



# BARGE "HBC 312"

## INNAGE 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	00-0/8	- 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
1 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
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	00-1/8	- 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
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 INNAGE GAUGE OF 4'-00" ON 1 PORT, THE TRIM CORRECTED INNAGE IS 3'-11 7/8"

LENGTH BETWEEN DRAFT MARKS: 253'-09"

October 10, 2013

PRECISION MEASUREMENT  
& ANALYSIS, INC.

P.O. Box 2092  
Pearland, Texas 77588

<http://www.pmacorp.net>



# BARGE "HBC 312"

## 1 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-09"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	22.96	0	362.61	0	725.13	0	1,087.41	0	1,449.70	0	1,812.24	0	2,174.77	0	2,537.31	0	2,899.74	0	3,262.14
1/4	27.36	1/4	370.17	1/4	732.69	1/4	1,094.95	1/4	1,457.26	1/4	1,819.79	1/4	2,182.32	1/4	2,544.86	1/4	2,907.29	1/4	3,269.69
1/2	31.77	1/2	377.72	1/2	740.24	1/2	1,102.49	1/2	1,464.81	1/2	1,827.34	1/2	2,189.88	1/2	2,552.41	1/2	2,914.84	1/2	3,277.24
3/4	36.17	3/4	385.27	3/4	747.79	3/4	1,110.04	3/4	1,472.36	3/4	1,834.90	3/4	2,197.43	3/4	2,559.96	3/4	2,922.39	3/4	3,284.79
1	40.57	1	392.82	1	755.34	1	1,117.58	1	1,479.91	1	1,842.45	1	2,204.98	1	2,567.52	1	2,929.94	1	3,292.34
1/4	46.24	1/4	400.38	1/4	762.90	1/4	1,125.12	1/4	1,487.47	1/4	1,850.00	1/4	2,212.53	1/4	2,575.07	1/4	2,937.49	1/4	3,299.89
1/2	51.90	1/2	407.93	1/2	770.45	1/2	1,132.66	1/2	1,495.02	1/2	1,857.55	1/2	2,220.09	1/2	2,582.62	1/2	2,945.04	1/2	3,307.44
3/4	57.57	3/4	415.48	3/4	778.00	3/4	1,140.20	3/4	1,502.57	3/4	1,865.11	3/4	2,227.64	3/4	2,590.17	3/4	2,952.59	3/4	3,314.99
2	63.23	2	423.03	2	785.55	2	1,147.74	2	1,510.12	2	1,872.66	2	2,235.19	2	2,597.73	2	2,960.14	2	3,322.54
1/4	70.15	1/4	430.59	1/4	793.11	1/4	1,155.28	1/4	1,517.68	1/4	1,880.21	1/4	2,242.75	1/4	2,605.28	1/4	2,967.69	1/4	3,330.09
1/2	77.07	1/2	438.14	1/2	800.66	1/2	1,162.82	1/2	1,525.23	1/2	1,887.76	1/2	2,250.30	1/2	2,612.83	1/2	2,975.24	1/2	3,337.64
3/4	83.99	3/4	445.69	3/4	808.21	3/4	1,170.36	3/4	1,532.78	3/4	1,895.32	3/4	2,257.85	3/4	2,620.39	3/4	2,982.79	3/4	3,345.19
3	90.91	3	453.24	3	815.76	3	1,177.90	3	1,540.34	3	1,902.87	3	2,265.40	3	2,627.94	3	2,990.34	3	3,352.74
1/4	98.43	1/4	460.80	1/4	823.32	1/4	1,185.44	1/4	1,547.89	1/4	1,910.42	1/4	2,272.96	1/4	2,635.49	1/4	2,997.89	1/4	3,360.29
1/2	105.95	1/2	468.35	1/2	830.87	1/2	1,192.98	1/2	1,555.44	1/2	1,917.98	1/2	2,280.51	1/2	2,643.04	1/2	3,005.44	1/2	3,367.84
3/4	113.46	3/4	475.90	3/4	838.42	3/4	1,200.52	3/4	1,562.99	3/4	1,925.53	3/4	2,288.06	3/4	2,650.59	3/4	3,012.99	3/4	3,375.39
4	120.98	4	483.45	4	845.97	4	1,208.06	4	1,570.55	4	1,933.08	4	2,295.62	4	2,658.14	4	3,020.54	4	3,382.94
1/4	128.52	1/4	491.01	1/4	853.53	1/4	1,215.60	1/4	1,578.10	1/4	1,940.63	1/4	2,303.17	1/4	2,665.69	1/4	3,028.09	1/4	3,390.49
1/2	136.06	1/2	498.56	1/2	861.08	1/2	1,223.14	1/2	1,585.65	1/2	1,948.19	1/2	2,310.72	1/2	2,673.24	1/2	3,035.64	1/2	3,398.04
3/4	143.61	3/4	506.11	3/4	868.63	3/4	1,230.68	3/4	1,593.21	3/4	1,955.74	3/4	2,318.27	3/4	2,680.79	3/4	3,043.19	3/4	3,405.59
5	151.15	5	513.66	5	876.18	5	1,238.22	5	1,600.76	5	1,963.29	5	2,325.83	5	2,688.34	5	3,050.74	5	3,413.14
1/4	158.70	1/4	521.22	1/4	883.74	1/4	1,245.78	1/4	1,608.31	1/4	1,970.85	1/4	2,333.38	1/4	2,695.89	1/4	3,058.29	1/4	3,420.69
1/2	166.25	1/2	528.77	1/2	891.29	1/2	1,253.33	1/2	1,615.86	1/2	1,978.40	1/2	2,340.93	1/2	2,703.44	1/2	3,065.84	1/2	3,428.24
3/4	173.80	3/4	536.32	3/4	898.84	3/4	1,260.88	3/4	1,623.42	3/4	1,985.95	3/4	2,348.49	3/4	2,710.99	3/4	3,073.39	3/4	3,435.79
6	181.35	6	543.87	6	906.39	6	1,268.44	6	1,630.97	6	1,993.50	6	2,356.04	6	2,718.54	6	3,080.94	6	3,443.34
1/4	188.91	1/4	551.43	1/4	913.95	1/4	1,275.99	1/4	1,638.52	1/4	2,001.06	1/4	2,363.59	1/4	2,726.09	1/4	3,088.49	1/4	3,450.89
1/2	196.46	1/2	558.98	1/2	921.50	1/2	1,283.54	1/2	1,646.08	1/2	2,008.61	1/2	2,371.14	1/2	2,733.64	1/2	3,096.04	1/2	3,458.44
3/4	204.01	3/4	566.53	3/4	929.05	3/4	1,291.09	3/4	1,653.63	3/4	2,016.16	3/4	2,378.70	3/4	2,741.19	3/4	3,103.59	3/4	3,465.99
7	211.56	7	574.08	7	936.60	7	1,298.65	7	1,661.18	7	2,023.72	7	2,386.25	7	2,748.74	7	3,111.14	7	3,473.54
1/4	219.12	1/4	581.64	1/4	944.14	1/4	1,306.20	1/4	1,668.73	1/4	2,031.27	1/4	2,393.80	1/4	2,756.29	1/4	3,118.69	1/4	3,481.09
1/2	226.67	1/2	589.19	1/2	951.68	1/2	1,313.75	1/2	1,676.29	1/2	2,038.82	1/2	2,401.35	1/2	2,763.84	1/2	3,126.24	1/2	3,488.64
3/4	234.22	3/4	596.74	3/4	959.23	3/4	1,321.30	3/4	1,683.84	3/4	2,046.37	3/4	2,408.91	3/4	2,771.39	3/4	3,133.79	3/4	3,496.19
8	241.77	8	604.29	8	966.77	8	1,328.86	8	1,691.39	8	2,053.93	8	2,416.46	8	2,778.94	8	3,141.34	8	3,503.74
1/4	249.33	1/4	611.85	1/4	974.31	1/4	1,336.41	1/4	1,698.94	1/4	2,061.48	1/4	2,424.01	1/4	2,786.49	1/4	3,148.89	1/4	3,511.29
1/2	256.88	1/2	619.40	1/2	981.85	1/2	1,343.96	1/2	1,706.50	1/2	2,069.03	1/2	2,431.57	1/2	2,794.04	1/2	3,156.44	1/2	3,518.84
3/4	264.43	3/4	626.95	3/4	989.39	3/4	1,351.52	3/4	1,714.05	3/4	2,076.58	3/4	2,439.12	3/4	2,801.59	3/4	3,163.99	3/4	3,526.39
9	271.98	9	634.50	9	996.93	9	1,359.07	9	1,721.60	9	2,084.14	9	2,446.67	9	2,809.14	9	3,171.54	9	3,533.94
1/4	279.54	1/4	642.06	1/4	1,004.47	1/4	1,366.62	1/4	1,729.16	1/4	2,091.69	1/4	2,454.22	1/4	2,816.69	1/4	3,179.09	1/4	3,541.49
1/2	287.09	1/2	649.61	1/2	1,012.01	1/2	1,374.17	1/2	1,736.71	1/2	2,099.24	1/2	2,461.78	1/2	2,824.24	1/2	3,186.64	1/2	3,549.04
3/4	294.64	3/4	657.16	3/4	1,019.55	3/4	1,381.73	3/4	1,744.26	3/4	2,106.80	3/4	2,469.33	3/4	2,831.79	3/4	3,194.19	3/4	3,556.59
10	302.19	10	664.71	10	1,027.09	10	1,389.28	10	1,751.81	10	2,114.35	10	2,476.88	10	2,839.34	10	3,201.74	10	3,564.14
1/4	309.75	1/4	672.27	1/4	1,034.63	1/4	1,396.83	1/4	1,759.37	1/4	2,121.90	1/4	2,484.44	1/4	2,846.89	1/4	3,209.29	1/4	3,571.69
1/2	317.30	1/2	679.82	1/2	1,042.17	1/2	1,404.39	1/2	1,766.92	1/2	2,129.45	1/2	2,491.99	1/2	2,854.44	1/2	3,216.84	1/2	3,579.24
3/4	324.85	3/4	687.37	3/4	1,049.71	3/4	1,411.94	3/4	1,774.47	3/4	2,137.01	3/4	2,499.54	3/4	2,861.99	3/4	3,224.39	3/4	3,586.79
11	332.40	11	694.92	11	1,057.25	11	1,419.49	11	1,782.03	11	2,144.56	11	2,507.09	11	2,869.54	11	3,231.94	11	3,594.34
1/4	339.96	1/4	702.48	1/4	1,064.79	1/4	1,427.04	1/4	1,789.58	1/4	2,152.11	1/4	2,514.65	1/4	2,877.09	1/4	3,239.49	1/4	3,601.89
1/2	347.51	1/2	710.03	1/2	1,072.33	1/2	1,434.60	1/2	1,797.13	1/2	2,159.67	1/2	2,522.20	1/2	2,884.64	1/2	3,247.04	1/2	3,609.44
3/4	355.06	3/4	717.58	3/4	1,079.87	3/4	1,442.15	3/4	1,804.68	3/4	2,167.22	3/4	2,529.75	3/4	2,892.19	3/4	3,254.59	3/4	3,616.99

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

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# BARGE "HBC 312"

