	1/2	732.69	1/2	370.17	1/2	27.36	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,810.34	3/4	1,447.80	3/4	1,086.47	3/4	725.13	3/4	362.61	3/4	22.96	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	1,802.79	9	1,440.25	9	1,078.96	9	717.58	9	355.06	9		9	9	9	9	9	9	9	9
1/4	1,795.23	1/4	1,432.70	1/4	1,071.46	1/4	710.03	1/4	347.51	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,787.68	1/2	1,425.15	1/2	1,063.96	1/2	702.48	1/2	339.96	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,780.13	3/4	1,417.59	3/4	1,056.46	3/4	694.92	3/4	332.40	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	1,772.58	10	1,410.04	10	1,048.96	10	687.37	10	324.85	10		10	10	10	10	10	10	10	10
1/4	1,765.02	1/4	1,402.49	1/4	1,041.46	1/4	679.82	1/4	317.30	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,757.47	1/2	1,394.94	1/2	1,033.96	1/2	672.27	1/2	309.75	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,749.92	3/4	1,387.38	3/4	1,026.46	3/4	664.71	3/4	302.19	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	1,742.36	11	1,379.83	11	1,018.96	11	657.16	11	294.64	11		11	11	11	11	11	11	11	11
1/4	1,734.81	1/4	1,372.28	1/4	1,011.46	1/4	649.61	1/4	287.09	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,727.26	1/2	1,364.72	1/2	1,003.95	1/2	642.06	1/2	279.54	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,719.71	3/4	1,357.17	3/4	996.45	3/4	634.50	3/4	271.98	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 08/08/2013 CL
CALCULATED: 08/08/2013 CL
PRINTED: 08/08/2013 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 08/2013

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



BARGE "HBC 309"

2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08"

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	5,228.45	0	4,919.89	0	4,575.14	0	4,215.36	0	3,854.08	0	3,492.81	0	3,131.54	0	2,770.27	0	2,408.92
1/4		1/4	5,224.13	1/4	4,912.88	1/4	4,567.75	1/4	4,207.83	1/4	3,846.56	1/4	3,485.29	1/4	3,124.01	1/4	2,762.74	1/4	2,401.39
1/2		1/2	5,219.81	1/2	4,905.88	1/2	4,560.35	1/2	4,200.30	1/2	3,839.03	1/2	3,477.76	1/2	3,116.49	1/2	2,755.21	1/2	2,393.86
3/4		3/4	5,215.49	3/4	4,898.87	3/4	4,552.96	3/4	4,192.78	3/4	3,831.50	3/4	3,470.23	3/4	3,108.96	3/4	2,747.69	3/4	2,386.33
1		1	5,211.17	1	4,891.87	1	4,545.57	1	4,185.25	1	3,823.98	1	3,462.71	1	3,101.43	1	2,740.16	1	2,378.80
1/4		1/4	5,205.62	1/4	4,884.83	1/4	4,538.15	1/4	4,177.72	1/4	3,816.45	1/4	3,455.18	1/4	3,093.91	1/4	2,732.64	1/4	2,371.27
1/2		1/2	5,200.08	1/2	4,877.79	1/2	4,530.72	1/2	4,170.20	1/2	3,808.92	1/2	3,447.65	1/2	3,086.38	1/2	2,725.11	1/2	2,363.75
3/4		3/4	5,194.53	3/4	4,870.76	3/4	4,523.30	3/4	4,162.67	3/4	3,801.40	3/4	3,440.13	3/4	3,078.85	3/4	2,717.58	3/4	2,356.22
2		2	5,188.99	2	4,863.72	2	4,515.88	2	4,155.14	2	3,793.87	2	3,432.60	2	3,071.33	2	2,710.06	2	2,348.69
1/4		1/4	5,182.98	1/4	4,856.65	1/4	4,508.43	1/4	4,147.62	1/4	3,786.35	1/4	3,425.07	1/4	3,063.80	1/4	2,702.53	1/4	2,341.16
1/2		1/2	5,176.97	1/2	4,849.59	1/2	4,500.97	1/2	4,140.09	1/2	3,778.82	1/2	3,417.55	1/2	3,056.27	1/2	2,695.00	1/2	2,333.63
3/4		3/4	5,170.96	3/4	4,842.52	3/4	4,493.52	3/4	4,132.56	3/4	3,771.29	3/4	3,410.02	3/4	3,048.75	3/4	2,687.48	3/4	2,326.10
3		3	5,164.95	3	4,835.46	3	4,486.07	3	4,125.04	3	3,763.77	3	3,402.49	3	3,041.22	3	2,679.95	3	2,318.57
1/4		1/4	5,158.31	1/4	4,828.36	1/4	4,478.59	1/4	4,117.51	1/4	3,756.24	1/4	3,394.97	1/4	3,033.70	1/4	2,672.42	1/4	2,311.04
1/2		1/2	5,151.68	1/2	4,821.26	1/2	4,471.11	1/2	4,109.98	1/2	3,748.71	1/2	3,387.44	1/2	3,026.17	1/2	2,664.90	1/2	2,303.51
3/4		3/4	5,145.04	3/4	4,814.17	3/4	4,463.62	3/4	4,102.46	3/4	3,741.19	3/4	3,379.91	3/4	3,018.64	3/4	2,657.37	3/4	2,295.98
4		4	5,138.41	4	4,807.07	4	4,456.14	4	4,094.93	4	3,733.66	4	3,372.39	4	3,011.12	4	2,649.84	4	2,288.45
1/4		1/4	5,131.72	1/4	4,799.95	1/4	4,448.63	1/4	4,087.41	1/4	3,726.13	1/4	3,364.86	1/4	3,003.59	1/4	2,642.32	1/4	2,280.92
1/2		1/2	5,125.03	1/2	4,792.82	1/2	4,441.12	1/2	4,079.88	1/2	3,718.61	1/2	3,357.33	1/2	2,996.06	1/2	2,634.79	1/2	2,273.39
3/4		3/4	5,118.34	3/4	4,785.69	3/4	4,433.61	3/4	4,072.35	3/4	3,711.08	3/4	3,349.81	3/4	2,988.54	3/4	2,627.26	3/4	2,265.87
5		5	5,111.65	5	4,778.57	5	4,426.10	5	4,064.83	5	3,703.55	5	3,342.28	5	2,981.01	5	2,619.74	5	2,258.34
1/4		1/4	5,104.93	1/4	4,771.41	1/4	4,418.57	1/4	4,057.30	1/4	3,696.03	1/4	3,334.76	1/4	2,973.48	1/4	2,612.21	1/4	2,250.81
1/2		1/2	5,098.20	1/2	4,764.26	1/2	4,411.04	1/2	4,049.77	1/2	3,688.50	1/2	3,327.23	1/2	2,965.96	1/2	2,604.68	1/2	2,243.28
3/4		3/4	5,091.47	3/4	4,757.10	3/4	4,403.52	3/4	4,042.25	3/4	3,680.97	3/4	3,319.70	3/4	2,958.43	3/4	2,597.15	3/4	2,235.75
6		6	5,084.74	6	4,749.95	6	4,395.99	6	4,034.72	6	3,673.45	6	3,312.18	6	2,950.90	6	2,589.62	6	2,228.22
1/4		1/4	5,077.98	1/4	4,742.76	1/4	4,388.47	1/4	4,027.19	1/4	3,665.92	1/4	3,304.65	1/4	2,943.38	1/4	2,582.09	1/4	2,220.69
1/2		1/2	5,071.22	1/2	4,735.58	1/2	4,380.94	1/2	4,019.67	1/2	3,658.39	1/2	3,297.12	1/2	2,935.85	1/2	2,574.56	1/2	2,213.16
3/4		3/4	5,064.46	3/4	4,728.39	3/4	4,373.41	3/4	4,012.14	3/4	3,650.87	3/4	3,289.60	3/4	2,928.32	3/4	2,567.03	3/4	2,205.63
7		7	5,057.71	7	4,721.21	7	4,365.89	7	4,004.61	7	3,643.34	7	3,282.07	7	2,920.80	7	2,559.50	7	2,198.10
1/4		1/4	5,050.92	1/4	4,713.96	1/4	4,358.36	1/4	3,997.09	1/4	3,635.82	1/4	3,274.54	1/4	2,913.27	1/4	2,551.98	1/4	2,190.57
1/2		1/2	5,044.13	1/2	4,706.72	1/2	4,350.83	1/2	3,989.56	1/2	3,628.29	1/2	3,267.02	1/2	2,905.74	1/2	2,544.45	1/2	2,183.04
3/4		3/4	5,037.34	3/4	4,699.48	3/4	4,343.31	3/4	3,982.03	3/4	3,620.76	3/4	3,259.49	3/4	2,898.22	3/4	2,536.92	3/4	2,175.52
8		8	5,030.55	8	4,692.23	8	4,335.78	8	3,974.51	8	3,613.24	8	3,251.96	8	2,890.69	8	2,529.39	8	2,167.99
1/4		1/4	5,023.73	1/4	4,684.96	1/4	4,328.25	1/4	3,966.98	1/4	3,605.71	1/4	3,244.44	1/4	2,883.17	1/4	2,521.86	1/4	2,160.46
1/2		1/2	5,016.91	1/2	4,677.68	1/2	4,320.73	1/2	3,959.45	1/2	3,598.18	1/2	3,236.91	1/2	2,875.64	1/2	2,514.33	1/2	2,152.93
3/4		3/4	5,010.10	3/4	4,670.41	3/4	4,313.20	3/4	3,951.93	3/4	3,590.66	3/4	3,229.38	3/4	2,868.11	3/4	2,506.80	3/4	2,145.40
9		9	5,003.28	9	4,663.14	9	4,305.67	9	3,944.40	9	3,583.13	9	3,221.86	9	2,860.59	9	2,499.27	9	2,137.87
1/4		1/4	4,996.36	1/4	4,655.83	1/4	4,298.15	1/4	3,936.88	1/4	3,575.60	1/4	3,214.33	1/4	2,853.06	1/4	2,491.74	1/4	2,130.34
1/2		1/2	4,989.44	1/2	4,648.53	1/2	4,290.62	1/2	3,929.35	1/2	3,568.08	1/2	3,206.80	1/2	2,845.53	1/2	2,484.21	1/2	2,122.81
3/4		3/4	4,982.52	3/4	4,641.23	3/4	4,283.09	3/4	3,921.82	3/4	3,560.55	3/4	3,199.28	3/4	2,838.01	3/4	2,476.68	3/4	2,115.28
10		10	4,975.60	10	4,633.92	10	4,275.57	10	3,914.30	10	3,553.02	10	3,191.75	10	2,830.48	10	2,469.15	10	2,107.75
1/4		1/4	4,968.65	1/4	4,626.59	1/4	4,268.04	1/4	3,906.77	1/4	3,545.50	1/4	3,184.23	1/4	2,822.95	1/4	2,461.62	1/4	2,100.22
1/2		1/2	4,961.70	1/2	4,619.26	1/2	4,260.51	1/2	3,899.24	1/2	3,537.97	1/2	3,176.70	1/2	2,815.43	1/2	2,454.10	1/2	2,092.69
3/4		3/4	4,954.75	3/4	4,611.92	3/4	4,252.99	3/4	3,891.72	3/4	3,530.44	3/4	3,169.17	3/4	2,807.90	3/4	2,446.57	3/4	2,085.16
11		11	4,947.80	11	4,604.59	11	4,245.46	11	3,884.19	11	3,522.92	11	3,161.65	11	2,800.37	11	2,439.04	11	2,077.64
1/4		1/4	4,940.82	1/4	4,597.23	1/4	4,237.94	1/4	3,876.66	1/4	3,515.39	1/4	3,154.12	1/4	2,792.85	1/4	2,431.51	1/4	2,070.11
1/2		1/2	4,933.85	1/2	4,589.86	1/2	4,230.41	1/2	3,869.14	1/2	3,507.86	1/2	3,146.59	1/2	2,785.32	1/2	2,423.98	1/2	2,062.58
3/4		3/4	4,926.87	3/4	4,582.50	3/4	4,222.88	3/4	3,861.61	3/4	3,500.34	3/4	3,139.07	3/4	2,777.79	3/4	2,416.45	3/4	2,055.05

