



# BARGE "HTCO 3144"

## ULLAGE TRIM TABLE (HERMETIC)

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

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

FWD. DRAFT = 2'-00"  
 AFT DRAFT = 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'-03"

January 9, 2020

**PRECISION MEASUREMENT  
& ANALYSIS, INC.**

P.O. Box 2092  
Pearland, Texas 77588

<http://www.pmacorp.net>





# BARGE "HTCO 3144"

## 1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 17'-03 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		0	5,118.78	0	4,783.12	0	4,440.13	0	4,080.53	0	3,718.22	0	3,355.90	0	2,993.59		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,111.33	1/4	4,776.19	1/4	4,432.80	1/4	4,072.98	1/4	3,710.67	1/4	3,348.35	1/4	2,986.04		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,103.88	1/2	4,769.24	1/2	4,425.43	1/2	4,065.43	1/2	3,703.12	1/2	3,340.81	1/2	2,978.49		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,096.43	3/4	4,762.28	3/4	4,418.06	3/4	4,057.88	3/4	3,695.57	3/4	3,333.26	3/4	2,970.94		
1		1		1		1	5,088.98	1	4,755.33	1	4,410.69	1	4,050.34	1	3,688.02	1	3,325.71	1	2,963.40		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,081.53	1/4	4,748.37	1/4	4,403.33	1/4	4,042.79	1/4	3,680.47	1/4	3,318.16	1/4	2,955.85		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,074.08	1/2	4,741.39	1/2	4,395.93	1/2	4,035.24	1/2	3,672.93	1/2	3,310.61	1/2	2,948.30		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,066.63	3/4	4,734.40	3/4	4,388.53	3/4	4,027.69	3/4	3,665.38	3/4	3,303.06	3/4	2,940.75		
2		2		2		2	5,059.18	2	4,727.41	2	4,381.13	2	4,020.14	2	3,657.83	2	3,295.52	2	2,933.20		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,051.73	1/4	4,720.42	1/4	4,373.73	1/4	4,012.60	1/4	3,650.28	1/4	3,287.97	1/4	2,925.65		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,044.33	1/2	4,713.37	1/2	4,366.31	1/2	4,005.05	1/2	3,642.73	1/2	3,280.42	1/2	2,918.11		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,036.94	3/4	4,706.32	3/4	4,358.88	3/4	3,997.50	3/4	3,635.19	3/4	3,272.87	3/4	2,910.56		
3		3		3		3	5,029.54	3	4,699.28	3	4,351.45	3	3,989.95	3	3,627.64	3	3,265.32	3	2,903.01		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,022.14	1/4	4,692.23	1/4	4,344.02	1/4	3,982.40	1/4	3,620.09	1/4	3,257.78	1/4	2,895.46		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,015.15	1/2	4,685.15	1/2	4,336.56	1/2	3,974.85	1/2	3,612.54	1/2	3,250.23	1/2	2,887.91		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,008.16	3/4	4,678.06	3/4	4,329.11	3/4	3,967.31	3/4	3,604.99	3/4	3,242.68	3/4	2,880.37		
4		4		4		4	5,001.18	4	4,670.98	4	4,321.65	4	3,959.76	4	3,597.44	4	3,235.13	4	2,872.82		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,994.19	1/4	4,663.90	1/4	4,314.19	1/4	3,952.21	1/4	3,589.90	1/4	3,227.58	1/4	2,865.27		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,987.49	1/2	4,656.79	1/2	4,306.70	1/2	3,944.66	1/2	3,582.35	1/2	3,220.03	1/2	2,857.72		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,980.78	3/4	4,649.68	3/4	4,299.20	3/4	3,937.11	3/4	3,574.80	3/4	3,212.49	3/4	2,850.17		
5		5		5		5	4,974.08	5	4,642.57	5	4,291.71	5	3,929.56	5	3,567.25	5	3,204.94	5	2,842.62		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,967.38	1/4	4,635.45	1/4	4,284.22	1/4	3,922.02	1/4	3,559.70	1/4	3,197.39	1/4	2,835.08		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,960.65	1/2	4,628.31	1/2	4,276.69	1/2	3,914.47	1/2	3,552.15	1/2	3,189.84	1/2	2,827.53		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,953.91	3/4	4,621.17	3/4	4,269.17	3/4	3,906.92	3/4	3,544.61	3/4	3,182.29	3/4	2,819.98		
6		6		6		6	4,947.18	6	4,614.03	6	4,261.64	6	3,899.37	6	3,537.06	6	3,174.74	6	2,812.43		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,940.44	1/4	4,606.89	1/4	4,254.12	1/4	3,891.82	1/4	3,529.51	1/4	3,167.20	1/4	2,804.88		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,933.68	1/2	4,599.72	1/2	4,246.58	1/2	3,884.28	1/2	3,521.96	1/2	3,159.65	1/2	2,797.33		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,926.91	3/4	4,592.54	3/4	4,239.03	3/4	3,876.73	3/4	3,514.41	3/4	3,152.10	3/4	2,789.79		
7		7		7		7	4,920.14	7	4,585.37	7	4,231.49	7	3,869.18	7	3,506.87	7	3,144.55	7	2,782.24		
1/4	1/4	1/4	5,245.96	1/4	4,913.38	1/4	4,578.20	1/4	4,223.94	1/4	3,861.63	1/4	3,499.32	1/4	3,137.00	1/4	2,774.69				
1/2	1/2	1/2	5,240.85	1/2	4,906.58	1/2	4,570.99	1/2	4,216.40	1/2	3,854.08	1/2	3,491.77	1/2	3,129.46	1/2	2,767.14				
3/4	3/4	3/4	5,235.73	3/4	4,899.78	3/4	4,563.79	3/4	4,208.85	3/4	3,846.53	3/4	3,484.22	3/4	3,121.91	3/4	2,759.59				
8		8		8		8	5,230.62	8	4,892.99	8	4,556.58	8	4,201.30	8	3,838.99	8	3,476.67	8	3,114.36	8	2,752.05
1/4	1/4	1/4	5,225.50	1/4	4,886.19	1/4	4,886.19	1/4	4,549.37	1/4	4,193.75	1/4	3,831.44	1/4	3,469.12	1/4	3,106.81	1/4	2,744.50		
1/2	1/2	1/2	5,219.17	1/2	4,879.36	1/2	4,879.36	1/2	4,542.13	1/2	4,186.20	1/2	3,823.89	1/2	3,461.58	1/2	3,099.26	1/2	2,736.95		
3/4	3/4	3/4	5,212.84	3/4	4,872.54	3/4	4,872.54	3/4	4,534.89	3/4	4,178.66	3/4	3,816.34	3/4	3,454.03	3/4	3,091.71	3/4	2,729.40		
9		9		9		9	5,206.51	9	4,865.71	9	4,527.65	9	4,171.11	9	3,808.79	9	3,446.48	9	3,084.17	9	2,721.85
1/4	1/4	1/4	5,200.18	1/4	4,858.88	1/4	4,858.88	1/4	4,520.41	1/4	4,163.56	1/4	3,801.25	1/4	3,438.93	1/4	3,076.62	1/4	2,714.30		
1/2	1/2	1/2	5,192.87	1/2	4,852.03	1/2	4,852.03	1/2	4,513.14	1/2	4,156.01	1/2	3,793.70	1/2	3,431.38	1/2	3,069.07	1/2	2,706.76		
3/4	3/4	3/4	5,185.56	3/4	4,845.17	3/4	4,845.17	3/4	4,505.87	3/4	4,148.46	3/4	3,786.15	3/4	3,423.84	3/4	3,061.52	3/4	2,699.21		
10		10		10		10	5,178.25	10	4,838.31	10	4,498.60	10	4,140.91	10	3,778.60	10	3,416.29	10	3,053.97	10	2,691.66
1/4	1/4	1/4	5,170.93	1/4	4,831.46	1/4	4,831.46	1/4	4,491.33	1/4	4,133.37	1/4	3,771.05	1/4	3,408.74	1/4	3,046.43	1/4	2,684.11		
1/2	1/2	1/2	5,163.48	1/2	4,824.56	1/2	4,824.56	1/2	4,484.03	1/2	4,125.82	1/2	3,763.50	1/2	3,401.19	1/2	3,038.88	1/2	2,676.56		
3/4	3/4	3/4	5,156.03	3/4	4,817.67	3/4	4,817.67	3/4	4,476.73	3/4	4,118.27	3/4	3,755.96	3/4	3,393.64	3/4	3,031.33	3/4	2,669.02		
11		11		11		11	5,148.58	11	4,810.78	11	4,469.43	11	4,110.72	11	3,748.41	11	3,386.09	11	3,023.78	11	2,661.47
1/4	1/4	1/4	5,141.13	1/4	4,803.89	1/4	4,803.89	1/4	4,462.13	1/4	4,103.17	1/4	3,740.86	1/4	3,378.55	1/4	3,016.23	1/4	2,653.92		
1/2	1/2	1/2	5,133.68	1/2	4,796.97	1/2	4,796.97	1/2	4,454.80	1/2	4,095.63	1/2	3,733.31	1/2	3,371.00	1/2	3,008.68	1/2	2,646.37		
3/4	3/4	3/4	5,126.23	3/4	4,790.04	3/4	4,790.04	3/4	4,447.47	3/4	4,088.08	3/4	3,725.76	3/4	3,363.45	3/4	3,001.14	3/4	2,638.82		

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.  
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.  
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.  
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN WITH "HERMETIC CLOSED GAUGING DEVICE"  
 GAUGE POINT: (HERMETIC) LOCATED 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 "HTCO 3144"