## 1 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GUAGE HEIGHT 15'-09"

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	3,624.54	0	3,986.94	0	4,349.34	0	4,706.91	0	5,046.27	0		0		0		0		0	
1/4	3,632.09	1/4	3,994.49	1/4	4,356.89	1/4	4,714.17	1/4	5,053.08	1/4		1/4		1/4		1/4		1/4	
1/2	3,639.64	1/2	4,002.04	1/2	4,364.44	1/2	4,721.44	1/2	5,059.89	1/2		1/2		1/2		1/2		1/2	
3/4	3,647.19	3/4	4,009.59	3/4	4,371.99	3/4	4,728.71	3/4	5,066.70	3/4		3/4		3/4		3/4		3/4	
1	3,654.74	1	4,017.14	1	4,379.54	1	4,735.97	1	5,073.51	1		1		1		1		1	
1/4	3,662.29	1/4	4,024.69	1/4	4,387.09	1/4	4,743.18	1/4	5,080.29	1/4		1/4		1/4		1/4		1/4	
1/2	3,669.84	1/2	4,032.24	1/2	4,394.64	1/2	4,750.39	1/2	5,087.07	1/2		1/2		1/2		1/2		1/2	
3/4	3,677.39	3/4	4,039.79	3/4	4,402.19	3/4	4,757.59	3/4	5,093.85	3/4		3/4		3/4		3/4		3/4	
2	3,684.94	2	4,047.34	2	4,409.74	2	4,764.80	2	5,100.63	2		2		2		2		2	
1/4	3,692.49	1/4	4,054.89	1/4	4,417.29	1/4	4,771.98	1/4	5,107.37	1/4		1/4		1/4		1/4		1/4	
1/2	3,700.04	1/2	4,062.44	1/2	4,424.84	1/2	4,779.16	1/2	5,114.12	1/2		1/2		1/2		1/2		1/2	
3/4	3,707.59	3/4	4,069.99	3/4	4,432.39	3/4	4,786.33	3/4	5,120.87	3/4		3/4		3/4		3/4		3/4	
3	3,715.14	3	4,077.54	3	4,439.94	3	4,793.51	3	5,127.62	3		3		3		3		3	
1/4	3,722.69	1/4	4,085.09	1/4	4,447.48	1/4	4,800.66	1/4	5,134.33	1/4		1/4		1/4		1/4		1/4	
1/2	3,730.24	1/2	4,092.64	1/2	4,455.01	1/2	4,807.81	1/2	5,141.04	1/2		1/2		1/2		1/2		1/2	
3/4	3,737.79	3/4	4,100.19	3/4	4,462.55	3/4	4,814.95	3/4	5,147.75	3/4		3/4		3/4		3/4		3/4	
4	3,745.34	4	4,107.74	4	4,470.08	4	4,822.10	4	5,154.46	4		4		4		4		4	
1/4	3,752.89	1/4	4,115.29	1/4	4,477.59	1/4	4,829.22	1/4	5,161.11	1/4		1/4		1/4		1/4		1/4	
1/2	3,760.44	1/2	4,122.84	1/2	4,485.09	1/2	4,836.34	1/2	5,167.77	1/2		1/2		1/2		1/2		1/2	
3/4	3,767.99	3/4	4,130.39	3/4	4,492.60	3/4	4,843.46	3/4	5,174.42	3/4		3/4		3/4		3/4		3/4	
5	3,775.54	5	4,137.94	5	4,500.11	5	4,850.57	5	5,181.08	5		5		5		5		5	
1/4	3,783.09	1/4	4,145.49	1/4	4,507.58	1/4	4,857.66	1/4	5,187.11	1/4		1/4		1/4		1/4		1/4	
1/2	3,790.64	1/2	4,153.04	1/2	4,515.06	1/2	4,864.75	1/2	5,193.14	1/2		1/2		1/2		1/2		1/2	
3/4	3,798.19	3/4	4,160.59	3/4	4,522.53	3/4	4,871.84	3/4	5,199.16	3/4		3/4		3/4		3/4		3/4	
6	3,805.74	6	4,168.14	6	4,530.01	6	4,878.93	6	5,205.19	6		6		6		6		6	
1/4	3,813.29	1/4	4,175.69	1/4	4,537.45	1/4	4,885.98	1/4	5,210.76	1/4		1/4		1/4		1/4		1/4	
1/2	3,820.84	1/2	4,183.24	1/2	4,544.90	1/2	4,893.04	1/2	5,216.32	1/2		1/2		1/2		1/2		1/2	
3/4	3,828.39	3/4	4,190.79	3/4	4,552.34	3/4	4,900.10	3/4	5,221.88	3/4		3/4		3/4		3/4		3/4	
7	3,835.94	7	4,198.34	7	4,559.79	7	4,907.16	7	5,227.44	7		7		7		7		7	
1/4	3,843.49	1/4	4,205.89	1/4	4,567.20	1/4	4,914.19	1/4	5,231.78	1/4		1/4		1/4		1/4		1/4	
1/2	3,851.04	1/2	4,213.44	1/2	4,574.62	1/2	4,921.21	1/2	5,236.11	1/2		1/2		1/2		1/2		1/2	
3/4	3,858.59	3/4	4,220.99	3/4	4,582.04	3/4	4,928.24	3/4	5,240.44	3/4		3/4		3/4		3/4		3/4	
8	3,866.14	8	4,228.54	8	4,589.45	8	4,935.27	8	5,244.78	8		8		8		8		8	
1/4	3,873.69	1/4	4,236.09	1/4	4,596.84	1/4	4,942.27	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,881.24	1/2	4,243.64	1/2	4,604.22	1/2	4,949.27	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,888.79	3/4	4,251.19	3/4	4,611.61	3/4	4,956.27	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,896.34	9	4,258.74	9	4,618.99	9	4,963.26	9		9		9		9		9		9	
1/4	3,903.89	1/4	4,266.29	1/4	4,626.35	1/4	4,970.23	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,911.44	1/2	4,273.84	1/2	4,633.71	1/2	4,977.21	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,918.99	3/4	4,281.39	3/4	4,641.06	3/4	4,984.18	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,926.54	10	4,288.94	10	4,648.42	10	4,991.15	10		10		10		10		10		10	
1/4	3,934.09	1/4	4,296.49	1/4	4,655.74	1/4	4,998.09	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,941.64	1/2	4,304.04	1/2	4,663.07	1/2	5,005.03	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,949.19	3/4	4,311.59	3/4	4,670.40	3/4	5,011.97	3/4		3/4		3/4		3/4		3/4		3/4	
11	3,956.74	11	4,319.14	11	4,677.72	11	5,018.91	11		11		11		11		11		11	
1/4	3,964.29	1/4	4,326.69	1/4	4,685.02	1/4	5,025.75	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,971.84	1/2	4,334.24	1/2	4,692.31	1/2	5,032.59	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,979.39	3/4	4,341.79	3/4	4,699.61	3/4	5,039.43	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 10/09/2013 CL  
CALCULATED: 10/10/2013 CL  
PRINTED: 10/10/2013 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 10/2013

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



# BARGE "HBC 312"

## 1 STBD INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08 3/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	22.96	0	362.61	0	725.13	0	1,086.47	0	1,447.80	0	1,810.34	0	2,172.87	0	2,535.41	0	2,897.84	0	3,260.24
1/4	27.36	1/4	370.17	1/4	732.69	1/4	1,093.97	1/4	1,455.36	1/4	1,817.89	1/4	2,180.43	1/4	2,542.96	1/4	2,905.39	1/4	3,267.79
1/2	31.77	1/2	377.72	1/2	740.24	1/2	1,101.47	1/2	1,462.91	1/2	1,825.44	1/2	2,187.98	1/2	2,550.51	1/2	2,912.94	1/2	3,275.34
3/4	36.17	3/4	385.27	3/4	747.79	3/4	1,108.97	3/4	1,470.46	3/4	1,833.00	3/4	2,195.53	3/4	2,558.07	3/4	2,920.49	3/4	3,282.89
1	40.57	1	392.82	1	755.34	1	1,116.47	1	1,478.02	1	1,840.55	1	2,203.08	1	2,565.62	1	2,928.04	1	3,290.44
1/4	46.24	1/4	400.38	1/4	762.90	1/4	1,123.97	1/4	1,485.57	1/4	1,848.10	1/4	2,210.64	1/4	2,573.17	1/4	2,935.59	1/4	3,297.99
1/2	51.90	1/2	407.93	1/2	770.45	1/2	1,131.47	1/2	1,493.12	1/2	1,855.66	1/2	2,218.19	1/2	2,580.72	1/2	2,943.14	1/2	3,305.54
3/4	57.57	3/4	415.48	3/4	778.00	3/4	1,138.97	3/4	1,500.67	3/4	1,863.21	3/4	2,225.74	3/4	2,588.28	3/4	2,950.69	3/4	3,313.09
2	63.23	2	423.03	2	785.55	2	1,146.47	2	1,508.23	2	1,870.76	2	2,233.30	2	2,595.83	2	2,958.24	2	3,320.64
1/4	70.15	1/4	430.59	1/4	793.11	1/4	1,153.97	1/4	1,515.78	1/4	1,878.31	1/4	2,240.85	1/4	2,603.38	1/4	2,965.79	1/4	3,328.19
1/2	77.07	1/2	438.14	1/2	800.66	1/2	1,161.48	1/2	1,523.33	1/2	1,885.87	1/2	2,248.40	1/2	2,610.94	1/2	2,973.34	1/2	3,335.74
3/4	83.99	3/4	445.69	3/4	808.21	3/4	1,168.98	3/4	1,530.89	3/4	1,893.42	3/4	2,255.95	3/4	2,618.49	3/4	2,980.89	3/4	3,343.29
3	90.91	3	453.24	3	815.76	3	1,176.48	3	1,538.44	3	1,900.97	3	2,263.51	3	2,626.04	3	2,988.44	3	3,350.84
1/4	98.43	1/4	460.80	1/4	823.32	1/4	1,183.98	1/4	1,545.99	1/4	1,908.53	1/4	2,271.06	1/4	2,633.59	1/4	2,995.99	1/4	3,358.39
1/2	105.95	1/2	468.35	1/2	830.87	1/2	1,191.48	1/2	1,553.54	1/2	1,916.08	1/2	2,278.61	1/2	2,641.14	1/2	3,003.54	1/2	3,365.94
3/4	113.46	3/4	475.90	3/4	838.42	3/4	1,198.98	3/4	1,561.10	3/4	1,923.63	3/4	2,286.17	3/4	2,648.69	3/4	3,011.09	3/4	3,373.49
4	120.98	4	483.45	4	845.97	4	1,206.48	4	1,568.65	4	1,931.18	4	2,293.72	4	2,656.24	4	3,018.64	4	3,381.04
1/4	128.52	1/4	491.01	1/4	853.53	1/4	1,213.98	1/4	1,576.20	1/4	1,938.74	1/4	2,301.27	1/4	2,663.79	1/4	3,026.19	1/4	3,388.59
1/2	136.06	1/2	498.56	1/2	861.08	1/2	1,221.48	1/2	1,583.76	1/2	1,946.29	1/2	2,308.82	1/2	2,671.34	1/2	3,033.74	1/2	3,396.14
3/4	143.61	3/4	506.11	3/4	868.63	3/4	1,228.98	3/4	1,591.31	3/4	1,953.84	3/4	2,316.38	3/4	2,678.89	3/4	3,041.29	3/4	3,403.69
5	151.15	5	513.66	5	876.18	5	1,236.49	5	1,598.86	5	1,961.40	5	2,323.93	5	2,686.44	5	3,048.84	5	3,411.24
1/4	158.70	1/4	521.22	1/4	883.74	1/4	1,244.00	1/4	1,606.41	1/4	1,968.95	1/4	2,331.48	1/4	2,693.99	1/4	3,056.39	1/4	3,418.79
1/2	166.25	1/2	528.77	1/2	891.29	1/2	1,251.51	1/2	1,613.97	1/2	1,976.50	1/2	2,339.04	1/2	2,701.54	1/2	3,063.94	1/2	3,426.34
3/4	173.80	3/4	536.32	3/4	898.84	3/4	1,259.02	3/4	1,621.52	3/4	1,984.05	3/4	2,346.59	3/4	2,709.09	3/4	3,071.49	3/4	3,433.89
6	181.35	6	543.87	6	906.39	6	1,266.54	6	1,629.07	6	1,991.61	6	2,354.14	6	2,716.64	6	3,079.04	6	3,441.44
1/4	188.91	1/4	551.43	1/4	913.91	1/4	1,274.09	1/4	1,636.62	1/4	1,999.16	1/4	2,361.69	1/4	2,724.19	1/4	3,086.59	1/4	3,448.99
1/2	196.46	1/2	558.98	1/2	921.42	1/2	1,281.64	1/2	1,644.18	1/2	2,006.71	1/2	2,369.25	1/2	2,731.74	1/2	3,094.14	1/2	3,456.54
3/4	204.01	3/4	566.53	3/4	928.93	3/4	1,289.20	3/4	1,651.73	3/4	2,014.26	3/4	2,376.80	3/4	2,739.29	3/4	3,101.69	3/4	3,464.09
7	211.56	7	574.08	7	936.45	7	1,296.75	7	1,659.28	7	2,021.82	7	2,384.35	7	2,746.84	7	3,109.24	7	3,471.64
1/4	219.12	1/4	581.64	1/4	943.95	1/4	1,304.30	1/4	1,666.84	1/4	2,029.37	1/4	2,391.90	1/4	2,754.39	1/4	3,116.79	1/4	3,479.19
1/2	226.67	1/2	589.19	1/2	951.45	1/2	1,311.85	1/2	1,674.39	1/2	2,036.92	1/2	2,399.46	1/2	2,761.94	1/2	3,124.34	1/2	3,486.74
3/4	234.22	3/4	596.74	3/4	958.95	3/4	1,319.41	3/4	1,681.94	3/4	2,044.48	3/4	2,407.01	3/4	2,769.49	3/4	3,131.89	3/4	3,494.29
8	241.77	8	604.29	8	966.45	8	1,326.96	8	1,689.49	8	2,052.03	8	2,414.56	8	2,777.04	8	3,139.44	8	3,501.84
1/4	249.33	1/4	611.85	1/4	973.95	1/4	1,334.51	1/4	1,697.05	1/4	2,059.58	1/4	2,422.12	1/4	2,784.59	1/4	3,146.99	1/4	3,509.39
1/2	256.88	1/2	619.40	1/2	981.45	1/2	1,342.07	1/2	1,704.60	1/2	2,067.13	1/2	2,429.67	1/2	2,792.14	1/2	3,154.54	1/2	3,516.94
3/4	264.43	3/4	626.95	3/4	988.95	3/4	1,349.62	3/4	1,712.15	3/4	2,074.69	3/4	2,437.22	3/4	2,799.69	3/4	3,162.09	3/4	3,524.49
9	271.98	9	634.50	9	996.45	9	1,357.17	9	1,719.71	9	2,082.24	9	2,444.77	9	2,807.24	9	3,169.64	9	3,532.04
1/4	279.54	1/4	642.06	1/4	1,003.95	1/4	1,364.72	1/4	1,727.26	1/4	2,089.79	1/4	2,452.33	1/4	2,814.79	1/4	3,177.19	1/4	3,539.59
1/2	287.09	1/2	649.61	1/2	1,011.46	1/2	1,372.28	1/2	1,734.81	1/2	2,097.35	1/2	2,459.88	1/2	2,822.34	1/2	3,184.74	1/2	3,547.14
3/4	294.64	3/4	657.16	3/4	1,018.96	3/4	1,379.83	3/4	1,742.36	3/4	2,104.90	3/4	2,467.43	3/4	2,829.89	3/4	3,192.29	3/4	3,554.69
10	302.19	10	664.71	10	1,026.46	10	1,387.38	10	1,749.92	10	2,112.45	10	2,474.99	10	2,837.44	10	3,199.84	10	3,562.24
1/4	309.75	1/4	672.27	1/4	1,033.96	1/4	1,394.94	1/4	1,757.47	1/4	2,120.00	1/4	2,482.54	1/4	2,844.99	1/4	3,207.39	1/4	3,569.79
1/2	317.30	1/2	679.82	1/2	1,041.46	1/2	1,402.49	1/2	1,765.02	1/2	2,127.56	1/2	2,490.09	1/2	2,852.54	1/2	3,214.94	1/2	3,577.34
3/4	324.85	3/4	687.37	3/4	1,048.96	3/4	1,410.04	3/4	1,772.58	3/4	2,135.11	3/4	2,497.64	3/4	2,860.09	3/4	3,222.49	3/4	3,584.89
11	332.40	11	694.92	11	1,056.46	11	1,417.59	11	1,780.13	11	2,142.66	11	2,505.20	11	2,867.64	11	3,230.04	11	3,592.44
1/4	339.96	1/4	702.48	1/4	1,063.96	1/4	1,425.15	1/4	1,787.68	1/4	2,150.22	1/4	2,512.75	1/4	2,875.19	1/4	3,237.59	1/4	3,599.99
1/2	347.51	1/2	710.03	1/2	1,071.46	1/2	1,432.70	1/2	1,795.23	1/2	2,157.77	1/2	2,520.30	1/2	2,882.74	1/2	3,245.14	1/2	3,607.54
3/4	355.06	3/4	717.58	3/4	1,078.96	3/4	1,440.25	3/4	1,802.79	3/4	2,165.32	3/4	2,527.86	3/4	2,890.29	3/4	3,252.69	3/4	3,615.09