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 TO TOP OF 2" HERMETIC CLOSED GAUGING VALVE.

GAUGE POINT: (HERMETIC) LOCATED 10'-06" OFF CENTERLINE AND 42'-00" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "HBC 309"

2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08"

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		IN	
0	2,047.52	0	1,686.12	0	1,324.72	0	963.76	0	602.41	0	241.02	0		0		0		0		0	
1/4	2,039.99	1/4	1,678.59	1/4	1,317.19	1/4	956.24	1/4	594.88	1/4	233.49	1/4		1/4		1/4		1/4		1/4	
1/2	2,032.46	1/2	1,671.06	1/2	1,309.66	1/2	948.72	1/2	587.36	1/2	225.96	1/2		1/2		1/2		1/2		1/2	
3/4	2,024.93	3/4	1,663.53	3/4	1,302.13	3/4	941.21	3/4	579.83	3/4	218.43	3/4		3/4		3/4		3/4		3/4	
1	2,017.40	1	1,656.00	1	1,294.60	1	933.69	1	572.30	1	210.91	1		1		1		1		1	
1/4	2,009.87	1/4	1,648.47	1/4	1,287.07	1/4	926.16	1/4	564.77	1/4	203.38	1/4		1/4		1/4		1/4		1/4	
1/2	2,002.34	1/2	1,640.94	1/2	1,279.54	1/2	918.63	1/2	557.24	1/2	195.85	1/2		1/2		1/2		1/2		1/2	
3/4	1,994.81	3/4	1,633.41	3/4	1,272.01	3/4	911.10	3/4	549.71	3/4	188.32	3/4		3/4		3/4		3/4		3/4	
2	1,987.29	2	1,625.88	2	1,264.48	2	903.57	2	542.18	2	180.79	2		2		2		2		2	
1/4	1,979.76	1/4	1,618.35	1/4	1,256.95	1/4	896.04	1/4	534.65	1/4	173.26	1/4		1/4		1/4		1/4		1/4	
1/2	1,972.23	1/2	1,610.83	1/2	1,249.42	1/2	888.52	1/2	527.12	1/2	165.73	1/2		1/2		1/2		1/2		1/2	
3/4	1,964.70	3/4	1,603.30	3/4	1,241.89	3/4	880.99	3/4	519.59	3/4	158.21	3/4		3/4		3/4		3/4		3/4	
3	1,957.17	3	1,595.77	3	1,234.37	3	873.46	3	512.07	3	150.68	3		3		3		3		3	
1/4	1,949.64	1/4	1,588.24	1/4	1,226.85	1/4	865.93	1/4	504.54	1/4	143.16	1/4		1/4		1/4		1/4		1/4	
1/2	1,942.11	1/2	1,580.71	1/2	1,219.33	1/2	858.40	1/2	497.01	1/2	135.64	1/2		1/2		1/2		1/2		1/2	
3/4	1,934.58	3/4	1,573.18	3/4	1,211.81	3/4	850.87	3/4	489.48	3/4	128.12	3/4		3/4		3/4		3/4		3/4	
4	1,927.05	4	1,565.65	4	1,204.30	4	843.34	4	481.95	4	120.60	4		4		4		4		4	
1/4	1,919.52	1/4	1,558.12	1/4	1,196.78	1/4	835.81	1/4	474.42	1/4	113.11	1/4		1/4		1/4		1/4		1/4	
1/2	1,911.99	1/2	1,550.59	1/2	1,189.26	1/2	828.28	1/2	466.89	1/2	105.62	1/2		1/2		1/2		1/2		1/2	
3/4	1,904.46	3/4	1,543.06	3/4	1,181.75	3/4	820.75	3/4	459.36	3/4	98.12	3/4		3/4		3/4		3/4		3/4	
5	1,896.93	5	1,535.53	5	1,174.23	5	813.23	5	451.83	5	90.63	5		5		5		5		5	
1/4	1,889.41	1/4	1,528.00	1/4	1,166.71	1/4	805.70	1/4	444.30	1/4	83.73	1/4		1/4		1/4		1/4		1/4	
1/2	1,881.88	1/2	1,520.47	1/2	1,159.20	1/2	798.17	1/2	436.78	1/2	76.83	1/2		1/2		1/2		1/2		1/2	
3/4	1,874.35	3/4	1,512.95	3/4	1,151.68	3/4	790.64	3/4	429.25	3/4	69.93	3/4		3/4		3/4		3/4		3/4	
6	1,866.82	6	1,505.42	6	1,144.16	6	783.11	6	421.72	6	63.03	6		6		6		6		6	
1/4	1,859.29	1/4	1,497.89	1/4	1,136.65	1/4	775.58	1/4	414.19	1/4	57.39	1/4		1/4		1/4		1/4		1/4	
1/2	1,851.76	1/2	1,490.36	1/2	1,129.13	1/2	768.05	1/2	406.66	1/2	51.74	1/2		1/2		1/2		1/2		1/2	
3/4	1,844.23	3/4	1,482.83	3/4	1,121.61	3/4	760.52	3/4	399.13	3/4	46.09	3/4		3/4		3/4		3/4		3/4	
7	1,836.70	7	1,475.30	7	1,114.09	7	752.99	7	391.60	7	40.45	7		7		7		7		7	
1/4	1,829.17	1/4	1,467.77	1/4	1,106.58	1/4	745.46	1/4	384.07	1/4	36.06	1/4		1/4		1/4		1/4		1/4	
1/2	1,821.64	1/2	1,460.24	1/2	1,099.06	1/2	737.94	1/2	376.54	1/2	31.67	1/2		1/2		1/2		1/2		1/2	
3/4	1,814.11	3/4	1,452.71	3/4	1,091.54	3/4	730.41	3/4	369.01	3/4	27.28	3/4		3/4		3/4		3/4		3/4	
8	1,806.58	8	1,445.18	8	1,084.03	8	722.88	8	361.49	8	22.89	8		8		8		8		8	
1/4	1,799.06	1/4	1,437.65	1/4	1,076.51	1/4	715.35	1/4	353.96	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	1,791.53	1/2	1,430.12	1/2	1,068.99	1/2	707.82	1/2	346.43	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	1,784.00	3/4	1,422.60	3/4	1,061.48	3/4	700.29	3/4	338.90	3/4		3/4		3/4		3/4		3/4		3/4	
9	1,776.47	9	1,415.07	9	1,053.96	9	692.76	9	331.37	9		9		9		9		9		9	
1/4	1,768.94	1/4	1,407.54	1/4	1,046.44	1/4	685.23	1/4	323.84	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	1,761.41	1/2	1,400.01	1/2	1,038.93	1/2	677.70	1/2	316.31	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	1,753.88	3/4	1,392.48	3/4	1,031.41	3/4	670.17	3/4	308.78	3/4		3/4		3/4		3/4		3/4		3/4	
10	1,746.35	10	1,384.95	10	1,023.89	10	662.65	10	301.25	10		10		10		10		10		10	
1/4	1,738.82	1/4	1,377.42	1/4	1,016.37	1/4	655.12	1/4	293.72	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	1,731.29	1/2	1,369.89	1/2	1,008.86	1/2	647.59	1/2	286.20	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	1,723.76	3/4	1,362.36	3/4	1,001.34	3/4	640.06	3/4	278.67	3/4		3/4		3/4		3/4		3/4		3/4	
11	1,716.23	11	1,354.83	11	993.82	11	632.53	11	271.14	11		11		11		11		11		11	
1/4	1,708.70	1/4	1,347.30	1/4	986.31	1/4	625.00	1/4	263.61	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	1,701.18	1/2	1,339.77	1/2	978.79	1/2	617.47	1/2	256.08	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	1,693.65	3/4	1,332.24	3/4	971.27	3/4	609.94	3/4	248.55	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 08/08/2013 CL
CALCULATED: 08/08/2013 CL
PRINTED: 08/08/2013 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 08/2013

