BARGE "E2MS 312"

ULLAGE (10" HATCH)

	1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.	
	BOW	STERN	BOW	STERN	BOW	STERN	BOW	STERN	BOW	STERN	BOW	STERN
1 PORT	- 02-0/8	02-0/8	- 04-0/8	04-0/8	- 06-1/8	06-1/8	- 08-1/8	08-1/8	- 10-1/8	10-1/8	- 12-1/8	12-1/8
1 STBD	- 02-0/8	02-0/8	- 04-0/8	04-0/8	- 06-1/8	06-1/8	- 08-1/8	08-1/8	- 10-1/8	10-1/8	- 12-1/8	12-1/8
2 PORT	- 02-0/8	02-0/8	- 04-1/8	04-1/8	- 06-1/8	06-1/8	- 08-1/8	08-1/8	- 10-1/8	10-1/8	- 12-1/4	12-1/4
2 STBD	- 02-0/8	02-0/8	- 04-1/8	04-1/8	- 06-1/8	06-1/8	- 08-1/8	08-1/8	- 10-1/4	10-1/4	- 12-1/4	12-1/4
3 PORT	02-0/8	- 02-0/8	04-0/8	- 04-0/8	06-1/8	- 06-1/8	08-1/8	- 08-1/8	10-1/8	- 10-1/8	12-1/8	- 12-1/8
3 STBD	02-0/8	- 02-0/8	04-0/8	- 04-0/8	06-1/8	- 06-1/8	08-1/8	- 08-1/8	10-1/8	- 10-1/8	12-1/8	- 12-1/8

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

FWD. DRAFT	=	2'-00"	
AFT DRAFT	=	6'-00"	
DIFF.	=	4'-00"	(DOWN BY STERN)

THE CORRECTION FOR 4'-00" TRIM DOWN BY STERN FOR 1 PORT IS 08-1/8"
FOR A MEASURED ULLAGE GAUGE OF 4'-00" ON 1 PORT, THE TRIM CORRECTED ULLAGE IS 4'-08 1/8"

LENGTH BETWEEN DRAFT MARKS: 235'-09"

January 7, 2019

PRECISION MEASUREMENT
& ANALYSIS, INC.
P.O. Box 2092
Pearland, Texas 77588

http://www.pmacorp.net

BARGE "E2MS 312"

1 PORT

ULLAGE TABLE

10" HATCH

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 17'-06 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		0		0		0	5,041.36	0	4,734.07	0	4,377.27	0	4,020.47	0	3,662.70	0	3,304.86	0	2,947.01
1/4		1/4		1/4		1/4	5,039.28	1/4	4,726.64	1/4	4,369.84	1/4	4,013.03	1/4	3,655.25	1/4	3,297.40	1/4	2,939.56
1/2		1/2		1/2		1/2	5,037.20	1/2	4,719.21	1/2	4,362.40	1/2	4,005.60	1/2	3,647.79	1/2	3,289.95	1/2	2,932.10
3/4		3/4		3/4		3/4	5,033.88	3/4	4,711.77	3/4	4,354.97	3/4	3,998.15	3/4	3,640.34	3/4	3,282.49	3/4	2,924.65
1		1		1		1	5,030.55	1	4,704.34	1	4,347.54	1	3,990.71	1	3,632.88	1	3,275.04	1	2,917.19
1/4		1/4		1/4		1/4	5,027.23	1/4	4,696.91	1/4	4,340.10	1/4	3,983.26	1/4	3,625.43	1/4	3,267.58	1/4	2,909.74
1/2		1/2		1/2		1/2	5,023.91	1/2	4,689.47	1/2	4,332.67	1/2	3,975.82	1/2	3,617.97	1/2	3,260.13	1/2	2,902.28
3/4		3/4		3/4		3/4	5,019.34	3/4	4,682.04	3/4	4,325.24	3/4	3,968.36	3/4	3,610.52	3/4	3,252.67	3/4	2,894.83
2		2		2		2	5,014.78	2	4,674.61	2	4,317.80	2	3,960.91	2	3,603.06	2	3,245.22	2	2,887.37
1/4		1/4		1/4		1/4	5,010.21	1/4	4,667.17	1/4	4,310.37	1/4	3,953.45	1/4	3,595.61	1/4	3,237.76	1/4	2,879.92
1/2		1/2		1/2		1/2	5,005.65	1/2	4,659.74	1/2	4,302.94	1/2	3,946.00	1/2	3,588.15	1/2	3,230.31	1/2	2,872.46
3/4		3/4		3/4		3/4	4,999.84	3/4	4,652.31	3/4	4,295.50	3/4	3,938.54	3/4	3,580.70	3/4	3,222.85	3/4	2,865.01
3		3		3		3	4,994.03	3	4,644.87	3	4,288.07	3	3,931.09	3	3,573.24	3	3,215.40	3	2,857.55
1/4		1/4		1/4		1/4	4,988.22	1/4	4,637.44	1/4	4,280.64	1/4	3,923.63	1/4	3,565.79	1/4	3,207.94	1/4	2,850.10
1/2		1/2		1/2		1/2	4,982.42	1/2	4,630.01	1/2	4,273.20	1/2	3,916.18	1/2	3,558.33	1/2	3,200.49	1/2	2,842.64
3/4		3/4		3/4		3/4	4,975.56	3/4	4,622.57	3/4	4,265.77	3/4	3,908.72	3/4	3,550.88	3/4	3,193.03	3/4	2,835.19
4		4		4		4	4,968.70	4	4,615.14	4	4,258.34	4	3,901.27	4	3,543.42	4	3,185.58	4	2,827.73
1/4		1/4		1/4		1/4	4,961.83	1/4	4,607.71	1/4	4,250.90	1/4	3,893.81	1/4	3,535.97	1/4	3,178.12	1/4	2,820.28
1/2		1/2		1/2		1/2	4,954.97	1/2	4,600.27	1/2	4,243.47	1/2	3,886.36	1/2	3,528.51	1/2	3,170.67	1/2	2,812.82
3/4		3/4		3/4		3/4	4,947.66	3/4	4,592.84	3/4	4,236.04	3/4	3,878.90	3/4	3,521.06	3/4	3,163.21	3/4	2,805.37
5		5		5		5	4,940.34	5	4,585.41	5	4,228.60	5	3,871.45	5	3,513.60	5	3,155.76	5	2,797.91
1/4		1/4		1/4		1/4	4,933.02	1/4	4,577.97	1/4	4,221.17	1/4	3,863.99	1/4	3,506.15	1/4	3,148.30	1/4	2,790.46
1/2		1/2		1/2		1/2	4,925.70	1/2	4,570.54	1/2	4,213.74	1/2	3,856.54	1/2	3,498.69	1/2	3,140.85	1/2	2,783.00
3/4		3/4		3/4		3/4	4,918.34	3/4	4,563.11	3/4	4,206.30	3/4	3,849.08	3/4	3,491.24	3/4	3,133.39	3/4	2,775.55
6		6		6		6	4,910.99	6	4,555.67	6	4,198.87	6	3,841.63	6	3,483.78	6	3,125.94	6	2,768.09
1/4		1/4		1/4		1/4	4,903.64	1/4	4,548.24	1/4	4,191.44	1/4	3,834.17	1/4	3,476.33	1/4	3,118.48	1/4	2,760.64
1/2		1/2		1/2		1/2	4,896.29	1/2	4,540.81	1/2	4,184.00	1/2	3,826.72	1/2	3,468.87	1/2	3,111.03	1/2	2,753.18
3/4		3/4		3/4		3/4	4,888.93	3/4	4,533.37	3/4	4,176.57	3/4	3,819.26	3/4	3,461.42	3/4	3,103.57	3/4	2,745.73
7		7		7		7	4,881.57	7	4,525.94	7	4,169.14	7	3,811.81	7	3,453.96	7	3,096.12	7	2,738.27
1/4		1/4		1/4		1/4	4,874.21	1/4	4,518.50	1/4	4,161.70	1/4	3,804.35	1/4	3,446.51	1/4	3,088.66	1/4	2,730.82
1/2		1/2		1/2		1/2	4,866.85	1/2	4,511.07	1/2	4,154.27	1/2	3,796.90	1/2	3,439.05	1/2	3,081.21	1/2	2,723.36
3/4		3/4		3/4		3/4	4,859.49	3/4	4,503.64	3/4	4,146.83	3/4	3,789.44	3/4	3,431.60	3/4	3,073.75	3/4	2,715.91
8		8		8		8	4,852.13	8	4,496.20	8	4,139.40	8	3,781.98	8	3,424.14	8	3,066.30	8	2,708.45
1/4		1/4		1/4		1/4	4,844.77	1/4	4,488.77	1/4	4,131.97	1/4	3,774.53	1/4	3,416.69	1/4	3,058.84	1/4	2,701.00
1/2		1/2		1/2		1/2	4,837.40	1/2	4,481.34	1/2	4,124.53	1/2	3,767.07	1/2	3,409.23	1/2	3,051.39	1/2	2,693.54
3/4		3/4		3/4		3/4	4,830.04	3/4	4,473.90	3/4	4,117.10	3/4	3,759.62	3/4	3,401.77	3/4	3,043.93	3/4	2,686.09
9		9		9		9	4,822.68	9	4,466.47	9	4,109.67	9	3,752.16	9	3,394.32	9	3,036.47	9	2,678.63
1/4		1/4		1/4		1/4	4,815.33	1/4	4,459.04	1/4	4,102.23	1/4	3,744.71	1/4	3,386.86	1/4	3,029.02	1/4	2,671.17
1/2		1/2		1/2		1/2	4,807.97	1/2	4,451.60	1/2	4,094.80	1/2	3,737.25	1/2	3,379.41	1/2	3,021.56	1/2	2,663.72
3/4		3/4		3/4		3/4	4,800.61	3/4	4,444.17	3/4	4,087.37	3/4	3,729.80	3/4	3,371.95	3/4	3,014.11	3/4	2,656.26
10		10		10		10	4,793.25	10	4,436.74	10	4,079.93	10	3,722.34	10	3,364.50	10	3,006.65	10	2,648.81
1/4		1/4		1/4		1/4	4,785.89	1/4	4,429.30	1/4	4,072.50	1/4	3,714.89	1/4	3,357.04	1/4	2,999.20	1/4	2,641.35
1/2		1/2		1/2		1/2	4,778.53	1/2	4,421.87	1/2	4,065.07	1/2	3,707.43	1/2	3,349.59	1/2	2,991.74	1/2	2,633.90
3/4		3/4		3/4		3/4	4,771.13	3/4	4,414.44	3/4	4,057.63	3/4	3,699.98	3/4	3,342.13	3/4	2,984.29	3/4	2,626.44
11		11		11		11	4,763.73	11	4,407.00	11	4,050.20	11	3,692.52	11	3,334.68	11	2,976.83	11	2,618.99
1/4		1/4		1/4		1/4	4,756.34	1/4	4,399.57	1/4	4,042.77	1/4	3,685.07	1/4	3,327.22	1/4	2,969.38	1/4	2,611.53
1/2		1/2		1/2	5,045.52	1/2	4,748.94	1/2	4,392.14	1/2	4,035.33	1/2	3,677.61	1/2	3,319.77	1/2	2,961.92	1/2	2,604.08
3/4		3/4		3/4	5,043.44	3/4	4,741.51	3/4	4,384.70	3/4	4,027.90	3/4	3,670.16	3/4	3,312.31	3/4	2,954.47	3/4	2,596.62