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 INNAGE GAUGES TAKEN TO TOP OF 2" HERMETIC CLOSED GAUGING VALVE.  
 GAUGE POINT: (HERMETIC) LOCATED 10'-06" 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 "HBC 312"

**1 STBD  
INNAGE 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.	
0	3,622.64	0	3,985.04	0	4,347.44	0	4,705.01	0	5,044.37	0		0		0		0		0	
1/4	3,630.19	1/4	3,992.59	1/4	4,354.99	1/4	4,712.27	1/4	5,051.18	1/4		1/4		1/4		1/4		1/4	
1/2	3,637.74	1/2	4,000.14	1/2	4,362.54	1/2	4,719.54	1/2	5,057.99	1/2		1/2		1/2		1/2		1/2	
3/4	3,645.29	3/4	4,007.69	3/4	4,370.09	3/4	4,726.81	3/4	5,064.80	3/4		3/4		3/4		3/4		3/4	
1	3,652.84	1	4,015.24	1	4,377.64	1	4,734.07	1	5,071.61	1		1		1		1		1	
1/4	3,660.39	1/4	4,022.79	1/4	4,385.19	1/4	4,741.28	1/4	5,078.39	1/4		1/4		1/4		1/4		1/4	
1/2	3,667.94	1/2	4,030.34	1/2	4,392.74	1/2	4,748.49	1/2	5,085.17	1/2		1/2		1/2		1/2		1/2	
3/4	3,675.49	3/4	4,037.89	3/4	4,400.29	3/4	4,755.70	3/4	5,091.95	3/4		3/4		3/4		3/4		3/4	
2	3,683.04	2	4,045.44	2	4,407.84	2	4,762.90	2	5,098.73	2		2		2		2		2	
1/4	3,690.59	1/4	4,052.99	1/4	4,415.39	1/4	4,770.08	1/4	5,105.47	1/4		1/4		1/4		1/4		1/4	
1/2	3,698.14	1/2	4,060.54	1/2	4,422.94	1/2	4,777.26	1/2	5,112.22	1/2		1/2		1/2		1/2		1/2	
3/4	3,705.69	3/4	4,068.09	3/4	4,430.49	3/4	4,784.44	3/4	5,118.97	3/4		3/4		3/4		3/4		3/4	
3	3,713.24	3	4,075.64	3	4,438.04	3	4,791.61	3	5,125.72	3		3		3		3		3	
1/4	3,720.79	1/4	4,083.19	1/4	4,445.58	1/4	4,798.76	1/4	5,132.43	1/4		1/4		1/4		1/4		1/4	
1/2	3,728.34	1/2	4,090.74	1/2	4,453.11	1/2	4,805.91	1/2	5,139.14	1/2		1/2		1/2		1/2		1/2	
3/4	3,735.89	3/4	4,098.29	3/4	4,460.65	3/4	4,813.06	3/4	5,145.85	3/4		3/4		3/4		3/4		3/4	
4	3,743.44	4	4,105.84	4	4,468.19	4	4,820.20	4	5,152.56	4		4		4		4		4	
1/4	3,750.99	1/4	4,113.39	1/4	4,475.69	1/4	4,827.32	1/4	5,159.21	1/4		1/4		1/4		1/4		1/4	
1/2	3,758.54	1/2	4,120.94	1/2	4,483.20	1/2	4,834.44	1/2	5,165.87	1/2		1/2		1/2		1/2		1/2	
3/4	3,766.09	3/4	4,128.49	3/4	4,490.70	3/4	4,841.56	3/4	5,172.52	3/4		3/4		3/4		3/4		3/4	
5	3,773.64	5	4,136.04	5	4,498.21	5	4,848.67	5	5,179.18	5		5		5		5		5	
1/4	3,781.19	1/4	4,143.59	1/4	4,505.68	1/4	4,855.76	1/4	5,185.20	1/4		1/4		1/4		1/4		1/4	
1/2	3,788.74	1/2	4,151.14	1/2	4,513.16	1/2	4,862.85	1/2	5,191.23	1/2		1/2		1/2		1/2		1/2	
3/4	3,796.29	3/4	4,158.69	3/4	4,520.63	3/4	4,869.94	3/4	5,197.26	3/4		3/4		3/4		3/4		3/4	
6	3,803.84	6	4,166.24	6	4,528.11	6	4,877.03	6	5,203.29	6		6		6		6		6	
1/4	3,811.39	1/4	4,173.79	1/4	4,535.55	1/4	4,884.08	1/4	5,208.85	1/4		1/4		1/4		1/4		1/4	
1/2	3,818.94	1/2	4,181.34	1/2	4,543.00	1/2	4,891.14	1/2	5,214.42	1/2		1/2		1/2		1/2		1/2	
3/4	3,826.49	3/4	4,188.89	3/4	4,550.44	3/4	4,898.20	3/4	5,219.98	3/4		3/4		3/4		3/4		3/4	
7	3,834.04	7	4,196.44	7	4,557.89	7	4,905.26	7	5,225.54	7		7		7		7		7	
1/4	3,841.59	1/4	4,203.99	1/4	4,565.31	1/4	4,912.29	1/4	5,229.87	1/4		1/4		1/4		1/4		1/4	
1/2	3,849.14	1/2	4,211.54	1/2	4,572.72	1/2	4,919.31	1/2	5,234.21	1/2		1/2		1/2		1/2		1/2	
3/4	3,856.69	3/4	4,219.09	3/4	4,580.14	3/4	4,926.34	3/4	5,238.54	3/4		3/4		3/4		3/4		3/4	
8	3,864.24	8	4,226.64	8	4,587.55	8	4,933.37	8	5,242.87	8		8		8		8		8	
1/4	3,871.79	1/4	4,234.19	1/4	4,594.94	1/4	4,940.37	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,879.34	1/2	4,241.74	1/2	4,602.32	1/2	4,947.37	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,886.89	3/4	4,249.29	3/4	4,609.71	3/4	4,954.37	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,894.44	9	4,256.84	9	4,617.10	9	4,961.36	9		9		9		9		9		9	
1/4	3,901.99	1/4	4,264.39	1/4	4,624.45	1/4	4,968.33	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,909.54	1/2	4,271.94	1/2	4,631.81	1/2	4,975.31	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,917.09	3/4	4,279.49	3/4	4,639.16	3/4	4,982.28	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,924.64	10	4,287.04	10	4,646.52	10	4,989.25	10		10		10		10		10		10	
1/4	3,932.19	1/4	4,294.59	1/4	4,653.85	1/4	4,996.19	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,939.74	1/2	4,302.14	1/2	4,661.17	1/2	5,003.13	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,947.29	3/4	4,309.69	3/4	4,668.50	3/4	5,010.07	3/4		3/4		3/4		3/4		3/4		3/4	
11	3,954.84	11	4,317.24	11	4,675.82	11	5,017.01	11		11		11		11		11		11	
1/4	3,962.39	1/4	4,324.79	1/4	4,683.12	1/4	5,023.85	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,969.94	1/2	4,332.34	1/2	4,690.42	1/2	5,030.69	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,977.49	3/4	4,339.89	3/4	4,697.71	3/4	5,037.53	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 10/09/2013 CL  
CALCULATED: 10/10/2013 CL  
PRINTED: 10/10/2013 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 10/2013