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



BARGE "HBC 309"

2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08 1/4"

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	4,911.58	0	4,567.17	0	4,207.52	0	3,846.20	0	3,484.89	0	3,123.57	0	2,762.26	0	2,400.86
1/4		1/4	5,213.19	1/4	4,904.60	1/4	4,559.80	1/4	4,199.99	1/4	3,838.67	1/4	3,477.36	1/4	3,116.04	1/4	2,754.73	1/4	2,393.33
1/2		1/2	5,208.87	1/2	4,897.59	1/2	4,552.41	1/2	4,192.46	1/2	3,831.15	1/2	3,469.83	1/2	3,108.52	1/2	2,747.20	1/2	2,385.80
3/4		3/4	5,204.55	3/4	4,890.58	3/4	4,545.02	3/4	4,184.93	3/4	3,823.62	3/4	3,462.30	3/4	3,100.99	3/4	2,739.67	3/4	2,378.27
1		1	5,200.23	1	4,883.58	1	4,537.62	1	4,177.41	1	3,816.09	1	3,454.78	1	3,093.46	1	2,732.15	1	2,370.74
1/4		1/4	5,195.91	1/4	4,876.57	1/4	4,530.23	1/4	4,169.88	1/4	3,808.56	1/4	3,447.25	1/4	3,085.93	1/4	2,724.62	1/4	2,363.21
1/2		1/2	5,190.37	1/2	4,869.53	1/2	4,522.80	1/2	4,162.35	1/2	3,801.04	1/2	3,439.72	1/2	3,078.41	1/2	2,717.09	1/2	2,355.68
3/4		3/4	5,184.82	3/4	4,862.49	3/4	4,515.38	3/4	4,154.82	3/4	3,793.51	3/4	3,432.19	3/4	3,070.88	3/4	2,709.56	3/4	2,348.15
2		2	5,179.28	2	4,855.46	2	4,507.96	2	4,147.30	2	3,785.98	2	3,424.67	2	3,063.35	2	2,702.04	2	2,340.62
1/4		1/4	5,173.73	1/4	4,848.42	1/4	4,500.54	1/4	4,139.77	1/4	3,778.45	1/4	3,417.14	1/4	3,055.82	1/4	2,694.51	1/4	2,333.09
1/2		1/2	5,167.72	1/2	4,841.35	1/2	4,493.08	1/2	4,132.24	1/2	3,770.93	1/2	3,409.61	1/2	3,048.30	1/2	2,686.98	1/2	2,325.56
3/4		3/4	5,161.71	3/4	4,834.28	3/4	4,485.63	3/4	4,124.71	3/4	3,763.40	3/4	3,402.08	3/4	3,040.77	3/4	2,679.45	3/4	2,318.03
3		3	5,155.70	3	4,827.22	3	4,478.18	3	4,117.19	3	3,755.87	3	3,394.56	3	3,033.24	3	2,671.93	3	2,310.50
1/4		1/4	5,149.68	1/4	4,820.15	1/4	4,470.72	1/4	4,109.66	1/4	3,748.34	1/4	3,387.03	1/4	3,025.71	1/4	2,664.40	1/4	2,302.97
1/2		1/2	5,143.05	1/2	4,813.05	1/2	4,463.24	1/2	4,102.13	1/2	3,740.82	1/2	3,379.50	1/2	3,018.19	1/2	2,656.87	1/2	2,295.44
3/4		3/4	5,136.41	3/4	4,805.96	3/4	4,455.76	3/4	4,094.61	3/4	3,733.29	3/4	3,371.97	3/4	3,010.66	3/4	2,649.34	3/4	2,287.91
4		4	5,129.78	4	4,798.86	4	4,448.27	4	4,087.08	4	3,725.76	4	3,364.45	4	3,003.13	4	2,641.82	4	2,280.38
1/4		1/4	5,123.14	1/4	4,791.76	1/4	4,440.79	1/4	4,079.55	1/4	3,718.24	1/4	3,356.92	1/4	2,995.60	1/4	2,634.29	1/4	2,272.85
1/2		1/2	5,116.45	1/2	4,784.64	1/2	4,433.28	1/2	4,072.02	1/2	3,710.71	1/2	3,349.39	1/2	2,988.08	1/2	2,626.76	1/2	2,265.32
3/4		3/4	5,109.76	3/4	4,777.51	3/4	4,425.77	3/4	4,064.50	3/4	3,703.18	3/4	3,341.87	3/4	2,980.55	3/4	2,619.23	3/4	2,257.79
5		5	5,103.07	5	4,770.38	5	4,418.26	5	4,056.97	5	3,695.65	5	3,334.34	5	2,973.02	5	2,611.71	5	2,250.26
1/4		1/4	5,096.38	1/4	4,763.26	1/4	4,410.76	1/4	4,049.44	1/4	3,688.13	1/4	3,326.81	1/4	2,965.50	1/4	2,604.18	1/4	2,242.73
1/2		1/2	5,089.66	1/2	4,756.10	1/2	4,403.23	1/2	4,041.91	1/2	3,680.60	1/2	3,319.28	1/2	2,957.97	1/2	2,596.65	1/2	2,235.20
3/4		3/4	5,082.93	3/4	4,748.94	3/4	4,395.70	3/4	4,034.39	3/4	3,673.07	3/4	3,311.76	3/4	2,950.44	3/4	2,589.12	3/4	2,227.67
6		6	5,076.20	6	4,741.79	6	4,388.17	6	4,026.86	6	3,665.54	6	3,304.23	6	2,942.91	6	2,581.59	6	2,220.14
1/4		1/4	5,069.47	1/4	4,734.63	1/4	4,380.65	1/4	4,019.33	1/4	3,658.02	1/4	3,296.70	1/4	2,935.39	1/4	2,574.06	1/4	2,212.61
1/2		1/2	5,062.71	1/2	4,727.45	1/2	4,373.12	1/2	4,011.80	1/2	3,650.49	1/2	3,289.17	1/2	2,927.86	1/2	2,566.53	1/2	2,205.08
3/4		3/4	5,055.95	3/4	4,720.26	3/4	4,365.59	3/4	4,004.28	3/4	3,642.96	3/4	3,281.65	3/4	2,920.33	3/4	2,559.00	3/4	2,197.55
7		7	5,049.19	7	4,713.07	7	4,358.06	7	3,996.75	7	3,635.43	7	3,274.12	7	2,912.80	7	2,551.47	7	2,190.02
1/4		1/4	5,042.43	1/4	4,705.89	1/4	4,350.54	1/4	3,989.22	1/4	3,627.91	1/4	3,266.59	1/4	2,905.28	1/4	2,543.94	1/4	2,182.49
1/2		1/2	5,035.64	1/2	4,698.64	1/2	4,343.01	1/2	3,981.69	1/2	3,620.38	1/2	3,259.06	1/2	2,897.75	1/2	2,536.41	1/2	2,174.96
3/4		3/4	5,028.85	3/4	4,691.40	3/4	4,335.48	3/4	3,974.17	3/4	3,612.85	3/4	3,251.54	3/4	2,890.22	3/4	2,528.88	3/4	2,167.43
8		8	5,022.06	8	4,684.15	8	4,327.95	8	3,966.64	8	3,605.32	8	3,244.01	8	2,882.69	8	2,521.35	8	2,159.90
1/4		1/4	5,015.27	1/4	4,676.91	1/4	4,320.43	1/4	3,959.11	1/4	3,597.80	1/4	3,236.48	1/4	2,875.17	1/4	2,513.82	1/4	2,152.37
1/2		1/2	5,008.45	1/2	4,669.63	1/2	4,312.90	1/2	3,951.58	1/2	3,590.27	1/2	3,228.95	1/2	2,867.64	1/2	2,506.29	1/2	2,144.84
3/4		3/4	5,001.63	3/4	4,662.36	3/4	4,305.37	3/4	3,944.06	3/4	3,582.74	3/4	3,221.43	3/4	2,860.11	3/4	2,498.76	3/4	2,137.31
9		9	4,994.81	9	4,655.09	9	4,297.84	9	3,936.53	9	3,575.21	9	3,213.90	9	2,852.58	9	2,491.23	9	2,129.78
1/4		1/4	4,987.99	1/4	4,647.81	1/4	4,290.32	1/4	3,929.00	1/4	3,567.69	1/4	3,206.37	1/4	2,845.06	1/4	2,483.70	1/4	2,122.25
1/2		1/2	4,981.07	1/2	4,640.51	1/2	4,282.79	1/2	3,921.47	1/2	3,560.16	1/2	3,198.84	1/2	2,837.53	1/2	2,476.17	1/2	2,114.72
3/4		3/4	4,974.15	3/4	4,633.20	3/4	4,275.26	3/4	3,913.95	3/4	3,552.63	3/4	3,191.32	3/4	2,830.00	3/4	2,468.64	3/4	2,107.19
10		10	4,967.23	10	4,625.90	10	4,267.74	10	3,906.42	10	3,545.10	10	3,183.79	10	2,822.47	10	2,461.11	10	2,099.66
1/4		1/4	4,960.31	1/4	4,618.59	1/4	4,260.21	1/4	3,898.89	1/4	3,537.58	1/4	3,176.26	1/4	2,814.95	1/4	2,453.58	1/4	2,092.13
1/2		1/2	4,953.36	1/2	4,611.26	1/2	4,252.68	1/2	3,891.37	1/2	3,530.05	1/2	3,168.73	1/2	2,807.42	1/2	2,446.05	1/2	2,084.60
3/4		3/4	4,946.41	3/4	4,603.93	3/4	4,245.15	3/4	3,883.84	3/4	3,522.52	3/4	3,161.21	3/4	2,799.89	3/4	2,438.52	3/4	2,077.07
11		11	4,939.46	11	4,596.59	11	4,237.63	11	3,876.31	11	3,515.00	11	3,153.68	11	2,792.36	11	2,430.99	11	2,069.54
1/4		1/4	4,932.51	1/4	4,589.26	1/4	4,230.10	1/4	3,868.78	1/4	3,507.47	1/4	3,146.15	1/4	2,784.84	1/4	2,423.46	1/4	2,062.01
1/2		1/2	4,925.53	1/2	4,581.89	1/2	4,222.57	1/2	3,861.26	1/2	3,499.94	1/2	3,138.63	1/2	2,777.31	1/2	2,415.92	1/2	2,054.48
3/4		3/4	4,918.55	3/4	4,574.53	3/4	4,215.04	3/4	3,853.73	3/4	3,492.41	3/4	3,131.10	3/4	2,769.78	3/4	2,408.39	3/4	2,046.95