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7
CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL
CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK
CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP LIP 10" HATCH ON EXPANSION DOME
GAUGE POINT: (10" HATCH) LOCATED 3'-00" OFF CENTERLINE AND 3'-00" FORWARD OF AFT BULKHEAD

PRECISION MEASUREMENT
& ANALYSIS, INC.
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BARGE "E2MS 312"

1 PORT

ULLAGE TABLE
10" HATCH

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 17'-06 1/2"

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	2,589.16	0	2,231.22	0	1,873.27	0	1,515.33	0	1,157.38	0	801.76	0	444.87	0	120.52	0		0	
1/4	2,581.71	1/4	2,223.76	1/4	1,865.82	1/4	1,507.87	1/4	1,149.92	1/4	794.36	1/4	437.58	1/4	114.29	1/4		1/4	
1/2	2,574.25	1/2	2,216.30	1/2	1,858.36	1/2	1,500.41	1/2	1,142.47	1/2	786.96	1/2	430.30	1/2	108.06	1/2		1/2	
3/4	2,566.79	3/4	2,208.85	3/4	1,850.90	3/4	1,492.96	3/4	1,135.03	3/4	779.53	3/4	423.11	3/4	101.92	3/4		3/4	
1	2,559.34	1	2,201.39	1	1,843.44	1	1,485.50	1	1,127.58	1	772.10	1	415.91	1	95.78	1		1	
1/4	2,551.88	1/4	2,193.93	1/4	1,835.99	1/4	1,478.04	1/4	1,120.14	1/4	764.66	1/4	408.72	1/4	89.64	1/4		1/4	
1/2	2,544.42	1/2	2,186.48	1/2	1,828.53	1/2	1,470.58	1/2	1,112.70	1/2	757.23	1/2	401.52	1/2	83.51	1/2		1/2	
3/4	2,536.96	3/4	2,179.02	3/4	1,821.07	3/4	1,463.13	3/4	1,105.28	3/4	749.77	3/4	394.42	3/4	77.47	3/4		3/4	
2	2,529.51	2	2,171.56	2	1,813.62	2	1,455.67	2	1,097.85	2	742.32	2	387.31	2	71.44	2		2	
1/4	2,522.05	1/4	2,164.10	1/4	1,806.16	1/4	1,448.21	1/4	1,090.42	1/4	734.86	1/4	380.20	1/4	65.40	1/4		1/4	
1/2	2,514.59	1/2	2,156.65	1/2	1,798.70	1/2	1,440.76	1/2	1,083.00	1/2	727.40	1/2	373.10	1/2	59.37	1/2		1/2	
3/4	2,507.14	3/4	2,149.19	3/4	1,791.24	3/4	1,433.30	3/4	1,075.58	3/4	719.95	3/4	366.08	3/4	53.89	3/4		3/4	
3	2,499.68	3	2,141.73	3	1,783.79	3	1,425.84	3	1,068.17	3	712.49	3	359.06	3	48.40	3		3	
1/4	2,492.22	1/4	2,134.28	1/4	1,776.33	1/4	1,418.38	1/4	1,060.75	1/4	705.03	1/4	352.04	1/4	42.92	1/4		1/4	
1/2	2,484.76	1/2	2,126.82	1/2	1,768.87	1/2	1,410.93	1/2	1,053.33	1/2	697.58	1/2	345.02	1/2	37.43	1/2		1/2	
3/4	2,477.31	3/4	2,119.36	3/4	1,761.42	3/4	1,403.47	3/4	1,045.93	3/4	690.12	3/4	338.08	3/4	33.41	3/4		3/4	
4	2,469.85	4	2,111.90	4	1,753.96	4	1,396.01	4	1,038.53	4	682.66	4	331.15	4	29.40	4		4	
1/4	2,462.39	1/4	2,104.45	1/4	1,746.50	1/4	1,388.56	1/4	1,031.12	1/4	675.20	1/4	324.22	1/4	25.38	1/4		1/4	
1/2	2,454.93	1/2	2,096.99	1/2	1,739.04	1/2	1,381.10	1/2	1,023.72	1/2	667.75	1/2	317.29	1/2	21.36	1/2		1/2	
3/4	2,447.48	3/4	2,089.53	3/4	1,731.59	3/4	1,373.64	3/4	1,016.32	3/4	660.29	3/4	310.44	3/4	18.44	3/4		3/4	
5	2,440.02	5	2,082.07	5	1,724.13	5	1,366.18	5	1,008.93	5	652.83	5	303.60	5	15.52	5		5	
1/4	2,432.56	1/4	2,074.62	1/4	1,716.67	1/4	1,358.73	1/4	1,001.53	1/4	645.38	1/4	296.75	1/4	12.61	1/4		1/4	
1/2	2,425.11	1/2	2,067.16	1/2	1,709.21	1/2	1,351.27	1/2	994.13	1/2	637.92	1/2	289.91	1/2	9.69	1/2		1/2	
3/4	2,417.65	3/4	2,059.70	3/4	1,701.76	3/4	1,343.81	3/4	986.73	3/4	630.46	3/4	283.15	3/4	7.82	3/4		3/4	
6	2,410.19	6	2,052.25	6	1,694.30	6	1,336.35	6	979.33	6	623.01	6	276.39	6	5.96	6		6	
1/4	2,402.73	1/4	2,044.79	1/4	1,686.84	1/4	1,328.90	1/4	971.93	1/4	615.55	1/4	269.64	1/4	4.09	1/4		1/4	
1/2	2,395.28	1/2	2,037.33	1/2	1,679.39	1/2	1,321.44	1/2	964.54	1/2	608.09	1/2	262.88	1/2	2.23	1/2		1/2	
3/4	2,387.82	3/4	2,029.87	3/4	1,671.93	3/4	1,313.98	3/4	957.14	3/4	600.64	3/4	256.21	3/4		3/4		3/4	
7	2,380.36	7	2,022.42	7	1,664.47	7	1,306.53	7	949.74	7	593.18	7	249.54	7		7		7	
1/4	2,372.91	1/4	2,014.96	1/4	1,657.01	1/4	1,299.07	1/4	942.34	1/4	585.73	1/4	242.87	1/4		1/4		1/4	
1/2	2,365.45	1/2	2,007.50	1/2	1,649.56	1/2	1,291.61	1/2	934.94	1/2	578.27	1/2	236.20	1/2		1/2		1/2	
3/4	2,357.99	3/4	2,000.05	3/4	1,642.10	3/4	1,284.15	3/4	927.54	3/4	570.82	3/4	229.62	3/4		3/4		3/4	
8	2,350.53	8	1,992.59	8	1,634.64	8	1,276.70	8	920.15	8	563.37	8	223.04	8		8		8	
1/4	2,343.08	1/4	1,985.13	1/4	1,627.19	1/4	1,269.24	1/4	912.75	1/4	555.92	1/4	216.46	1/4		1/4		1/4	
1/2	2,335.62	1/2	1,977.67	1/2	1,619.73	1/2	1,261.78	1/2	905.35	1/2	548.47	1/2	209.87	1/2		1/2		1/2	
3/4	2,328.16	3/4	1,970.22	3/4	1,612.27	3/4	1,254.33	3/4	897.95	3/4	541.01	3/4	203.38	3/4		3/4		3/4	
9	2,320.71	9	1,962.76	9	1,604.81	9	1,246.87	9	890.55	9	533.56	9	196.88	9		9		9	
1/4	2,313.25	1/4	1,955.30	1/4	1,597.36	1/4	1,239.41	1/4	883.15	1/4	526.10	1/4	190.39	1/4		1/4		1/4	
1/2	2,305.79	1/2	1,947.85	1/2	1,589.90	1/2	1,231.95	1/2	875.76	1/2	518.65	1/2	183.89	1/2		1/2		1/2	
3/4	2,298.33	3/4	1,940.39	3/4	1,582.44	3/4	1,224.50	3/4	868.36	3/4	511.21	3/4	177.49	3/4		3/4		3/4	
10	2,290.88	10	1,932.93	10	1,574.99	10	1,217.04	10	860.96	10	503.78	10	171.08	10		10		10	
1/4	2,283.42	1/4	1,925.47	1/4	1,567.53	1/4	1,209.58	1/4	853.56	1/4	496.34	1/4	164.67	1/4		1/4		1/4	
1/2	2,275.96	1/2	1,918.02	1/2	1,560.07	1/2	1,202.13	1/2	846.16	1/2	488.91	1/2	158.27	1/2		1/2		1/2	
3/4	2,268.50	3/4	1,910.56	3/4	1,552.61	3/4	1,194.67	3/4	838.76	3/4	481.54	3/4	151.95	3/4		3/4		3/4	
11	2,261.05	11	1,903.10	11	1,545.16	11	1,187.21	11	831.37	11	474.17	11	145.63	11		11		11	
1/4	2,253.59	1/4	1,895.64	1/4	1,537.70	1/4	1,179.75	1/4	823.97	1/4	466.80	1/4	139.31	1/4		1/4		1/4	
1/2	2,246.13	1/2	1,888.19	1/2	1,530.24	1/2	1,172.30	1/2	816.57	1/2	459.43	1/2	132.99	1/2		1/2		1/2	
3/4	2,238.68	3/4	1,880.73	3/4	1,522.78	3/4	1,164.84	3/4	809.17	3/4	452.15	3/4	126.76	3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 12/21/2018 CL
CALCULATED: 01/08/2019 CL
PRINTED: 01/08/2019 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 01/2019