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



# BARGE "HBC 312"

## 2 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08 3/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	22.89	0	361.57	0	723.05	0	1,084.29	0	1,445.53	0	1,807.02	0	2,168.50	0	2,529.99	0	2,891.38	0	3,252.74
1/4	27.28	1/4	369.10	1/4	730.58	1/4	1,091.81	1/4	1,453.06	1/4	1,814.55	1/4	2,176.04	1/4	2,537.52	1/4	2,898.91	1/4	3,260.27
1/2	31.67	1/2	376.63	1/2	738.11	1/2	1,099.32	1/2	1,460.59	1/2	1,822.08	1/2	2,183.57	1/2	2,545.05	1/2	2,906.44	1/2	3,267.80
3/4	36.07	3/4	384.16	3/4	745.64	3/4	1,106.84	3/4	1,468.12	3/4	1,829.61	3/4	2,191.10	3/4	2,552.59	3/4	2,913.97	3/4	3,275.33
1	40.46	1	391.69	1	753.17	1	1,114.36	1	1,475.65	1	1,837.14	1	2,198.63	1	2,560.12	1	2,921.50	1	3,282.85
1/4	46.11	1/4	399.23	1/4	760.70	1/4	1,121.88	1/4	1,483.18	1/4	1,844.67	1/4	2,206.16	1/4	2,567.65	1/4	2,929.02	1/4	3,290.38
1/2	51.75	1/2	406.76	1/2	768.23	1/2	1,129.40	1/2	1,490.71	1/2	1,852.20	1/2	2,213.69	1/2	2,575.18	1/2	2,936.55	1/2	3,297.91
3/4	57.40	3/4	414.29	3/4	775.77	3/4	1,136.92	3/4	1,498.25	3/4	1,859.73	3/4	2,221.22	3/4	2,582.71	3/4	2,944.08	3/4	3,305.44
2	63.05	2	421.82	2	783.30	2	1,144.44	2	1,505.78	2	1,867.26	2	2,228.75	2	2,590.24	2	2,951.61	2	3,312.97
1/4	69.95	1/4	429.35	1/4	790.83	1/4	1,151.95	1/4	1,513.31	1/4	1,874.80	1/4	2,236.28	1/4	2,597.77	1/4	2,959.14	1/4	3,320.50
1/2	76.85	1/2	436.88	1/2	798.36	1/2	1,159.47	1/2	1,520.84	1/2	1,882.33	1/2	2,243.81	1/2	2,605.30	1/2	2,966.67	1/2	3,328.02
3/4	83.75	3/4	444.41	3/4	805.89	3/4	1,166.99	3/4	1,528.37	3/4	1,889.86	3/4	2,251.35	3/4	2,612.83	3/4	2,974.19	3/4	3,335.55
3	90.65	3	451.94	3	813.42	3	1,174.51	3	1,535.90	3	1,897.39	3	2,258.88	3	2,620.36	3	2,981.72	3	3,343.08
1/4	98.15	1/4	459.47	1/4	820.95	1/4	1,182.03	1/4	1,543.43	1/4	1,904.92	1/4	2,266.41	1/4	2,627.89	1/4	2,989.25	1/4	3,350.61
1/2	105.64	1/2	467.00	1/2	828.48	1/2	1,189.55	1/2	1,550.96	1/2	1,912.45	1/2	2,273.94	1/2	2,635.42	1/2	2,996.78	1/2	3,358.14
3/4	113.14	3/4	474.53	3/4	836.01	3/4	1,197.07	3/4	1,558.49	3/4	1,919.98	3/4	2,281.47	3/4	2,642.95	3/4	3,004.31	3/4	3,365.67
4	120.63	4	482.06	4	843.54	4	1,204.59	4	1,566.02	4	1,927.51	4	2,289.00	4	2,650.48	4	3,011.84	4	3,373.19
1/4	128.15	1/4	489.60	1/4	851.07	1/4	1,212.10	1/4	1,573.56	1/4	1,935.04	1/4	2,296.53	1/4	2,658.01	1/4	3,019.36	1/4	3,380.72
1/2	135.67	1/2	497.13	1/2	858.60	1/2	1,219.62	1/2	1,581.09	1/2	1,942.57	1/2	2,304.06	1/2	2,665.53	1/2	3,026.89	1/2	3,388.25
3/4	143.19	3/4	504.66	3/4	866.14	3/4	1,227.14	3/4	1,588.62	3/4	1,950.11	3/4	2,311.59	3/4	2,673.06	3/4	3,034.42	3/4	3,395.78
5	150.71	5	512.19	5	873.67	5	1,234.66	5	1,596.15	5	1,957.64	5	2,319.12	5	2,680.59	5	3,041.95	5	3,403.31
1/4	158.24	1/4	519.72	1/4	881.20	1/4	1,242.19	1/4	1,603.68	1/4	1,965.17	1/4	2,326.66	1/4	2,688.12	1/4	3,049.48	1/4	3,410.84
1/2	165.77	1/2	527.25	1/2	888.73	1/2	1,249.72	1/2	1,611.21	1/2	1,972.70	1/2	2,334.19	1/2	2,695.65	1/2	3,057.01	1/2	3,418.36
3/4	173.30	3/4	534.78	3/4	896.26	3/4	1,257.25	3/4	1,618.74	3/4	1,980.23	3/4	2,341.72	3/4	2,703.18	3/4	3,064.53	3/4	3,425.89
6	180.83	6	542.31	6	903.79	6	1,264.78	6	1,626.27	6	1,987.76	6	2,349.25	6	2,710.70	6	3,072.06	6	3,433.42
1/4	188.36	1/4	549.84	1/4	911.32	1/4	1,272.32	1/4	1,633.80	1/4	1,995.29	1/4	2,356.78	1/4	2,718.23	1/4	3,079.59	1/4	3,440.95
1/2	195.89	1/2	557.37	1/2	918.85	1/2	1,279.85	1/2	1,641.33	1/2	2,002.82	1/2	2,364.31	1/2	2,725.76	1/2	3,087.12	1/2	3,448.48
3/4	203.42	3/4	564.90	3/4	926.38	3/4	1,287.38	3/4	1,648.87	3/4	2,010.35	3/4	2,371.84	3/4	2,733.29	3/4	3,094.65	3/4	3,456.01
7	210.96	7	572.43	7	933.91	7	1,294.91	7	1,656.40	7	2,017.88	7	2,379.37	7	2,740.82	7	3,102.18	7	3,463.53
1/4	218.49	1/4	579.96	1/4	941.43	1/4	1,302.44	1/4	1,663.93	1/4	2,025.42	1/4	2,386.90	1/4	2,748.35	1/4	3,109.70	1/4	3,471.06
1/2	226.02	1/2	587.50	1/2	948.95	1/2	1,309.97	1/2	1,671.46	1/2	2,032.95	1/2	2,394.43	1/2	2,755.87	1/2	3,117.23	1/2	3,478.59
3/4	233.55	3/4	595.03	3/4	956.47	3/4	1,317.50	3/4	1,678.99	3/4	2,040.48	3/4	2,401.97	3/4	2,763.40	3/4	3,124.76	3/4	3,486.12
8	241.08	8	602.56	8	963.99	8	1,325.03	8	1,686.52	8	2,048.01	8	2,409.50	8	2,770.93	8	3,132.29	8	3,493.65
1/4	248.61	1/4	610.09	1/4	971.51	1/4	1,332.56	1/4	1,694.05	1/4	2,055.54	1/4	2,417.03	1/4	2,778.46	1/4	3,139.82	1/4	3,501.18
1/2	256.14	1/2	617.62	1/2	979.02	1/2	1,340.09	1/2	1,701.58	1/2	2,063.07	1/2	2,424.56	1/2	2,785.99	1/2	3,147.35	1/2	3,508.70
3/4	263.67	3/4	625.15	3/4	986.54	3/4	1,347.63	3/4	1,709.11	3/4	2,070.60	3/4	2,432.09	3/4	2,793.52	3/4	3,154.87	3/4	3,516.23
9	271.20	9	632.68	9	994.06	9	1,355.16	9	1,716.64	9	2,078.13	9	2,439.62	9	2,801.04	9	3,162.40	9	3,523.76
1/4	278.73	1/4	640.21	1/4	1,001.58	1/4	1,362.69	1/4	1,724.18	1/4	2,085.66	1/4	2,447.15	1/4	2,808.57	1/4	3,169.93	1/4	3,531.29
1/2	286.26	1/2	647.74	1/2	1,009.10	1/2	1,370.22	1/2	1,731.71	1/2	2,093.19	1/2	2,454.68	1/2	2,816.10	1/2	3,177.46	1/2	3,538.82
3/4	293.79	3/4	655.27	3/4	1,016.62	3/4	1,377.75	3/4	1,739.24	3/4	2,100.73	3/4	2,462.21	3/4	2,823.63	3/4	3,184.99	3/4	3,546.35
10	301.33	10	662.80	10	1,024.14	10	1,385.28	10	1,746.77	10	2,108.26	10	2,469.74	10	2,831.16	10	3,192.52	10	3,553.87
1/4	308.86	1/4	670.33	1/4	1,031.66	1/4	1,392.81	1/4	1,754.30	1/4	2,115.79	1/4	2,477.28	1/4	2,838.69	1/4	3,200.04	1/4	3,561.40
1/2	316.39	1/2	677.87	1/2	1,039.17	1/2	1,400.34	1/2	1,761.83	1/2	2,123.32	1/2	2,484.81	1/2	2,846.21	1/2	3,207.57	1/2	3,568.93
3/4	323.92	3/4	685.40	3/4	1,046.69	3/4	1,407.87	3/4	1,769.36	3/4	2,130.85	3/4	2,492.34	3/4	2,853.74	3/4	3,215.10	3/4	3,576.46
11	331.45	11	692.93	11	1,054.21	11	1,415.40	11	1,776.89	11	2,138.38	11	2,499.87	11	2,861.27	11	3,222.63	11	3,583.99
1/4	338.98	1/4	700.46	1/4	1,061.73	1/4	1,422.94	1/4	1,784.42	1/4	2,145.91	1/4	2,507.40	1/4	2,868.80	1/4	3,230.16	1/4	3,591.52
1/2	346.51	1/2	707.99	1/2	1,069.25	1/2	1,430.47	1/2	1,791.95	1/2	2,153.44	1/2	2,514.93	1/2	2,876.33	1/2	3,237.69	1/2	3,599.04
3/4	354.04	3/4	715.52	3/4	1,076.77	3/4	1,438.00	3/4	1,799.49	3/4	2,160.97	3/4	2,522.46	3/4	2,883.85	3/4	3,245.21	3/4	3,606.57

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 INNAGE 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 312"

## 2 PORT INNAGE 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.	
0	3,614.10	0	3,975.46	0	4,336.82	0	4,693.36	0	5,031.76	0		0		0		0		0	
1/4	3,621.63	1/4	3,982.99	1/4	4,344.35	1/4	4,700.60	1/4	5,038.55	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,629.16	1/2	3,990.52	1/2	4,351.87	1/2	4,707.85	1/2	5,045.34	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,636.68	3/4	3,998.04	3/4	4,359.40	3/4	4,715.09	3/4	5,052.13	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	3,644.21	1	4,005.57	1	4,366.93	1	4,722.34	1	5,058.92	1	1	1	1	1	1	1	1	1	1
1/4	3,651.74	1/4	4,013.10	1/4	4,374.46	1/4	4,729.53	1/4	5,065.68	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,659.27	1/2	4,020.63	1/2	4,381.99	1/2	4,736.71	1/2	5,072.44	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,666.80	3/4	4,028.16	3/4	4,389.51	3/4	4,743.90	3/4	5,079.20	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	3,674.33	2	4,035.68	2	4,397.04	2	4,751.09	2	5,085.96	2	2	2	2	2	2	2	2	2	2
1/4	3,681.85	1/4	4,043.21	1/4	4,404.57	1/4	4,758.24	1/4	5,092.69	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,689.38	1/2	4,050.74	1/2	4,412.10	1/2	4,765.40	1/2	5,099.42	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,696.91	3/4	4,058.27	3/4	4,419.63	3/4	4,772.56	3/4	5,106.15	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	3,704.44	3	4,065.80	3	4,427.16	3	4,779.71	3	5,112.88	3	3	3	3	3	3	3	3	3	3
1/4	3,711.97	1/4	4,073.33	1/4	4,434.67	1/4	4,786.84	1/4	5,119.57	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,719.50	1/2	4,080.85	1/2	4,442.18	1/2	4,793.97	1/2	5,126.26	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,727.02	3/4	4,088.38	3/4	4,449.70	3/4	4,801.10	3/4	5,132.95	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	3,734.55	4	4,095.91	4	4,457.21	4	4,808.22	4	5,139.64	4	4	4	4	4	4	4	4	4	4
1/4	3,742.08	1/4	4,103.44	1/4	4,464.69	1/4	4,815.32	1/4	5,146.28	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,749.61	1/2	4,110.97	1/2	4,472.18	1/2	4,822.42	1/2	5,152.91	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,757.14	3/4	4,118.50	3/4	4,479.66	3/4	4,829.52	3/4	5,159.55	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	3,764.67	5	4,126.02	5	4,487.15	5	4,836.61	5	5,166.18	5	5	5	5	5	5	5	5	5	5
1/4	3,772.19	1/4	4,133.55	1/4	4,494.60	1/4	4,843.68	1/4	5,172.20	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,779.72	1/2	4,141.08	1/2	4,502.05	1/2	4,850.75	1/2	5,178.21	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,787.25	3/4	4,148.61	3/4	4,509.51	3/4	4,857.82	3/4	5,184.22	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	3,794.78	6	4,156.14	6	4,516.96	6	4,864.88	6	5,190.23	6	6	6	6	6	6	6	6	6	6
1/4	3,802.31	1/4	4,163.67	1/4	4,524.39	1/4	4,871.92	1/4	5,195.78	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,809.84	1/2	4,171.19	1/2	4,531.81	1/2	4,878.96	1/2	5,201.33	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,817.36	3/4	4,178.72	3/4	4,539.23	3/4	4,886.00	3/4	5,206.87	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	3,824.89	7	4,186.25	7	4,546.66	7	4,893.04	7	5,212.42	7	7	7	7	7	7	7	7	7	7
1/4	3,832.42	1/4	4,193.78	1/4	4,554.05	1/4	4,900.05	1/4	5,216.74	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,839.95	1/2	4,201.31	1/2	4,561.45	1/2	4,907.05	1/2	5,221.06	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,847.48	3/4	4,208.84	3/4	4,568.84	3/4	4,914.06	3/4	5,225.38	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	3,855.01	8	4,216.36	8	4,576.24	8	4,921.07	8	5,229.70	8	8	8	8	8	8	8	8	8	8
1/4	3,862.53	1/4	4,223.89	1/4	4,583.60	1/4	4,928.05	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,870.06	1/2	4,231.42	1/2	4,590.96	1/2	4,935.03	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,877.59	3/4	4,238.95	3/4	4,598.33	3/4	4,942.01	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	3,885.12	9	4,246.48	9	4,605.69	9	4,948.98	9		9	9	9	9	9	9	9	9	9	9
1/4	3,892.65	1/4	4,254.01	1/4	4,613.03	1/4	4,955.94	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,900.18	1/2	4,261.53	1/2	4,620.36	1/2	4,962.89	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,907.70	3/4	4,269.06	3/4	4,627.70	3/4	4,969.84	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	3,915.23	10	4,276.59	10	4,635.03	10	4,976.79	10		10	10	10	10	10	10	10	10	10	10
1/4	3,922.76	1/4	4,284.12	1/4	4,642.34	1/4	4,983.71	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,930.29	1/2	4,291.65	1/2	4,649.64	1/2	4,990.63	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,937.82	3/4	4,299.18	3/4	4,656.95	3/4	4,997.55	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	3,945.35	11	4,306.70	11	4,664.25	11	5,004.48	11		11	11	11	11	11	11	11	11	11	11
1/4	3,952.87	1/4	4,314.23	1/4	4,671.53	1/4	5,011.30	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,960.40	1/2	4,321.76	1/2	4,678.81	1/2	5,018.12	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,967.93	3/4	4,329.29	3/4	4,686.08	3/4	5,024.94	3/4		3/4	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: 10/09/2013 CL  
CALCULATED: 10/10/2013 CL  
PRINTED: 10/10/2013 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 10/2013