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 TO TOP OF 2" HERMETIC CLOSED GAUGING VALVE.
 GAUGE POINT: (HERMETIC) LOCATED 10'-06" OFF CENTERLINE AND 42'-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 "HBC 309"

2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08 1/4"

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.			
IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0
1/4	2,031.88	1/4	1,670.44	1/4	1,308.99	1/4	961.22	1/4	602.49	1/4	241.05	1/4		1/4		1/4		1/4			
1/2	2,024.35	1/2	1,662.90	1/2	1,301.46	1/2	954.03	1/2	594.96	1/2	233.52	1/2		1/2		1/2		1/2			
3/4	2,016.82	3/4	1,655.37	3/4	1,293.93	3/4	946.85	3/4	587.43	3/4	225.99	3/4		3/4		3/4		3/4			
1	2,009.29	1	1,647.84	1	1,286.39	1	939.66	1	579.90	1	218.46	1		1		1		1			
1/4	2,001.76	1/4	1,640.31	1/4	1,278.86	1/4	932.47	1/4	572.37	1/4	210.93	1/4		1/4		1/4		1/4			
1/2	1,994.23	1/2	1,632.78	1/2	1,271.33	1/2	925.27	1/2	564.84	1/2	203.40	1/2		1/2		1/2		1/2			
3/4	1,986.70	3/4	1,625.25	3/4	1,263.80	3/4	918.08	3/4	557.31	3/4	195.87	3/4		3/4		3/4		3/4			
2	1,979.17	2	1,617.72	2	1,256.27	2	910.88	2	549.78	2	188.34	2		2		2		2			
1/4	1,971.64	1/4	1,610.19	1/4	1,248.74	1/4	903.68	1/4	542.25	1/4	180.81	1/4		1/4		1/4		1/4			
1/2	1,964.11	1/2	1,602.66	1/2	1,241.54	1/2	896.15	1/2	534.72	1/2	173.28	1/2		1/2		1/2		1/2			
3/4	1,956.58	3/4	1,595.13	3/4	1,234.34	3/4	888.62	3/4	527.19	3/4	165.75	3/4		3/4		3/4		3/4			
3	1,949.05	3	1,587.60	3	1,227.14	3	881.09	3	519.66	3	158.22	3		3		3		3			
1/4	1,941.52	1/4	1,580.07	1/4	1,219.94	1/4	873.56	1/4	512.13	1/4	150.70	1/4		1/4		1/4		1/4			
1/2	1,933.99	1/2	1,572.54	1/2	1,212.76	1/2	866.03	1/2	504.60	1/2	143.18	1/2		1/2		1/2		1/2			
3/4	1,926.46	3/4	1,565.01	3/4	1,205.57	3/4	858.50	3/4	497.07	3/4	135.66	3/4		3/4		3/4		3/4			
4	1,918.93	4	1,557.48	4	1,198.38	4	850.97	4	489.54	4	128.14	4		4		4		4			
1/4	1,911.40	1/4	1,549.95	1/4	1,191.20	1/4	843.44	1/4	482.01	1/4	120.62	1/4		1/4		1/4		1/4			
1/2	1,903.87	1/2	1,542.42	1/2	1,184.01	1/2	835.91	1/2	474.48	1/2	113.12	1/2		1/2		1/2		1/2			
3/4	1,896.34	3/4	1,534.89	3/4	1,176.82	3/4	828.38	3/4	466.95	3/4	105.63	3/4		3/4		3/4		3/4			
5	1,888.81	5	1,527.36	5	1,169.64	5	820.85	5	459.42	5	98.14	5		5		5		5			
1/4	1,881.28	1/4	1,519.83	1/4	1,162.45	1/4	813.32	1/4	451.89	1/4	90.64	1/4		1/4		1/4		1/4			
1/2	1,873.75	1/2	1,512.30	1/2	1,155.26	1/2	805.79	1/2	444.36	1/2	83.74	1/2		1/2		1/2		1/2			
3/4	1,866.22	3/4	1,504.77	3/4	1,148.08	3/4	798.26	3/4	436.83	3/4	76.84	3/4		3/4		3/4		3/4			
6	1,858.69	6	1,497.24	6	1,140.89	6	790.73	6	429.30	6	69.94	6		6		6		6			
1/4	1,851.16	1/4	1,489.71	1/4	1,133.70	1/4	783.20	1/4	421.77	1/4	63.04	1/4		1/4		1/4		1/4			
1/2	1,843.63	1/2	1,482.18	1/2	1,126.52	1/2	775.67	1/2	414.24	1/2	57.39	1/2		1/2		1/2		1/2			
3/4	1,836.10	3/4	1,474.65	3/4	1,119.33	3/4	768.14	3/4	406.71	3/4	51.75	3/4		3/4		3/4		3/4			
7	1,828.57	7	1,467.12	7	1,112.14	7	760.61	7	399.18	7	46.10	7		7		7		7			
1/4	1,821.04	1/4	1,459.59	1/4	1,104.96	1/4	753.08	1/4	391.65	1/4	40.45	1/4		1/4		1/4		1/4			
1/2	1,813.51	1/2	1,452.06	1/2	1,097.77	1/2	745.55	1/2	384.12	1/2	36.06	1/2		1/2		1/2		1/2			
3/4	1,805.98	3/4	1,444.53	3/4	1,090.58	3/4	738.02	3/4	376.59	3/4	31.67	3/4		3/4		3/4		3/4			
8	1,798.45	8	1,437.00	8	1,083.39	8	730.49	8	369.06	8	27.28	8		8		8		8			
1/4	1,790.92	1/4	1,429.47	1/4	1,076.21	1/4	722.96	1/4	361.53	1/4	22.89	1/4		1/4		1/4		1/4			
1/2	1,783.39	1/2	1,421.94	1/2	1,069.02	1/2	715.43	1/2	354.00	1/2		1/2		1/2		1/2		1/2			
3/4	1,775.86	3/4	1,414.41	3/4	1,061.83	3/4	707.90	3/4	346.47	3/4		3/4		3/4		3/4		3/4			
9	1,768.33	9	1,406.88	9	1,054.65	9	700.37	9	338.94	9		9		9		9		9			
1/4	1,760.80	1/4	1,399.35	1/4	1,047.46	1/4	692.84	1/4	331.41	1/4		1/4		1/4		1/4		1/4			
1/2	1,753.27	1/2	1,391.82	1/2	1,040.27	1/2	685.31	1/2	323.88	1/2		1/2		1/2		1/2		1/2			
3/4	1,745.74	3/4	1,384.29	3/4	1,033.09	3/4	677.78	3/4	316.35	3/4		3/4		3/4		3/4		3/4			
10	1,738.21	10	1,376.76	10	1,025.90	10	670.25	10	308.82	10		10		10		10		10			
1/4	1,730.68	1/4	1,369.23	1/4	1,018.71	1/4	662.72	1/4	301.29	1/4		1/4		1/4		1/4		1/4			
1/2	1,723.15	1/2	1,361.70	1/2	1,011.53	1/2	655.19	1/2	293.76	1/2		1/2		1/2		1/2		1/2			
3/4	1,715.62	3/4	1,354.17	3/4	1,004.34	3/4	647.66	3/4	286.23	3/4		3/4		3/4		3/4		3/4			
11	1,708.09	11	1,346.64	11	997.15	11	640.13	11	278.70	11		11		11		11		11			
1/4	1,700.56	1/4	1,339.11	1/4	989.97	1/4	632.60	1/4	271.17	1/4		1/4		1/4		1/4		1/4			
1/2	1,693.03	1/2	1,331.58	1/2	982.78	1/2	625.07	1/2	263.64	1/2		1/2		1/2		1/2		1/2			
3/4	1,685.50	3/4	1,324.05	3/4	975.59	3/4	617.54	3/4	256.11	3/4		3/4		3/4		3/4		3/4			