## 1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 17'-03 1/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,631.28	0	2,268.83	0	1,906.38	0	1,543.94	0	1,181.58	0	819.54	0	457.10	0	94.91	0		0	
1/4	2,623.73	1/4	2,261.28	1/4	1,898.83	1/4	1,536.38	1/4	1,174.04	1/4	811.99	1/4	449.55	1/4	87.44	1/4		1/4	
1/2	2,616.18	1/2	2,253.73	1/2	1,891.28	1/2	1,528.83	1/2	1,166.50	1/2	804.44	1/2	442.02	1/2	80.67	1/2		1/2	
3/4	2,608.63	3/4	2,246.18	3/4	1,883.73	3/4	1,521.28	3/4	1,158.96	3/4	796.88	3/4	434.49	3/4	73.91	3/4		3/4	
1	2,601.08	1	2,238.63	1	1,876.18	1	1,513.73	1	1,151.42	1	789.33	1	426.96	1	67.14	1		1	
1/4	2,593.52	1/4	2,231.08	1/4	1,868.63	1/4	1,506.18	1/4	1,143.89	1/4	781.78	1/4	419.35	1/4	60.38	1/4		1/4	
1/2	2,585.97	1/2	2,223.53	1/2	1,861.08	1/2	1,498.63	1/2	1,136.35	1/2	774.23	1/2	411.80	1/2	54.87	1/2		1/2	
3/4	2,578.42	3/4	2,215.97	3/4	1,853.53	3/4	1,491.08	3/4	1,128.81	3/4	766.68	3/4	404.25	3/4	49.37	3/4		3/4	
2	2,570.87	2	2,208.42	2	1,845.98	2	1,483.53	2	1,121.27	2	759.13	2	396.70	2	43.86	2		2	
1/4	2,563.32	1/4	2,200.87	1/4	1,838.42	1/4	1,475.98	1/4	1,113.73	1/4	751.58	1/4	389.15	1/4	38.36	1/4		1/4	
1/2	2,555.77	1/2	2,193.32	1/2	1,830.87	1/2	1,468.43	1/2	1,106.19	1/2	744.03	1/2	381.60	1/2	34.11	1/2		1/2	
3/4	2,548.22	3/4	2,185.77	3/4	1,823.32	3/4	1,460.87	3/4	1,098.65	3/4	736.48	3/4	374.05	3/4	29.86	3/4		3/4	
3	2,540.67	3	2,178.22	3	1,815.77	3	1,453.32	3	1,091.12	3	728.93	3	366.50	3	25.62	3		3	
1/4	2,533.12	1/4	2,170.67	1/4	1,808.22	1/4	1,445.77	1/4	1,083.58	1/4	721.38	1/4	358.95	1/4	21.38	1/4		1/4	
1/2	2,525.57	1/2	2,163.12	1/2	1,800.67	1/2	1,438.22	1/2	1,076.04	1/2	713.83	1/2	351.39	1/2		1/2		1/2	
3/4	2,518.01	3/4	2,155.57	3/4	1,793.12	3/4	1,430.67	3/4	1,068.50	3/4	706.28	3/4	343.84	3/4		3/4		3/4	
4	2,510.46	4	2,148.02	4	1,785.57	4	1,423.12	4	1,060.96	4	698.73	4	336.29	4		4		4	
1/4	2,502.91	1/4	2,140.46	1/4	1,778.02	1/4	1,415.57	1/4	1,053.42	1/4	691.18	1/4	328.74	1/4		1/4		1/4	
1/2	2,495.36	1/2	2,132.91	1/2	1,770.47	1/2	1,408.02	1/2	1,045.88	1/2	683.62	1/2	321.19	1/2		1/2		1/2	
3/4	2,487.81	3/4	2,125.36	3/4	1,762.91	3/4	1,400.47	3/4	1,038.34	3/4	676.07	3/4	313.64	3/4		3/4		3/4	
5	2,480.26	5	2,117.81	5	1,755.36	5	1,392.92	5	1,030.81	5	668.52	5	306.09	5		5		5	
1/4	2,472.71	1/4	2,110.26	1/4	1,747.81	1/4	1,385.36	1/4	1,023.27	1/4	660.97	1/4	298.54	1/4		1/4		1/4	
1/2	2,465.16	1/2	2,102.71	1/2	1,740.26	1/2	1,377.81	1/2	1,015.73	1/2	653.42	1/2	290.99	1/2		1/2		1/2	
3/4	2,457.61	3/4	2,095.16	3/4	1,732.71	3/4	1,370.26	3/4	1,008.19	3/4	645.87	3/4	283.44	3/4		3/4		3/4	
6	2,450.06	6	2,087.61	6	1,725.16	6	1,362.71	6	1,000.65	6	638.32	6	275.89	6		6		6	
1/4	2,442.50	1/4	2,080.06	1/4	1,717.61	1/4	1,355.16	1/4	993.11	1/4	630.77	1/4	268.34	1/4		1/4		1/4	
1/2	2,434.95	1/2	2,072.51	1/2	1,710.06	1/2	1,347.61	1/2	985.57	1/2	623.22	1/2	260.79	1/2		1/2		1/2	
3/4	2,427.40	3/4	2,064.95	3/4	1,702.51	3/4	1,340.06	3/4	978.03	3/4	615.67	3/4	253.24	3/4		3/4		3/4	
7	2,419.85	7	2,057.40	7	1,694.96	7	1,332.51	7	970.50	7	608.12	7	245.68	7		7		7	
1/4	2,412.30	1/4	2,049.85	1/4	1,687.40	1/4	1,324.96	1/4	962.96	1/4	600.57	1/4	238.13	1/4		1/4		1/4	
1/2	2,404.75	1/2	2,042.30	1/2	1,679.85	1/2	1,317.41	1/2	955.42	1/2	593.02	1/2	230.58	1/2		1/2		1/2	
3/4	2,397.20	3/4	2,034.75	3/4	1,672.30	3/4	1,309.85	3/4	947.88	3/4	585.47	3/4	223.03	3/4		3/4		3/4	
8	2,389.65	8	2,027.20	8	1,664.75	8	1,302.30	8	940.34	8	577.91	8	215.48	8		8		8	
1/4	2,382.10	1/4	2,019.65	1/4	1,657.20	1/4	1,294.75	1/4	932.80	1/4	570.36	1/4	207.93	1/4		1/4		1/4	
1/2	2,374.55	1/2	2,012.10	1/2	1,649.65	1/2	1,287.20	1/2	925.25	1/2	562.81	1/2	200.36	1/2		1/2		1/2	
3/4	2,366.99	3/4	2,004.55	3/4	1,642.10	3/4	1,279.65	3/4	917.70	3/4	555.26	3/4	192.80	3/4		3/4		3/4	
9	2,359.44	9	1,997.00	9	1,634.55	9	1,272.10	9	910.15	9	547.71	9	185.23	9		9		9	
1/4	2,351.89	1/4	1,989.44	1/4	1,627.00	1/4	1,264.55	1/4	902.59	1/4	540.16	1/4	177.73	1/4		1/4		1/4	
1/2	2,344.34	1/2	1,981.89	1/2	1,619.45	1/2	1,257.00	1/2	895.04	1/2	532.61	1/2	170.18	1/2		1/2		1/2	
3/4	2,336.79	3/4	1,974.34	3/4	1,611.89	3/4	1,249.45	3/4	887.49	3/4	525.06	3/4	162.63	3/4		3/4		3/4	
10	2,329.24	10	1,966.79	10	1,604.34	10	1,241.90	10	879.94	10	517.51	10	155.08	10		10		10	
1/4	2,321.69	1/4	1,959.24	1/4	1,596.79	1/4	1,234.35	1/4	872.39	1/4	509.96	1/4	147.53	1/4		1/4		1/4	
1/2	2,314.14	1/2	1,951.69	1/2	1,589.24	1/2	1,226.81	1/2	864.84	1/2	502.41	1/2	139.97	1/2		1/2		1/2	
3/4	2,306.59	3/4	1,944.14	3/4	1,581.69	3/4	1,219.27	3/4	857.29	3/4	494.86	3/4	132.42	3/4		3/4		3/4	
11	2,299.04	11	1,936.59	11	1,574.14	11	1,211.73	11	849.74	11	487.31	11	124.87	11		11		11	
1/4	2,291.48	1/4	1,929.04	1/4	1,566.59	1/4	1,204.20	1/4	842.19	1/4	479.76	1/4	117.32	1/4		1/4		1/4	
1/2	2,283.93	1/2	1,921.49	1/2	1,559.04	1/2	1,196.66	1/2	834.64	1/2	472.20	1/2	109.85	1/2		1/2		1/2	
3/4	2,276.38	3/4	1,913.93	3/4	1,551.49	3/4	1,189.12	3/4	827.09	3/4	464.65	3/4	102.38	3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 10/16/2014 CL SW  
RECALCULATED: 01/09/2020 SW  
REPRINTED: 01/09/2020 SW

CANCELS AND SUPERCEDES  
ALL PRIOR TO 01/2020

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



# BARGE "HTCO 3144"

## 1 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 17'-03 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		0	5,117.51	0	4,781.81	0	4,438.78	0	4,079.13	0	3,716.78	0	3,354.42	0	2,992.06		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,110.06	1/4	4,774.88	1/4	4,431.45	1/4	4,071.59	1/4	3,709.23	1/4	3,346.87	1/4	2,984.51		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,102.61	1/2	4,767.93	1/2	4,424.08	1/2	4,064.04	1/2	3,701.68	1/2	3,339.32	1/2	2,976.97		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,095.15	3/4	4,760.97	3/4	4,416.71	3/4	4,056.49	3/4	3,694.13	3/4	3,331.77	3/4	2,969.42		
1		1		1		1	5,087.70	1	4,754.02	1	4,409.34	1	4,048.94	1	3,686.58	1	3,324.22	1	2,961.87		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,080.25	1/4	4,747.06	1/4	4,401.97	1/4	4,041.39	1/4	3,679.03	1/4	3,316.68	1/4	2,954.32		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,072.80	1/2	4,740.07	1/2	4,394.57	1/2	4,033.84	1/2	3,671.48	1/2	3,309.13	1/2	2,946.77		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,065.35	3/4	4,733.08	3/4	4,387.18	3/4	4,026.29	3/4	3,663.93	3/4	3,301.58	3/4	2,939.22		
2		2		2		2	5,057.90	2	4,726.09	2	4,379.78	2	4,018.74	2	3,656.38	2	3,294.03	2	2,931.67		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,050.45	1/4	4,719.10	1/4	4,372.38	1/4	4,011.19	1/4	3,648.84	1/4	3,286.48	1/4	2,924.12		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,043.05	1/2	4,712.05	1/2	4,364.95	1/2	4,003.64	1/2	3,641.29	1/2	3,278.93	1/2	2,916.57		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,035.65	3/4	4,705.01	3/4	4,357.52	3/4	3,996.09	3/4	3,633.74	3/4	3,271.38	3/4	2,909.02		
3		3		3		3	5,028.25	3	4,697.96	3	4,350.09	3	3,988.55	3	3,626.19	3	3,263.83	3	2,901.47		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,020.85	1/4	4,690.91	1/4	4,342.66	1/4	3,981.00	1/4	3,618.64	1/4	3,256.28	1/4	2,893.93		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,013.87	1/2	4,683.83	1/2	4,335.20	1/2	3,973.45	1/2	3,611.09	1/2	3,248.73	1/2	2,886.38		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,006.88	3/4	4,676.74	3/4	4,327.75	3/4	3,965.90	3/4	3,603.54	3/4	3,241.18	3/4	2,878.83		
4		4		4		4	4,999.89	4	4,669.66	4	4,320.29	4	3,958.35	4	3,595.99	4	3,233.64	4	2,871.28		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,992.90	1/4	4,662.58	1/4	4,312.83	1/4	3,950.80	1/4	3,588.44	1/4	3,226.09	1/4	2,863.73		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,986.20	1/2	4,655.47	1/2	4,305.33	1/2	3,943.25	1/2	3,580.89	1/2	3,218.54	1/2	2,856.18		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,979.49	3/4	4,648.35	3/4	4,297.84	3/4	3,935.70	3/4	3,573.34	3/4	3,210.99	3/4	2,848.63		
5		5		5		5	4,972.79	5	4,641.24	5	4,290.35	5	3,928.15	5	3,565.80	5	3,203.44	5	2,841.08		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,966.09	1/4	4,634.13	1/4	4,282.85	1/4	3,920.60	1/4	3,558.25	1/4	3,195.89	1/4	2,833.53		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,959.35	1/2	4,626.99	1/2	4,275.33	1/2	3,913.05	1/2	3,550.70	1/2	3,188.34	1/2	2,825.98		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,952.62	3/4	4,619.84	3/4	4,267.80	3/4	3,905.50	3/4	3,543.15	3/4	3,180.79	3/4	2,818.43		
6		6		6		6	4,945.88	6	4,612.70	6	4,260.28	6	3,897.96	6	3,535.60	6	3,173.24	6	2,810.89		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,939.15	1/4	4,605.56	1/4	4,252.75	1/4	3,890.41	1/4	3,528.05	1/4	3,165.69	1/4	2,803.34		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,932.38	1/2	4,598.39	1/2	4,245.20	1/2	3,882.86	1/2	3,520.50	1/2	3,158.14	1/2	2,795.79		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,925.61	3/4	4,591.21	3/4	4,237.66	3/4	3,875.31	3/4	3,512.95	3/4	3,150.59	3/4	2,788.24		
7		7		7		7	4,918.85	7	4,584.04	7	4,230.11	7	3,867.76	7	3,505.40	7	3,143.05	7	2,780.69		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,244.69	1/4	4,912.08	1/4	4,576.87	1/4	4,222.57	1/4	3,860.21	1/4	3,497.85	1/4	3,135.50	1/4	2,773.14
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,239.57	1/2	4,905.28	1/2	4,569.66	1/2	4,215.02	1/2	3,852.66	1/2	3,490.30	1/2	3,127.95	1/2	2,765.59
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,234.46	3/4	4,898.48	3/4	4,562.45	3/4	4,207.47	3/4	3,845.11	3/4	3,482.76	3/4	3,120.40	3/4	2,758.04
8		8		8		8	5,229.34	8	4,891.69	8	4,555.24	8	4,199.92	8	3,837.56	8	3,475.21	8	3,112.85	8	2,750.49
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,224.23	1/4	4,884.89	1/4	4,548.04	1/4	4,192.37	1/4	3,830.01	1/4	3,467.66	1/4	3,105.30	1/4	2,742.94
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,217.90	1/2	4,878.06	1/2	4,540.80	1/2	4,184.82	1/2	3,822.46	1/2	3,460.11	1/2	3,097.75	1/2	2,735.39
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,211.57	3/4	4,871.24	3/4	4,533.56	3/4	4,177.27	3/4	3,814.92	3/4	3,452.56	3/4	3,090.20	3/4	2,727.84
9		9		9		9	5,205.24	9	4,864.41	9	4,526.32	9	4,169.72	9	3,807.37	9	3,445.01	9	3,082.65	9	2,720.30
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,199.91	1/4	4,857.58	1/4	4,519.08	1/4	4,162.17	1/4	3,799.82	1/4	3,437.46	1/4	3,075.10	1/4	2,712.75
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,191.60	1/2	4,850.72	1/2	4,511.80	1/2	4,154.63	1/2	3,792.27	1/2	3,429.91	1/2	3,067.55	1/2	2,705.20
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,184.29	3/4	4,843.87	3/4	4,504.53	3/4	4,147.08	3/4	3,784.72	3/4	3,422.36	3/4	3,060.01	3/4	2,697.65
10		10		10		10	5,176.97	10	4,837.01	10	4,497.26	10	4,139.53	10	3,777.17	10	3,414.81	10	3,052.46	10	2,690.10
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,169.66	1/4	4,830.15	1/4	4,489.99	1/4	4,131.98	1/4	3,769.62	1/4	3,407.26	1/4	3,044.91	1/4	2,682.55
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,162.21	1/2	4,823.26	1/2	4,482.69	1/2	4,124.43	1/2	3,762.07	1/2	3,399.72	1/2	3,037.36	1/2	2,675.00
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,154.76	3/4	4,816.37	3/4	4,475.39	3/4	4,116.88	3/4	3,754.52	3/4	3,392.17	3/4	3,029.81	3/4	2,667.45
11		11		11		11	5,147.31	11	4,809.47	11	4,468.09	11	4,109.33	11	3,746.97	11	3,384.62	11	3,022.26	11	2,659.90
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,139.86	1/4	4,802.58	1/4	4,460.79	1/4	4,101.78	1/4	3,739.42	1/4	3,377.07	1/4	3,014.71	1/4	2,652.35
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,132.41	1/2	4,795.66	1/2	4,453.45	1/2	4,094.23	1/2	3,731.88	1/2	3,369.52	1/2	3,007.16	1/2	2,644.80
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,124.96	3/4	4,788.73	3/4	4,446.12	3/4	4,086.68	3/4	3,724.33	3/4	3,361.97	3/4	2,999.61	3/4	2,637.25

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.  
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.  
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.  
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN WITH "HERMETIC CLOSED GAUGING DEVICE"  
 GAUGE POINT: (HERMETIC) LOCATED 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 "HTCO 3144"