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



# BARGE "HBC 312"

## 2 STBD INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08 1/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	22.90	0	361.66	0	723.22	0	1,076.60	0	1,429.99	0	1,791.56	0	2,153.14	0	2,514.72	0	2,876.20	0	3,237.65
1/4	27.29	1/4	369.19	1/4	730.76	1/4	1,083.79	1/4	1,437.52	1/4	1,799.10	1/4	2,160.68	1/4	2,522.26	1/4	2,883.73	1/4	3,245.18
1/2	31.68	1/2	376.72	1/2	738.29	1/2	1,090.98	1/2	1,445.05	1/2	1,806.63	1/2	2,168.21	1/2	2,529.79	1/2	2,891.26	1/2	3,252.71
3/4	36.08	3/4	384.26	3/4	745.82	3/4	1,098.17	3/4	1,452.58	3/4	1,814.16	3/4	2,175.74	3/4	2,537.32	3/4	2,898.79	3/4	3,260.24
1	40.47	1	391.79	1	753.35	1	1,105.35	1	1,460.12	1	1,821.70	1	2,183.27	1	2,544.85	1	2,906.32	1	3,267.77
1/4	46.12	1/4	399.32	1/4	760.89	1/4	1,112.54	1/4	1,467.65	1/4	1,829.23	1/4	2,190.81	1/4	2,552.39	1/4	2,913.85	1/4	3,275.30
1/2	51.77	1/2	406.85	1/2	768.42	1/2	1,119.73	1/2	1,475.18	1/2	1,836.76	1/2	2,198.34	1/2	2,559.92	1/2	2,921.38	1/2	3,282.83
3/4	57.41	3/4	414.39	3/4	775.95	3/4	1,126.92	3/4	1,482.72	3/4	1,844.29	3/4	2,205.87	3/4	2,567.45	3/4	2,928.91	3/4	3,290.36
2	63.06	2	421.92	2	783.48	2	1,134.11	2	1,490.25	2	1,851.83	2	2,213.41	2	2,574.99	2	2,936.44	2	3,297.89
1/4	69.97	1/4	429.45	1/4	791.02	1/4	1,141.30	1/4	1,497.78	1/4	1,859.36	1/4	2,220.94	1/4	2,582.52	1/4	2,943.97	1/4	3,305.42
1/2	76.87	1/2	436.98	1/2	798.55	1/2	1,148.49	1/2	1,505.31	1/2	1,866.89	1/2	2,228.47	1/2	2,590.05	1/2	2,951.50	1/2	3,312.95
3/4	83.77	3/4	444.52	3/4	806.08	3/4	1,155.68	3/4	1,512.85	3/4	1,874.43	3/4	2,236.01	3/4	2,597.58	3/4	2,959.03	3/4	3,320.48
3	90.67	3	452.05	3	813.61	3	1,162.87	3	1,520.38	3	1,881.96	3	2,243.54	3	2,605.12	3	2,966.56	3	3,328.01
1/4	98.17	1/4	459.58	1/4	821.15	1/4	1,170.06	1/4	1,527.91	1/4	1,889.49	1/4	2,251.07	1/4	2,612.65	1/4	2,974.09	1/4	3,335.54
1/2	105.67	1/2	467.11	1/2	828.68	1/2	1,177.25	1/2	1,535.45	1/2	1,897.02	1/2	2,258.60	1/2	2,620.18	1/2	2,981.62	1/2	3,343.07
3/4	113.16	3/4	474.65	3/4	836.21	3/4	1,184.44	3/4	1,542.98	3/4	1,904.56	3/4	2,266.14	3/4	2,627.71	3/4	2,989.15	3/4	3,350.60
4	120.66	4	482.18	4	843.74	4	1,191.63	4	1,550.51	4	1,912.09	4	2,273.67	4	2,635.24	4	2,996.68	4	3,358.13
1/4	128.18	1/4	489.71	1/4	851.28	1/4	1,198.82	1/4	1,558.04	1/4	1,919.62	1/4	2,281.20	1/4	2,642.77	1/4	3,004.21	1/4	3,365.66
1/2	135.71	1/2	497.25	1/2	858.81	1/2	1,206.01	1/2	1,565.58	1/2	1,927.16	1/2	2,288.74	1/2	2,650.30	1/2	3,011.74	1/2	3,373.19
3/4	143.23	3/4	504.78	3/4	866.34	3/4	1,213.20	3/4	1,573.11	3/4	1,934.69	3/4	2,296.27	3/4	2,657.83	3/4	3,019.27	3/4	3,380.72
5	150.75	5	512.31	5	873.88	5	1,220.39	5	1,580.64	5	1,942.22	5	2,303.80	5	2,665.36	5	3,026.80	5	3,388.25
1/4	158.28	1/4	519.84	1/4	881.41	1/4	1,227.59	1/4	1,588.18	1/4	1,949.76	1/4	2,311.33	1/4	2,672.89	1/4	3,034.33	1/4	3,395.78
1/2	165.81	1/2	527.38	1/2	888.94	1/2	1,234.79	1/2	1,595.71	1/2	1,957.29	1/2	2,318.87	1/2	2,680.42	1/2	3,041.86	1/2	3,403.31
3/4	173.34	3/4	534.91	3/4	896.47	3/4	1,241.99	3/4	1,603.24	3/4	1,964.82	3/4	2,326.40	3/4	2,687.95	3/4	3,049.39	3/4	3,410.84
6	180.88	6	542.44	6	904.01	6	1,249.20	6	1,610.77	6	1,972.35	6	2,333.93	6	2,695.48	6	3,056.92	6	3,418.37
1/4	188.41	1/4	549.97	1/4	911.21	1/4	1,256.73	1/4	1,618.31	1/4	1,979.89	1/4	2,341.47	1/4	2,703.01	1/4	3,064.45	1/4	3,425.90
1/2	195.94	1/2	557.51	1/2	918.41	1/2	1,264.26	1/2	1,625.84	1/2	1,987.42	1/2	2,349.00	1/2	2,710.54	1/2	3,071.98	1/2	3,433.43
3/4	203.47	3/4	565.04	3/4	925.61	3/4	1,271.79	3/4	1,633.37	3/4	1,994.95	3/4	2,356.53	3/4	2,718.07	3/4	3,079.51	3/4	3,440.96
7	211.01	7	572.57	7	932.81	7	1,279.33	7	1,640.91	7	2,002.49	7	2,364.06	7	2,725.60	7	3,087.04	7	3,448.49
1/4	218.54	1/4	580.10	1/4	940.00	1/4	1,286.86	1/4	1,648.44	1/4	2,010.02	1/4	2,371.60	1/4	2,733.13	1/4	3,094.57	1/4	3,456.02
1/2	226.07	1/2	587.64	1/2	947.19	1/2	1,294.39	1/2	1,655.97	1/2	2,017.55	1/2	2,379.13	1/2	2,740.66	1/2	3,102.10	1/2	3,463.55
3/4	233.60	3/4	595.17	3/4	954.38	3/4	1,301.93	3/4	1,663.50	3/4	2,025.08	3/4	2,386.66	3/4	2,748.19	3/4	3,109.63	3/4	3,471.08
8	241.14	8	602.70	8	961.57	8	1,309.46	8	1,671.04	8	2,032.62	8	2,394.20	8	2,755.72	8	3,117.16	8	3,478.61
1/4	248.67	1/4	610.23	1/4	968.76	1/4	1,316.99	1/4	1,678.57	1/4	2,040.15	1/4	2,401.73	1/4	2,763.25	1/4	3,124.69	1/4	3,486.14
1/2	256.20	1/2	617.77	1/2	975.95	1/2	1,324.52	1/2	1,686.10	1/2	2,047.68	1/2	2,409.26	1/2	2,770.78	1/2	3,132.22	1/2	3,493.67
3/4	263.73	3/4	625.30	3/4	983.13	3/4	1,332.06	3/4	1,693.64	3/4	2,055.22	3/4	2,416.79	3/4	2,778.31	3/4	3,139.75	3/4	3,501.20
9	271.27	9	632.83	9	990.32	9	1,339.59	9	1,701.17	9	2,062.75	9	2,424.33	9	2,785.84	9	3,147.28	9	3,508.73
1/4	278.80	1/4	640.36	1/4	997.51	1/4	1,347.12	1/4	1,708.70	1/4	2,070.28	1/4	2,431.86	1/4	2,793.37	1/4	3,154.81	1/4	3,516.26
1/2	286.33	1/2	647.90	1/2	1,004.70	1/2	1,354.66	1/2	1,716.24	1/2	2,077.81	1/2	2,439.39	1/2	2,800.90	1/2	3,162.34	1/2	3,523.79
3/4	293.86	3/4	655.43	3/4	1,011.89	3/4	1,362.19	3/4	1,723.77	3/4	2,085.35	3/4	2,446.93	3/4	2,808.43	3/4	3,169.87	3/4	3,531.32
10	301.40	10	662.96	10	1,019.08	10	1,369.72	10	1,731.30	10	2,092.88	10	2,454.46	10	2,815.96	10	3,177.41	10	3,538.85
1/4	308.93	1/4	670.49	1/4	1,026.27	1/4	1,377.25	1/4	1,738.83	1/4	2,100.41	1/4	2,461.99	1/4	2,823.49	1/4	3,184.94	1/4	3,546.38
1/2	316.46	1/2	678.03	1/2	1,033.46	1/2	1,384.79	1/2	1,746.37	1/2	2,107.95	1/2	2,469.53	1/2	2,831.02	1/2	3,192.47	1/2	3,553.91
3/4	324.00	3/4	685.56	3/4	1,040.65	3/4	1,392.32	3/4	1,753.90	3/4	2,115.48	3/4	2,477.06	3/4	2,838.55	3/4	3,200.00	3/4	3,561.44
11	331.53	11	693.09	11	1,047.84	11	1,399.85	11	1,761.43	11	2,123.01	11	2,484.59	11	2,846.08	11	3,207.53	11	3,568.97
1/4	339.06	1/4	700.63	1/4	1,055.03	1/4	1,407.39	1/4	1,768.97	1/4	2,130.54	1/4	2,492.12	1/4	2,853.61	1/4	3,215.06	1/4	3,576.50
1/2	346.59	1/2	708.16	1/2	1,062.22	1/2	1,414.92	1/2	1,776.50	1/2	2,138.08	1/2	2,499.66	1/2	2,861.14	1/2	3,222.59	1/2	3,584.03
3/4	354.13	3/4	715.69	3/4	1,069.41	3/4	1,422.45	3/4	1,784.03	3/4	2,145.61	3/4	2,507.19	3/4	2,868.67	3/4	3,230.12	3/4	3,591.56

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 INNAGE 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 312"