PRECISION MEASUREMENT
& ANALYSIS, INC.
P.O. Box 2092
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http://www.pmacorp.net

BARGE "E2MS 312"

1 STBD

ULLAGE TABLE

10" HATCH

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 17'-07"

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		0		0		6	5,045.07	0	4,748.65	0	4,392.02	0	4,035.40	0	3,677.87	0	3,320.20	0	2,962.53
1/4		1/4		1/4		1/4	5,043.00	1/4	4,741.22	1/4	4,384.59	1/4	4,027.97	1/4	3,670.42	1/4	3,312.75	1/4	2,955.07
1/2		1/2		1/2		1/2	5,040.92	1/2	4,733.79	1/2	4,377.16	1/2	4,020.54	1/2	3,662.97	1/2	3,305.29	1/2	2,947.62
3/4		3/4		3/4		3/4	5,038.84	3/4	4,726.36	3/4	4,369.73	3/4	4,013.11	3/4	3,655.52	3/4	3,297.84	3/4	2,940.17
1		1		1		1	5,036.76	1	4,718.93	1	4,362.30	1	4,005.68	1	3,648.06	1	3,290.39	1	2,932.72
1/4		1/4		1/4		1/4	5,033.44	1/4	4,711.50	1/4	4,354.87	1/4	3,998.24	1/4	3,640.61	1/4	3,282.94	1/4	2,925.27
1/2		1/2		1/2		1/2	5,030.12	1/2	4,704.07	1/2	4,347.45	1/2	3,990.80	1/2	3,633.16	1/2	3,275.49	1/2	2,917.82
3/4		3/4		3/4		3/4	5,026.80	3/4	4,696.64	3/4	4,340.02	3/4	3,983.37	3/4	3,625.71	3/4	3,268.04	3/4	2,910.37
2		2		2		2	5,023.48	2	4,689.21	2	4,332.59	2	3,975.93	2	3,618.26	2	3,260.59	2	2,902.91
1/4		1/4		1/4		1/4	5,018.92	1/4	4,681.78	1/4	4,325.16	1/4	3,968.48	1/4	3,610.81	1/4	3,253.13	1/4	2,895.46
1/2		1/2		1/2		1/2	5,014.35	1/2	4,674.35	1/2	4,317.73	1/2	3,961.03	1/2	3,603.35	1/2	3,245.68	1/2	2,888.01
3/4		3/4		3/4		3/4	5,009.79	3/4	4,666.92	3/4	4,310.30	3/4	3,953.58	3/4	3,595.90	3/4	3,238.23	3/4	2,880.56
3		3		3		3	5,005.23	3	4,659.49	3	4,302.87	3	3,946.12	3	3,588.45	3	3,230.78	3	2,873.11
1/4		1/4		1/4		1/4	4,999.42	1/4	4,652.06	1/4	4,295.44	1/4	3,938.67	1/4	3,581.00	1/4	3,223.33	1/4	2,865.66
1/2		1/2		1/2		1/2	4,993.62	1/2	4,644.63	1/2	4,288.01	1/2	3,931.22	1/2	3,573.55	1/2	3,215.88	1/2	2,858.20
3/4		3/4		3/4		3/4	4,987.81	3/4	4,637.20	3/4	4,280.58	3/4	3,923.77	3/4	3,566.10	3/4	3,208.43	3/4	2,850.75
4		4		4		4	4,982.01	4	4,629.77	4	4,273.15	4	3,916.32	4	3,558.65	4	3,200.97	4	2,843.30
1/4		1/4		1/4		1/4	4,975.15	1/4	4,622.34	1/4	4,265.72	1/4	3,908.87	1/4	3,551.19	1/4	3,193.52	1/4	2,835.85
1/2		1/2		1/2		1/2	4,968.29	1/2	4,614.91	1/2	4,258.29	1/2	3,901.41	1/2	3,543.74	1/2	3,186.07	1/2	2,828.40
3/4		3/4		3/4		3/4	4,961.44	3/4	4,607.48	3/4	4,250.86	3/4	3,893.96	3/4	3,536.29	3/4	3,178.62	3/4	2,820.95
5		5		5		5	4,954.58	5	4,600.06	5	4,243.43	5	3,886.51	5	3,528.84	5	3,171.17	5	2,813.50
1/4		1/4		1/4		1/4	4,947.26	1/4	4,592.63	1/4	4,236.00	1/4	3,879.06	1/4	3,521.39	1/4	3,163.72	1/4	2,806.04
1/2		1/2		1/2		1/2	4,939.95	1/2	4,585.20	1/2	4,228.57	1/2	3,871.61	1/2	3,513.94	1/2	3,156.26	1/2	2,798.59
3/4		3/4		3/4		3/4	4,932.63	3/4	4,577.77	3/4	4,221.14	3/4	3,864.16	3/4	3,506.49	3/4	3,148.81	3/4	2,791.14
6		6		6		6	4,925.32	6	4,570.34	6	4,213.71	6	3,856.71	6	3,499.03	6	3,141.36	6	2,783.69
1/4		1/4		1/4		1/4	4,917.97	1/4	4,562.91	1/4	4,206.28	1/4	3,849.25	1/4	3,491.58	1/4	3,133.91	1/4	2,776.24
1/2		1/2		1/2		1/2	4,910.62	1/2	4,555.48	1/2	4,198.85	1/2	3,841.80	1/2	3,484.13	1/2	3,126.46	1/2	2,768.79
3/4		3/4		3/4		3/4	4,903.27	3/4	4,548.05	3/4	4,191.42	3/4	3,834.35	3/4	3,476.68	3/4	3,119.01	3/4	2,761.34
7		7		7		7	4,895.92	7	4,540.62	7	4,183.99	7	3,826.90	7	3,469.23	7	3,111.56	7	2,753.88
1/4		1/4		1/4		1/4	4,888.57	1/4	4,533.19	1/4	4,176.56	1/4	3,819.45	1/4	3,461.78	1/4	3,104.10	1/4	2,746.43
1/2		1/2		1/2		1/2	4,881.21	1/2	4,525.76	1/2	4,169.13	1/2	3,812.00	1/2	3,454.32	1/2	3,096.65	1/2	2,738.98
3/4		3/4		3/4		3/4	4,873.85	3/4	4,518.33	3/4	4,161.70	3/4	3,804.55	3/4	3,446.87	3/4	3,089.20	3/4	2,731.53
8		8		8		8	4,866.50	8	4,510.90	8	4,154.27	8	3,797.09	8	3,439.42	8	3,081.75	8	2,724.08
1/4		1/4		1/4		1/4	4,859.14	1/4	4,503.47	1/4	4,146.84	1/4	3,789.64	1/4	3,431.97	1/4	3,074.30	1/4	2,716.63
1/2		1/2		1/2		1/2	4,851.78	1/2	4,496.04	1/2	4,139.41	1/2	3,782.19	1/2	3,424.52	1/2	3,066.85	1/2	2,709.17
3/4		3/4		3/4		3/4	4,844.43	3/4	4,488.61	3/4	4,131.98	3/4	3,774.74	3/4	3,417.07	3/4	3,059.40	3/4	2,701.72
9		9		9		9	4,837.07	9	4,481.18	9	4,124.55	9	3,767.29	9	3,409.62	9	3,051.94	9	2,694.27
1/4		1/4		1/4		1/4	4,829.71	1/4	4,473.75	1/4	4,117.12	1/4	3,759.84	1/4	3,402.16	1/4	3,044.49	1/4	2,686.82
1/2		1/2		1/2		1/2	4,822.36	1/2	4,466.32	1/2	4,109.69	1/2	3,752.38	1/2	3,394.71	1/2	3,037.04	1/2	2,679.37
3/4		3/4		3/4		3/4	4,815.00	3/4	4,458.89	3/4	4,102.27	3/4	3,744.93	3/4	3,387.26	3/4	3,029.59	3/4	2,671.92
10		10		10		10	4,807.65	10	4,451.46	10	4,094.84	10	3,737.48	10	3,379.81	10	3,022.14	10	2,664.47
1/4		1/4		1/4		1/4	4,800.29	1/4	4,444.03	1/4	4,087.41	1/4	3,730.03	1/4	3,372.36	1/4	3,014.69	1/4	2,657.01
1/2		1/2		1/2		1/2	4,792.93	1/2	4,436.60	1/2	4,079.98	1/2	3,722.58	1/2	3,364.91	1/2	3,007.23	1/2	2,649.56
3/4		3/4		3/4		3/4	4,785.58	3/4	4,429.17	3/4	4,072.55	3/4	3,715.13	3/4	3,357.46	3/4	2,999.78	3/4	2,642.11
11		11		11		11	4,778.22	11	4,421.74	11	4,065.12	11	3,707.68	11	3,350.00	11	2,992.33	11	2,634.66
1/4		1/4		1/4		1/4	4,770.83	1/4	4,414.31	1/4	4,057.69	1/4	3,700.22	1/4	3,342.55	1/4	2,984.88	1/4	2,627.21
1/2		1/2		1/2		1/2	4,763.44	1/2	4,406.88	1/2	4,050.26	1/2	3,692.77	1/2	3,335.10	1/2	2,977.43	1/2	2,619.76
3/4		3/4		3/4		3/4	4,756.04	3/4	4,399.45	3/4	4,042.83	3/4	3,685.32	3/4	3,327.65	3/4	2,969.98	3/4	2,612.31