## 1 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 17'-03 1/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,629.71	0	2,267.22	0	1,904.72	0	1,542.23	0	1,180.29	0	819.64	0	457.16	0	94.92	0		0	
1/4	2,622.16	1/4	2,259.66	1/4	1,897.17	1/4	1,534.68	1/4	1,172.79	1/4	812.09	1/4	449.61	1/4	87.45	1/4		1/4	
1/2	2,614.60	1/2	2,252.11	1/2	1,889.62	1/2	1,527.13	1/2	1,165.29	1/2	804.54	1/2	442.08	1/2	80.68	1/2		1/2	
3/4	2,607.05	3/4	2,244.56	3/4	1,882.07	3/4	1,519.58	3/4	1,157.79	3/4	796.98	3/4	434.54	3/4	73.92	3/4		3/4	
1	2,599.50	1	2,237.01	1	1,874.52	1	1,512.03	1	1,150.29	1	789.43	1	427.01	1	67.15	1		1	
1/4	2,591.95	1/4	2,229.46	1/4	1,866.97	1/4	1,504.47	1/4	1,142.79	1/4	781.88	1/4	419.40	1/4	60.39	1/4		1/4	
1/2	2,584.40	1/2	2,221.90	1/2	1,859.41	1/2	1,496.92	1/2	1,135.29	1/2	774.33	1/2	411.85	1/2	54.88	1/2		1/2	
3/4	2,576.84	3/4	2,214.35	3/4	1,851.86	3/4	1,489.37	3/4	1,127.79	3/4	766.78	3/4	404.30	3/4	49.38	3/4		3/4	
2	2,569.29	2	2,206.80	2	1,844.31	2	1,481.82	2	1,120.29	2	759.23	2	396.75	2	43.87	2		2	
1/4	2,561.74	1/4	2,199.25	1/4	1,836.76	1/4	1,474.27	1/4	1,112.79	1/4	751.67	1/4	389.20	1/4	38.37	1/4		1/4	
1/2	2,554.19	1/2	2,191.70	1/2	1,829.21	1/2	1,466.71	1/2	1,105.29	1/2	744.12	1/2	381.65	1/2	34.12	1/2		1/2	
3/4	2,546.64	3/4	2,184.15	3/4	1,821.65	3/4	1,459.16	3/4	1,097.79	3/4	736.57	3/4	374.09	3/4	29.87	3/4		3/4	
3	2,539.08	3	2,176.59	3	1,814.10	3	1,451.61	3	1,090.29	3	729.02	3	366.54	3	25.62	3		3	
1/4	2,531.53	1/4	2,169.04	1/4	1,806.55	1/4	1,444.06	1/4	1,082.79	1/4	721.47	1/4	358.99	1/4	21.38	1/4		1/4	
1/2	2,523.98	1/2	2,161.49	1/2	1,799.00	1/2	1,436.51	1/2	1,075.29	1/2	713.92	1/2	351.44	1/2		1/2		1/2	
3/4	2,516.43	3/4	2,153.94	3/4	1,791.45	3/4	1,428.96	3/4	1,067.79	3/4	706.37	3/4	343.89	3/4		3/4		3/4	
4	2,508.88	4	2,146.39	4	1,783.89	4	1,421.40	4	1,060.28	4	698.81	4	336.34	4		4		4	
1/4	2,501.33	1/4	2,138.83	1/4	1,776.34	1/4	1,413.85	1/4	1,052.78	1/4	691.26	1/4	328.79	1/4		1/4		1/4	
1/2	2,493.77	1/2	2,131.28	1/2	1,768.79	1/2	1,406.30	1/2	1,045.28	1/2	683.71	1/2	321.23	1/2		1/2		1/2	
3/4	2,486.22	3/4	2,123.73	3/4	1,761.24	3/4	1,398.75	3/4	1,037.78	3/4	676.16	3/4	313.68	3/4		3/4		3/4	
5	2,478.67	5	2,116.18	5	1,753.69	5	1,391.20	5	1,030.28	5	668.61	5	306.13	5		5		5	
1/4	2,471.12	1/4	2,108.63	1/4	1,746.14	1/4	1,383.64	1/4	1,022.78	1/4	661.06	1/4	298.58	1/4		1/4		1/4	
1/2	2,463.57	1/2	2,101.07	1/2	1,738.58	1/2	1,376.09	1/2	1,015.28	1/2	653.50	1/2	291.03	1/2		1/2		1/2	
3/4	2,456.01	3/4	2,093.52	3/4	1,731.03	3/4	1,368.54	3/4	1,007.78	3/4	645.95	3/4	283.48	3/4		3/4		3/4	
6	2,448.46	6	2,085.97	6	1,723.48	6	1,360.99	6	1,000.28	6	638.40	6	275.92	6		6		6	
1/4	2,440.91	1/4	2,078.42	1/4	1,715.93	1/4	1,353.44	1/4	992.78	1/4	630.85	1/4	268.37	1/4		1/4		1/4	
1/2	2,433.36	1/2	2,070.87	1/2	1,708.38	1/2	1,345.88	1/2	985.28	1/2	623.30	1/2	260.82	1/2		1/2		1/2	
3/4	2,425.81	3/4	2,063.31	3/4	1,700.82	3/4	1,338.33	3/4	977.78	3/4	615.75	3/4	253.27	3/4		3/4		3/4	
7	2,418.25	7	2,055.76	7	1,693.27	7	1,330.78	7	970.28	7	608.19	7	245.72	7		7		7	
1/4	2,410.70	1/4	2,048.21	1/4	1,685.72	1/4	1,323.23	1/4	962.78	1/4	600.64	1/4	238.17	1/4		1/4		1/4	
1/2	2,403.15	1/2	2,040.66	1/2	1,678.17	1/2	1,315.68	1/2	955.28	1/2	593.09	1/2	230.61	1/2		1/2		1/2	
3/4	2,395.60	3/4	2,033.11	3/4	1,670.62	3/4	1,308.12	3/4	947.78	3/4	585.54	3/4	223.06	3/4		3/4		3/4	
8	2,388.05	8	2,025.56	8	1,663.06	8	1,300.57	8	940.28	8	577.99	8	215.51	8		8		8	
1/4	2,380.49	1/4	2,018.00	1/4	1,655.51	1/4	1,293.02	1/4	932.78	1/4	570.44	1/4	207.96	1/4		1/4		1/4	
1/2	2,372.94	1/2	2,010.45	1/2	1,647.96	1/2	1,285.47	1/2	925.26	1/2	562.88	1/2	200.39	1/2		1/2		1/2	
3/4	2,365.39	3/4	2,002.90	3/4	1,640.41	3/4	1,277.93	3/4	917.74	3/4	555.33	3/4	192.84	3/4		3/4		3/4	
9	2,357.84	9	1,995.35	9	1,632.86	9	1,270.38	9	910.22	9	547.78	9	185.25	9		9		9	
1/4	2,350.29	1/4	1,987.80	1/4	1,625.30	1/4	1,262.83	1/4	902.71	1/4	540.23	1/4	177.75	1/4		1/4		1/4	
1/2	2,342.74	1/2	1,980.24	1/2	1,617.75	1/2	1,255.32	1/2	895.16	1/2	532.68	1/2	170.20	1/2		1/2		1/2	
3/4	2,335.18	3/4	1,972.69	3/4	1,610.20	3/4	1,247.81	3/4	887.60	3/4	525.13	3/4	162.65	3/4		3/4		3/4	
10	2,327.63	10	1,965.14	10	1,602.65	10	1,240.30	10	880.05	10	517.58	10	155.10	10		10		10	
1/4	2,320.08	1/4	1,957.59	1/4	1,595.10	1/4	1,232.79	1/4	872.50	1/4	510.02	1/4	147.55	1/4		1/4		1/4	
1/2	2,312.53	1/2	1,950.04	1/2	1,587.55	1/2	1,225.29	1/2	864.95	1/2	502.47	1/2	140.00	1/2		1/2		1/2	
3/4	2,304.98	3/4	1,942.48	3/4	1,579.99	3/4	1,217.79	3/4	857.40	3/4	494.92	3/4	132.44	3/4		3/4		3/4	
11	2,297.42	11	1,934.93	11	1,572.44	11	1,210.29	11	849.85	11	487.37	11	124.89	11		11		11	
1/4	2,289.87	1/4	1,927.38	1/4	1,564.89	1/4	1,202.79	1/4	842.29	1/4	479.82	1/4	117.34	1/4		1/4		1/4	
1/2	2,282.32	1/2	1,919.83	1/2	1,557.34	1/2	1,195.29	1/2	834.74	1/2	472.27	1/2	109.87	1/2		1/2		1/2	
3/4	2,274.77	3/4	1,912.28	3/4	1,549.79	3/4	1,187.79	3/4	827.19	3/4	464.71	3/4	102.39	3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 10/16/2014 CL SW  
RECALCULATED: 01/09/2020 SW  
REPRINTED: 01/09/2020 SW

CANCELS AND SUPERCEDES  
ALL PRIOR TO 01/2020

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



# BARGE "HTCO 3144"

## 2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 17'-03"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT
0		0		0		0	5,097.82	0	4,763.58	0	4,421.10	0	4,062.24	0	3,700.88	0	3,339.52	0	2,978.16
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,090.39	1/4	4,756.65	1/4	4,413.75	1/4	4,054.71	1/4	3,693.35	1/4	3,331.99	1/4	2,970.63
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,082.96	1/2	4,749.71	1/2	4,406.40	1/2	4,047.18	1/2	3,685.82	1/2	3,324.46	1/2	2,963.11
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,075.53	3/4	4,742.77	3/4	4,399.05	3/4	4,039.65	3/4	3,678.29	3/4	3,316.94	3/4	2,955.58
1		1		1		1	5,068.10	1	4,735.84	1	4,391.70	1	4,032.12	1	3,670.77	1	3,309.41	1	2,948.05
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,060.67	1/4	4,728.87	1/4	4,384.33	1/4	4,024.60	1/4	3,663.24	1/4	3,301.88	1/4	2,940.52
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,053.24	1/2	4,721.90	1/2	4,376.95	1/2	4,017.07	1/2	3,655.71	1/2	3,294.35	1/2	2,932.99
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,045.81	3/4	4,714.93	3/4	4,369.57	3/4	4,009.54	3/4	3,648.18	3/4	3,286.82	3/4	2,925.46
2		2		2		2	5,038.38	2	4,707.96	2	4,362.19	2	4,002.01	2	3,640.65	2	3,279.29	2	2,917.94
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,031.01	1/4	4,700.93	1/4	4,354.78	1/4	3,994.48	1/4	3,633.12	1/4	3,271.77	1/4	2,910.41
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,023.63	1/2	4,693.90	1/2	4,347.37	1/2	3,986.95	1/2	3,625.60	1/2	3,264.24	1/2	2,902.88
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,016.25	3/4	4,686.87	3/4	4,339.97	3/4	3,979.43	3/4	3,618.07	3/4	3,256.71	3/4	2,895.35
3		3		3		3	5,008.87	3	4,679.84	3	4,332.56	3	3,971.90	3	3,610.54	3	3,249.18	3	2,887.82
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,001.90	1/4	4,672.78	1/4	4,325.12	1/4	3,964.37	1/4	3,603.01	1/4	3,241.65	1/4	2,880.29
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,994.93	1/2	4,665.71	1/2	4,317.68	1/2	3,956.84	1/2	3,595.48	1/2	3,234.12	1/2	2,872.77
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,987.96	3/4	4,658.65	3/4	4,310.24	3/4	3,949.31	3/4	3,587.95	3/4	3,226.60	3/4	2,865.24
4		4		4		4	4,980.99	4	4,651.59	4	4,302.80	4	3,941.78	4	3,580.43	4	3,219.07	4	2,857.71
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,974.31	1/4	4,644.50	1/4	4,295.33	1/4	3,934.26	1/4	3,572.90	1/4	3,211.54	1/4	2,850.18
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,967.63	1/2	4,637.40	1/2	4,287.86	1/2	3,926.73	1/2	3,565.37	1/2	3,204.01	1/2	2,842.65
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,960.94	3/4	4,630.31	3/4	4,280.39	3/4	3,919.20	3/4	3,557.84	3/4	3,196.48	3/4	2,835.12
5		5		5		5	4,954.26	5	4,623.22	5	4,272.91	5	3,911.67	5	3,550.31	5	3,188.95	5	2,827.60
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,947.54	1/4	4,616.10	1/4	4,265.41	1/4	3,904.14	1/4	3,542.78	1/4	3,181.43	1/4	2,820.07
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,940.83	1/2	4,608.97	1/2	4,257.90	1/2	3,896.62	1/2	3,535.26	1/2	3,173.90	1/2	2,812.54
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,934.11	3/4	4,601.85	3/4	4,250.40	3/4	3,889.09	3/4	3,527.73	3/4	3,166.37	3/4	2,805.01
6		6		6		6	4,927.39	6	4,594.73	6	4,242.89	6	3,881.56	6	3,520.20	6	3,158.84	6	2,797.48
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,920.64	1/4	4,587.57	1/4	4,235.37	1/4	3,874.03	1/4	3,512.67	1/4	3,151.31	1/4	2,789.95
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,913.89	1/2	4,580.42	1/2	4,227.85	1/2	3,866.50	1/2	3,505.14	1/2	3,143.79	1/2	2,782.43
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,907.15	3/4	4,573.27	3/4	4,220.33	3/4	3,858.97	3/4	3,497.62	3/4	3,136.26	3/4	2,774.90
7		7		7	5,232.09	7	4,900.40	7	4,566.11	7	4,212.80	7	3,851.45	7	3,490.09	7	3,128.73	7	2,767.37
1/4	1/4	1/4	1/4	1/4	5,226.99	1/4	4,893.62	1/4	4,558.93	1/4	4,205.28	1/4	3,843.92	1/4	3,482.56	1/4	3,121.20	1/4	2,759.84
1/2	1/2	1/2	1/2	1/2	5,221.89	1/2	4,886.84	1/2	4,551.74	1/2	4,197.75	1/2	3,836.39	1/2	3,475.03	1/2	3,113.67	1/2	2,752.31
3/4	3/4	3/4	3/4	3/4	5,216.79	3/4	4,880.06	3/4	4,544.55	3/4	4,190.22	3/4	3,828.86	3/4	3,467.50	3/4	3,106.14	3/4	2,744.79
8		8		8	5,211.68	8	4,873.29	8	4,537.36	8	4,182.69	8	3,821.33	8	3,459.97	8	3,098.62	8	2,737.26
1/4	1/4	1/4	1/4	1/4	5,205.37	1/4	4,866.48	1/4	4,530.14	1/4	4,175.16	1/4	3,813.80	1/4	3,452.45	1/4	3,091.09	1/4	2,729.73
1/2	1/2	1/2	1/2	1/2	5,199.06	1/2	4,859.67	1/2	4,522.92	1/2	4,167.63	1/2	3,806.28	1/2	3,444.92	1/2	3,083.56	1/2	2,722.20
3/4	3/4	3/4	3/4	3/4	5,192.75	3/4	4,852.86	3/4	4,515.70	3/4	4,160.11	3/4	3,798.75	3/4	3,437.39	3/4	3,076.03	3/4	2,714.67
9		9		9	5,186.44	9	4,846.05	9	4,508.48	9	4,152.58	9	3,791.22	9	3,429.86	9	3,068.50	9	2,707.14
1/4	1/4	1/4	1/4	1/4	5,179.14	1/4	4,839.21	1/4	4,501.23	1/4	4,145.05	1/4	3,783.69	1/4	3,422.33	1/4	3,060.97	1/4	2,699.62
1/2	1/2	1/2	1/2	1/2	5,171.85	1/2	4,832.37	1/2	4,493.98	1/2	4,137.52	1/2	3,776.16	1/2	3,414.80	1/2	3,053.45	1/2	2,692.09
3/4	3/4	3/4	3/4	3/4	5,164.56	3/4	4,825.54	3/4	4,486.73	3/4	4,129.99	3/4	3,768.63	3/4	3,407.28	3/4	3,045.92	3/4	2,684.56
10		10		10	5,157.26	10	4,818.70	10	4,479.48	10	4,122.46	10	3,761.11	10	3,399.75	10	3,038.39	10	2,677.03
1/4	1/4	1/4	1/4	1/4	5,149.83	1/4	4,811.82	1/4	4,472.20	1/4	4,114.94	1/4	3,753.58	1/4	3,392.22	1/4	3,030.86	1/4	2,669.50
1/2	1/2	1/2	1/2	1/2	5,142.40	1/2	4,804.95	1/2	4,464.92	1/2	4,107.41	1/2	3,746.05	1/2	3,384.69	1/2	3,023.33	1/2	2,661.97
3/4	3/4	3/4	3/4	3/4	5,134.97	3/4	4,798.08	3/4	4,457.64	3/4	4,099.88	3/4	3,738.52	3/4	3,377.16	3/4	3,015.80	3/4	2,654.45
11		11		11	5,127.54	11	4,791.21	11	4,450.36	11	4,092.35	11	3,730.99	11	3,369.63	11	3,008.28	11	2,646.92
1/4	1/4	1/4	1/4	1/4	5,120.11	1/4	4,784.30	1/4	4,443.04	1/4	4,084.82	1/4	3,723.46	1/4	3,362.11	1/4	3,000.75	1/4	2,639.39
1/2	1/2	1/2	1/2	1/2	5,112.68	1/2	4,777.39	1/2	4,435.73	1/2	4,077.29	1/2	3,715.94	1/2	3,354.58	1/2	2,993.22	1/2	2,631.86
3/4	3/4	3/4	3/4	3/4	5,105.25	3/4	4,770.49	3/4	4,428.41	3/4	4,069.77	3/4	3,708.41	3/4	3,347.05	3/4	2,985.69	3/4	2,624.32