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 08/08/2013 CL
CALCULATED: 08/08/2013 CL
PRINTED: 08/08/2013 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 08/2013

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



BARGE "HBC 309"

3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08"

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	4,411.53	0	4,256.59	0	4,071.75	0	3,878.90	0	3,685.25	0	3,477.86	0	3,119.72	0	2,760.32	0	2,400.32
1/4		1/4	4,410.66	1/4	4,252.84	1/4	4,067.78	1/4	3,874.86	1/4	3,681.21	1/4	3,470.40	1/4	3,112.23	1/4	2,752.82	1/4	2,392.82
1/2		1/2	4,409.79	1/2	4,249.08	1/2	4,063.82	1/2	3,870.83	1/2	3,677.18	1/2	3,462.93	1/2	3,104.74	1/2	2,745.32	1/2	2,385.32
3/4		3/4	4,408.92	3/4	4,245.32	3/4	4,059.86	3/4	3,866.80	3/4	3,673.14	3/4	3,455.46	3/4	3,097.26	3/4	2,737.82	3/4	2,377.82
1		1	4,408.05	1	4,241.56	1	4,055.90	1	3,862.76	1	3,669.11	1	3,447.99	1	3,089.77	1	2,730.32	1	2,370.32
1/4		1/4	4,405.94	1/4	4,237.79	1/4	4,051.92	1/4	3,858.73	1/4	3,665.08	1/4	3,440.52	1/4	3,082.28	1/4	2,722.82	1/4	2,362.82
1/2		1/2	4,403.84	1/2	4,234.02	1/2	4,047.94	1/2	3,854.69	1/2	3,661.04	1/2	3,433.06	1/2	3,074.80	1/2	2,715.32	1/2	2,355.32
3/4		3/4	4,401.73	3/4	4,230.24	3/4	4,043.96	3/4	3,850.66	3/4	3,657.01	3/4	3,425.59	3/4	3,067.31	3/4	2,707.82	3/4	2,347.82
2		2	4,399.62	2	4,226.47	2	4,039.98	2	3,846.62	2	3,652.97	2	3,418.12	2	3,059.83	2	2,700.32	2	2,340.32
1/4		1/4	4,396.69	1/4	4,222.68	1/4	4,035.99	1/4	3,842.59	1/4	3,648.94	1/4	3,410.65	1/4	3,052.34	1/4	2,692.83	1/4	2,332.81
1/2		1/2	4,393.76	1/2	4,218.89	1/2	4,031.99	1/2	3,838.55	1/2	3,644.90	1/2	3,403.19	1/2	3,044.85	1/2	2,685.33	1/2	2,325.31
3/4		3/4	4,390.82	3/4	4,215.10	3/4	4,028.00	3/4	3,834.52	3/4	3,640.87	3/4	3,395.72	3/4	3,037.37	3/4	2,677.83	3/4	2,317.81
3		3	4,387.89	3	4,211.31	3	4,024.00	3	3,830.49	3	3,636.83	3	3,388.25	3	3,029.88	3	2,670.33	3	2,310.31
1/4		1/4	4,384.35	1/4	4,207.51	1/4	4,019.99	1/4	3,826.45	1/4	3,632.80	1/4	3,380.78	1/4	3,022.39	1/4	2,662.83	1/4	2,302.81
1/2		1/2	4,380.81	1/2	4,203.70	1/2	4,015.98	1/2	3,822.42	1/2	3,628.77	1/2	3,373.32	1/2	3,014.91	1/2	2,655.33	1/2	2,295.31
3/4		3/4	4,377.27	3/4	4,199.90	3/4	4,011.97	3/4	3,818.38	3/4	3,624.73	3/4	3,365.85	3/4	3,007.42	3/4	2,647.83	3/4	2,287.81
4		4	4,373.73	4	4,196.09	4	4,007.96	4	3,814.35	4	3,620.70	4	3,358.38	4	2,999.93	4	2,640.33	4	2,280.31
1/4		1/4	4,370.15	1/4	4,192.27	1/4	4,003.94	1/4	3,810.31	1/4	3,616.66	1/4	3,350.91	1/4	2,992.45	1/4	2,632.83	1/4	2,272.81
1/2		1/2	4,366.56	1/2	4,188.45	1/2	3,999.91	1/2	3,806.28	1/2	3,612.63	1/2	3,343.44	1/2	2,984.96	1/2	2,625.33	1/2	2,265.31
3/4		3/4	4,362.98	3/4	4,184.63	3/4	3,995.89	3/4	3,802.25	3/4	3,608.59	3/4	3,335.98	3/4	2,977.48	3/4	2,617.84	3/4	2,257.81
5		5	4,359.40	5	4,180.81	5	3,991.86	5	3,798.21	5	3,604.56	5	3,328.51	5	2,969.99	5	2,610.34	5	2,250.31
1/4		1/4	4,355.79	1/4	4,176.97	1/4	3,987.83	1/4	3,794.18	1/4	3,600.53	1/4	3,321.06	1/4	2,962.50	1/4	2,602.84	1/4	2,242.81
1/2		1/2	4,352.19	1/2	4,173.13	1/2	3,983.79	1/2	3,790.14	1/2	3,596.49	1/2	3,313.61	1/2	2,955.02	1/2	2,595.34	1/2	2,235.31
3/4		3/4	4,348.58	3/4	4,169.30	3/4	3,979.76	3/4	3,786.11	3/4	3,592.46	3/4	3,306.15	3/4	2,947.53	3/4	2,587.84	3/4	2,227.81
6		6	4,344.98	6	4,165.46	6	3,975.72	6	3,782.07	6	3,588.42	6	3,298.70	6	2,940.04	6	2,580.33	6	2,220.31
1/4		1/4	4,341.35	1/4	4,161.61	1/4	3,971.69	1/4	3,778.04	1/4	3,584.39	1/4	3,291.25	1/4	2,932.56	1/4	2,572.83	1/4	2,212.81
1/2		1/2	4,337.73	1/2	4,157.75	1/2	3,967.66	1/2	3,774.00	1/2	3,580.35	1/2	3,283.80	1/2	2,925.07	1/2	2,565.33	1/2	2,205.30
3/4		3/4	4,334.10	3/4	4,153.90	3/4	3,963.62	3/4	3,769.97	3/4	3,576.32	3/4	3,276.35	3/4	2,917.59	3/4	2,557.83	3/4	2,197.80
7		7	4,330.48	7	4,150.05	7	3,959.59	7	3,765.94	7	3,572.28	7	3,268.89	7	2,910.10	7	2,550.33	7	2,190.30
1/4		1/4	4,326.84	1/4	4,146.17	1/4	3,955.55	1/4	3,761.90	1/4	3,568.25	1/4	3,261.44	1/4	2,902.61	1/4	2,542.83	1/4	2,182.80
1/2		1/2	4,323.20	1/2	4,142.28	1/2	3,951.52	1/2	3,757.87	1/2	3,564.22	1/2	3,253.99	1/2	2,895.13	1/2	2,535.33	1/2	2,175.30
3/4		3/4	4,319.56	3/4	4,138.40	3/4	3,947.48	3/4	3,753.83	3/4	3,560.18	3/4	3,246.54	3/4	2,887.64	3/4	2,527.83	3/4	2,167.80
8		8	4,315.92	8	4,134.52	8	3,943.45	8	3,749.80	8	3,556.15	8	3,239.08	8	2,880.15	8	2,520.33	8	2,160.30
1/4		1/4	4,312.27	1/4	4,130.62	1/4	3,939.41	1/4	3,745.76	1/4	3,552.11	1/4	3,231.63	1/4	2,872.67	1/4	2,512.83	1/4	2,152.80
1/2		1/2	4,308.61	1/2	4,126.72	1/2	3,935.38	1/2	3,741.73	1/2	3,548.08	1/2	3,224.18	1/2	2,865.18	1/2	2,505.33	1/2	2,145.30
3/4		3/4	4,304.96	3/4	4,122.82	3/4	3,931.35	3/4	3,737.69	3/4	3,544.04	3/4	3,216.73	3/4	2,857.70	3/4	2,497.83	3/4	2,137.80
9		9	4,301.30	9	4,118.92	9	3,927.31	9	3,733.66	9	3,540.01	9	3,209.28	9	2,850.21	9	2,490.33	9	2,130.30
1/4		1/4	4,297.59	1/4	4,115.00	1/4	3,923.28	1/4	3,729.63	1/4	3,535.97	1/4	3,201.82	1/4	2,842.72	1/4	2,482.83	1/4	2,122.80
1/2		1/2	4,293.88	1/2	4,111.09	1/2	3,919.24	1/2	3,725.59	1/2	3,531.94	1/2	3,194.37	1/2	2,835.24	1/2	2,475.33	1/2	2,115.30
3/4		3/4	4,290.17	3/4	4,107.17	3/4	3,915.21	3/4	3,721.56	3/4	3,527.91	3/4	3,186.92	3/4	2,827.75	3/4	2,467.83	3/4	2,107.80
10		10	4,286.46	10	4,103.26	10	3,911.17	10	3,717.52	10	3,523.87	10	3,179.47	10	2,820.26	10	2,460.33	10	2,100.30
1/4		1/4	4,282.74	1/4	4,099.33	1/4	3,907.14	1/4	3,713.49	1/4	3,519.84	1/4	3,172.02	1/4	2,812.78	1/4	2,452.82	1/4	2,092.80
1/2		1/2	4,279.01	1/2	4,095.40	1/2	3,903.11	1/2	3,709.45	1/2	3,515.80	1/2	3,164.56	1/2	2,805.29	1/2	2,445.32	1/2	2,085.30
3/4		3/4	4,275.29	3/4	4,091.47	3/4	3,899.07	3/4	3,705.42	3/4	3,511.77	3/4	3,157.11	3/4	2,797.80	3/4	2,437.82	3/4	2,077.79
11		11	4,271.56	11	4,087.53	11	3,895.04	11	3,701.39	11	3,507.73	11	3,149.66	11	2,790.32	11	2,430.32	11	2,070.29
1/4		1/4	4,267.82	1/4	4,083.59	1/4	3,891.00	1/4	3,697.35	1/4	3,500.27	1/4	3,142.17	1/4	2,782.82	1/4	2,422.82	1/4	2,062.79
1/2		1/2	4,264.08	1/2	4,079.64	1/2	3,886.97	1/2	3,693.32	1/2	3,492.80	1/2	3,134.69	1/2	2,775.32	1/2	2,415.32	1/2	2,055.29
3/4		3/4	4,260.34	3/4	4,075.69	3/4	3,882.93	3/4	3,689.28	3/4	3,485.33	3/4	3,127.20	3/4	2,767.82	3/4	2,407.82	3/4	2,047.79