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7
CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL
CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK
CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP LIP 10" HATCH ON EXPANSION DOME
GAUGE POINT: (10" HATCH) LOCATED 3'-00" OFF CENTERLINE AND 3'-00" FORWARD OF AFT BULKHEAD

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

BARGE "E2MS 312"

1 STBD

ULLAGE TABLE
10" HATCH
GAUGE HEIGHT 17'-07"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

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	2,604.85	0	2,247.10	0	1,889.33	0	1,531.55	0	1,173.78	0	816.48	0	459.18	0	132.91	0		0	
1/4	2,597.41	1/4	2,239.65	1/4	1,881.87	1/4	1,524.10	1/4	1,166.33	1/4	809.04	1/4	451.90	1/4	126.68	1/4		1/4	
1/2	2,589.96	1/2	2,232.19	1/2	1,874.42	1/2	1,516.65	1/2	1,158.87	1/2	801.59	1/2	444.62	1/2	120.45	1/2		1/2	
3/4	2,582.51	3/4	2,224.74	3/4	1,866.97	3/4	1,509.19	3/4	1,151.42	3/4	794.14	3/4	437.34	3/4	114.22	3/4		3/4	
1	2,575.06	1	2,217.29	1	1,859.51	1	1,501.74	1	1,143.97	1	786.70	1	430.06	1	108.00	1		1	
1/4	2,567.61	1/4	2,209.83	1/4	1,852.06	1/4	1,494.29	1/4	1,136.51	1/4	779.24	1/4	422.87	1/4	101.86	1/4		1/4	
1/2	2,560.15	1/2	2,202.38	1/2	1,844.61	1/2	1,486.83	1/2	1,129.06	1/2	771.79	1/2	415.68	1/2	95.73	1/2		1/2	
3/4	2,552.70	3/4	2,194.93	3/4	1,837.15	3/4	1,479.38	3/4	1,121.61	3/4	764.33	3/4	408.49	3/4	89.59	3/4		3/4	
2	2,545.24	2	2,187.47	2	1,829.70	2	1,471.93	2	1,114.15	2	756.88	2	401.30	2	83.46	2		2	
1/4	2,537.79	1/4	2,180.02	1/4	1,822.25	1/4	1,464.47	1/4	1,106.70	1/4	749.43	1/4	394.20	1/4	77.43	1/4		1/4	
1/2	2,530.34	1/2	2,172.56	1/2	1,814.79	1/2	1,457.02	1/2	1,099.25	1/2	741.97	1/2	387.09	1/2	71.40	1/2		1/2	
3/4	2,522.88	3/4	2,165.11	3/4	1,807.34	3/4	1,449.57	3/4	1,091.80	3/4	734.52	3/4	379.99	3/4	65.37	3/4		3/4	
3	2,515.43	3	2,157.66	3	1,799.88	3	1,442.11	3	1,084.35	3	727.07	3	372.89	3	59.34	3		3	
1/4	2,507.98	1/4	2,150.20	1/4	1,792.43	1/4	1,434.66	1/4	1,076.90	1/4	719.61	1/4	365.87	1/4	53.85	1/4		1/4	
1/2	2,500.52	1/2	2,142.75	1/2	1,784.98	1/2	1,427.20	1/2	1,069.45	1/2	712.16	1/2	358.85	1/2	48.37	1/2		1/2	
3/4	2,493.07	3/4	2,135.30	3/4	1,777.52	3/4	1,419.75	3/4	1,062.01	3/4	704.71	3/4	351.84	3/4	42.89	3/4		3/4	
4	2,485.62	4	2,127.84	4	1,770.07	4	1,412.30	4	1,054.56	4	697.25	4	344.82	4	37.41	4		4	
1/4	2,478.16	1/4	2,120.39	1/4	1,762.62	1/4	1,404.84	1/4	1,047.12	1/4	689.80	1/4	337.89	1/4	33.39	1/4		1/4	
1/2	2,470.71	1/2	2,112.94	1/2	1,755.16	1/2	1,397.39	1/2	1,039.67	1/2	682.35	1/2	330.96	1/2	29.38	1/2		1/2	
3/4	2,463.25	3/4	2,105.48	3/4	1,747.71	3/4	1,389.94	3/4	1,032.23	3/4	674.89	3/4	324.04	3/4	25.37	3/4		3/4	
5	2,455.80	5	2,098.03	5	1,740.26	5	1,382.48	5	1,024.79	5	667.44	5	317.11	5	21.35	5		5	
1/4	2,448.35	1/4	2,090.57	1/4	1,732.80	1/4	1,375.03	1/4	1,017.35	1/4	659.99	1/4	310.27	1/4	18.43	1/4		1/4	
1/2	2,440.89	1/2	2,083.12	1/2	1,725.35	1/2	1,367.58	1/2	1,009.91	1/2	652.53	1/2	303.43	1/2	15.52	1/2		1/2	
3/4	2,433.44	3/4	2,075.67	3/4	1,717.89	3/4	1,360.12	3/4	1,002.47	3/4	645.08	3/4	296.58	3/4	12.60	3/4		3/4	
6	2,425.99	6	2,068.21	6	1,710.44	6	1,352.67	6	995.03	6	637.63	6	289.74	6	9.68	6		6	
1/4	2,418.53	1/4	2,060.76	1/4	1,702.99	1/4	1,345.21	1/4	987.59	1/4	630.17	1/4	282.99	1/4	7.82	1/4		1/4	
1/2	2,411.08	1/2	2,053.31	1/2	1,695.53	1/2	1,337.76	1/2	980.15	1/2	622.72	1/2	276.24	1/2	5.96	1/2		1/2	
3/4	2,403.63	3/4	2,045.85	3/4	1,688.08	3/4	1,330.31	3/4	972.71	3/4	615.26	3/4	269.48	3/4	4.09	3/4		3/4	
7	2,396.17	7	2,038.40	7	1,680.63	7	1,322.85	7	965.27	7	607.81	7	262.73	7	2.23	7		7	
1/4	2,388.72	1/4	2,030.95	1/4	1,673.17	1/4	1,315.40	1/4	957.83	1/4	600.36	1/4	256.06	1/4		1/4		1/4	
1/2	2,381.27	1/2	2,023.49	1/2	1,665.72	1/2	1,307.95	1/2	950.39	1/2	592.90	1/2	249.40	1/2		1/2		1/2	
3/4	2,373.81	3/4	2,016.04	3/4	1,658.27	3/4	1,300.49	3/4	942.95	3/4	585.45	3/4	242.73	3/4		3/4		3/4	
8	2,366.36	8	2,008.59	8	1,650.81	8	1,293.04	8	935.51	8	578.00	8	236.07	8		8		8	
1/4	2,358.90	1/4	2,001.13	1/4	1,643.36	1/4	1,285.59	1/4	928.07	1/4	570.54	1/4	229.49	1/4		1/4		1/4	
1/2	2,351.45	1/2	1,993.68	1/2	1,635.91	1/2	1,278.13	1/2	920.63	1/2	563.09	1/2	222.91	1/2		1/2		1/2	
3/4	2,344.00	3/4	1,986.22	3/4	1,628.45	3/4	1,270.68	3/4	913.19	3/4	555.64	3/4	216.33	3/4		3/4		3/4	
9	2,336.54	9	1,978.77	9	1,621.00	9	1,263.23	9	905.75	9	548.18	9	209.75	9		9		9	
1/4	2,329.09	1/4	1,971.32	1/4	1,613.54	1/4	1,255.77	1/4	898.32	1/4	540.73	1/4	203.26	1/4		1/4		1/4	
1/2	2,321.64	1/2	1,963.86	1/2	1,606.09	1/2	1,248.32	1/2	890.88	1/2	533.28	1/2	196.77	1/2		1/2		1/2	
3/4	2,314.18	3/4	1,956.41	3/4	1,598.64	3/4	1,240.86	3/4	883.44	3/4	525.82	3/4	190.28	3/4		3/4		3/4	
10	2,306.73	10	1,948.96	10	1,591.18	10	1,233.41	10	876.00	10	518.37	10	183.79	10		10		10	
1/4	2,299.28	1/4	1,941.50	1/4	1,583.73	1/4	1,225.96	1/4	868.56	1/4	510.94	1/4	177.38	1/4		1/4		1/4	
1/2	2,291.82	1/2	1,934.05	1/2	1,576.28	1/2	1,218.50	1/2	861.12	1/2	503.51	1/2	170.98	1/2		1/2		1/2	
3/4	2,284.37	3/4	1,926.60	3/4	1,568.82	3/4	1,211.05	3/4	853.68	3/4	496.07	3/4	164.58	3/4		3/4		3/4	
11	2,276.91	11	1,919.14	11	1,561.37	11	1,203.60	11	846.24	11	488.64	11	158.17	11		11		11	
1/4	2,269.46	1/4	1,911.69	1/4	1,553.92	1/4	1,196.14	1/4	838.80	1/4	481.28	1/4	151.86	1/4		1/4		1/4	
1/2	2,262.01	1/2	1,904.23	1/2	1,546.46	1/2	1,188.69	1/2	831.36	1/2	473.91	1/2	145.54	1/2		1/2		1/2	
3/4	2,254.55	3/4	1,896.78	3/4	1,539.01	3/4	1,181.24	3/4	823.92	3/4	466.54	3/4	139.22	3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 12/21/2018 CL
CALCULATED: 01/08/2019 CL
PRINTED: 01/08/2019 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 01/2019

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

BARGE "E2MS 312"

2 PORT
ULLAGE TABLE

10" HATCH
GAUGE HEIGHT 17'-06 3/4"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