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.  
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.  
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.  
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN WITH "HERMETIC CLOSED GAUGING DEVICE"  
 GAUGE POINT: (HERMETIC) LOCATED 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 "HTCO 3144"

## 2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 17'-03"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,616.79	0	2,255.31	0	1,893.82	0	1,532.33	0	1,170.94	0	809.84	0	448.37	0	87.21	0		0	
1/4	2,609.26	1/4	2,247.77	1/4	1,886.29	1/4	1,524.80	1/4	1,163.43	1/4	802.31	1/4	440.86	1/4	80.46	1/4		1/4	
1/2	2,601.73	1/2	2,240.24	1/2	1,878.76	1/2	1,517.27	1/2	1,155.91	1/2	794.78	1/2	433.34	1/2	73.72	1/2		1/2	
3/4	2,594.20	3/4	2,232.71	3/4	1,871.22	3/4	1,509.74	3/4	1,148.39	3/4	787.25	3/4	425.83	3/4	66.97	3/4		3/4	
1	2,586.67	1	2,225.18	1	1,863.69	1	1,502.21	1	1,140.87	1	779.72	1	418.25	1	60.22	1		1	
1/4	2,579.14	1/4	2,217.65	1/4	1,856.16	1/4	1,494.67	1/4	1,133.35	1/4	772.19	1/4	410.71	1/4	54.73	1/4		1/4	
1/2	2,571.61	1/2	2,210.12	1/2	1,848.63	1/2	1,487.14	1/2	1,125.83	1/2	764.66	1/2	403.18	1/2	49.24	1/2		1/2	
3/4	2,564.08	3/4	2,202.59	3/4	1,841.10	3/4	1,479.61	3/4	1,118.31	3/4	757.13	3/4	395.65	3/4	43.75	3/4		3/4	
2	2,556.55	2	2,195.06	2	1,833.57	2	1,472.08	2	1,110.79	2	749.60	2	388.12	2	38.26	2		2	
1/4	2,549.01	1/4	2,187.53	1/4	1,826.04	1/4	1,464.55	1/4	1,103.28	1/4	742.07	1/4	380.59	1/4	34.02	1/4		1/4	
1/2	2,541.48	1/2	2,180.00	1/2	1,818.51	1/2	1,457.02	1/2	1,095.76	1/2	734.54	1/2	373.06	1/2	29.79	1/2		1/2	
3/4	2,533.95	3/4	2,172.46	3/4	1,810.98	3/4	1,449.49	3/4	1,088.24	3/4	727.01	3/4	365.53	3/4	25.55	3/4		3/4	
3	2,526.42	3	2,164.93	3	1,803.45	3	1,441.96	3	1,080.72	3	719.47	3	358.00	3	21.32	3		3	
1/4	2,518.89	1/4	2,157.40	1/4	1,795.91	1/4	1,434.43	1/4	1,073.20	1/4	711.94	1/4	350.47	1/4		1/4		1/4	
1/2	2,511.36	1/2	2,149.87	1/2	1,788.38	1/2	1,426.90	1/2	1,065.68	1/2	704.41	1/2	342.94	1/2		1/2		1/2	
3/4	2,503.83	3/4	2,142.34	3/4	1,780.85	3/4	1,419.36	3/4	1,058.16	3/4	696.88	3/4	335.41	3/4		3/4		3/4	
4	2,496.30	4	2,134.81	4	1,773.32	4	1,411.83	4	1,050.64	4	689.35	4	327.88	4		4		4	
1/4	2,488.77	1/4	2,127.28	1/4	1,765.79	1/4	1,404.30	1/4	1,043.13	1/4	681.82	1/4	320.35	1/4		1/4		1/4	
1/2	2,481.24	1/2	2,119.75	1/2	1,758.26	1/2	1,396.77	1/2	1,035.61	1/2	674.29	1/2	312.82	1/2		1/2		1/2	
3/4	2,473.70	3/4	2,112.22	3/4	1,750.73	3/4	1,389.24	3/4	1,028.09	3/4	666.76	3/4	305.28	3/4		3/4		3/4	
5	2,466.17	5	2,104.69	5	1,743.20	5	1,381.71	5	1,020.57	5	659.23	5	297.75	5		5		5	
1/4	2,458.64	1/4	2,097.15	1/4	1,735.67	1/4	1,374.18	1/4	1,013.05	1/4	651.70	1/4	290.22	1/4		1/4		1/4	
1/2	2,451.11	1/2	2,089.62	1/2	1,728.14	1/2	1,366.65	1/2	1,005.53	1/2	644.17	1/2	282.69	1/2		1/2		1/2	
3/4	2,443.58	3/4	2,082.09	3/4	1,720.60	3/4	1,359.12	3/4	998.01	3/4	636.64	3/4	275.16	3/4		3/4		3/4	
6	2,436.05	6	2,074.56	6	1,713.07	6	1,351.59	6	990.49	6	629.11	6	267.63	6		6		6	
1/4	2,428.52	1/4	2,067.03	1/4	1,705.54	1/4	1,344.05	1/4	982.97	1/4	621.58	1/4	260.10	1/4		1/4		1/4	
1/2	2,420.99	1/2	2,059.50	1/2	1,698.01	1/2	1,336.52	1/2	975.46	1/2	614.05	1/2	252.57	1/2		1/2		1/2	
3/4	2,413.46	3/4	2,051.97	3/4	1,690.48	3/4	1,328.99	3/4	967.94	3/4	606.51	3/4	245.04	3/4		3/4		3/4	
7	2,405.93	7	2,044.44	7	1,682.95	7	1,321.46	7	960.42	7	598.98	7	237.51	7		7		7	
1/4	2,398.39	1/4	2,036.91	1/4	1,675.42	1/4	1,313.93	1/4	952.90	1/4	591.45	1/4	229.98	1/4		1/4		1/4	
1/2	2,390.86	1/2	2,029.38	1/2	1,667.89	1/2	1,306.40	1/2	945.38	1/2	583.92	1/2	222.45	1/2		1/2		1/2	
3/4	2,383.33	3/4	2,021.84	3/4	1,660.36	3/4	1,298.87	3/4	937.86	3/4	576.39	3/4	214.92	3/4		3/4		3/4	
8	2,375.80	8	2,014.31	8	1,652.83	8	1,291.34	8	930.33	8	568.86	8	207.39	8		8		8	
1/4	2,368.27	1/4	2,006.78	1/4	1,645.29	1/4	1,283.81	1/4	922.80	1/4	561.33	1/4	199.84	1/4		1/4		1/4	
1/2	2,360.74	1/2	1,999.25	1/2	1,637.76	1/2	1,276.28	1/2	915.27	1/2	553.80	1/2	192.29	1/2		1/2		1/2	
3/4	2,353.21	3/4	1,991.72	3/4	1,630.23	3/4	1,268.74	3/4	907.74	3/4	546.27	3/4	184.74	3/4		3/4		3/4	
9	2,345.68	9	1,984.19	9	1,622.70	9	1,261.21	9	900.21	9	538.74	9	177.26	9		9		9	
1/4	2,338.15	1/4	1,976.66	1/4	1,615.17	1/4	1,253.68	1/4	892.68	1/4	531.21	1/4	169.73	1/4		1/4		1/4	
1/2	2,330.62	1/2	1,969.13	1/2	1,607.64	1/2	1,246.15	1/2	885.15	1/2	523.68	1/2	162.20	1/2		1/2		1/2	
3/4	2,323.08	3/4	1,961.60	3/4	1,600.11	3/4	1,238.62	3/4	877.62	3/4	516.15	3/4	154.67	3/4		3/4		3/4	
10	2,315.55	10	1,954.07	10	1,592.58	10	1,231.10	10	870.09	10	508.62	10	147.14	10		10		10	
1/4	2,308.02	1/4	1,946.53	1/4	1,585.05	1/4	1,223.58	1/4	862.56	1/4	501.08	1/4	139.61	1/4		1/4		1/4	
1/2	2,300.49	1/2	1,939.00	1/2	1,577.52	1/2	1,216.06	1/2	855.03	1/2	493.55	1/2	132.08	1/2		1/2		1/2	
3/4	2,292.96	3/4	1,931.47	3/4	1,569.98	3/4	1,208.54	3/4	847.50	3/4	486.02	3/4	124.55	3/4		3/4		3/4	
11	2,285.43	11	1,923.94	11	1,562.45	11	1,201.02	11	839.97	11	478.49	11	117.02	11		11		11	
1/4	2,277.90	1/4	1,916.41	1/4	1,554.92	1/4	1,193.50	1/4	832.44	1/4	470.96	1/4	109.56	1/4		1/4		1/4	
1/2	2,270.37	1/2	1,908.88	1/2	1,547.39	1/2	1,185.98	1/2	824.90	1/2	463.43	1/2	102.11	1/2		1/2		1/2	
3/4	2,262.84	3/4	1,901.35	3/4	1,539.86	3/4	1,178.46	3/4	817.37	3/4	455.90	3/4	94.66	3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 10/16/2014 CL SW  
RECALCULATED: 01/09/2020 SW  
REPRINTED: 01/09/2020 SW

CANCELS AND SUPERCEDES  
ALL PRIOR TO 01/2020

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& ANALYSIS, INC.  
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Pearland, Texas 77588  
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# BARGE "HTCO 3144"