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 TO TOP OF 2" HERMETIC CLOSED GAUGING VALVE.
 GAUGE POINT: (HERMETIC) LOCATED 10'-06" 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 "HBC 309"

3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08"

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		IN	
0	2,040.29	0	1,680.19	0	1,320.08	0	960.29	0	600.25	0	240.16	0		0		0		0		0	
1/4	2,032.79	1/4	1,672.68	1/4	1,312.58	1/4	952.79	1/4	592.75	1/4	232.66	1/4		1/4		1/4		1/4		1/4	
1/2	2,025.29	1/2	1,665.18	1/2	1,305.08	1/2	945.30	1/2	585.25	1/2	225.16	1/2		1/2		1/2		1/2		1/2	
3/4	2,017.78	3/4	1,657.68	3/4	1,297.57	3/4	937.81	3/4	577.75	3/4	217.65	3/4		3/4		3/4		3/4		3/4	
1	2,010.28	1	1,650.18	1	1,290.07	1	930.32	1	570.24	1	210.15	1		1		1		1		1	
1/4	2,002.78	1/4	1,642.67	1/4	1,282.57	1/4	922.82	1/4	562.74	1/4	202.65	1/4		1/4		1/4		1/4		1/4	
1/2	1,995.28	1/2	1,635.17	1/2	1,275.07	1/2	915.32	1/2	555.24	1/2	195.15	1/2		1/2		1/2		1/2		1/2	
3/4	1,987.78	3/4	1,627.67	3/4	1,267.56	3/4	907.82	3/4	547.74	3/4	187.65	3/4		3/4		3/4		3/4		3/4	
2	1,980.27	2	1,620.17	2	1,260.06	2	900.33	2	540.24	2	180.14	2		2		2		2		2	
1/4	1,972.77	1/4	1,612.67	1/4	1,252.56	1/4	892.83	1/4	532.73	1/4	172.64	1/4		1/4		1/4		1/4		1/4	
1/2	1,965.27	1/2	1,605.16	1/2	1,245.06	1/2	885.32	1/2	525.23	1/2	165.14	1/2		1/2		1/2		1/2		1/2	
3/4	1,957.77	3/4	1,597.66	3/4	1,237.56	3/4	877.82	3/4	517.73	3/4	157.64	3/4		3/4		3/4		3/4		3/4	
3	1,950.27	3	1,590.16	3	1,230.05	3	870.32	3	510.23	3	150.14	3		3		3		3		3	
1/4	1,942.76	1/4	1,582.66	1/4	1,222.55	1/4	862.82	1/4	502.73	1/4	142.65	1/4		1/4		1/4		1/4		1/4	
1/2	1,935.26	1/2	1,575.16	1/2	1,215.06	1/2	855.32	1/2	495.22	1/2	135.16	1/2		1/2		1/2		1/2		1/2	
3/4	1,927.76	3/4	1,567.65	3/4	1,207.56	3/4	847.81	3/4	487.72	3/4	127.67	3/4		3/4		3/4		3/4		3/4	
4	1,920.26	4	1,560.15	4	1,200.06	4	840.31	4	480.22	4	120.18	4		4		4		4		4	
1/4	1,912.75	1/4	1,552.65	1/4	1,192.56	1/4	832.81	1/4	472.72	1/4	112.71	1/4		1/4		1/4		1/4		1/4	
1/2	1,905.25	1/2	1,545.15	1/2	1,185.07	1/2	825.31	1/2	465.22	1/2	105.24	1/2		1/2		1/2		1/2		1/2	
3/4	1,897.75	3/4	1,537.64	3/4	1,177.58	3/4	817.81	3/4	457.71	3/4	97.78	3/4		3/4		3/4		3/4		3/4	
5	1,890.25	5	1,530.14	5	1,170.09	5	810.30	5	450.21	5	90.31	5		5		5		5		5	
1/4	1,882.75	1/4	1,522.64	1/4	1,162.59	1/4	802.80	1/4	442.71	1/4	83.44	1/4		1/4		1/4		1/4		1/4	
1/2	1,875.24	1/2	1,515.14	1/2	1,155.10	1/2	795.30	1/2	435.21	1/2	76.56	1/2		1/2		1/2		1/2		1/2	
3/4	1,867.74	3/4	1,507.64	3/4	1,147.61	3/4	787.80	3/4	427.71	3/4	69.69	3/4		3/4		3/4		3/4		3/4	
6	1,860.24	6	1,500.13	6	1,140.11	6	780.30	6	420.21	6	62.81	6		6		6		6		6	
1/4	1,852.74	1/4	1,492.63	1/4	1,132.62	1/4	772.79	1/4	412.70	1/4	57.18	1/4		1/4		1/4		1/4		1/4	
1/2	1,845.23	1/2	1,485.13	1/2	1,125.13	1/2	765.29	1/2	405.20	1/2	51.56	1/2		1/2		1/2		1/2		1/2	
3/4	1,837.73	3/4	1,477.63	3/4	1,117.64	3/4	757.79	3/4	397.70	3/4	45.93	3/4		3/4		3/4		3/4		3/4	
7	1,830.23	7	1,470.12	7	1,110.14	7	750.29	7	390.20	7	40.31	7		7		7		7		7	
1/4	1,822.73	1/4	1,462.62	1/4	1,102.65	1/4	742.79	1/4	382.70	1/4	35.93	1/4		1/4		1/4		1/4		1/4	
1/2	1,815.23	1/2	1,455.12	1/2	1,095.16	1/2	735.29	1/2	375.19	1/2	31.56	1/2		1/2		1/2		1/2		1/2	
3/4	1,807.72	3/4	1,447.62	3/4	1,087.67	3/4	727.78	3/4	367.69	3/4	27.18	3/4		3/4		3/4		3/4		3/4	
8	1,800.22	8	1,440.12	8	1,080.17	8	720.28	8	360.19	8	22.81	8		8		8		8		8	
1/4	1,792.72	1/4	1,432.61	1/4	1,072.68	1/4	712.78	1/4	352.69	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	1,785.22	1/2	1,425.11	1/2	1,065.19	1/2	705.28	1/2	345.19	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	1,777.71	3/4	1,417.61	3/4	1,057.69	3/4	697.78	3/4	337.68	3/4		3/4		3/4		3/4		3/4		3/4	
9	1,770.21	9	1,410.11	9	1,050.20	9	690.27	9	330.18	9		9		9		9		9		9	
1/4	1,762.71	1/4	1,402.60	1/4	1,042.71	1/4	682.77	1/4	322.68	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	1,755.21	1/2	1,395.10	1/2	1,035.22	1/2	675.27	1/2	315.18	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	1,747.71	3/4	1,387.60	3/4	1,027.72	3/4	667.77	3/4	307.68	3/4		3/4		3/4		3/4		3/4		3/4	
10	1,740.20	10	1,380.10	10	1,020.23	10	660.27	10	300.18	10		10		10		10		10		10	
1/4	1,732.70	1/4	1,372.60	1/4	1,012.74	1/4	652.76	1/4	292.67	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	1,725.20	1/2	1,365.09	1/2	1,005.24	1/2	645.26	1/2	285.17	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	1,717.70	3/4	1,357.59	3/4	997.75	3/4	637.76	3/4	277.67	3/4		3/4		3/4		3/4		3/4		3/4	
11	1,710.19	11	1,350.09	11	990.26	11	630.26	11	270.17	11		11		11		11		11		11	
1/4	1,702.69	1/4	1,342.59	1/4	982.77	1/4	622.76	1/4	262.67	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	1,695.19	1/2	1,335.08	1/2	975.27	1/2	615.25	1/2	255.16	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	1,687.69	3/4	1,327.58	3/4	967.78	3/4	607.75	3/4	247.66	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 08/08/2013 CL
CALCULATED: 08/08/2013 CL
PRINTED: 08/08/2013 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 08/2013