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		0		0		0	5,108.09	0	4,805.04	0	4,447.28	0	4,089.51	0	3,730.82	0	3,372.01	0	3,013.19
1/4		1/4		1/4		1/4	5,106.00	1/4	4,797.59	1/4	4,439.82	1/4	4,082.06	1/4	3,723.35	1/4	3,364.53	1/4	3,005.72
1/2		1/2		1/2		1/2	5,103.91	1/2	4,790.14	1/2	4,432.37	1/2	4,074.60	1/2	3,715.87	1/2	3,357.06	1/2	2,998.24
3/4		3/4		3/4		3/4	5,101.81	3/4	4,782.68	3/4	4,424.92	3/4	4,067.15	3/4	3,708.40	3/4	3,349.58	3/4	2,990.77
1		1		1		1	5,098.48	1	4,775.23	1	4,417.46	1	4,059.69	1	3,700.92	1	3,342.11	1	2,983.29
1/4		1/4		1/4		1/4	5,095.14	1/4	4,767.78	1/4	4,410.01	1/4	4,052.23	1/4	3,693.45	1/4	3,334.63	1/4	2,975.82
1/2		1/2		1/2		1/2	5,091.80	1/2	4,760.32	1/2	4,402.56	1/2	4,044.77	1/2	3,685.97	1/2	3,327.16	1/2	2,968.34
3/4		3/4		3/4		3/4	5,088.46	3/4	4,752.87	3/4	4,395.10	3/4	4,037.31	3/4	3,678.50	3/4	3,319.68	3/4	2,960.87
2		2		2		2	5,083.88	2	4,745.42	2	4,387.65	2	4,029.83	2	3,671.02	2	3,312.21	2	2,953.39
1/4		1/4		1/4		1/4	5,079.29	1/4	4,737.96	1/4	4,380.20	1/4	4,022.36	1/4	3,663.54	1/4	3,304.73	1/4	2,945.92
1/2		1/2		1/2		1/2	5,074.71	1/2	4,730.51	1/2	4,372.74	1/2	4,014.88	1/2	3,656.07	1/2	3,297.26	1/2	2,938.44
3/4		3/4		3/4		3/4	5,070.12	3/4	4,723.06	3/4	4,365.29	3/4	4,007.41	3/4	3,648.59	3/4	3,289.78	3/4	2,930.97
3		3		3		3	5,064.29	3	4,715.60	3	4,357.83	3	3,999.93	3	3,641.12	3	3,282.30	3	2,923.49
1/4		1/4		1/4		1/4	5,058.46	1/4	4,708.15	1/4	4,350.38	1/4	3,992.46	1/4	3,633.64	1/4	3,274.83	1/4	2,916.01
1/2		1/2		1/2		1/2	5,052.63	1/2	4,700.70	1/2	4,342.93	1/2	3,984.98	1/2	3,626.17	1/2	3,267.35	1/2	2,908.54
3/4		3/4		3/4		3/4	5,046.81	3/4	4,693.24	3/4	4,335.47	3/4	3,977.51	3/4	3,618.69	3/4	3,259.88	3/4	2,901.06
4		4		4		4	5,039.92	4	4,685.79	4	4,328.02	4	3,970.03	4	3,611.22	4	3,252.40	4	2,893.59
1/4		1/4		1/4		1/4	5,033.04	1/4	4,678.34	1/4	4,320.57	1/4	3,962.56	1/4	3,603.74	1/4	3,244.93	1/4	2,886.11
1/2		1/2		1/2		1/2	5,026.15	1/2	4,670.88	1/2	4,313.11	1/2	3,955.08	1/2	3,596.27	1/2	3,237.45	1/2	2,878.64
3/4		3/4		3/4		3/4	5,019.27	3/4	4,663.43	3/4	4,305.66	3/4	3,947.61	3/4	3,588.79	3/4	3,229.98	3/4	2,871.16
5		5		5		5	5,011.92	5	4,655.97	5	4,298.21	5	3,940.13	5	3,581.32	5	3,222.50	5	2,863.69
1/4		1/4		1/4		1/4	5,004.58	1/4	4,648.52	1/4	4,290.75	1/4	3,932.66	1/4	3,573.84	1/4	3,215.03	1/4	2,856.21
1/2		1/2		1/2		1/2	4,997.23	1/2	4,641.07	1/2	4,283.30	1/2	3,925.18	1/2	3,566.37	1/2	3,207.55	1/2	2,848.74
3/4		3/4		3/4		3/4	4,989.89	3/4	4,633.61	3/4	4,275.85	3/4	3,917.71	3/4	3,558.89	3/4	3,200.08	3/4	2,841.26
6		6		6		6	4,982.51	6	4,626.16	6	4,268.39	6	3,910.23	6	3,551.42	6	3,192.60	6	2,833.79
1/4		1/4		1/4		1/4	4,975.13	1/4	4,618.71	1/4	4,260.94	1/4	3,902.75	1/4	3,543.94	1/4	3,185.13	1/4	2,826.31
1/2		1/2		1/2		1/2	4,967.75	1/2	4,611.25	1/2	4,253.49	1/2	3,895.28	1/2	3,536.46	1/2	3,177.65	1/2	2,818.84
3/4		3/4		3/4		3/4	4,960.37	3/4	4,603.80	3/4	4,246.03	3/4	3,887.80	3/4	3,528.99	3/4	3,170.18	3/4	2,811.36
7		7		7		7	4,952.99	7	4,596.35	7	4,238.58	7	3,880.33	7	3,521.51	7	3,162.70	7	2,803.89
1/4		1/4		1/4		1/4	4,945.60	1/4	4,588.89	1/4	4,231.13	1/4	3,872.85	1/4	3,514.04	1/4	3,155.22	1/4	2,796.41
1/2		1/2		1/2		1/2	4,938.22	1/2	4,581.44	1/2	4,223.67	1/2	3,865.38	1/2	3,506.56	1/2	3,147.75	1/2	2,788.93
3/4		3/4		3/4		3/4	4,930.83	3/4	4,573.99	3/4	4,216.22	3/4	3,857.90	3/4	3,499.09	3/4	3,140.27	3/4	2,781.46
8		8		8		8	4,923.45	8	4,566.53	8	4,208.76	8	3,850.43	8	3,491.61	8	3,132.80	8	2,773.98
1/4		1/4		1/4		1/4	4,916.06	1/4	4,559.08	1/4	4,201.31	1/4	3,842.95	1/4	3,484.14	1/4	3,125.32	1/4	2,766.51
1/2		1/2		1/2		1/2	4,908.67	1/2	4,551.63	1/2	4,193.86	1/2	3,835.48	1/2	3,476.66	1/2	3,117.85	1/2	2,759.03
3/4		3/4		3/4		3/4	4,901.28	3/4	4,544.17	3/4	4,186.40	3/4	3,828.00	3/4	3,469.19	3/4	3,110.37	3/4	2,751.56
9		9		9		9	4,893.90	9	4,536.72	9	4,178.95	9	3,820.53	9	3,461.71	9	3,102.90	9	2,744.08
1/4		1/4		1/4		1/4	4,886.51	1/4	4,529.27	1/4	4,171.50	1/4	3,813.05	1/4	3,454.24	1/4	3,095.42	1/4	2,736.61
1/2		1/2		1/2		1/2	4,879.12	1/2	4,521.81	1/2	4,164.04	1/2	3,805.58	1/2	3,446.76	1/2	3,087.95	1/2	2,729.13
3/4		3/4		3/4		3/4	4,871.73	3/4	4,514.36	3/4	4,156.59	3/4	3,798.10	3/4	3,439.29	3/4	3,080.47	3/4	2,721.66
10		10		10		10	4,864.35	10	4,506.90	10	4,149.14	10	3,790.62	10	3,431.81	10	3,073.00	10	2,714.18
1/4		1/4		1/4		1/4	4,856.96	1/4	4,499.45	1/4	4,141.68	1/4	3,783.15	1/4	3,424.34	1/4	3,065.52	1/4	2,706.71
1/2		1/2		1/2		1/2	4,849.57	1/2	4,492.00	1/2	4,134.23	1/2	3,775.67	1/2	3,416.86	1/2	3,058.05	1/2	2,699.23
3/4		3/4		3/4		3/4	4,842.19	3/4	4,484.54	3/4	4,126.78	3/4	3,768.20	3/4	3,409.38	3/4	3,050.57	3/4	2,691.76
11		11		11		11	4,834.76	11	4,477.09	11	4,119.32	11	3,760.72	11	3,401.91	11	3,043.09	11	2,684.28
1/4		1/4		1/4		1/4	4,827.34	1/4	4,469.64	1/4	4,111.87	1/4	3,753.25	1/4	3,394.43	1/4	3,035.62	1/4	2,676.81
1/2		1/2		1/2		1/2	4,819.92	1/2	4,462.18	1/2	4,104.42	1/2	3,745.77	1/2	3,386.96	1/2	3,028.14	1/2	2,669.33
3/4		3/4		3/4	5,110.18	3/4	4,812.50	3/4	4,454.73	3/4	4,096.96	3/4	3,738.30	3/4	3,379.48	3/4	3,020.67	3/4	2,661.85

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7
CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL
CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK
CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP LIP 10" HATCH ON EXPANSION DOME
GAUGE POINT: (10" HATCH) LOCATED 3'-00" OFF CENTERLINE AND 3'-00" FORWARD OF AFT BULKHEAD

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

BARGE "E2MS 312"