## 2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 17'-03 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
							5,088.78		4,754.05		4,412.00		4,053.40		3,692.08		3,330.77		2,969.45		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,081.35	1/4	4,747.14	1/4	4,404.69	1/4	4,045.87	1/4	3,684.56	1/4	3,323.24	1/4	2,961.93		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,073.92	1/2	4,740.21	1/2	4,397.34	1/2	4,038.34	1/2	3,677.03	1/2	3,315.71	1/2	2,954.40		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,066.49	3/4	4,733.27	3/4	4,390.00	3/4	4,030.82	3/4	3,669.50	3/4	3,308.19	3/4	2,946.87		
<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>5,059.06</b>	<b>1</b>	<b>4,726.34</b>	<b>1</b>	<b>4,382.65</b>	<b>1</b>	<b>4,023.29</b>	<b>1</b>	<b>3,661.97</b>	<b>1</b>	<b>3,300.66</b>	<b>1</b>	<b>2,939.34</b>		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,051.64	1/4	4,719.40	1/4	4,375.30	1/4	4,015.76	1/4	3,654.45	1/4	3,293.13	1/4	2,931.82		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,044.21	1/2	4,712.43	1/2	4,367.92	1/2	4,008.23	1/2	3,646.92	1/2	3,285.60	1/2	2,924.29		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,036.78	3/4	4,705.46	3/4	4,360.55	3/4	4,000.71	3/4	3,639.39	3/4	3,278.08	3/4	2,916.76		
<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>5,029.35</b>	<b>2</b>	<b>4,698.49</b>	<b>2</b>	<b>4,353.17</b>	<b>2</b>	<b>3,993.18</b>	<b>2</b>	<b>3,631.86</b>	<b>2</b>	<b>3,270.55</b>	<b>2</b>	<b>2,909.23</b>		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,021.92	1/4	4,691.52	1/4	4,345.79	1/4	3,985.65	1/4	3,624.34	1/4	3,263.02	1/4	2,901.71		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,014.54	1/2	4,684.49	1/2	4,338.38	1/2	3,978.12	1/2	3,616.81	1/2	3,255.49	1/2	2,894.18		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,007.17	3/4	4,677.46	3/4	4,330.98	3/4	3,970.60	3/4	3,609.28	3/4	3,247.97	3/4	2,886.65		
<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>4,999.79</b>	<b>3</b>	<b>4,670.44</b>	<b>3</b>	<b>4,323.57</b>	<b>3</b>	<b>3,963.07</b>	<b>3</b>	<b>3,601.75</b>	<b>3</b>	<b>3,240.44</b>	<b>3</b>	<b>2,879.12</b>		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,992.41	1/4	4,663.41	1/4	4,316.16	1/4	3,955.54	1/4	3,594.23	1/4	3,232.91	1/4	2,871.60		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,985.44	1/2	4,656.35	1/2	4,308.72	1/2	3,948.02	1/2	3,586.70	1/2	3,225.38	1/2	2,864.07		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,978.47	3/4	4,649.28	3/4	4,301.29	3/4	3,940.49	3/4	3,579.17	3/4	3,217.86	3/4	2,856.54		
<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4,971.50</b>	<b>4</b>	<b>4,642.22</b>	<b>4</b>	<b>4,293.85</b>	<b>4</b>	<b>3,932.96</b>	<b>4</b>	<b>3,571.65</b>	<b>4</b>	<b>3,210.33</b>	<b>4</b>	<b>2,849.01</b>		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,964.53	1/4	4,635.16	1/4	4,286.41	1/4	3,925.43	1/4	3,564.12	1/4	3,202.80	1/4	2,841.49		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,957.85	1/2	4,628.07	1/2	4,278.94	1/2	3,917.91	1/2	3,556.59	1/2	3,195.28	1/2	2,833.96		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,951.17	3/4	4,620.97	3/4	4,271.47	3/4	3,910.38	3/4	3,549.06	3/4	3,187.75	3/4	2,826.43		
<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>4,944.49</b>	<b>5</b>	<b>4,613.88</b>	<b>5</b>	<b>4,263.99</b>	<b>5</b>	<b>3,902.85</b>	<b>5</b>	<b>3,541.54</b>	<b>5</b>	<b>3,180.22</b>	<b>5</b>	<b>2,818.91</b>		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,937.80	1/4	4,606.79	1/4	4,256.52	1/4	3,895.32	1/4	3,534.01	1/4	3,172.69	1/4	2,811.38		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,931.09	1/2	4,599.67	1/2	4,249.02	1/2	3,887.80	1/2	3,526.48	1/2	3,165.17	1/2	2,803.85		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,924.37	3/4	4,592.55	3/4	4,241.51	3/4	3,880.27	3/4	3,518.95	3/4	3,157.64	3/4	2,796.32		
<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>4,917.65</b>	<b>6</b>	<b>4,585.42</b>	<b>6</b>	<b>4,234.01</b>	<b>6</b>	<b>3,872.74</b>	<b>6</b>	<b>3,511.43</b>	<b>6</b>	<b>3,150.11</b>	<b>6</b>	<b>2,788.80</b>		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,910.94	1/4	4,578.30	1/4	4,226.51	1/4	3,865.21	1/4	3,503.90	1/4	3,142.58	1/4	2,781.27		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,904.19	1/2	4,571.15	1/2	4,218.98	1/2	3,857.69	1/2	3,496.37	1/2	3,135.06	1/2	2,773.75		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,897.44	3/4	4,564.00	3/4	4,211.46	3/4	3,850.16	3/4	3,488.84	3/4	3,127.53	3/4	2,766.24		
<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>4,890.69</b>	<b>7</b>	<b>4,556.84</b>	<b>7</b>	<b>4,203.94</b>	<b>7</b>	<b>3,842.63</b>	<b>7</b>	<b>3,481.32</b>	<b>7</b>	<b>3,120.00</b>	<b>7</b>	<b>2,758.73</b>		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,215.60	1/4	4,883.95	1/4	4,549.69	1/4	4,196.42	1/4	3,835.10	1/4	3,473.79	1/4	3,112.47	1/4	2,751.16
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,210.50	1/2	4,877.17	1/2	4,542.50	1/2	4,188.89	1/2	3,827.58	1/2	3,466.26	1/2	3,104.95	1/2	2,743.63
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,205.40	3/4	4,870.39	3/4	4,535.32	3/4	4,181.36	3/4	3,820.05	3/4	3,458.73	3/4	3,097.42	3/4	2,736.10
<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>5,200.30</b>	<b>8</b>	<b>4,863.61</b>	<b>8</b>	<b>4,528.13</b>	<b>8</b>	<b>4,173.84</b>	<b>8</b>	<b>3,812.52</b>	<b>8</b>	<b>3,451.21</b>	<b>8</b>	<b>3,089.89</b>	<b>8</b>	<b>2,728.58</b>
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,195.20	1/4	4,856.84	1/4	4,520.95	1/4	4,166.31	1/4	3,804.99	1/4	3,443.68	1/4	3,082.36	1/4	2,721.05
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,188.89	1/2	4,850.03	1/2	4,513.73	1/2	4,158.78	1/2	3,797.47	1/2	3,436.15	1/2	3,074.84	1/2	2,713.52
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,182.58	3/4	4,843.22	3/4	4,506.51	3/4	4,151.25	3/4	3,789.94	3/4	3,428.62	3/4	3,067.31	3/4	2,705.99
<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>5,176.26</b>	<b>9</b>	<b>4,836.41</b>	<b>9</b>	<b>4,499.29</b>	<b>9</b>	<b>4,143.73</b>	<b>9</b>	<b>3,782.41</b>	<b>9</b>	<b>3,421.10</b>	<b>9</b>	<b>3,059.78</b>	<b>9</b>	<b>2,698.47</b>
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,169.95	1/4	4,829.60	1/4	4,492.07	1/4	4,136.20	1/4	3,774.88	1/4	3,413.57	1/4	3,052.25	1/4	2,690.94
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,162.66	1/2	4,822.77	1/2	4,484.82	1/2	4,128.67	1/2	3,767.36	1/2	3,406.04	1/2	3,044.73	1/2	2,683.41
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,155.37	3/4	4,815.93	3/4	4,477.57	3/4	4,121.15	3/4	3,759.83	3/4	3,398.51	3/4	3,037.20	3/4	2,675.88
<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>5,148.08</b>	<b>10</b>	<b>4,809.09</b>	<b>10</b>	<b>4,470.32</b>	<b>10</b>	<b>4,113.62</b>	<b>10</b>	<b>3,752.30</b>	<b>10</b>	<b>3,390.99</b>	<b>10</b>	<b>3,029.67</b>	<b>10</b>	<b>2,668.36</b>
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,140.79	1/4	4,802.25	1/4	4,463.07	1/4	4,106.09	1/4	3,744.78	1/4	3,383.46	1/4	3,022.14	1/4	2,660.83
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,133.36	1/2	4,795.38	1/2	4,455.79	1/2	4,098.56	1/2	3,737.25	1/2	3,375.93	1/2	3,014.62	1/2	2,653.29
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,125.93	3/4	4,788.51	3/4	4,448.51	3/4	4,091.04	3/4	3,729.72	3/4	3,368.41	3/4	3,007.09	3/4	2,645.75
<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>5,118.50</b>	<b>11</b>	<b>4,781.64</b>	<b>11</b>	<b>4,441.23</b>	<b>11</b>	<b>4,083.51</b>	<b>11</b>	<b>3,722.19</b>	<b>11</b>	<b>3,360.88</b>	<b>11</b>	<b>2,999.56</b>	<b>11</b>	<b>2,638.21</b>
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,111.07	1/4	4,774.76	1/4	4,433.95	1/4	4,075.98	1/4	3,714.67	1/4	3,353.35	1/4	2,992.04	1/4	2,630.72
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,103.64	1/2	4,767.86	1/2	4,426.63	1/2	4,068.45	1/2	3,707.14	1/2	3,345.82	1/2	2,984.51	1/2	2,623.20
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,096.21	3/4	4,760.95	3/4	4,419.32	3/4	4,060.93	3/4	3,699.61	3/4	3,338.30	3/4	2,976.98	3/4	2,615.67

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.  
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.  
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.  
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN WITH "HERMETIC CLOSED GAUGING DEVICE"  
 GAUGE POINT: (HERMETIC) LOCATED 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 "HTCO 3144"