## 2 STBD INNAGE 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	3,599.09	0	3,960.54	0	4,321.98	0	4,678.60	0	5,017.08	0		0		0		0		0	
1/4	3,606.62	1/4	3,968.07	1/4	4,329.51	1/4	4,685.85	1/4	5,023.88	1/4		1/4		1/4		1/4		1/4	
1/2	3,614.15	1/2	3,975.60	1/2	4,337.04	1/2	4,693.09	1/2	5,030.67	1/2		1/2		1/2		1/2		1/2	
3/4	3,621.68	3/4	3,983.13	3/4	4,344.57	3/4	4,700.34	3/4	5,037.46	3/4		3/4		3/4		3/4		3/4	
1	3,629.21	1	3,990.66	1	4,352.10	1	4,707.59	1	5,044.25	1		1		1		1		1	
1/4	3,636.74	1/4	3,998.19	1/4	4,359.63	1/4	4,714.78	1/4	5,051.01	1/4		1/4		1/4		1/4		1/4	
1/2	3,644.27	1/2	4,005.72	1/2	4,367.16	1/2	4,721.97	1/2	5,057.78	1/2		1/2		1/2		1/2		1/2	
3/4	3,651.80	3/4	4,013.25	3/4	4,374.69	3/4	4,729.16	3/4	5,064.54	3/4		3/4		3/4		3/4		3/4	
2	3,659.33	2	4,020.78	2	4,382.22	2	4,736.34	2	5,071.30	2		2		2		2		2	
1/4	3,666.86	1/4	4,028.31	1/4	4,389.75	1/4	4,743.50	1/4	5,078.03	1/4		1/4		1/4		1/4		1/4	
1/2	3,674.39	1/2	4,035.84	1/2	4,397.28	1/2	4,750.66	1/2	5,084.76	1/2		1/2		1/2		1/2		1/2	
3/4	3,681.92	3/4	4,043.37	3/4	4,404.81	3/4	4,757.82	3/4	5,091.50	3/4		3/4		3/4		3/4		3/4	
3	3,689.45	3	4,050.90	3	4,412.34	3	4,764.98	3	5,098.23	3		3		3		3		3	
1/4	3,696.98	1/4	4,058.43	1/4	4,419.86	1/4	4,772.11	1/4	5,104.92	1/4		1/4		1/4		1/4		1/4	
1/2	3,704.51	1/2	4,065.96	1/2	4,427.37	1/2	4,779.24	1/2	5,111.61	1/2		1/2		1/2		1/2		1/2	
3/4	3,712.04	3/4	4,073.49	3/4	4,434.88	3/4	4,786.37	3/4	5,118.30	3/4		3/4		3/4		3/4		3/4	
4	3,719.57	4	4,081.02	4	4,442.40	4	4,793.50	4	5,125.00	4		4		4		4		4	
1/4	3,727.10	1/4	4,088.55	1/4	4,449.88	1/4	4,800.60	1/4	5,131.63	1/4		1/4		1/4		1/4		1/4	
1/2	3,734.63	1/2	4,096.08	1/2	4,457.37	1/2	4,807.69	1/2	5,138.27	1/2		1/2		1/2		1/2		1/2	
3/4	3,742.16	3/4	4,103.61	3/4	4,464.85	3/4	4,814.79	3/4	5,144.91	3/4		3/4		3/4		3/4		3/4	
5	3,749.69	5	4,111.14	5	4,472.34	5	4,821.89	5	5,151.55	5		5		5		5		5	
1/4	3,757.22	1/4	4,118.67	1/4	4,479.80	1/4	4,828.96	1/4	5,157.56	1/4		1/4		1/4		1/4		1/4	
1/2	3,764.75	1/2	4,126.20	1/2	4,487.25	1/2	4,836.03	1/2	5,163.57	1/2		1/2		1/2		1/2		1/2	
3/4	3,772.28	3/4	4,133.73	3/4	4,494.71	3/4	4,843.10	3/4	5,169.59	3/4		3/4		3/4		3/4		3/4	
6	3,779.81	6	4,141.26	6	4,502.16	6	4,850.17	6	5,175.60	6		6		6		6		6	
1/4	3,787.34	1/4	4,148.79	1/4	4,509.59	1/4	4,857.21	1/4	5,181.15	1/4		1/4		1/4		1/4		1/4	
1/2	3,794.87	1/2	4,156.32	1/2	4,517.01	1/2	4,864.25	1/2	5,186.70	1/2		1/2		1/2		1/2		1/2	
3/4	3,802.40	3/4	4,163.85	3/4	4,524.44	3/4	4,871.29	3/4	5,192.24	3/4		3/4		3/4		3/4		3/4	
7	3,809.93	7	4,171.38	7	4,531.87	7	4,878.33	7	5,197.79	7		7		7		7		7	
1/4	3,817.46	1/4	4,178.91	1/4	4,539.26	1/4	4,885.34	1/4	5,202.11	1/4		1/4		1/4		1/4		1/4	
1/2	3,824.99	1/2	4,186.44	1/2	4,546.66	1/2	4,892.35	1/2	5,206.43	1/2		1/2		1/2		1/2		1/2	
3/4	3,832.52	3/4	4,193.97	3/4	4,554.05	3/4	4,899.36	3/4	5,210.76	3/4		3/4		3/4		3/4		3/4	
8	3,840.05	8	4,201.50	8	4,561.45	8	4,906.37	8	5,215.08	8		8		8		8		8	
1/4	3,847.58	1/4	4,209.03	1/4	4,568.82	1/4	4,913.35	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,855.11	1/2	4,216.56	1/2	4,576.18	1/2	4,920.33	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,862.64	3/4	4,224.09	3/4	4,583.55	3/4	4,927.31	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,870.17	9	4,231.62	9	4,590.92	9	4,934.29	9		9		9		9		9		9	
1/4	3,877.70	1/4	4,239.15	1/4	4,598.25	1/4	4,941.25	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,885.23	1/2	4,246.68	1/2	4,605.59	1/2	4,948.20	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,892.76	3/4	4,254.21	3/4	4,612.93	3/4	4,955.15	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,900.29	10	4,261.74	10	4,620.26	10	4,962.10	10		10		10		10		10		10	
1/4	3,907.82	1/4	4,269.27	1/4	4,627.57	1/4	4,969.03	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,915.35	1/2	4,276.80	1/2	4,634.88	1/2	4,975.95	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,922.88	3/4	4,284.33	3/4	4,642.18	3/4	4,982.87	3/4		3/4		3/4		3/4		3/4		3/4	
11	3,930.41	11	4,291.86	11	4,649.49	11	4,989.80	11		11		11		11		11		11	
1/4	3,937.95	1/4	4,299.39	1/4	4,656.77	1/4	4,996.62	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,945.48	1/2	4,306.92	1/2	4,664.05	1/2	5,003.44	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,953.01	3/4	4,314.45	3/4	4,671.32	3/4	5,010.26	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 10/09/2013 CL  
CALCULATED: 10/10/2013 CL  
PRINTED: 10/10/2013 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 10/2013

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



# BARGE "HBC 312"

## 3 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08 1/2"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	22.80	0	360.10	0	720.11	0	1,079.91	0	1,439.77	0	1,799.79	0	2,159.78	0	2,519.72	0	2,879.46	0	3,238.30
1/4	27.18	1/4	367.60	1/4	727.61	1/4	1,087.40	1/4	1,447.27	1/4	1,807.29	1/4	2,167.28	1/4	2,527.21	1/4	2,886.94	1/4	3,245.75
1/2	31.55	1/2	375.10	1/2	735.11	1/2	1,094.89	1/2	1,454.77	1/2	1,814.79	1/2	2,174.78	1/2	2,534.71	1/2	2,894.43	1/2	3,253.20
3/4	35.92	3/4	382.60	3/4	742.61	3/4	1,102.38	3/4	1,462.27	3/4	1,822.29	3/4	2,182.27	3/4	2,542.21	3/4	2,901.91	3/4	3,260.65
1	40.30	1	390.10	1	750.11	1	1,109.87	1	1,469.77	1	1,829.79	1	2,189.77	1	2,549.71	1	2,909.39	1	3,268.10
1/4	45.92	1/4	397.60	1/4	757.61	1/4	1,117.37	1/4	1,477.27	1/4	1,837.29	1/4	2,197.27	1/4	2,557.21	1/4	2,916.88	1/4	3,275.55
1/2	51.55	1/2	405.10	1/2	765.11	1/2	1,124.86	1/2	1,484.77	1/2	1,844.79	1/2	2,204.77	1/2	2,564.71	1/2	2,924.36	1/2	3,283.00
3/4	57.17	3/4	412.60	3/4	772.61	3/4	1,132.35	3/4	1,492.27	3/4	1,852.29	3/4	2,212.27	3/4	2,572.21	3/4	2,931.85	3/4	3,290.45
2	62.80	2	420.10	2	780.11	2	1,139.84	2	1,499.77	2	1,859.79	2	2,219.77	2	2,579.71	2	2,939.33	2	3,297.90
1/4	69.67	1/4	427.60	1/4	787.61	1/4	1,147.33	1/4	1,507.27	1/4	1,867.29	1/4	2,227.27	1/4	2,587.20	1/4	2,946.82	1/4	3,305.35
1/2	76.54	1/2	435.10	1/2	795.11	1/2	1,154.82	1/2	1,514.77	1/2	1,874.79	1/2	2,234.77	1/2	2,594.70	1/2	2,954.30	1/2	3,312.80
3/4	83.41	3/4	442.60	3/4	802.61	3/4	1,162.31	3/4	1,522.27	3/4	1,882.29	3/4	2,242.26	3/4	2,602.20	3/4	2,961.79	3/4	3,320.25
3	90.29	3	450.10	3	810.11	3	1,169.80	3	1,529.77	3	1,889.79	3	2,249.76	3	2,609.70	3	2,969.27	3	3,327.70
1/4	97.75	1/4	457.60	1/4	817.61	1/4	1,177.29	1/4	1,537.27	1/4	1,897.29	1/4	2,257.26	1/4	2,617.20	1/4	2,976.76	1/4	3,335.17
1/2	105.22	1/2	465.10	1/2	825.11	1/2	1,184.78	1/2	1,544.77	1/2	1,904.79	1/2	2,264.76	1/2	2,624.70	1/2	2,984.24	1/2	3,342.64
3/4	112.68	3/4	472.60	3/4	832.61	3/4	1,192.28	3/4	1,552.27	3/4	1,912.29	3/4	2,272.26	3/4	2,632.19	3/4	2,991.72	3/4	3,350.10
4	120.15	4	480.11	4	840.11	4	1,199.77	4	1,559.77	4	1,919.79	4	2,279.76	4	2,639.69	4	2,999.21	4	3,357.57
1/4	127.64	1/4	487.61	1/4	847.61	1/4	1,207.26	1/4	1,567.27	1/4	1,927.29	1/4	2,287.26	1/4	2,647.19	1/4	3,006.69	1/4	3,365.03
1/2	135.13	1/2	495.11	1/2	855.11	1/2	1,214.76	1/2	1,574.77	1/2	1,934.79	1/2	2,294.75	1/2	2,654.68	1/2	3,014.18	1/2	3,372.50
3/4	142.62	3/4	502.61	3/4	862.61	3/4	1,222.26	3/4	1,582.27	3/4	1,942.29	3/4	2,302.25	3/4	2,662.18	3/4	3,021.66	3/4	3,379.96
5	150.11	5	510.11	5	870.11	5	1,229.76	5	1,589.78	5	1,949.79	5	2,309.75	5	2,669.68	5	3,029.15	5	3,387.43
1/4	157.60	1/4	517.61	1/4	877.61	1/4	1,237.26	1/4	1,597.28	1/4	1,957.29	1/4	2,317.25	1/4	2,677.18	1/4	3,036.63	1/4	3,394.90
1/2	165.10	1/2	525.11	1/2	885.11	1/2	1,244.76	1/2	1,604.78	1/2	1,964.80	1/2	2,324.75	1/2	2,684.67	1/2	3,044.12	1/2	3,402.36
3/4	172.60	3/4	532.61	3/4	892.61	3/4	1,252.26	3/4	1,612.28	3/4	1,972.30	3/4	2,332.25	3/4	2,692.17	3/4	3,051.60	3/4	3,409.83
6	180.10	6	540.11	6	900.11	6	1,259.76	6	1,619.78	6	1,979.80	6	2,339.75	6	2,699.67	6	3,059.08	6	3,417.29
1/4	187.60	1/4	547.61	1/4	907.61	1/4	1,267.26	1/4	1,627.28	1/4	1,987.30	1/4	2,347.25	1/4	2,707.17	1/4	3,066.57	1/4	3,424.76
1/2	195.10	1/2	555.11	1/2	915.10	1/2	1,274.76	1/2	1,634.78	1/2	1,994.80	1/2	2,354.74	1/2	2,714.66	1/2	3,074.05	1/2	3,432.23
3/4	202.60	3/4	562.61	3/4	922.60	3/4	1,282.26	3/4	1,642.28	3/4	2,002.30	3/4	2,362.24	3/4	2,722.16	3/4	3,081.54	3/4	3,439.69
7	210.10	7	570.11	7	930.09	7	1,289.76	7	1,649.78	7	2,009.80	7	2,369.74	7	2,729.66	7	3,089.02	7	3,447.16
1/4	217.60	1/4	577.61	1/4	937.58	1/4	1,297.26	1/4	1,657.28	1/4	2,017.30	1/4	2,377.24	1/4	2,737.16	1/4	3,096.51	1/4	3,454.62
1/2	225.10	1/2	585.11	1/2	945.07	1/2	1,304.76	1/2	1,664.78	1/2	2,024.80	1/2	2,384.74	1/2	2,744.65	1/2	3,103.99	1/2	3,462.09
3/4	232.60	3/4	592.61	3/4	952.56	3/4	1,312.26	3/4	1,672.28	3/4	2,032.30	3/4	2,392.24	3/4	2,752.15	3/4	3,111.48	3/4	3,469.56
8	240.10	8	600.11	8	960.05	8	1,319.76	8	1,679.78	8	2,039.80	8	2,399.74	8	2,759.65	8	3,118.96	8	3,477.02
1/4	247.60	1/4	607.61	1/4	967.55	1/4	1,327.26	1/4	1,687.28	1/4	2,047.30	1/4	2,407.24	1/4	2,767.15	1/4	3,126.45	1/4	3,484.49
1/2	255.10	1/2	615.11	1/2	975.04	1/2	1,334.76	1/2	1,694.78	1/2	2,054.80	1/2	2,414.73	1/2	2,774.65	1/2	3,133.93	1/2	3,491.95
3/4	262.60	3/4	622.61	3/4	982.53	3/4	1,342.26	3/4	1,702.28	3/4	2,062.30	3/4	2,422.23	3/4	2,782.14	3/4	3,141.41	3/4	3,499.42
9	270.10	9	630.11	9	990.02	9	1,349.76	9	1,709.78	9	2,069.79	9	2,429.73	9	2,789.64	9	3,148.90	9	3,506.89
1/4	277.60	1/4	637.61	1/4	997.51	1/4	1,357.26	1/4	1,717.28	1/4	2,077.29	1/4	2,437.23	1/4	2,797.13	1/4	3,156.35	1/4	3,514.36
1/2	285.10	1/2	645.11	1/2	1,005.00	1/2	1,364.76	1/2	1,724.78	1/2	2,084.79	1/2	2,444.73	1/2	2,804.61	1/2	3,163.80	1/2	3,521.83
3/4	292.60	3/4	652.61	3/4	1,012.49	3/4	1,372.26	3/4	1,732.28	3/4	2,092.29	3/4	2,452.23	3/4	2,812.10	3/4	3,171.25	3/4	3,529.30
10	300.10	10	660.11	10	1,019.98	10	1,379.76	10	1,739.78	10	2,099.79	10	2,459.73	10	2,819.58	10	3,178.70	10	3,536.77
1/4	307.60	1/4	667.61	1/4	1,027.47	1/4	1,387.26	1/4	1,747.28	1/4	2,107.29	1/4	2,467.22	1/4	2,827.07	1/4	3,186.15	1/4	3,544.24
1/2	315.10	1/2	675.11	1/2	1,034.96	1/2	1,394.76	1/2	1,754.78	1/2	2,114.79	1/2	2,474.72	1/2	2,834.55	1/2	3,193.60	1/2	3,551.71
3/4	322.60	3/4	682.61	3/4	1,042.46	3/4	1,402.27	3/4	1,762.28	3/4	2,122.28	3/4	2,482.22	3/4	2,842.03	3/4	3,201.05	3/4	3,559.18
11	330.10	11	690.11	11	1,049.95	11	1,409.77	11	1,769.78	11	2,129.78	11	2,489.72	11	2,849.52	11	3,208.50	11	3,566.65
1/4	337.60	1/4	697.61	1/4	1,057.44	1/4	1,417.27	1/4	1,777.29	1/4	2,137.28	1/4	2,497.22	1/4	2,857.00	1/4	3,215.95	1/4	3,574.12
1/2	345.10	1/2	705.11	1/2	1,064.93	1/2	1,424.77	1/2	1,784.79	1/2	2,144.78	1/2	2,504.72	1/2	2,864.49	1/2	3,223.40	1/2	3,581.59
3/4	352.60	3/4	712.61	3/4	1,072.42	3/4	1,432.27	3/4	1,792.29	3/4	2,152.28	3/4	2,512.22	3/4	2,871.97	3/4	3,230.85	3/4	3,589.06