PRECISION MEASUREMENT
& ANALYSIS, INC.
P.O. Box 2092
Pearland, Texas 77588
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BARGE "HBC 309"

3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08 1/4"

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	IN	0
					4,233.11		4,049.14		3,857.05		3,664.07		3,460.80		3,103.34		2,744.81		2,385.49		
1/4	1/4	1/4	4,383.65	1/4	4,229.39	1/4	4,045.21	1/4	3,853.03	1/4	3,660.05	1/4	3,453.35	1/4	3,095.87	1/4	2,737.32	1/4	2,378.00		
1/2	1/2	1/2	4,382.79	1/2	4,225.64	1/2	4,041.26	1/2	3,849.01	1/2	3,656.03	1/2	3,445.89	1/2	3,088.40	1/2	2,729.84	1/2	2,370.52		
3/4	3/4	3/4	4,381.94	3/4	4,221.90	3/4	4,037.31	3/4	3,844.99	3/4	3,652.01	3/4	3,438.44	3/4	3,080.93	3/4	2,722.35	3/4	2,363.03		
1	1	1	4,381.08	1	4,218.16	1	4,033.37	1	3,840.97	1	3,647.99	1	3,430.99	1	3,073.45	1	2,714.87	1	2,355.54		
1/4	1/4	1/4	4,380.22	1/4	4,214.41	1/4	4,029.42	1/4	3,836.95	1/4	3,643.97	1/4	3,423.53	1/4	3,065.98	1/4	2,707.38	1/4	2,348.06		
1/2	1/2	1/2	4,378.13	1/2	4,210.65	1/2	4,025.45	1/2	3,832.93	1/2	3,639.95	1/2	3,416.08	1/2	3,058.52	1/2	2,699.90	1/2	2,340.57		
3/4	3/4	3/4	4,376.04	3/4	4,206.89	3/4	4,021.49	3/4	3,828.91	3/4	3,635.93	3/4	3,408.62	3/4	3,051.05	3/4	2,692.41	3/4	2,333.08		
2	2	2	4,373.95	2	4,203.13	2	4,017.52	2	3,824.89	2	3,631.91	2	3,401.17	2	3,043.59	2	2,684.93	2	2,325.60		
1/4	1/4	1/4	4,371.86	1/4	4,199.37	1/4	4,013.56	1/4	3,820.87	1/4	3,627.89	1/4	3,393.72	1/4	3,036.12	1/4	2,677.44	1/4	2,318.11		
1/2	1/2	1/2	4,368.94	1/2	4,195.60	1/2	4,009.58	1/2	3,816.85	1/2	3,623.87	1/2	3,386.26	1/2	3,028.66	1/2	2,669.96	1/2	2,310.62		
3/4	3/4	3/4	4,366.02	3/4	4,191.82	3/4	4,005.60	3/4	3,812.83	3/4	3,619.85	3/4	3,378.81	3/4	3,021.19	3/4	2,662.47	3/4	2,303.14		
3	3	3	4,363.10	3	4,188.05	3	4,001.62	3	3,808.81	3	3,615.83	3	3,371.36	3	3,013.73	3	2,654.99	3	2,295.65		
1/4	1/4	1/4	4,360.18	1/4	4,184.27	1/4	3,997.64	1/4	3,804.78	1/4	3,611.81	1/4	3,363.90	1/4	3,006.26	1/4	2,647.50	1/4	2,288.16		
1/2	1/2	1/2	4,356.65	1/2	4,180.48	1/2	3,993.64	1/2	3,800.76	1/2	3,607.79	1/2	3,356.45	1/2	2,998.80	1/2	2,640.02	1/2	2,280.68		
3/4	3/4	3/4	4,353.12	3/4	4,176.69	3/4	3,989.64	3/4	3,796.74	3/4	3,603.77	3/4	3,349.00	3/4	2,991.33	3/4	2,632.53	3/4	2,273.19		
4	4	4	4,349.60	4	4,172.90	4	3,985.65	4	3,792.72	4	3,599.75	4	3,341.54	4	2,983.87	4	2,625.05	4	2,265.71		
1/4	1/4	1/4	4,346.07	1/4	4,169.11	1/4	3,981.65	1/4	3,788.70	1/4	3,595.73	1/4	3,334.09	1/4	2,976.40	1/4	2,617.56	1/4	2,258.22		
1/2	1/2	1/2	4,342.50	1/2	4,165.30	1/2	3,977.64	1/2	3,784.68	1/2	3,591.71	1/2	3,326.64	1/2	2,968.94	1/2	2,610.08	1/2	2,250.73		
3/4	3/4	3/4	4,338.94	3/4	4,161.49	3/4	3,973.62	3/4	3,780.66	3/4	3,587.69	3/4	3,319.18	3/4	2,961.48	3/4	2,602.59	3/4	2,243.25		
5	5	5	4,335.37	5	4,157.69	5	3,969.61	5	3,776.64	5	3,583.67	5	3,311.73	5	2,954.01	5	2,595.11	5	2,235.76		
1/4	1/4	1/4	4,331.80	1/4	4,153.88	1/4	3,965.60	1/4	3,772.62	1/4	3,579.65	1/4	3,304.27	1/4	2,946.55	1/4	2,587.62	1/4	2,228.27		
1/2	1/2	1/2	4,328.21	1/2	4,150.06	1/2	3,961.58	1/2	3,768.60	1/2	3,575.63	1/2	3,296.84	1/2	2,939.08	1/2	2,580.14	1/2	2,220.79		
3/4	3/4	3/4	4,324.62	3/4	4,146.23	3/4	3,957.56	3/4	3,764.58	3/4	3,571.61	3/4	3,289.40	3/4	2,931.62	3/4	2,572.65	3/4	2,213.30		
6	6	6	4,321.02	6	4,142.41	6	3,953.54	6	3,760.56	6	3,567.59	6	3,281.96	6	2,924.15	6	2,565.17	6	2,205.81		
1/4	1/4	1/4	4,317.43	1/4	4,138.59	1/4	3,949.52	1/4	3,756.54	1/4	3,563.57	1/4	3,274.52	1/4	2,916.69	1/4	2,557.68	1/4	2,198.33		
1/2	1/2	1/2	4,313.82	1/2	4,134.75	1/2	3,945.50	1/2	3,752.52	1/2	3,559.55	1/2	3,267.08	1/2	2,909.22	1/2	2,550.19	1/2	2,190.84		
3/4	3/4	3/4	4,310.21	3/4	4,130.91	3/4	3,941.48	3/4	3,748.50	3/4	3,555.53	3/4	3,259.65	3/4	2,901.76	3/4	2,542.71	3/4	2,183.35		
7	7	7	4,306.60	7	4,127.07	7	3,937.45	7	3,744.48	7	3,551.51	7	3,252.21	7	2,894.29	7	2,535.22	7	2,175.87		
1/4	1/4	1/4	4,302.99	1/4	4,123.23	1/4	3,933.43	1/4	3,740.46	1/4	3,547.49	1/4	3,244.77	1/4	2,886.83	1/4	2,527.73	1/4	2,168.38		
1/2	1/2	1/2	4,299.37	1/2	4,119.36	1/2	3,929.41	1/2	3,736.44	1/2	3,543.47	1/2	3,237.33	1/2	2,879.36	1/2	2,520.25	1/2	2,160.89		
3/4	3/4	3/4	4,295.74	3/4	4,115.49	3/4	3,925.39	3/4	3,732.42	3/4	3,539.45	3/4	3,229.89	3/4	2,871.88	3/4	2,512.76	3/4	2,153.41		
8	8	8	4,292.12	8	4,111.63	8	3,921.37	8	3,728.40	8	3,535.42	8	3,222.46	8	2,864.41	8	2,505.27	8	2,145.92		
1/4	1/4	1/4	4,288.49	1/4	4,107.76	1/4	3,917.35	1/4	3,724.38	1/4	3,531.40	1/4	3,215.02	1/4	2,856.94	1/4	2,497.79	1/4	2,138.43		
1/2	1/2	1/2	4,284.85	1/2	4,103.87	1/2	3,913.33	1/2	3,720.36	1/2	3,527.38	1/2	3,207.58	1/2	2,849.47	1/2	2,490.30	1/2	2,130.95		
3/4	3/4	3/4	4,281.21	3/4	4,099.99	3/4	3,909.31	3/4	3,716.34	3/4	3,523.36	3/4	3,200.14	3/4	2,841.99	3/4	2,482.81	3/4	2,123.46		
9	9	9	4,277.57	9	4,096.10	9	3,905.29	9	3,712.32	9	3,519.34	9	3,192.70	9	2,834.52	9	2,475.33	9	2,115.98		
1/4	1/4	1/4	4,273.93	1/4	4,092.22	1/4	3,901.27	1/4	3,708.30	1/4	3,515.32	1/4	3,185.26	1/4	2,827.05	1/4	2,467.84	1/4	2,108.49		
1/2	1/2	1/2	4,270.23	1/2	4,088.31	1/2	3,897.25	1/2	3,704.28	1/2	3,511.30	1/2	3,177.83	1/2	2,819.58	1/2	2,460.35	1/2	2,101.00		
3/4	3/4	3/4	4,266.53	3/4	4,084.41	3/4	3,893.23	3/4	3,700.26	3/4	3,507.28	3/4	3,170.39	3/4	2,812.11	3/4	2,452.87	3/4	2,093.52		
10	10	10	4,262.84	10	4,080.51	10	3,889.21	10	3,696.24	10	3,503.26	10	3,162.95	10	2,804.63	10	2,445.38	10	2,086.03		
1/4	1/4	1/4	4,259.14	1/4	4,076.61	1/4	3,885.19	1/4	3,692.22	1/4	3,499.24	1/4	3,155.51	1/4	2,797.16	1/4	2,437.89	1/4	2,078.54		
1/2	1/2	1/2	4,255.43	1/2	4,072.69	1/2	3,881.17	1/2	3,688.20	1/2	3,495.22	1/2	3,148.07	1/2	2,789.69	1/2	2,430.41	1/2	2,071.06		
3/4	3/4	3/4	4,251.72	3/4	4,068.78	3/4	3,877.15	3/4	3,684.18	3/4	3,491.20	3/4	3,140.64	3/4	2,782.22	3/4	2,422.92	3/4	2,063.57		
11	11	11	4,248.01	11	4,064.86	11	3,873.13	11	3,680.16	11	3,487.18	11	3,133.20	11	2,774.74	11	2,415.44	11	2,056.08		
1/4	1/4	1/4	4,244.30	1/4	4,060.94	1/4	3,869.11	1/4	3,676.14	1/4	3,483.16	1/4	3,125.76	1/4	2,767.27	1/4	2,407.95	1/4	2,048.60		
1/2	1/2	1/2	4,240.57	1/2	4,057.01	1/2	3,865.09	1/2	3,672.12	1/2	3,475.71	1/2	3,118.29	1/2	2,759.78	1/2	2,400.46	1/2	2,041.11		
3/4	3/4	3/4	4,236.84	3/4	4,053.08	3/4	3,861.07	3/4	3,668.09	3/4	3,468.25	3/4	3,110.82	3/4	2,752.30	3/4	2,392.98	3/4	2,033.62		