## 2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 17'-03 1/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,608.14	0	2,246.70	0	1,885.25	0	1,523.80	0	1,166.25	0	817.28	0	455.84	0	94.64	0		0	
1/4	2,600.62	1/4	2,239.17	1/4	1,877.72	1/4	1,516.27	1/4	1,159.06	1/4	809.75	1/4	448.31	1/4	87.19	1/4		1/4	
1/2	2,593.09	1/2	2,231.64	1/2	1,870.19	1/2	1,508.74	1/2	1,151.87	1/2	802.22	1/2	440.80	1/2	80.45	1/2		1/2	
3/4	2,585.56	3/4	2,224.11	3/4	1,862.66	3/4	1,501.21	3/4	1,144.69	3/4	794.69	3/4	433.29	3/4	73.70	3/4		3/4	
1	2,578.03	1	2,216.58	1	1,855.13	1	1,493.68	1	1,137.50	1	787.16	1	425.78	1	66.96	1		1	
1/4	2,570.50	1/4	2,209.05	1/4	1,847.60	1/4	1,486.15	1/4	1,130.31	1/4	779.63	1/4	418.19	1/4	60.21	1/4		1/4	
1/2	2,562.97	1/2	2,201.52	1/2	1,840.07	1/2	1,478.62	1/2	1,123.12	1/2	772.10	1/2	410.66	1/2	54.72	1/2		1/2	
3/4	2,555.44	3/4	2,193.99	3/4	1,832.54	3/4	1,471.09	3/4	1,115.94	3/4	764.57	3/4	403.13	3/4	49.23	3/4		3/4	
2	2,547.91	2	2,186.46	2	1,825.01	2	1,463.56	2	1,108.75	2	757.04	2	395.60	2	43.74	2		2	
1/4	2,540.38	1/4	2,178.93	1/4	1,817.48	1/4	1,456.03	1/4	1,101.56	1/4	749.51	1/4	388.07	1/4	38.25	1/4		1/4	
1/2	2,532.85	1/2	2,171.40	1/2	1,809.95	1/2	1,448.50	1/2	1,094.38	1/2	741.98	1/2	380.54	1/2	34.02	1/2		1/2	
3/4	2,525.32	3/4	2,163.87	3/4	1,802.42	3/4	1,440.97	3/4	1,087.19	3/4	734.45	3/4	373.01	3/4	29.78	3/4		3/4	
3	2,517.79	3	2,156.34	3	1,794.89	3	1,433.44	3	1,080.00	3	726.92	3	365.48	3	25.54	3		3	
1/4	2,510.26	1/4	2,148.81	1/4	1,787.36	1/4	1,425.91	1/4	1,072.81	1/4	719.39	1/4	357.95	1/4	21.32	1/4		1/4	
1/2	2,502.73	1/2	2,141.28	1/2	1,779.83	1/2	1,418.38	1/2	1,065.63	1/2	711.86	1/2	350.42	1/2		1/2		1/2	
3/4	2,495.19	3/4	2,133.75	3/4	1,772.30	3/4	1,410.85	3/4	1,058.44	3/4	704.33	3/4	342.89	3/4		3/4		3/4	
4	2,487.66	4	2,126.22	4	1,764.77	4	1,403.32	4	1,051.25	4	696.80	4	335.36	4		4		4	
1/4	2,480.13	1/4	2,118.68	1/4	1,757.24	1/4	1,395.79	1/4	1,044.07	1/4	689.27	1/4	327.83	1/4		1/4		1/4	
1/2	2,472.60	1/2	2,111.15	1/2	1,749.71	1/2	1,388.26	1/2	1,036.88	1/2	681.74	1/2	320.30	1/2		1/2		1/2	
3/4	2,465.07	3/4	2,103.62	3/4	1,742.17	3/4	1,380.73	3/4	1,029.69	3/4	674.21	3/4	312.77	3/4		3/4		3/4	
5	2,457.54	5	2,096.09	5	1,734.64	5	1,373.20	5	1,022.50	5	666.68	5	305.24	5		5		5	
1/4	2,450.01	1/4	2,088.56	1/4	1,727.11	1/4	1,365.66	1/4	1,015.32	1/4	659.15	1/4	297.71	1/4		1/4		1/4	
1/2	2,442.48	1/2	2,081.03	1/2	1,719.58	1/2	1,358.13	1/2	1,008.13	1/2	651.62	1/2	290.18	1/2		1/2		1/2	
3/4	2,434.95	3/4	2,073.50	3/4	1,712.05	3/4	1,350.60	3/4	1,000.94	3/4	644.09	3/4	282.65	3/4		3/4		3/4	
6	2,427.42	6	2,065.97	6	1,704.52	6	1,343.07	6	993.75	6	636.56	6	275.12	6		6		6	
1/4	2,419.89	1/4	2,058.44	1/4	1,696.99	1/4	1,335.54	1/4	986.57	1/4	629.03	1/4	267.59	1/4		1/4		1/4	
1/2	2,412.36	1/2	2,050.91	1/2	1,689.46	1/2	1,328.01	1/2	979.38	1/2	621.50	1/2	260.06	1/2		1/2		1/2	
3/4	2,404.83	3/4	2,043.38	3/4	1,681.93	3/4	1,320.48	3/4	972.19	3/4	613.97	3/4	252.53	3/4		3/4		3/4	
7	2,397.30	7	2,035.85	7	1,674.40	7	1,312.95	7	965.01	7	606.44	7	245.01	7		7		7	
1/4	2,389.77	1/4	2,028.32	1/4	1,666.87	1/4	1,305.42	1/4	957.82	1/4	598.91	1/4	237.48	1/4		1/4		1/4	
1/2	2,382.24	1/2	2,020.79	1/2	1,659.34	1/2	1,297.89	1/2	950.63	1/2	591.38	1/2	229.95	1/2		1/2		1/2	
3/4	2,374.71	3/4	2,013.26	3/4	1,651.81	3/4	1,290.36	3/4	943.44	3/4	583.85	3/4	222.42	3/4		3/4		3/4	
8	2,367.18	8	2,005.73	8	1,644.28	8	1,282.83	8	936.25	8	576.32	8	214.89	8		8		8	
1/4	2,359.65	1/4	1,998.20	1/4	1,636.75	1/4	1,275.30	1/4	929.06	1/4	568.79	1/4	207.36	1/4		1/4		1/4	
1/2	2,352.12	1/2	1,990.67	1/2	1,629.22	1/2	1,267.81	1/2	921.82	1/2	561.26	1/2	199.81	1/2		1/2		1/2	
3/4	2,344.59	3/4	1,983.14	3/4	1,621.69	3/4	1,260.33	3/4	914.58	3/4	553.73	3/4	192.26	3/4		3/4		3/4	
9	2,337.06	9	1,975.61	9	1,614.16	9	1,252.84	9	907.34	9	546.20	9	184.72	9		9		9	
1/4	2,329.53	1/4	1,968.08	1/4	1,606.63	1/4	1,245.35	1/4	900.10	1/4	538.67	1/4	177.24	1/4		1/4		1/4	
1/2	2,322.00	1/2	1,960.55	1/2	1,599.10	1/2	1,238.15	1/2	892.57	1/2	531.14	1/2	169.71	1/2		1/2		1/2	
3/4	2,314.47	3/4	1,953.02	3/4	1,591.57	3/4	1,230.95	3/4	885.05	3/4	523.61	3/4	162.18	3/4		3/4		3/4	
10	2,306.94	10	1,945.49	10	1,584.04	10	1,223.76	10	877.52	10	516.08	10	154.65	10		10		10	
1/4	2,299.41	1/4	1,937.96	1/4	1,576.51	1/4	1,216.56	1/4	869.99	1/4	508.55	1/4	147.12	1/4		1/4		1/4	
1/2	2,291.88	1/2	1,930.43	1/2	1,568.98	1/2	1,209.37	1/2	862.46	1/2	501.02	1/2	139.59	1/2		1/2		1/2	
3/4	2,284.35	3/4	1,922.90	3/4	1,561.45	3/4	1,202.18	3/4	854.93	3/4	493.49	3/4	132.06	3/4		3/4		3/4	
11	2,276.82	11	1,915.37	11	1,553.92	11	1,195.00	11	847.40	11	485.96	11	124.53	11		11		11	
1/4	2,269.29	1/4	1,907.84	1/4	1,546.39	1/4	1,187.81	1/4	839.87	1/4	478.43	1/4	117.00	1/4		1/4		1/4	
1/2	2,261.76	1/2	1,900.31	1/2	1,538.86	1/2	1,180.62	1/2	832.34	1/2	470.90	1/2	109.55	1/2		1/2		1/2	
3/4	2,254.23	3/4	1,892.78	3/4	1,531.33	3/4	1,173.43	3/4	824.81	3/4	463.37	3/4	102.09	3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 10/16/2014 CL SW  
RECALCULATED: 01/09/2020 SW  
REPRINTED: 01/09/2020 SW

CANCELS AND SUPERCEDES  
ALL PRIOR TO 01/2020

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



# BARGE "HTCO 3144"

## 3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 17'-02 3/4"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT
0		0		0		0	4,324.19	0	4,156.83	0	3,981.37	0	3,789.94	0	3,596.21	0	3,315.13	0	2,956.81
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,320.21	1/4	4,153.37	1/4	3,977.52	1/4	3,785.91	1/4	3,592.17	1/4	3,307.68	1/4	2,949.33
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,316.23	1/2	4,149.91	1/2	3,973.66	1/2	3,781.87	1/2	3,588.13	1/2	3,300.23	1/2	2,941.85
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,312.24	3/4	4,146.45	3/4	3,969.80	3/4	3,777.84	3/4	3,584.10	3/4	3,292.79	3/4	2,934.37
1		1		1		1	4,308.26	1	4,142.95	1	3,965.92	1	3,773.80	1	3,580.06	1	3,285.34	1	2,926.89
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,304.28	1/4	4,139.46	1/4	3,962.03	1/4	3,769.76	1/4	3,576.03	1/4	3,277.89	1/4	2,919.41
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,300.29	1/2	4,135.97	1/2	3,958.14	1/2	3,765.73	1/2	3,571.99	1/2	3,270.45	1/2	2,911.93
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,296.31	3/4	4,132.47	3/4	3,954.26	3/4	3,761.69	3/4	3,567.95	3/4	3,263.00	3/4	2,904.45
2		2		2		2	4,292.38	2	4,128.93	2	3,950.34	2	3,757.66	2	3,563.92	2	3,255.55	2	2,896.97
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,288.45	1/4	4,125.39	1/4	3,946.42	1/4	3,753.62	1/4	3,559.88	1/4	3,248.11	1/4	2,889.49
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,284.52	1/2	4,121.85	1/2	3,942.51	1/2	3,749.58	1/2	3,555.85	1/2	3,240.66	1/2	2,882.00
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,280.59	3/4	4,118.31	3/4	3,938.59	3/4	3,745.55	3/4	3,551.81	3/4	3,233.21	3/4	2,874.52
3		3		3		3	4,277.07	3	4,114.74	3	3,934.64	3	3,741.51	3	3,547.77	3	3,225.77	3	2,867.04
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,273.54	1/4	4,111.17	1/4	3,930.70	1/4	3,737.47	1/4	3,543.74	1/4	3,218.32	1/4	2,859.56
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,270.02	1/2	4,107.60	1/2	3,926.75	1/2	3,733.44	1/2	3,539.70	1/2	3,210.87	1/2	2,852.08
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,266.50	3/4	4,104.02	3/4	3,922.80	3/4	3,729.40	3/4	3,535.66	3/4	3,203.43	3/4	2,844.60
4		4		4		4	4,263.30	4	4,100.42	4	3,918.82	4	3,725.37	4	3,531.63	4	3,195.98	4	2,837.12
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,260.09	1/4	4,096.82	1/4	3,914.84	1/4	3,721.33	1/4	3,527.59	1/4	3,188.53	1/4	2,829.64
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,256.88	1/2	4,093.22	1/2	3,910.86	1/2	3,717.29	1/2	3,523.56	1/2	3,181.09	1/2	2,822.16
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,253.67	3/4	4,089.61	3/4	3,906.88	3/4	3,713.26	3/4	3,519.52	3/4	3,173.64	3/4	2,814.68
5		5		5		5	4,250.43	5	4,085.98	5	3,902.86	5	3,709.22	5	3,515.05	5	3,166.19	5	2,807.19
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,247.19	1/4	4,082.35	1/4	3,898.85	1/4	3,705.18	1/4	3,510.59	1/4	3,158.74	1/4	2,799.71
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,243.95	1/2	4,078.72	1/2	3,894.84	1/2	3,701.15	1/2	3,506.13	1/2	3,151.29	1/2	2,792.23
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,240.71	3/4	4,075.08	3/4	3,890.83	3/4	3,697.11	3/4	3,501.66	3/4	3,143.84	3/4	2,784.75
6		6		6		6	4,237.44	6	4,071.42	6	3,886.80	6	3,693.08	6	3,494.20	6	3,136.36	6	2,777.25
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,234.16	1/4	4,067.76	1/4	3,882.77	1/4	3,689.04	1/4	3,486.74	1/4	3,128.87	1/4	2,769.76
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,230.89	1/2	4,064.09	1/2	3,878.74	1/2	3,685.00	1/2	3,479.27	1/2	3,121.39	1/2	2,762.26
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,393.54	3/4	4,227.61	3/4	4,060.43	3/4	3,874.70	3/4	3,680.97	3/4	3,471.81	3/4	3,113.91
7		7		7		7	4,391.89	7	4,224.31	7	4,056.73	7	3,870.67	7	3,676.93	7	3,464.35	7	3,106.43
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,390.23	1/4	4,221.01	1/4	4,053.04	1/4	3,866.63	1/4	3,672.89	1/4	3,456.89	1/4	3,098.95
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,388.58	1/2	4,217.70	1/2	4,049.34	1/2	3,862.60	1/2	3,668.86	1/2	3,449.43	1/2	3,091.47
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,386.93	3/4	4,214.40	3/4	4,045.64	3/4	3,858.56	3/4	3,664.82	3/4	3,441.96	3/4	3,083.99
8		8		8		8	4,384.05	8	4,211.06	8	4,041.91	8	3,854.52	8	3,660.79	8	3,434.50	8	3,076.51
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,381.18	1/4	4,207.73	1/4	4,038.18	1/4	3,850.49	1/4	3,656.75	1/4	3,427.04	1/4	3,069.03
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,378.31	1/2	4,204.40	1/2	4,034.45	1/2	3,846.45	1/2	3,652.71	1/2	3,419.58	1/2	3,061.55
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,375.44	3/4	4,201.06	3/4	4,030.72	3/4	3,842.42	3/4	3,648.68	3/4	3,412.11	3/4	3,054.07
9		9		9		9	4,371.59	9	4,197.70	9	4,026.97	9	3,838.38	9	3,644.64	9	3,404.65	9	3,046.58
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,367.74	1/4	4,194.33	1/4	4,023.21	1/4	3,834.34	1/4	3,640.61	1/4	3,397.19	1/4	3,039.10
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,363.89	1/2	4,190.97	1/2	4,019.45	1/2	3,830.31	1/2	3,636.57	1/2	3,389.73	1/2	3,031.62
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,360.04	3/4	4,187.61	3/4	4,015.69	3/4	3,826.27	3/4	3,632.53	3/4	3,382.26	3/4	3,024.14
10		10		10		10	4,356.06	10	4,184.21	10	4,011.90	10	3,822.23	10	3,628.50	10	3,374.80	10	3,016.66
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,352.08	1/4	4,180.81	1/4	4,008.11	1/4	3,818.20	1/4	3,624.46	1/4	3,367.34	1/4	3,009.18
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,348.09	1/2	4,177.41	1/2	4,004.32	1/2	3,814.16	1/2	3,620.42	1/2	3,359.88	1/2	3,001.70
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,344.11	3/4	4,174.01	3/4	4,000.53	3/4	3,810.13	3/4	3,616.39	3/4	3,352.42	3/4	2,994.22
11		11		11		11	4,340.13	11	4,170.58	11	3,996.70	11	3,806.09	11	3,612.35	11	3,344.96	11	2,986.74
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,336.14	1/4	4,167.15	1/4	3,992.88	1/4	3,802.05	1/4	3,608.32	1/4	3,337.49	1/4	2,979.26
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,332.16	1/2	4,163.72	1/2	3,989.06	1/2	3,798.02	1/2	3,604.28	1/2	3,330.03	1/2	2,971.78
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,328.18	3/4	4,160.29	3/4	3,985.23	3/4	3,793.98	3/4	3,600.24	3/4	3,322.57	3/4	2,964.29

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.

CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.