2 PORT

ULLAGE TABLE
10" HATCH

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 17'-06 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	2,654.38	0	2,295.56	0	1,936.75	0	1,577.94	0	1,219.12	0	873.32	0	515.96	0	157.15	0		0	
1/4	2,646.90	1/4	2,288.09	1/4	1,929.28	1/4	1,570.46	1/4	1,211.65	1/4	866.14	1/4	508.48	1/4	149.67	1/4		1/4	
1/2	2,639.43	1/2	2,280.61	1/2	1,921.80	1/2	1,562.99	1/2	1,204.17	1/2	858.96	1/2	501.01	1/2	142.20	1/2		1/2	
3/4	2,631.95	3/4	2,273.14	3/4	1,914.32	3/4	1,555.51	3/4	1,196.70	3/4	851.78	3/4	493.53	3/4	134.72	3/4		3/4	
1	2,624.48	1	2,265.66	1	1,906.85	1	1,548.03	1	1,189.36	1	844.45	1	486.06	1	127.25	1		1	
1/4	2,617.00	1/4	2,258.19	1/4	1,899.37	1/4	1,540.56	1/4	1,182.03	1/4	837.11	1/4	478.58	1/4	119.78	1/4		1/4	
1/2	2,609.53	1/2	2,250.71	1/2	1,891.90	1/2	1,533.08	1/2	1,174.69	1/2	829.78	1/2	471.11	1/2	112.31	1/2		1/2	
3/4	2,602.05	3/4	2,243.24	3/4	1,884.42	3/4	1,525.61	3/4	1,167.36	3/4	822.45	3/4	463.63	3/4	104.85	3/4		3/4	
2	2,594.58	2	2,235.76	2	1,876.95	2	1,518.13	2	1,160.17	2	814.97	2	456.16	2	97.39	2		2	
1/4	2,587.10	1/4	2,228.29	1/4	1,869.47	1/4	1,510.66	1/4	1,152.99	1/4	807.50	1/4	448.68	1/4	89.94	1/4		1/4	
1/2	2,579.63	1/2	2,220.81	1/2	1,862.00	1/2	1,503.18	1/2	1,145.80	1/2	800.02	1/2	441.21	1/2	82.49	1/2		1/2	
3/4	2,572.15	3/4	2,213.34	3/4	1,854.52	3/4	1,495.71	3/4	1,138.62	3/4	792.55	3/4	433.73	3/4	75.04	3/4		3/4	
3	2,564.68	3	2,205.86	3	1,847.05	3	1,488.23	3	1,131.44	3	785.07	3	426.26	3	68.05	3		3	
1/4	2,557.20	1/4	2,198.39	1/4	1,839.57	1/4	1,480.76	1/4	1,124.27	1/4	777.60	1/4	418.78	1/4	61.06	1/4		1/4	
1/2	2,549.73	1/2	2,190.91	1/2	1,832.10	1/2	1,473.28	1/2	1,117.09	1/2	770.12	1/2	411.31	1/2	54.07	1/2		1/2	
3/4	2,542.25	3/4	2,183.44	3/4	1,824.62	3/4	1,465.81	3/4	1,109.91	3/4	762.65	3/4	403.83	3/4	47.08	3/4		3/4	
4	2,534.77	4	2,175.96	4	1,817.15	4	1,458.33	4	1,102.74	4	755.17	4	396.36	4	41.48	4		4	
1/4	2,527.30	1/4	2,168.48	1/4	1,809.67	1/4	1,450.86	1/4	1,095.57	1/4	747.69	1/4	388.88	1/4	35.87	1/4		1/4	
1/2	2,519.82	1/2	2,161.01	1/2	1,802.20	1/2	1,443.38	1/2	1,088.39	1/2	740.22	1/2	381.40	1/2	30.26	1/2		1/2	
3/4	2,512.35	3/4	2,153.53	3/4	1,794.72	3/4	1,435.91	3/4	1,081.22	3/4	732.74	3/4	373.93	3/4	24.66	3/4		3/4	
5	2,504.87	5	2,146.06	5	1,787.24	5	1,428.43	5	1,074.05	5	725.27	5	366.45	5	20.92	5		5	
1/4	2,497.40	1/4	2,138.58	1/4	1,779.77	1/4	1,420.95	1/4	1,066.88	1/4	717.79	1/4	358.98	1/4	17.18	1/4		1/4	
1/2	2,489.92	1/2	2,131.11	1/2	1,772.29	1/2	1,413.48	1/2	1,059.71	1/2	710.32	1/2	351.50	1/2	13.45	1/2		1/2	
3/4	2,482.45	3/4	2,123.63	3/4	1,764.82	3/4	1,406.00	3/4	1,052.55	3/4	702.84	3/4	344.03	3/4	9.71	3/4		3/4	
6	2,474.97	6	2,116.16	6	1,757.34	6	1,398.53	6	1,045.38	6	695.37	6	336.55	6	7.84	6		6	
1/4	2,467.50	1/4	2,108.68	1/4	1,749.87	1/4	1,391.05	1/4	1,038.21	1/4	687.89	1/4	329.08	1/4	5.97	1/4		1/4	
1/2	2,460.02	1/2	2,101.21	1/2	1,742.39	1/2	1,383.58	1/2	1,031.04	1/2	680.42	1/2	321.60	1/2	4.10	1/2		1/2	
3/4	2,452.55	3/4	2,093.73	3/4	1,734.92	3/4	1,376.10	3/4	1,023.87	3/4	672.94	3/4	314.13	3/4	2.23	3/4		3/4	
7	2,445.07	7	2,086.26	7	1,727.44	7	1,368.63	7	1,016.70	7	665.47	7	306.65	7		7		7	
1/4	2,437.60	1/4	2,078.78	1/4	1,719.97	1/4	1,361.15	1/4	1,009.54	1/4	657.99	1/4	299.18	1/4		1/4		1/4	
1/2	2,430.12	1/2	2,071.31	1/2	1,712.49	1/2	1,353.68	1/2	1,002.37	1/2	650.52	1/2	291.70	1/2		1/2		1/2	
3/4	2,422.65	3/4	2,063.83	3/4	1,705.02	3/4	1,346.20	3/4	995.20	3/4	643.04	3/4	284.23	3/4		3/4		3/4	
8	2,415.17	8	2,056.36	8	1,697.54	8	1,338.73	8	988.03	8	635.56	8	276.75	8		8		8	
1/4	2,407.69	1/4	2,048.88	1/4	1,690.07	1/4	1,331.25	1/4	980.86	1/4	628.09	1/4	269.28	1/4		1/4		1/4	
1/2	2,400.22	1/2	2,041.40	1/2	1,682.59	1/2	1,323.78	1/2	973.69	1/2	620.61	1/2	261.80	1/2		1/2		1/2	
3/4	2,392.74	3/4	2,033.93	3/4	1,675.12	3/4	1,316.30	3/4	966.52	3/4	613.14	3/4	254.32	3/4		3/4		3/4	
9	2,385.27	9	2,026.45	9	1,667.64	9	1,308.83	9	959.36	9	605.66	9	246.85	9		9		9	
1/4	2,377.79	1/4	2,018.98	1/4	1,660.16	1/4	1,301.35	1/4	952.19	1/4	598.19	1/4	239.37	1/4		1/4		1/4	
1/2	2,370.32	1/2	2,011.50	1/2	1,652.69	1/2	1,293.87	1/2	945.02	1/2	590.71	1/2	231.90	1/2		1/2		1/2	
3/4	2,362.84	3/4	2,004.03	3/4	1,645.21	3/4	1,286.40	3/4	937.85	3/4	583.24	3/4	224.42	3/4		3/4		3/4	
10	2,355.37	10	1,996.55	10	1,637.74	10	1,278.92	10	930.68	10	575.76	10	216.95	10		10		10	
1/4	2,347.89	1/4	1,989.08	1/4	1,630.26	1/4	1,271.45	1/4	923.51	1/4	568.29	1/4	209.47	1/4		1/4		1/4	
1/2	2,340.42	1/2	1,981.60	1/2	1,622.79	1/2	1,263.97	1/2	916.34	1/2	560.81	1/2	202.00	1/2		1/2		1/2	
3/4	2,332.94	3/4	1,974.13	3/4	1,615.31	3/4	1,256.50	3/4	909.18	3/4	553.34	3/4	194.52	3/4		3/4		3/4	
11	2,325.47	11	1,966.65	11	1,607.84	11	1,249.02	11	902.01	11	545.86	11	187.05	11		11		11	
1/4	2,317.99	1/4	1,959.18	1/4	1,600.36	1/4	1,241.55	1/4	894.84	1/4	538.39	1/4	179.57	1/4		1/4		1/4	
1/2	2,310.52	1/2	1,951.70	1/2	1,592.89	1/2	1,234.07	1/2	887.67	1/2	530.91	1/2	172.10	1/2		1/2		1/2	
3/4	2,303.04	3/4	1,944.23	3/4	1,585.41	3/4	1,226.60	3/4	880.50	3/4	523.44	3/4	164.62	3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 12/21/2018 CL
CALCULATED: 01/08/2019 CL
PRINTED: 01/08/2019 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 01/2019

PRECISION MEASUREMENT
& ANALYSIS, INC.
P.O. Box 2092
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http://www.pmacorp.net

BARGE "E2MS 312"