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 INNAGE 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 312"

## 3 PORT INNAGE 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	3,555.29	0	3,748.89	0	3,942.49	0	4,133.51	0	4,314.88	0		0		0		0		0	
1/4	3,559.32	1/4	3,752.92	1/4	3,946.53	1/4	4,137.40	1/4	4,318.52	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,563.35	1/2	3,756.96	1/2	3,950.56	1/2	4,141.28	1/2	4,322.15	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,567.39	3/4	3,760.99	3/4	3,954.59	3/4	4,145.16	3/4	4,325.79	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	3,571.42	1	3,765.02	1	3,958.63	1	4,149.04	1	4,329.43	1	1	1	1	1	1	1	1	1	1
1/4	3,575.45	1/4	3,769.06	1/4	3,962.66	1/4	4,152.90	1/4	4,333.05	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,579.49	1/2	3,773.09	1/2	3,966.69	1/2	4,156.75	1/2	4,336.68	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,583.52	3/4	3,777.12	3/4	3,970.73	3/4	4,160.60	3/4	4,340.30	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	3,587.55	2	3,781.16	2	3,974.76	2	4,164.45	2	4,343.92	2	2	2	2	2	2	2	2	2	2
1/4	3,591.59	1/4	3,785.19	1/4	3,978.79	1/4	4,168.29	1/4	4,347.53	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,595.62	1/2	3,789.22	1/2	3,982.83	1/2	4,172.12	1/2	4,351.13	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,599.65	3/4	3,793.26	3/4	3,986.86	3/4	4,175.96	3/4	4,354.74	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	3,603.69	3	3,797.29	3	3,990.89	3	4,179.80	3	4,358.34	3	3	3	3	3	3	3	3	3	3
1/4	3,607.72	1/4	3,801.32	1/4	3,994.92	1/4	4,183.62	1/4	4,361.93	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,611.75	1/2	3,805.36	1/2	3,998.94	1/2	4,187.44	1/2	4,365.51	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,615.79	3/4	3,809.39	3/4	4,002.97	3/4	4,191.26	3/4	4,369.09	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	3,619.82	4	3,813.42	4	4,006.99	4	4,195.08	4	4,372.67	4	4	4	4	4	4	4	4	4	4
1/4	3,623.85	1/4	3,817.46	1/4	4,011.00	1/4	4,198.88	1/4	4,376.21	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,627.89	1/2	3,821.49	1/2	4,015.01	1/2	4,202.68	1/2	4,379.75	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,631.92	3/4	3,825.52	3/4	4,019.02	3/4	4,206.49	3/4	4,383.29	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	3,635.95	5	3,829.56	5	4,023.03	5	4,210.29	5	4,386.82	5	5	5	5	5	5	5	5	5	5
1/4	3,639.99	1/4	3,833.59	1/4	4,027.02	1/4	4,214.08	1/4	4,389.76	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,644.02	1/2	3,837.62	1/2	4,031.01	1/2	4,217.87	1/2	4,392.69	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,648.05	3/4	3,841.66	3/4	4,035.01	3/4	4,221.66	3/4	4,395.62	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	3,652.09	6	3,845.69	6	4,039.00	6	4,225.45	6	4,398.56	6	6	6	6	6	6	6	6	6	6
1/4	3,656.12	1/4	3,849.72	1/4	4,042.98	1/4	4,229.22	1/4	4,400.66	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,660.15	1/2	3,853.76	1/2	4,046.96	1/2	4,232.99	1/2	4,402.77	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,664.19	3/4	3,857.79	3/4	4,050.94	3/4	4,236.76	3/4	4,404.88	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	3,668.22	7	3,861.82	7	4,054.91	7	4,240.54	7	4,406.98	7	7	7	7	7	7	7	7	7	7
1/4	3,672.25	1/4	3,865.86	1/4	4,058.87	1/4	4,244.29	1/4	4,407.85	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,676.29	1/2	3,869.89	1/2	4,062.84	1/2	4,248.05	1/2	4,408.72	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,680.32	3/4	3,873.92	3/4	4,066.80	3/4	4,251.81	3/4	4,409.59	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	3,684.35	8	3,877.96	8	4,070.76	8	4,255.56	8	4,410.46	8	8	8	8	8	8	8	8	8	8
1/4	3,688.39	1/4	3,881.99	1/4	4,074.71	1/4	4,259.30	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,692.42	1/2	3,886.02	1/2	4,078.65	1/2	4,263.04	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,696.45	3/4	3,890.06	3/4	4,082.60	3/4	4,266.78	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	3,700.49	9	3,894.09	9	4,086.54	9	4,270.53	9		9	9	9	9	9	9	9	9	9	9
1/4	3,704.52	1/4	3,898.12	1/4	4,090.47	1/4	4,274.25	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,708.56	1/2	3,902.16	1/2	4,094.40	1/2	4,277.97	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,712.59	3/4	3,906.19	3/4	4,098.33	3/4	4,281.70	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	3,716.62	10	3,910.23	10	4,102.26	10	4,285.42	10		10	10	10	10	10	10	10	10	10	10
1/4	3,720.66	1/4	3,914.26	1/4	4,106.18	1/4	4,289.13	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,724.69	1/2	3,918.29	1/2	4,110.09	1/2	4,292.84	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,728.72	3/4	3,922.33	3/4	4,114.01	3/4	4,296.55	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	3,732.76	11	3,926.36	11	4,117.92	11	4,300.26	11		11	11	11	11	11	11	11	11	11	11
1/4	3,736.79	1/4	3,930.39	1/4	4,121.82	1/4	4,303.91	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,740.82	1/2	3,934.43	1/2	4,125.72	1/2	4,307.57	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,744.86	3/4	3,938.46	3/4	4,129.62	3/4	4,311.22	3/4		3/4	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: 10/09/2013 CL  
CALCULATED: 10/10/2013 CL  
PRINTED: 10/10/2013 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 10/2013

PRECISION MEASUREMENT  
& ANALYSIS, INC.  
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Pearland, Texas 77588  
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# BARGE "HBC 312"