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

GAUGE POINT: (HERMETIC) LOCATED 10'-06" OFF CENTERLINE AND 55'-00" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT  
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmacorp.net>



# BARGE "HTCO 3144"

## 3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 17'-02 3/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,597.40	0	2,237.64	0	1,877.84	0	1,517.99	0	1,158.20	0	798.68	0	438.86	0	80.10	0		0	
1/4	2,589.91	1/4	2,230.14	1/4	1,870.34	1/4	1,510.49	1/4	1,150.72	1/4	791.18	1/4	431.38	1/4	73.39	1/4		1/4	
1/2	2,582.41	1/2	2,222.65	1/2	1,862.85	1/2	1,503.00	1/2	1,143.23	1/2	783.68	1/2	423.90	1/2	66.67	1/2		1/2	
3/4	2,574.92	3/4	2,215.15	3/4	1,855.35	3/4	1,495.50	3/4	1,135.74	3/4	776.19	3/4	416.35	3/4	59.95	3/4		3/4	
1	2,567.42	1	2,207.66	1	1,847.85	1	1,488.00	1	1,128.25	1	768.69	1	408.85	1	54.49	1		1	
1/4	2,559.93	1/4	2,200.16	1/4	1,840.36	1/4	1,480.51	1/4	1,120.77	1/4	761.19	1/4	401.36	1/4	49.02	1/4		1/4	
1/2	2,552.43	1/2	2,192.67	1/2	1,832.86	1/2	1,473.01	1/2	1,113.28	1/2	753.70	1/2	393.86	1/2	43.56	1/2		1/2	
3/4	2,544.94	3/4	2,185.17	3/4	1,825.36	3/4	1,465.51	3/4	1,105.79	3/4	746.20	3/4	386.36	3/4	38.09	3/4		3/4	
2	2,537.44	2	2,177.68	2	1,817.87	2	1,458.01	2	1,098.30	2	738.70	2	378.87	2	33.88	2		2	
1/4	2,529.95	1/4	2,170.18	1/4	1,810.37	1/4	1,450.52	1/4	1,090.82	1/4	731.21	1/4	371.37	1/4	29.66	1/4		1/4	
1/2	2,522.45	1/2	2,162.69	1/2	1,802.87	1/2	1,443.02	1/2	1,083.33	1/2	723.71	1/2	363.88	1/2	25.44	1/2		1/2	
3/4	2,514.96	3/4	2,155.19	3/4	1,795.38	3/4	1,435.52	3/4	1,075.84	3/4	716.22	3/4	356.38	3/4	21.23	3/4		3/4	
3	2,507.46	3	2,147.70	3	1,787.88	3	1,428.03	3	1,068.35	3	708.72	3	348.88	3		3		3	
1/4	2,499.97	1/4	2,140.20	1/4	1,780.38	1/4	1,420.53	1/4	1,060.87	1/4	701.22	1/4	341.39	1/4		1/4		1/4	
1/2	2,492.47	1/2	2,132.71	1/2	1,772.88	1/2	1,413.03	1/2	1,053.38	1/2	693.73	1/2	333.89	1/2		1/2		1/2	
3/4	2,484.97	3/4	2,125.21	3/4	1,765.39	3/4	1,405.54	3/4	1,045.89	3/4	686.23	3/4	326.39	3/4		3/4		3/4	
4	2,477.48	4	2,117.71	4	1,757.89	4	1,398.04	4	1,038.41	4	678.73	4	318.90	4		4		4	
1/4	2,469.98	1/4	2,110.22	1/4	1,750.39	1/4	1,390.54	1/4	1,030.92	1/4	671.24	1/4	311.40	1/4		1/4		1/4	
1/2	2,462.49	1/2	2,102.72	1/2	1,742.90	1/2	1,383.05	1/2	1,023.43	1/2	663.74	1/2	303.90	1/2		1/2		1/2	
3/4	2,454.99	3/4	2,095.23	3/4	1,735.40	3/4	1,375.55	3/4	1,015.94	3/4	656.24	3/4	296.41	3/4		3/4		3/4	
5	2,447.50	5	2,087.73	5	1,727.90	5	1,368.05	5	1,008.46	5	648.75	5	288.91	5		5		5	
1/4	2,440.00	1/4	2,080.24	1/4	1,720.41	1/4	1,360.55	1/4	1,000.97	1/4	641.25	1/4	281.41	1/4		1/4		1/4	
1/2	2,432.51	1/2	2,072.74	1/2	1,712.91	1/2	1,353.06	1/2	993.48	1/2	633.75	1/2	273.92	1/2		1/2		1/2	
3/4	2,425.01	3/4	2,065.25	3/4	1,705.41	3/4	1,345.56	3/4	985.99	3/4	626.26	3/4	266.42	3/4		3/4		3/4	
6	2,417.52	6	2,057.76	6	1,697.92	6	1,338.06	6	978.51	6	618.76	6	258.92	6		6		6	
1/4	2,410.02	1/4	2,050.26	1/4	1,690.42	1/4	1,330.57	1/4	971.02	1/4	611.26	1/4	251.43	1/4		1/4		1/4	
1/2	2,402.53	1/2	2,042.77	1/2	1,682.92	1/2	1,323.07	1/2	963.53	1/2	603.77	1/2	243.93	1/2		1/2		1/2	
3/4	2,395.03	3/4	2,035.28	3/4	1,675.42	3/4	1,315.57	3/4	956.04	3/4	596.27	3/4	236.43	3/4		3/4		3/4	
7	2,387.54	7	2,027.78	7	1,667.93	7	1,308.08	7	948.56	7	588.77	7	228.94	7		7		7	
1/4	2,380.04	1/4	2,020.28	1/4	1,660.43	1/4	1,300.58	1/4	941.07	1/4	581.28	1/4	221.44	1/4		1/4		1/4	
1/2	2,372.55	1/2	2,012.79	1/2	1,652.93	1/2	1,293.08	1/2	933.58	1/2	573.78	1/2	213.95	1/2		1/2		1/2	
3/4	2,365.05	3/4	2,005.29	3/4	1,645.44	3/4	1,285.59	3/4	926.09	3/4	566.28	3/4	206.45	3/4		3/4		3/4	
8	2,357.56	8	1,997.79	8	1,637.94	8	1,278.09	8	918.60	8	558.79	8	198.94	8		8		8	
1/4	2,350.06	1/4	1,990.29	1/4	1,630.44	1/4	1,270.59	1/4	911.11	1/4	551.29	1/4	191.42	1/4		1/4		1/4	
1/2	2,342.57	1/2	1,982.80	1/2	1,622.95	1/2	1,263.10	1/2	903.62	1/2	543.79	1/2	183.91	1/2		1/2		1/2	
3/4	2,335.07	3/4	1,975.30	3/4	1,615.45	3/4	1,255.60	3/4	896.13	3/4	536.30	3/4	176.46	3/4		3/4		3/4	
9	2,327.58	9	1,967.80	9	1,607.95	9	1,248.10	9	888.64	9	528.80	9	168.97	9		9		9	
1/4	2,320.08	1/4	1,960.31	1/4	1,600.46	1/4	1,240.61	1/4	881.14	1/4	521.30	1/4	161.47	1/4		1/4		1/4	
1/2	2,312.59	1/2	1,952.81	1/2	1,592.96	1/2	1,233.11	1/2	873.64	1/2	513.81	1/2	153.97	1/2		1/2		1/2	
3/4	2,305.09	3/4	1,945.31	3/4	1,585.46	3/4	1,225.61	3/4	866.15	3/4	506.31	3/4	146.48	3/4		3/4		3/4	
10	2,297.60	10	1,937.82	10	1,577.97	10	1,218.12	10	858.65	10	498.81	10	138.98	10		10		10	
1/4	2,290.10	1/4	1,930.32	1/4	1,570.47	1/4	1,210.63	1/4	851.15	1/4	491.32	1/4	131.48	1/4		1/4		1/4	
1/2	2,282.61	1/2	1,922.82	1/2	1,562.97	1/2	1,203.13	1/2	843.66	1/2	483.82	1/2	123.99	1/2		1/2		1/2	
3/4	2,275.11	3/4	1,915.33	3/4	1,555.47	3/4	1,195.64	3/4	836.16	3/4	476.32	3/4	116.49	3/4		3/4		3/4	
11	2,267.62	11	1,907.83	11	1,547.98	11	1,188.15	11	828.66	11	468.83	11	109.07	11		11		11	
1/4	2,260.12	1/4	1,900.33	1/4	1,540.48	1/4	1,180.67	1/4	821.17	1/4	461.33	1/4	101.55	1/4		1/4		1/4	
1/2	2,252.63	1/2	1,892.83	1/2	1,532.98	1/2	1,173.18	1/2	813.67	1/2	453.83	1/2	94.24	1/2		1/2		1/2	
3/4	2,245.13	3/4	1,885.34	3/4	1,525.49	3/4	1,165.69	3/4	806.17	3/4	446.34	3/4	86.82	3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 10/16/2014 CL SW  
RECALCULATED: 01/09/2020 SW  
REPRINTED: 01/09/2020 SW

CANCELS AND SUPERCEDES  
ALL PRIOR TO 01/2020

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



# BARGE "HTCO 3144"

## 3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 17'-02 3/4"

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
1/4		1/4		1/4		1/4	4,296.57	1/4	4,129.90	1/4	3,955.14	1/4	3,764.40	1/4	3,571.35	1/4	3,290.96	1/4	2,933.45		
1/2		1/2		1/2		1/2	4,292.60	1/2	4,126.45	1/2	3,951.30	1/2	3,760.38	1/2	3,567.33	1/2	3,283.52	1/2	2,925.99		
3/4		3/4		3/4		3/4	4,288.63	3/4	4,123.01	3/4	3,947.45	3/4	3,756.36	3/4	3,563.31	3/4	3,276.09	3/4	2,918.53		
1	1	1	1	1	1	1	4,284.66	1	4,119.56	1	3,943.61	1	3,752.34	1	3,559.29	1	3,268.66	1	2,911.07		
1/4		1/4		1/4		1/4	4,280.70	1/4	4,116.08	1/4	3,939.74	1/4	3,748.31	1/4	3,555.27	1/4	3,261.22	1/4	2,903.61		
1/2		1/2		1/2		1/2	4,276.73	1/2	4,112.60	1/2	3,935.87	1/2	3,744.29	1/2	3,551.25	1/2	3,253.79	1/2	2,896.15		
3/4		3/4		3/4		3/4	4,272.76	3/4	4,109.12	3/4	3,931.99	3/4	3,740.27	3/4	3,547.22	3/4	3,246.36	3/4	2,888.69		
2	2	2	2	2	2	2	4,268.79	2	4,105.65	2	3,928.12	2	3,736.25	2	3,543.20	2	3,238.93	2	2,881.23		
1/4		1/4		1/4		1/4	4,264.87	1/4	4,102.12	1/4	3,924.22	1/4	3,732.23	1/4	3,539.18	1/4	3,231.49	1/4	2,873.76		
1/2		1/2		1/2		1/2	4,260.96	1/2	4,098.60	1/2	3,920.32	1/2	3,728.20	1/2	3,535.16	1/2	3,224.06	1/2	2,866.29		
3/4		3/4		3/4		3/4	4,257.04	3/4	4,095.07	3/4	3,916.42	3/4	3,724.18	3/4	3,531.14	3/4	3,216.63	3/4	2,858.83		
3	3	3	3	3	3	3	4,253.12	3	4,091.55	3	3,912.51	3	3,720.16	3	3,527.11	3	3,209.20	3	2,851.36		
1/4		1/4		1/4		1/4	4,249.62	1/4	4,087.99	1/4	3,908.58	1/4	3,716.14	1/4	3,523.09	1/4	3,201.76	1/4	2,843.89		
1/2		1/2		1/2		1/2	4,246.11	1/2	4,084.43	1/2	3,904.65	1/2	3,712.12	1/2	3,519.07	1/2	3,194.33	1/2	2,836.42		
3/4		3/4		3/4		3/4	4,242.60	3/4	4,080.87	3/4	3,900.72	3/4	3,708.10	3/4	3,515.05	3/4	3,186.90	3/4	2,828.96		
4	4	4	4	4	4	4	4,239.10	4	4,077.31	4	3,896.78	4	3,704.07	4	3,511.03	4	3,179.47	4	2,821.49		
1/4		1/4		1/4		1/4	4,235.90	1/4	4,073.72	1/4	3,892.82	1/4	3,700.05	1/4	3,507.01	1/4	3,172.03	1/4	2,814.02		
1/2		1/2		1/2		1/2	4,232.71	1/2	4,070.14	1/2	3,888.85	1/2	3,696.03	1/2	3,502.98	1/2	3,164.60	1/2	2,806.56		
3/4		3/4		3/4		3/4	4,229.52	3/4	4,066.55	3/4	3,884.88	3/4	3,692.01	3/4	3,498.96	3/4	3,157.17	3/4	2,799.09		
5	5	5	5	5	5	5	4,226.33	5	4,062.96	5	3,880.92	5	3,687.99	5	3,494.94	5	3,149.73	5	2,791.62		
1/4		1/4		1/4		1/4	4,223.10	1/4	4,059.34	1/4	3,876.92	1/4	3,683.97	1/4	3,490.49	1/4	3,142.30	1/4	2,784.15		
1/2		1/2		1/2		1/2	4,219.87	1/2	4,055.72	1/2	3,872.92	1/2	3,679.94	1/2	3,486.04	1/2	3,134.86	1/2	2,776.69		
3/4		3/4		3/4		3/4	4,216.65	3/4	4,052.11	3/4	3,868.92	3/4	3,675.92	3/4	3,481.59	3/4	3,127.42	3/4	2,769.22		
6	6	6	6	6	6	6	4,213.42	6	4,048.49	6	3,864.92	6	3,671.90	6	3,477.14	6	3,119.99	6	2,761.75		
1/4		1/4		1/4		1/4	4,210.16	1/4	4,044.84	1/4	3,860.91	1/4	3,667.88	1/4	3,469.69	1/4	3,112.52	1/4	2,754.28		
1/2		1/2		1/2		1/2	4,206.90	1/2	4,041.19	1/2	3,856.89	1/2	3,663.86	1/2	3,462.24	1/2	3,105.05	1/2	2,746.81		
3/4		3/4		3/4		3/4	4,203.64	3/4	4,037.54	3/4	3,852.88	3/4	3,659.83	3/4	3,454.80	3/4	3,097.59	3/4	2,739.34		
7	7	7	7	7	7	7	4,365.61	7	4,033.89	7	3,848.86	7	3,655.81	7	3,447.35	7	3,090.12	7	2,731.82		
1/4		1/4		1/4		1/4	4,200.38	1/4	4,030.21	1/4	3,844.84	1/4	3,651.79	1/4	3,439.90	1/4	3,082.65	1/4	2,724.34		
1/2		1/2		1/2		1/2	4,197.09	1/2	4,026.53	1/2	3,840.82	1/2	3,647.77	1/2	3,432.45	1/2	3,075.19	1/2	2,716.86		
3/4		3/4		3/4		3/4	4,193.80	3/4	4,022.85	3/4	3,836.79	3/4	3,643.75	3/4	3,425.00	3/4	3,067.72	3/4	2,709.38		
8	8	8	8	8	8	8	4,360.69	8	4,019.16	8	3,832.77	8	3,639.73	8	3,417.55	8	3,060.26	8	2,701.90		
1/4		1/4		1/4		1/4	4,187.22	1/4	4,015.45	1/4	3,828.75	1/4	3,635.70	1/4	3,410.11	1/4	3,052.80	1/4	2,694.42		
1/2		1/2		1/2		1/2	4,183.90	1/2	4,011.73	1/2	3,824.73	1/2	3,631.68	1/2	3,402.66	1/2	3,045.34	1/2	2,686.94		
3/4		3/4		3/4		3/4	4,180.59	3/4	4,008.02	3/4	3,820.71	3/4	3,627.66	3/4	3,395.21	3/4	3,037.88	3/4	2,679.47		
9	9	9	9	9	9	9	4,350.48	9	4,004.30	9	3,816.68	9	3,623.64	9	3,387.76	9	3,030.42	9	2,671.99		
1/4		1/4		1/4		1/4	4,173.95	1/4	4,000.56	1/4	3,812.66	1/4	3,619.62	1/4	3,380.31	1/4	3,022.96	1/4	2,664.51		
1/2		1/2		1/2		1/2	4,170.60	1/2	3,996.81	1/2	3,808.64	1/2	3,615.59	1/2	3,372.86	1/2	3,015.50	1/2	2,657.03		
3/4		3/4		3/4		3/4	4,167.25	3/4	3,993.07	3/4	3,804.62	3/4	3,611.57	3/4	3,365.42	3/4	3,008.04	3/4	2,649.55		
10	10	10	10	10	10	10	4,332.29	10	3,989.32	10	3,800.60	10	3,607.55	10	3,357.97	10	3,000.58	10	2,642.07		
1/4		1/4		1/4		1/4	4,160.55	1/4	3,985.55	1/4	3,796.58	1/4	3,603.53	1/4	3,350.52	1/4	2,993.12	1/4	2,634.57		
1/2		1/2		1/2		1/2	4,157.16	1/2	3,981.77	1/2	3,792.55	1/2	3,599.51	1/2	3,343.07	1/2	2,985.66	1/2	2,627.08		
3/4		3/4		3/4		3/4	4,154.35	3/4	3,978.00	3/4	3,788.53	3/4	3,595.49	3/4	3,335.62	3/4	2,978.20	3/4	2,619.59		
11	11	11	11	11	11	11	4,320.38	11	3,974.22	11	3,784.51	11	3,591.46	11	3,328.17	11	2,970.74	11	2,612.15		
1/4		1/4		1/4		1/4	4,147.01	1/4	3,970.41	1/4	3,780.49	1/4	3,587.44	1/4	3,320.73	1/4	2,963.28	1/4	2,604.67		
1/2		1/2		1/2		1/2	4,143.60	1/2	3,966.60	1/2	3,776.47	1/2	3,583.42	1/2	3,313.28	1/2	2,955.82	1/2	2,597.19		
3/4		3/4		3/4		3/4	4,140.18	3/4	3,962.79	3/4	3,772.44	3/4	3,579.40	3/4	3,305.84	3/4	2,948.36	3/4	2,589.71		
12	12	12	12	12	12	12	4,312.45	12	3,958.98	12	3,768.42	12	3,575.38	12	3,298.39	12	2,940.90	12	2,582.23		
1/4		1/4		1/4		1/4	4,133.35	1/4	3,955.14	1/4	3,764.40	1/4	3,571.35	1/4	3,290.96	1/4	2,933.45	1/4	2,933.45		