2 STBD

ULLAGE TABLE

10" HATCH

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 17'-06 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		0		0		0	5,126.45	0	4,817.96	0	4,459.77	0	4,101.57	0	3,742.44	0	3,383.20	0	3,023.97
1/4		1/4		1/4		1/4	5,124.36	1/4	4,810.49	1/4	4,452.30	1/4	4,094.11	1/4	3,734.95	1/4	3,375.72	1/4	3,016.48
1/2		1/2		1/2		1/2	5,122.28	1/2	4,803.03	1/2	4,444.84	1/2	4,086.65	1/2	3,727.47	1/2	3,368.23	1/2	3,009.00
3/4		3/4		3/4		3/4	5,118.94	3/4	4,795.57	3/4	4,437.38	3/4	4,079.18	3/4	3,719.99	3/4	3,360.75	3/4	3,001.51
1		1		1		1	5,115.61	1	4,788.11	1	4,429.92	1	4,071.71	1	3,712.50	1	3,353.27	1	2,994.03
1/4		1/4		1/4		1/4	5,112.27	1/4	4,780.64	1/4	4,422.45	1/4	4,064.24	1/4	3,705.02	1/4	3,345.78	1/4	2,986.54
1/2		1/2		1/2		1/2	5,108.93	1/2	4,773.18	1/2	4,414.99	1/2	4,056.77	1/2	3,697.53	1/2	3,338.30	1/2	2,979.06
3/4		3/4		3/4		3/4	5,104.35	3/4	4,765.72	3/4	4,407.53	3/4	4,049.29	3/4	3,690.05	3/4	3,330.81	3/4	2,971.58
2		2		2		2	5,099.77	2	4,758.26	2	4,400.07	2	4,041.80	2	3,682.57	2	3,323.33	2	2,964.09
1/4		1/4		1/4		1/4	5,095.18	1/4	4,750.79	1/4	4,392.60	1/4	4,034.32	1/4	3,675.08	1/4	3,315.84	1/4	2,956.61
1/2		1/2		1/2		1/2	5,090.60	1/2	4,743.33	1/2	4,385.14	1/2	4,026.83	1/2	3,667.60	1/2	3,308.36	1/2	2,949.12
3/4		3/4		3/4		3/4	5,084.77	3/4	4,735.87	3/4	4,377.68	3/4	4,019.35	3/4	3,660.11	3/4	3,300.88	3/4	2,941.64
3		3		3		3	5,078.94	3	4,728.41	3	4,370.22	3	4,011.87	3	3,652.63	3	3,293.39	3	2,934.16
1/4		1/4		1/4		1/4	5,073.11	1/4	4,720.95	1/4	4,362.76	1/4	4,004.38	1/4	3,645.15	1/4	3,285.91	1/4	2,926.67
1/2		1/2		1/2		1/2	5,067.28	1/2	4,713.48	1/2	4,355.29	1/2	3,996.90	1/2	3,637.66	1/2	3,278.42	1/2	2,919.19
3/4		3/4		3/4		3/4	5,060.39	3/4	4,706.02	3/4	4,347.83	3/4	3,989.41	3/4	3,630.18	3/4	3,270.94	3/4	2,911.70
4		4		4		4	5,053.50	4	4,698.56	4	4,340.37	4	3,981.93	4	3,622.69	4	3,263.46	4	2,904.22
1/4		1/4		1/4		1/4	5,046.62	1/4	4,691.10	1/4	4,332.91	1/4	3,974.45	1/4	3,615.21	1/4	3,255.97	1/4	2,896.74
1/2		1/2		1/2		1/2	5,039.73	1/2	4,683.63	1/2	4,325.44	1/2	3,966.96	1/2	3,607.72	1/2	3,248.49	1/2	2,889.25
3/4		3/4		3/4		3/4	5,032.38	3/4	4,676.17	3/4	4,317.98	3/4	3,959.48	3/4	3,600.24	3/4	3,241.00	3/4	2,881.77
5		5		5		5	5,025.03	5	4,668.71	5	4,310.52	5	3,951.99	5	3,592.76	5	3,233.52	5	2,874.28
1/4		1/4		1/4		1/4	5,017.68	1/4	4,661.25	1/4	4,303.06	1/4	3,944.51	1/4	3,585.27	1/4	3,226.04	1/4	2,866.80
1/2		1/2		1/2		1/2	5,010.34	1/2	4,653.78	1/2	4,295.59	1/2	3,937.03	1/2	3,577.79	1/2	3,218.55	1/2	2,859.31
3/4		3/4		3/4		3/4	5,002.95	3/4	4,646.32	3/4	4,288.13	3/4	3,929.54	3/4	3,570.30	3/4	3,211.07	3/4	2,851.83
6		6		6		6	4,995.57	6	4,638.86	6	4,280.67	6	3,922.06	6	3,562.82	6	3,203.58	6	2,844.35
1/4		1/4		1/4		1/4	4,988.19	1/4	4,631.40	1/4	4,273.21	1/4	3,914.57	1/4	3,555.34	1/4	3,196.10	1/4	2,836.86
1/2		1/2		1/2		1/2	4,980.81	1/2	4,623.94	1/2	4,265.75	1/2	3,907.09	1/2	3,547.85	1/2	3,188.62	1/2	2,829.38
3/4		3/4		3/4		3/4	4,973.42	3/4	4,616.47	3/4	4,258.28	3/4	3,899.60	3/4	3,540.37	3/4	3,181.13	3/4	2,821.89
7		7		7		7	4,966.03	7	4,609.01	7	4,250.82	7	3,892.12	7	3,532.88	7	3,173.65	7	2,814.41
1/4		1/4		1/4		1/4	4,958.64	1/4	4,601.55	1/4	4,243.36	1/4	3,884.64	1/4	3,525.40	1/4	3,166.16	1/4	2,806.93
1/2		1/2		1/2		1/2	4,951.25	1/2	4,594.09	1/2	4,235.90	1/2	3,877.15	1/2	3,517.92	1/2	3,158.68	1/2	2,799.44
3/4		3/4		3/4		3/4	4,943.86	3/4	4,586.62	3/4	4,228.43	3/4	3,869.67	3/4	3,510.43	3/4	3,151.19	3/4	2,791.96
8		8		8		8	4,936.47	8	4,579.16	8	4,220.97	8	3,862.18	8	3,502.95	8	3,143.71	8	2,784.47
1/4		1/4		1/4		1/4	4,929.08	1/4	4,571.70	1/4	4,213.51	1/4	3,854.70	1/4	3,495.46	1/4	3,136.23	1/4	2,776.99
1/2		1/2		1/2		1/2	4,921.69	1/2	4,564.24	1/2	4,206.05	1/2	3,847.22	1/2	3,487.98	1/2	3,128.74	1/2	2,769.51
3/4		3/4		3/4		3/4	4,914.30	3/4	4,556.77	3/4	4,198.58	3/4	3,839.73	3/4	3,480.50	3/4	3,121.26	3/4	2,762.02
9		9		9		9	4,906.91	9	4,549.31	9	4,191.12	9	3,832.25	9	3,473.01	9	3,113.77	9	2,754.54
1/4		1/4		1/4		1/4	4,899.52	1/4	4,541.85	1/4	4,183.66	1/4	3,824.76	1/4	3,465.53	1/4	3,106.29	1/4	2,747.05
1/2		1/2		1/2		1/2	4,892.14	1/2	4,534.39	1/2	4,176.20	1/2	3,817.28	1/2	3,458.04	1/2	3,098.81	1/2	2,739.57
3/4		3/4		3/4		3/4	4,884.75	3/4	4,526.93	3/4	4,168.74	3/4	3,809.80	3/4	3,450.56	3/4	3,091.32	3/4	2,732.09
10		10		10		10	4,877.36	10	4,519.46	10	4,161.27	10	3,802.31	10	3,443.07	10	3,083.84	10	2,724.60
1/4		1/4		1/4		1/4	4,869.97	1/4	4,512.00	1/4	4,153.81	1/4	3,794.83	1/4	3,435.59	1/4	3,076.35	1/4	2,717.12
1/2		1/2		1/2		1/2	4,862.58	1/2	4,504.54	1/2	4,146.35	1/2	3,787.34	1/2	3,428.11	1/2	3,068.87	1/2	2,709.63
3/4		3/4		3/4		3/4	4,855.16	3/4	4,497.08	3/4	4,138.89	3/4	3,779.86	3/4	3,420.62	3/4	3,061.39	3/4	2,702.15
11		11		11		11	4,847.73	11	4,489.61	11	4,131.42	11	3,772.38	11	3,413.14	11	3,053.90	11	2,694.66
1/4		1/4		1/4		1/4	4,840.31	1/4	4,482.15	1/4	4,123.96	1/4	3,764.89	1/4	3,405.65	1/4	3,046.42	1/4	2,687.18
1/2		1/2		1/2	5,130.63	1/2	4,832.88	1/2	4,474.69	1/2	4,116.50	1/2	3,757.41	1/2	3,398.17	1/2	3,038.93	1/2	2,679.70
3/4		3/4		3/4	5,128.54	3/4	4,825.42	3/4	4,467.23	3/4	4,109.04	3/4	3,749.92	3/4	3,390.69	3/4	3,031.45	3/4	2,672.21

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7
CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL
CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK
CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP LIP 10" HATCH ON EXPANSION DOME
GAUGE POINT: (10" HATCH) LOCATED 3'-00" OFF CENTERLINE AND 3'-00" FORWARD OF AFT BULKHEAD

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

BARGE "E2MS 312"

2 STBD

ULLAGE TABLE
10" HATCH

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 17'-06 1/2"