## 3 STBD INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08 1/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	22.80	0	359.49	0	718.85	0	1,066.49	0	1,419.40	0	1,778.17	0	2,137.40	0	2,496.58	0	2,855.56	0	3,213.47
1/4	27.17	1/4	366.98	1/4	726.34	1/4	1,073.64	1/4	1,426.83	1/4	1,785.66	1/4	2,144.89	1/4	2,504.07	1/4	2,863.03	1/4	3,220.90
1/2	31.54	1/2	374.47	1/2	733.83	1/2	1,080.79	1/2	1,434.25	1/2	1,793.14	1/2	2,152.37	1/2	2,511.55	1/2	2,870.50	1/2	3,228.34
3/4	35.92	3/4	381.95	3/4	741.31	3/4	1,087.94	3/4	1,441.67	3/4	1,800.62	3/4	2,159.85	3/4	2,519.03	3/4	2,877.97	3/4	3,235.77
1	40.29	1	389.44	1	748.80	1	1,095.09	1	1,449.09	1	1,808.11	1	2,167.34	1	2,526.51	1	2,885.44	1	3,243.21
1/4	45.90	1/4	396.93	1/4	756.29	1/4	1,102.24	1/4	1,456.52	1/4	1,815.59	1/4	2,174.82	1/4	2,534.00	1/4	2,892.90	1/4	3,250.64
1/2	51.51	1/2	404.41	1/2	763.78	1/2	1,109.39	1/2	1,463.94	1/2	1,823.08	1/2	2,182.30	1/2	2,541.48	1/2	2,900.36	1/2	3,258.07
3/4	57.12	3/4	411.90	3/4	771.26	3/4	1,116.54	3/4	1,471.36	3/4	1,830.56	3/4	2,189.78	3/4	2,548.96	3/4	2,907.82	3/4	3,265.51
2	62.74	2	419.39	2	778.75	2	1,123.69	2	1,478.79	2	1,838.05	2	2,197.27	2	2,556.45	2	2,915.28	2	3,272.94
1/4	69.59	1/4	426.87	1/4	786.24	1/4	1,130.84	1/4	1,486.27	1/4	1,845.53	1/4	2,204.75	1/4	2,563.93	1/4	2,922.74	1/4	3,280.38
1/2	76.44	1/2	434.36	1/2	793.72	1/2	1,137.98	1/2	1,493.76	1/2	1,853.02	1/2	2,212.23	1/2	2,571.41	1/2	2,930.20	1/2	3,287.81
3/4	83.28	3/4	441.85	3/4	801.21	3/4	1,145.13	3/4	1,501.24	3/4	1,860.50	3/4	2,219.72	3/4	2,578.90	3/4	2,937.66	3/4	3,295.25
3	90.13	3	449.33	3	808.70	3	1,152.28	3	1,508.72	3	1,867.99	3	2,227.20	3	2,586.38	3	2,945.13	3	3,302.68
1/4	97.59	1/4	456.82	1/4	815.90	1/4	1,159.72	1/4	1,516.21	1/4	1,875.47	1/4	2,234.68	1/4	2,593.86	1/4	2,952.59	1/4	3,310.13
1/2	105.04	1/2	464.31	1/2	823.10	1/2	1,167.15	1/2	1,523.69	1/2	1,882.95	1/2	2,242.16	1/2	2,601.34	1/2	2,960.05	1/2	3,317.58
3/4	112.49	3/4	471.79	3/4	830.30	3/4	1,174.58	3/4	1,531.18	3/4	1,890.44	3/4	2,249.65	3/4	2,608.82	3/4	2,967.51	3/4	3,325.03
4	119.94	4	479.28	4	837.51	4	1,182.01	4	1,538.66	4	1,897.92	4	2,257.13	4	2,616.30	4	2,974.97	4	3,332.48
1/4	127.42	1/4	486.77	1/4	844.68	1/4	1,189.42	1/4	1,546.15	1/4	1,905.41	1/4	2,264.61	1/4	2,623.79	1/4	2,982.43	1/4	3,339.93
1/2	134.91	1/2	494.25	1/2	851.86	1/2	1,196.82	1/2	1,553.63	1/2	1,912.89	1/2	2,272.10	1/2	2,631.27	1/2	2,989.89	1/2	3,347.38
3/4	142.39	3/4	501.74	3/4	859.03	3/4	1,204.22	3/4	1,561.12	3/4	1,920.38	3/4	2,279.58	3/4	2,638.75	3/4	2,997.35	3/4	3,354.83
5	149.87	5	509.23	5	866.20	5	1,211.63	5	1,568.60	5	1,927.86	5	2,287.06	5	2,646.23	5	3,004.81	5	3,362.28
1/4	157.36	1/4	516.71	1/4	873.38	1/4	1,219.03	1/4	1,576.09	1/4	1,935.35	1/4	2,294.54	1/4	2,653.71	1/4	3,012.28	1/4	3,369.73
1/2	164.84	1/2	524.20	1/2	880.55	1/2	1,226.44	1/2	1,583.57	1/2	1,942.83	1/2	2,302.03	1/2	2,661.19	1/2	3,019.74	1/2	3,377.18
3/4	172.33	3/4	531.69	3/4	887.73	3/4	1,233.85	3/4	1,591.06	3/4	1,950.32	3/4	2,309.51	3/4	2,668.67	3/4	3,027.20	3/4	3,384.63
6	179.81	6	539.17	6	894.90	6	1,241.25	6	1,598.54	6	1,957.80	6	2,316.99	6	2,676.15	6	3,034.66	6	3,392.08
1/4	187.30	1/4	546.66	1/4	902.06	1/4	1,248.68	1/4	1,606.02	1/4	1,965.29	1/4	2,324.48	1/4	2,683.64	1/4	3,042.12	1/4	3,399.53
1/2	194.79	1/2	554.15	1/2	909.21	1/2	1,256.10	1/2	1,613.51	1/2	1,972.77	1/2	2,331.96	1/2	2,691.12	1/2	3,049.58	1/2	3,406.98
3/4	202.27	3/4	561.63	3/4	916.36	3/4	1,263.52	3/4	1,620.99	3/4	1,980.25	3/4	2,339.44	3/4	2,698.60	3/4	3,057.04	3/4	3,414.43
7	209.76	7	569.12	7	923.51	7	1,270.95	7	1,628.48	7	1,987.74	7	2,346.93	7	2,706.08	7	3,064.50	7	3,421.88
1/4	217.25	1/4	576.61	1/4	930.66	1/4	1,278.37	1/4	1,635.96	1/4	1,995.22	1/4	2,354.41	1/4	2,713.56	1/4	3,071.97	1/4	3,429.33
1/2	224.73	1/2	584.09	1/2	937.81	1/2	1,285.79	1/2	1,643.45	1/2	2,002.71	1/2	2,361.89	1/2	2,721.04	1/2	3,079.44	1/2	3,436.78
3/4	232.22	3/4	591.58	3/4	944.96	3/4	1,293.21	3/4	1,650.93	3/4	2,010.19	3/4	2,369.37	3/4	2,728.52	3/4	3,086.91	3/4	3,444.23
8	239.71	8	599.07	8	952.11	8	1,300.64	8	1,658.42	8	2,017.68	8	2,376.86	8	2,736.01	8	3,094.38	8	3,451.68
1/4	247.19	1/4	606.55	1/4	959.26	1/4	1,308.06	1/4	1,665.90	1/4	2,025.16	1/4	2,384.34	1/4	2,743.49	1/4	3,101.85	1/4	3,459.13
1/2	254.68	1/2	614.04	1/2	966.41	1/2	1,315.48	1/2	1,673.39	1/2	2,032.64	1/2	2,391.82	1/2	2,750.97	1/2	3,109.32	1/2	3,466.58
3/4	262.17	3/4	621.53	3/4	973.55	3/4	1,322.91	3/4	1,680.87	3/4	2,040.13	3/4	2,399.31	3/4	2,758.45	3/4	3,116.78	3/4	3,474.03
9	269.65	9	629.01	9	980.70	9	1,330.33	9	1,688.36	9	2,047.61	9	2,406.79	9	2,765.94	9	3,124.25	9	3,481.48
1/4	277.14	1/4	636.50	1/4	987.85	1/4	1,337.75	1/4	1,695.84	1/4	2,055.09	1/4	2,414.27	1/4	2,773.41	1/4	3,131.69	1/4	3,488.50
1/2	284.63	1/2	643.99	1/2	995.00	1/2	1,345.17	1/2	1,703.32	1/2	2,062.58	1/2	2,421.75	1/2	2,780.87	1/2	3,139.12	1/2	3,489.52
3/4	292.11	3/4	651.47	3/4	1,002.15	3/4	1,352.60	3/4	1,710.81	3/4	2,070.06	3/4	2,429.24	3/4	2,788.34	3/4	3,146.56	3/4	3,493.54
10	299.60	10	658.96	10	1,009.30	10	1,360.02	10	1,718.29	10	2,077.54	10	2,436.72	10	2,795.81	10	3,153.99	10	3,497.55
1/4	307.09	1/4	666.45	1/4	1,016.45	1/4	1,367.44	1/4	1,725.78	1/4	2,085.02	1/4	2,444.20	1/4	2,803.28	1/4	3,161.43	1/4	3,501.57
1/2	314.57	1/2	673.93	1/2	1,023.60	1/2	1,374.87	1/2	1,733.26	1/2	2,092.51	1/2	2,451.69	1/2	2,810.75	1/2	3,168.86	1/2	3,505.59
3/4	322.06	3/4	681.42	3/4	1,030.75	3/4	1,382.29	3/4	1,740.75	3/4	2,099.99	3/4	2,459.17	3/4	2,818.22	3/4	3,176.29	3/4	3,509.61
11	329.55	11	688.91	11	1,037.90	11	1,389.71	11	1,748.23	11	2,107.47	11	2,466.65	11	2,825.69	11	3,183.73	11	3,513.63
1/4	337.03	1/4	696.39	1/4	1,045.05	1/4	1,397.13	1/4	1,755.72	1/4	2,114.96	1/4	2,474.13	1/4	2,833.16	1/4	3,191.16	1/4	3,517.65
1/2	344.52	1/2	703.88	1/2	1,052.20	1/2	1,404.56	1/2	1,763.20	1/2	2,122.44	1/2	2,481.62	1/2	2,840.62	1/2	3,198.60	1/2	3,521.67
3/4	352.01	3/4	711.37	3/4	1,059.34	3/4	1,411.98	3/4	1,770.69	3/4	2,129.92	3/4	2,489.10	3/4	2,848.09	3/4	3,206.03	3/4	3,525.68

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 INNAGE 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 312"

## 3 STBD INNAGE 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.	
0	3,529.70	0	3,722.59	0	3,915.47	0	4,105.78	0	4,286.42	0		0		0		0		0	
1/4	3,533.72	1/4	3,726.60	1/4	3,919.49	1/4	4,109.64	1/4	4,290.05	1/4		1/4		1/4		1/4		1/4	
1/2	3,537.74	1/2	3,730.62	1/2	3,923.51	1/2	4,113.51	1/2	4,293.67	1/2		1/2		1/2		1/2		1/2	
3/4	3,541.76	3/4	3,734.64	3/4	3,927.52	3/4	4,117.38	3/4	4,297.29	3/4		3/4		3/4		3/4		3/4	
1	3,545.78	1	3,738.66	1	3,931.54	1	4,121.25	1	4,300.92	1		1		1		1		1	
1/4	3,549.79	1/4	3,742.68	1/4	3,935.56	1/4	4,125.08	1/4	4,304.53	1/4		1/4		1/4		1/4		1/4	
1/2	3,553.81	1/2	3,746.70	1/2	3,939.58	1/2	4,128.92	1/2	4,308.13	1/2		1/2		1/2		1/2		1/2	
3/4	3,557.83	3/4	3,750.71	3/4	3,943.60	3/4	4,132.76	3/4	4,311.74	3/4		3/4		3/4		3/4		3/4	
2	3,561.85	2	3,754.73	2	3,947.62	2	4,136.59	2	4,315.35	2		2		2		2		2	
1/4	3,565.87	1/4	3,758.75	1/4	3,951.63	1/4	4,140.41	1/4	4,318.94	1/4		1/4		1/4		1/4		1/4	
1/2	3,569.89	1/2	3,762.77	1/2	3,955.65	1/2	4,144.24	1/2	4,322.53	1/2		1/2		1/2		1/2		1/2	
3/4	3,573.90	3/4	3,766.79	3/4	3,959.67	3/4	4,148.06	3/4	4,326.12	3/4		3/4		3/4		3/4		3/4	
3	3,577.92	3	3,770.81	3	3,963.69	3	4,151.88	3	4,329.71	3		3		3		3		3	
1/4	3,581.94	1/4	3,774.82	1/4	3,967.70	1/4	4,155.68	1/4	4,333.28	1/4		1/4		1/4		1/4		1/4	
1/2	3,585.96	1/2	3,778.84	1/2	3,971.71	1/2	4,159.49	1/2	4,336.84	1/2		1/2		1/2		1/2		1/2	
3/4	3,589.98	3/4	3,782.86	3/4	3,975.72	3/4	4,163.29	3/4	4,340.41	3/4		3/4		3/4		3/4		3/4	
4	3,594.00	4	3,786.88	4	3,979.73	4	4,167.10	4	4,343.97	4		4		4		4		4	
1/4	3,598.01	1/4	3,790.90	1/4	3,983.72	1/4	4,170.89	1/4	4,347.50	1/4		1/4		1/4		1/4		1/4	
1/2	3,602.03	1/2	3,794.92	1/2	3,987.72	1/2	4,174.68	1/2	4,351.02	1/2		1/2		1/2		1/2		1/2	
3/4	3,606.05	3/4	3,798.93	3/4	3,991.71	3/4	4,178.47	3/4	4,354.55	3/4		3/4		3/4		3/4		3/4	
5	3,610.07	5	3,802.95	5	3,995.71	5	4,182.26	5	4,358.07	5		5		5		5		5	
1/4	3,614.09	1/4	3,806.97	1/4	3,999.69	1/4	4,186.03	1/4	4,360.99	1/4		1/4		1/4		1/4		1/4	
1/2	3,618.11	1/2	3,810.99	1/2	4,003.67	1/2	4,189.80	1/2	4,363.91	1/2		1/2		1/2		1/2		1/2	
3/4	3,622.13	3/4	3,815.01	3/4	4,007.64	3/4	4,193.58	3/4	4,366.83	3/4		3/4		3/4		3/4		3/4	
6	3,626.14	6	3,819.03	6	4,011.62	6	4,197.35	6	4,369.75	6		6		6		6		6	
1/4	3,630.16	1/4	3,823.05	1/4	4,015.59	1/4	4,201.11	1/4	4,371.84	1/4		1/4		1/4		1/4		1/4	
1/2	3,634.18	1/2	3,827.06	1/2	4,019.55	1/2	4,204.86	1/2	4,373.93	1/2		1/2		1/2		1/2		1/2	
3/4	3,638.20	3/4	3,831.08	3/4	4,023.51	3/4	4,208.62	3/4	4,376.02	3/4		3/4		3/4		3/4		3/4	
7	3,642.22	7	3,835.10	7	4,027.47	7	4,212.38	7	4,378.11	7		7		7		7		7	
1/4	3,646.24	1/4	3,839.12	1/4	4,031.42	1/4	4,216.12	1/4	4,378.97	1/4		1/4		1/4		1/4		1/4	
1/2	3,650.25	1/2	3,843.14	1/2	4,035.37	1/2	4,219.86	1/2	4,379.82	1/2		1/2		1/2		1/2		1/2	
3/4	3,654.27	3/4	3,847.16	3/4	4,039.31	3/4	4,223.60	3/4	4,380.68	3/4		3/4		3/4		3/4		3/4	
8	3,658.29	8	3,851.17	8	4,043.26	8	4,227.35	8	4,381.54	8		8		8		8		8	
1/4	3,662.31	1/4	3,855.19	1/4	4,047.19	1/4	4,231.07	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,666.33	1/2	3,859.21	1/2	4,051.12	1/2	4,234.80	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,670.35	3/4	3,863.23	3/4	4,055.05	3/4	4,238.52	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,674.36	9	3,867.25	9	4,058.99	9	4,242.25	9		9		9		9		9		9	
1/4	3,678.38	1/4	3,871.27	1/4	4,062.90	1/4	4,245.96	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,682.40	1/2	3,875.28	1/2	4,066.82	1/2	4,249.67	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,686.42	3/4	3,879.30	3/4	4,070.73	3/4	4,253.38	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,690.44	10	3,883.32	10	4,074.65	10	4,257.09	10		10		10		10		10		10	
1/4	3,694.46	1/4	3,887.34	1/4	4,078.54	1/4	4,260.78	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,698.47	1/2	3,891.36	1/2	4,082.44	1/2	4,264.48	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,702.49	3/4	3,895.38	3/4	4,086.34	3/4	4,268.17	3/4		3/4		3/4		3/4		3/4		3/4	
11	3,706.51	11	3,899.39	11	4,090.24	11	4,271.86	11		11		11		11		11		11	
1/4	3,710.53	1/4	3,903.41	1/4	4,094.13	1/4	4,275.50	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,714.55	1/2	3,907.43	1/2	4,098.01	1/2	4,279.14	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,718.57	3/4	3,911.45	3/4	4,101.89	3/4	4,282.78	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 10/09/2013 CL  
CALCULATED: 10/10/2013 CL  
PRINTED: 10/10/2013 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 10/2013

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