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.  
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.  
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.  
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN WITH "HERMETIC CLOSED GAUGING DEVICE"  
 GAUGE POINT: (HERMETIC) LOCATED 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 "HTCO 3144"

## 3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 17'-02 3/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,574.75	0	2,215.66	0	1,856.53	0	1,497.36	0	1,141.50	0	797.47	0	438.21	0	80.00	0		0	
1/4	2,567.27	1/4	2,208.18	1/4	1,849.05	1/4	1,489.89	1/4	1,134.35	1/4	789.98	1/4	430.74	1/4	73.30	1/4		1/4	
1/2	2,559.79	1/2	2,200.70	1/2	1,841.57	1/2	1,482.41	1/2	1,127.20	1/2	782.50	1/2	423.28	1/2	66.61	1/2		1/2	
3/4	2,552.31	3/4	2,193.22	3/4	1,834.08	3/4	1,474.93	3/4	1,120.05	3/4	775.01	3/4	415.74	3/4	59.91	3/4		3/4	
1	2,544.83	1	2,185.74	1	1,826.60	1	1,467.51	1	1,112.91	1	767.53	1	408.25	1	54.46	1		1	
1/4	2,537.35	1/4	2,178.25	1/4	1,819.12	1/4	1,460.09	1/4	1,105.76	1/4	760.04	1/4	400.77	1/4	49.00	1/4		1/4	
1/2	2,529.87	1/2	2,170.77	1/2	1,811.64	1/2	1,452.67	1/2	1,098.61	1/2	752.56	1/2	393.28	1/2	43.55	1/2		1/2	
3/4	2,522.38	3/4	2,163.29	3/4	1,804.15	3/4	1,445.25	3/4	1,091.46	3/4	745.07	3/4	385.80	3/4	38.09	3/4		3/4	
2	2,514.90	2	2,155.81	2	1,796.67	2	1,437.83	2	1,084.31	2	737.59	2	378.31	2	33.87	2		2	
1/4	2,507.42	1/4	2,148.33	1/4	1,789.19	1/4	1,430.41	1/4	1,077.17	1/4	730.10	1/4	370.83	1/4	29.66	1/4		1/4	
1/2	2,499.94	1/2	2,140.85	1/2	1,781.70	1/2	1,422.99	1/2	1,070.02	1/2	722.62	1/2	363.34	1/2	25.44	1/2		1/2	
3/4	2,492.46	3/4	2,133.37	3/4	1,774.22	3/4	1,415.57	3/4	1,062.87	3/4	715.13	3/4	355.86	3/4	21.23	3/4		3/4	
3	2,484.98	3	2,125.89	3	1,766.74	3	1,408.14	3	1,055.72	3	707.65	3	348.37	3		3		3	
1/4	2,477.50	1/4	2,118.41	1/4	1,759.25	1/4	1,400.72	1/4	1,048.58	1/4	700.16	1/4	340.89	1/4		1/4		1/4	
1/2	2,470.02	1/2	2,110.92	1/2	1,751.77	1/2	1,393.30	1/2	1,041.43	1/2	692.68	1/2	333.40	1/2		1/2		1/2	
3/4	2,462.54	3/4	2,103.44	3/4	1,744.29	3/4	1,385.88	3/4	1,034.28	3/4	685.19	3/4	325.92	3/4		3/4		3/4	
4	2,455.06	4	2,095.96	4	1,736.81	4	1,378.46	4	1,027.13	4	677.71	4	318.43	4		4		4	
1/4	2,447.57	1/4	2,088.48	1/4	1,729.32	1/4	1,371.04	1/4	1,019.98	1/4	670.22	1/4	310.95	1/4		1/4		1/4	
1/2	2,440.09	1/2	2,081.00	1/2	1,721.84	1/2	1,363.62	1/2	1,012.84	1/2	662.74	1/2	303.46	1/2		1/2		1/2	
3/4	2,432.61	3/4	2,073.52	3/4	1,714.36	3/4	1,356.20	3/4	1,005.69	3/4	655.25	3/4	295.98	3/4		3/4		3/4	
5	2,425.13	5	2,066.04	5	1,706.87	5	1,348.78	5	998.54	5	647.77	5	288.49	5		5		5	
1/4	2,417.65	1/4	2,058.56	1/4	1,699.39	1/4	1,341.35	1/4	991.39	1/4	640.28	1/4	281.01	1/4		1/4		1/4	
1/2	2,410.17	1/2	2,051.08	1/2	1,691.91	1/2	1,333.93	1/2	984.25	1/2	632.80	1/2	273.52	1/2		1/2		1/2	
3/4	2,402.69	3/4	2,043.59	3/4	1,684.43	3/4	1,326.51	3/4	977.10	3/4	625.31	3/4	266.04	3/4		3/4		3/4	
6	2,395.21	6	2,036.11	6	1,676.94	6	1,319.09	6	969.95	6	617.83	6	258.55	6		6		6	
1/4	2,387.73	1/4	2,028.63	1/4	1,669.46	1/4	1,311.67	1/4	962.80	1/4	610.34	1/4	251.07	1/4		1/4		1/4	
1/2	2,380.24	1/2	2,021.15	1/2	1,661.98	1/2	1,304.25	1/2	955.65	1/2	602.86	1/2	243.58	1/2		1/2		1/2	
3/4	2,372.76	3/4	2,013.67	3/4	1,654.49	3/4	1,296.83	3/4	948.51	3/4	595.37	3/4	236.10	3/4		3/4		3/4	
7	2,365.28	7	2,006.19	7	1,647.01	7	1,289.41	7	941.36	7	587.89	7	228.61	7		7		7	
1/4	2,357.80	1/4	1,998.71	1/4	1,639.53	1/4	1,281.99	1/4	934.21	1/4	580.40	1/4	221.13	1/4		1/4		1/4	
1/2	2,350.32	1/2	1,991.22	1/2	1,632.05	1/2	1,274.56	1/2	927.06	1/2	572.92	1/2	213.64	1/2		1/2		1/2	
3/4	2,342.84	3/4	1,983.74	3/4	1,624.56	3/4	1,267.14	3/4	919.91	3/4	565.43	3/4	206.16	3/4		3/4		3/4	
8	2,335.36	8	1,976.26	8	1,617.08	8	1,259.72	8	912.76	8	557.95	8	198.66	8		8		8	
1/4	2,327.88	1/4	1,968.78	1/4	1,609.60	1/4	1,252.31	1/4	905.61	1/4	550.47	1/4	191.16	1/4		1/4		1/4	
1/2	2,320.40	1/2	1,961.29	1/2	1,602.11	1/2	1,244.89	1/2	898.45	1/2	542.98	1/2	183.66	1/2		1/2		1/2	
3/4	2,312.91	3/4	1,953.81	3/4	1,594.63	3/4	1,237.47	3/4	891.30	3/4	535.50	3/4	176.22	3/4		3/4		3/4	
9	2,305.43	9	1,946.33	9	1,587.15	9	1,230.06	9	884.13	9	528.01	9	168.74	9		9		9	
1/4	2,297.95	1/4	1,938.84	1/4	1,579.67	1/4	1,222.66	1/4	876.95	1/4	520.53	1/4	161.25	1/4		1/4		1/4	
1/2	2,290.47	1/2	1,931.36	1/2	1,572.18	1/2	1,215.25	1/2	869.78	1/2	513.04	1/2	153.76	1/2		1/2		1/2	
3/4	2,282.99	3/4	1,923.88	3/4	1,564.70	3/4	1,207.85	3/4	862.61	3/4	505.56	3/4	146.28	3/4		3/4		3/4	
10	2,275.51	10	1,916.40	10	1,557.22	10	1,200.44	10	855.43	10	498.07	10	138.79	10		10		10	
1/4	2,268.03	1/4	1,908.91	1/4	1,549.73	1/4	1,193.04	1/4	848.25	1/4	490.59	1/4	131.30	1/4		1/4		1/4	
1/2	2,260.55	1/2	1,901.43	1/2	1,542.25	1/2	1,185.63	1/2	841.08	1/2	483.10	1/2	123.81	1/2		1/2		1/2	
3/4	2,253.07	3/4	1,893.95	3/4	1,534.77	3/4	1,178.23	3/4	833.90	3/4	475.62	3/4	116.32	3/4		3/4		3/4	
11	2,245.58	11	1,886.46	11	1,527.28	11	1,170.83	11	826.66	11	468.13	11	108.91	11		11		11	
1/4	2,238.10	1/4	1,878.98	1/4	1,519.80	1/4	1,163.44	1/4	819.43	1/4	460.65	1/4	101.51	1/4		1/4		1/4	
1/2	2,230.62	1/2	1,871.50	1/2	1,512.32	1/2	1,156.04	1/2	812.19	1/2	453.16	1/2	94.10	1/2		1/2		1/2	
3/4	2,223.14	3/4	1,864.02	3/4	1,504.84	3/4	1,148.64	3/4	804.95	3/4	445.68	3/4	86.69	3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 10/16/2014 CL SW  
RECALCULATED: 01/09/2020 SW  
REPRINTED: 01/09/2020 SW

CANCELS AND SUPERCEDES  
ALL PRIOR TO 01/2020

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