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 TO TOP OF 2" HERMETIC CLOSED GAUGING VALVE.
 GAUGE POINT: (HERMETIC) LOCATED 10'-06" 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 "HBC 309"

3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08 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	2,026.14	0	1,666.71	0	1,308.69	0	959.72	0	606.85	0	247.31	0		0		0		0	
1/4	2,018.65	1/4	1,659.22	1/4	1,301.26	1/4	952.57	1/4	599.36	1/4	239.82	1/4		1/4		1/4		1/4	
1/2	2,011.16	1/2	1,651.73	1/2	1,293.84	1/2	945.41	1/2	591.87	1/2	232.33	1/2		1/2		1/2		1/2	
3/4	2,003.67	3/4	1,644.24	3/4	1,286.41	3/4	938.26	3/4	584.38	3/4	224.84	3/4		3/4		3/4		3/4	
1	1,996.19	1	1,636.75	1	1,278.99	1	931.11	1	576.89	1	217.35	1		1		1		1	
1/4	1,988.70	1/4	1,629.26	1/4	1,271.56	1/4	923.96	1/4	569.39	1/4	209.86	1/4		1/4		1/4		1/4	
1/2	1,981.21	1/2	1,621.78	1/2	1,264.13	1/2	916.80	1/2	561.90	1/2	202.37	1/2		1/2		1/2		1/2	
3/4	1,973.72	3/4	1,614.29	3/4	1,256.71	3/4	909.65	3/4	554.41	3/4	194.88	3/4		3/4		3/4		3/4	
2	1,966.23	2	1,606.80	2	1,249.28	2	902.49	2	546.92	2	187.39	2		2		2		2	
1/4	1,958.75	1/4	1,599.31	1/4	1,241.85	1/4	895.34	1/4	539.43	1/4	179.90	1/4		1/4		1/4		1/4	
1/2	1,951.26	1/2	1,591.82	1/2	1,234.44	1/2	888.16	1/2	531.94	1/2	172.41	1/2		1/2		1/2		1/2	
3/4	1,943.77	3/4	1,584.34	3/4	1,227.03	3/4	880.98	3/4	524.45	3/4	164.92	3/4		3/4		3/4		3/4	
3	1,936.28	3	1,576.85	3	1,219.62	3	873.80	3	516.96	3	157.43	3		3		3		3	
1/4	1,928.79	1/4	1,569.36	1/4	1,212.21	1/4	866.62	1/4	509.47	1/4	149.94	1/4		1/4		1/4		1/4	
1/2	1,921.30	1/2	1,561.87	1/2	1,204.81	1/2	859.44	1/2	501.98	1/2	142.46	1/2		1/2		1/2		1/2	
3/4	1,913.82	3/4	1,554.38	3/4	1,197.40	3/4	852.27	3/4	494.49	3/4	134.97	3/4		3/4		3/4		3/4	
4	1,906.33	4	1,546.89	4	1,189.99	4	845.09	4	487.00	4	127.49	4		4		4		4	
1/4	1,898.84	1/4	1,539.41	1/4	1,182.58	1/4	837.91	1/4	479.51	1/4	120.00	1/4		1/4		1/4		1/4	
1/2	1,891.35	1/2	1,531.92	1/2	1,175.15	1/2	830.70	1/2	472.02	1/2	112.54	1/2		1/2		1/2		1/2	
3/4	1,883.86	3/4	1,524.43	3/4	1,167.71	3/4	823.50	3/4	464.53	3/4	105.09	3/4		3/4		3/4		3/4	
5	1,876.38	5	1,516.94	5	1,160.28	5	816.29	5	457.04	5	97.63	5		5		5		5	
1/4	1,868.89	1/4	1,509.45	1/4	1,152.84	1/4	809.08	1/4	449.55	1/4	90.18	1/4		1/4		1/4		1/4	
1/2	1,861.40	1/2	1,501.97	1/2	1,145.69	1/2	801.59	1/2	442.06	1/2	83.32	1/2		1/2		1/2		1/2	
3/4	1,853.91	3/4	1,494.48	3/4	1,138.53	3/4	794.10	3/4	434.57	3/4	76.47	3/4		3/4		3/4		3/4	
6	1,846.42	6	1,486.99	6	1,131.38	6	786.61	6	427.08	6	69.62	6		6		6		6	
1/4	1,838.93	1/4	1,479.50	1/4	1,124.23	1/4	779.12	1/4	419.59	1/4	62.77	1/4		1/4		1/4		1/4	
1/2	1,831.45	1/2	1,472.07	1/2	1,117.08	1/2	771.63	1/2	412.10	1/2	57.15	1/2		1/2		1/2		1/2	
3/4	1,823.96	3/4	1,464.65	3/4	1,109.92	3/4	764.14	3/4	404.61	3/4	51.54	3/4		3/4		3/4		3/4	
7	1,816.47	7	1,457.22	7	1,102.77	7	756.65	7	397.12	7	45.92	7		7		7		7	
1/4	1,808.98	1/4	1,449.79	1/4	1,095.62	1/4	749.16	1/4	389.63	1/4	40.31	1/4		1/4		1/4		1/4	
1/2	1,801.49	1/2	1,442.37	1/2	1,088.47	1/2	741.67	1/2	382.14	1/2	35.93	1/2		1/2		1/2		1/2	
3/4	1,794.00	3/4	1,434.94	3/4	1,081.31	3/4	734.18	3/4	374.65	3/4	31.56	3/4		3/4		3/4		3/4	
8	1,786.52	8	1,427.52	8	1,074.16	8	726.69	8	367.16	8	27.18	8		8		8		8	
1/4	1,779.03	1/4	1,420.09	1/4	1,067.01	1/4	719.20	1/4	359.67	1/4	22.81	1/4		1/4		1/4		1/4	
1/2	1,771.54	1/2	1,412.66	1/2	1,059.86	1/2	711.71	1/2	352.18	1/2		1/2		1/2		1/2		1/2	
3/4	1,764.05	3/4	1,405.24	3/4	1,052.70	3/4	704.22	3/4	344.69	3/4		3/4		3/4		3/4		3/4	
9	1,756.56	9	1,397.81	9	1,045.55	9	696.73	9	337.20	9		9		9		9		9	
1/4	1,749.08	1/4	1,390.38	1/4	1,038.40	1/4	689.24	1/4	329.71	1/4		1/4		1/4		1/4		1/4	
1/2	1,741.59	1/2	1,382.96	1/2	1,031.25	1/2	681.75	1/2	322.22	1/2		1/2		1/2		1/2		1/2	
3/4	1,734.10	3/4	1,375.53	3/4	1,024.09	3/4	674.26	3/4	314.72	3/4		3/4		3/4		3/4		3/4	
10	1,726.61	10	1,368.10	10	1,016.94	10	666.77	10	307.23	10		10		10		10		10	
1/4	1,719.12	1/4	1,360.68	1/4	1,009.79	1/4	659.28	1/4	299.74	1/4		1/4		1/4		1/4		1/4	
1/2	1,711.63	1/2	1,353.25	1/2	1,002.64	1/2	651.79	1/2	292.25	1/2		1/2		1/2		1/2		1/2	
3/4	1,704.15	3/4	1,345.82	3/4	995.48	3/4	644.30	3/4	284.76	3/4		3/4		3/4		3/4		3/4	
11	1,696.66	11	1,338.40	11	988.33	11	636.81	11	277.27	11		11		11		11		11	
1/4	1,689.17	1/4	1,330.97	1/4	981.18	1/4	629.32	1/4	269.78	1/4		1/4		1/4		1/4		1/4	
1/2	1,681.68	1/2	1,323.54	1/2	974.02	1/2	621.83	1/2	262.29	1/2		1/2		1/2		1/2		1/2	
3/4	1,674.19	3/4	1,316.12	3/4	966.87	3/4	614.34	3/4	254.80	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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CANCELS AND SUPERCEDES
ALL PRIOR TO 08/2013

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