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	2,664.72	0	2,305.39	0	1,946.06	0	1,586.73	0	1,227.39	0	868.54	0	509.22	0	149.89	0		0	
1/4	2,657.24	1/4	2,297.90	1/4	1,938.57	1/4	1,579.24	1/4	1,219.91	1/4	861.06	1/4	501.74	1/4	142.40	1/4		1/4	
1/2	2,649.75	1/2	2,290.42	1/2	1,931.09	1/2	1,571.75	1/2	1,212.42	1/2	853.58	1/2	494.25	1/2	134.92	1/2		1/2	
3/4	2,642.27	3/4	2,282.93	3/4	1,923.60	3/4	1,564.27	3/4	1,204.93	3/4	846.10	3/4	486.76	3/4	127.44	3/4		3/4	
1	2,634.78	1	2,275.45	1	1,916.11	1	1,556.78	1	1,197.45	1	838.61	1	479.28	1	119.96	1		1	
1/4	2,627.29	1/4	2,267.96	1/4	1,908.63	1/4	1,549.29	1/4	1,189.96	1/4	831.12	1/4	471.79	1/4	112.48	1/4		1/4	
1/2	2,619.81	1/2	2,260.47	1/2	1,901.14	1/2	1,541.81	1/2	1,182.48	1/2	823.64	1/2	464.30	1/2	105.00	1/2		1/2	
3/4	2,612.32	3/4	2,252.99	3/4	1,893.66	3/4	1,534.32	3/4	1,174.99	3/4	816.15	3/4	456.82	3/4	97.54	3/4		3/4	
2	2,604.83	2	2,245.50	2	1,886.17	2	1,526.84	2	1,167.51	2	808.67	2	449.33	2	90.07	2		2	
1/4	2,597.35	1/4	2,238.02	1/4	1,878.68	1/4	1,519.35	1/4	1,160.03	1/4	801.18	1/4	441.85	1/4	82.61	1/4		1/4	
1/2	2,589.86	1/2	2,230.53	1/2	1,871.20	1/2	1,511.86	1/2	1,152.54	1/2	793.69	1/2	434.36	1/2	75.15	1/2		1/2	
3/4	2,582.38	3/4	2,223.04	3/4	1,863.71	3/4	1,504.38	3/4	1,145.06	3/4	786.21	3/4	426.87	3/4	68.15	3/4		3/4	
3	2,574.89	3	2,215.56	3	1,856.22	3	1,496.89	3	1,137.58	3	778.72	3	419.39	3	61.15	3		3	
1/4	2,567.40	1/4	2,208.07	1/4	1,848.74	1/4	1,489.41	1/4	1,130.10	1/4	771.23	1/4	411.90	1/4	54.15	1/4		1/4	
1/2	2,559.92	1/2	2,200.59	1/2	1,841.25	1/2	1,481.92	1/2	1,122.62	1/2	763.75	1/2	404.42	1/2	47.15	1/2		1/2	
3/4	2,552.43	3/4	2,193.10	3/4	1,833.77	3/4	1,474.43	3/4	1,115.14	3/4	756.26	3/4	396.93	3/4	41.54	3/4		3/4	
4	2,544.95	4	2,185.61	4	1,826.28	4	1,466.95	4	1,107.67	4	748.78	4	389.44	4	35.92	4		4	
1/4	2,537.46	1/4	2,178.13	1/4	1,818.79	1/4	1,459.46	1/4	1,100.19	1/4	741.29	1/4	381.96	1/4	30.31	1/4		1/4	
1/2	2,529.97	1/2	2,170.64	1/2	1,811.31	1/2	1,451.98	1/2	1,092.72	1/2	733.80	1/2	374.47	1/2	24.69	1/2		1/2	
3/4	2,522.49	3/4	2,163.15	3/4	1,803.82	3/4	1,444.49	3/4	1,085.24	3/4	726.32	3/4	366.99	3/4	20.95	3/4		3/4	
5	2,515.00	5	2,155.67	5	1,796.34	5	1,437.00	5	1,077.77	5	718.83	5	359.50	5	17.21	5		5	
1/4	2,507.52	1/4	2,148.18	1/4	1,788.85	1/4	1,429.52	1/4	1,070.30	1/4	711.35	1/4	352.01	1/4	13.47	1/4		1/4	
1/2	2,500.03	1/2	2,140.70	1/2	1,781.36	1/2	1,422.03	1/2	1,062.83	1/2	703.86	1/2	344.53	1/2	9.72	1/2		1/2	
3/4	2,492.54	3/4	2,133.21	3/4	1,773.88	3/4	1,414.54	3/4	1,055.36	3/4	696.37	3/4	337.04	3/4	7.85	3/4		3/4	
6	2,485.06	6	2,125.72	6	1,766.39	6	1,407.06	6	1,047.88	6	688.89	6	329.56	6	5.98	6		6	
1/4	2,477.57	1/4	2,118.24	1/4	1,758.91	1/4	1,399.57	1/4	1,040.41	1/4	681.40	1/4	322.07	1/4	4.11	1/4		1/4	
1/2	2,470.08	1/2	2,110.75	1/2	1,751.42	1/2	1,392.09	1/2	1,032.94	1/2	673.92	1/2	314.58	1/2	2.24	1/2		1/2	
3/4	2,462.60	3/4	2,103.27	3/4	1,743.93	3/4	1,384.60	3/4	1,025.47	3/4	666.43	3/4	307.10	3/4		3/4		3/4	
7	2,455.11	7	2,095.78	7	1,736.45	7	1,377.11	7	1,018.00	7	658.94	7	299.61	7		7		7	
1/4	2,447.63	1/4	2,088.29	1/4	1,728.96	1/4	1,369.63	1/4	1,010.52	1/4	651.46	1/4	292.12	1/4		1/4		1/4	
1/2	2,440.14	1/2	2,080.81	1/2	1,721.47	1/2	1,362.14	1/2	1,003.05	1/2	643.97	1/2	284.64	1/2		1/2		1/2	
3/4	2,432.65	3/4	2,073.32	3/4	1,713.99	3/4	1,354.66	3/4	995.58	3/4	636.49	3/4	277.15	3/4		3/4		3/4	
8	2,425.17	8	2,065.84	8	1,706.50	8	1,347.17	8	988.11	8	629.00	8	269.67	8		8		8	
1/4	2,417.68	1/4	2,058.35	1/4	1,699.02	1/4	1,339.68	1/4	980.64	1/4	621.51	1/4	262.18	1/4		1/4		1/4	
1/2	2,410.20	1/2	2,050.86	1/2	1,691.53	1/2	1,332.20	1/2	973.16	1/2	614.03	1/2	254.69	1/2		1/2		1/2	
3/4	2,402.71	3/4	2,043.38	3/4	1,684.04	3/4	1,324.71	3/4	965.69	3/4	606.54	3/4	247.21	3/4		3/4		3/4	
9	2,395.22	9	2,035.89	9	1,676.56	9	1,317.23	9	958.22	9	599.05	9	239.72	9		9		9	
1/4	2,387.74	1/4	2,028.40	1/4	1,669.07	1/4	1,309.74	1/4	950.75	1/4	591.57	1/4	232.24	1/4		1/4		1/4	
1/2	2,380.25	1/2	2,020.92	1/2	1,661.59	1/2	1,302.25	1/2	943.28	1/2	584.08	1/2	224.75	1/2		1/2		1/2	
3/4	2,372.77	3/4	2,013.43	3/4	1,654.10	3/4	1,294.77	3/4	935.80	3/4	576.60	3/4	217.26	3/4		3/4		3/4	
10	2,365.28	10	2,005.95	10	1,646.61	10	1,287.28	10	928.33	10	569.11	10	209.78	10		10		10	
1/4	2,357.79	1/4	1,998.46	1/4	1,639.13	1/4	1,279.79	1/4	920.86	1/4	561.62	1/4	202.29	1/4		1/4		1/4	
1/2	2,350.31	1/2	1,990.97	1/2	1,631.64	1/2	1,272.31	1/2	913.39	1/2	554.14	1/2	194.81	1/2		1/2		1/2	
3/4	2,342.82	3/4	1,983.49	3/4	1,624.16	3/4	1,264.82	3/4	905.92	3/4	546.65	3/4	187.32	3/4		3/4		3/4	
11	2,335.34	11	1,976.00	11	1,616.67	11	1,257.34	11	898.44	11	539.17	11	179.83	11		11		11	
1/4	2,327.85	1/4	1,968.52	1/4	1,609.18	1/4	1,249.85	1/4	890.97	1/4	531.68	1/4	172.35	1/4		1/4		1/4	
1/2	2,320.36	1/2	1,961.03	1/2	1,601.70	1/2	1,242.36	1/2	883.50	1/2	524.19	1/2	164.86	1/2		1/2		1/2	
3/4	2,312.88	3/4	1,953.54	3/4	1,594.21	3/4	1,234.88	3/4	876.02	3/4	516.71	3/4	157.38	3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 12/21/2018 CL
CALCULATED: 01/08/2019 CL
PRINTED: 01/08/2019 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 01/2019

PRECISION MEASUREMENT
& ANALYSIS, INC.
P.O. Box 2092
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http://www.pmacorp.net

BARGE "E2MS 312"

3 PORT

ULLAGE TABLE

10" HATCH

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 17'-06 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		0		0		0	4,472.89	0	4,287.44	0	4,068.30	0	3,849.16	0	3,629.48	0	3,356.38	0	3,000.18
1/4		1/4		1/4		1/4	4,471.61	1/4	4,282.87	1/4	4,063.73	1/4	3,844.59	1/4	3,624.90	1/4	3,348.97	1/4	2,992.75
1/2		1/2		1/2		1/2	4,470.33	1/2	4,278.31	1/2	4,059.17	1/2	3,840.03	1/2	3,620.32	1/2	3,341.57	1/2	2,985.32
3/4		3/4		3/4		3/4	4,469.06	3/4	4,273.74	3/4	4,054.60	3/4	3,835.46	3/4	3,615.74	3/4	3,334.17	3/4	2,977.88
1		1		1		1	4,467.02	1	4,269.18	1	4,050.04	1	3,830.89	1	3,611.16	1	3,326.76	1	2,970.45
1/4		1/4		1/4		1/4	4,464.97	1/4	4,264.61	1/4	4,045.47	1/4	3,826.32	1/4	3,606.59	1/4	3,319.36	1/4	2,963.02
1/2		1/2		1/2		1/2	4,462.93	1/2	4,260.05	1/2	4,040.91	1/2	3,821.75	1/2	3,602.01	1/2	3,311.95	1/2	2,955.59
3/4		3/4		3/4		3/4	4,460.89	3/4	4,255.48	3/4	4,036.34	3/4	3,817.18	3/4	3,597.43	3/4	3,304.55	3/4	2,948.15
2		2		2		2	4,458.09	2	4,250.92	2	4,031.78	2	3,812.60	2	3,592.85	2	3,297.14	2	2,940.72
1/4		1/4		1/4		1/4	4,455.28	1/4	4,246.35	1/4	4,027.21	1/4	3,808.02	1/4	3,588.27	1/4	3,289.74	1/4	2,933.29
1/2		1/2		1/2		1/2	4,452.48	1/2	4,241.78	1/2	4,022.65	1/2	3,803.44	1/2	3,583.69	1/2	3,282.33	1/2	2,925.85
3/4		3/4		3/4		3/4	4,449.68	3/4	4,237.22	3/4	4,018.08	3/4	3,798.87	3/4	3,579.12	3/4	3,274.93	3/4	2,918.42
3		3		3		3	4,446.11	3	4,232.65	3	4,013.51	3	3,794.29	3	3,574.54	3	3,267.52	3	2,910.99
1/4		1/4		1/4		1/4	4,442.54	1/4	4,228.09	1/4	4,008.95	1/4	3,789.71	1/4	3,569.96	1/4	3,260.12	1/4	2,903.55
1/2		1/2		1/2		1/2	4,438.97	1/2	4,223.52	1/2	4,004.38	1/2	3,785.13	1/2	3,565.38	1/2	3,252.71	1/2	2,896.12
3/4		3/4		3/4		3/4	4,435.41	3/4	4,218.96	3/4	3,999.82	3/4	3,780.55	3/4	3,560.80	3/4	3,245.31	3/4	2,888.69
4		4		4		4	4,431.19	4	4,214.39	4	3,995.25	4	3,775.98	4	3,556.11	4	3,237.91	4	2,881.25
1/4		1/4		1/4		1/4	4,426.98	1/4	4,209.83	1/4	3,990.69	1/4	3,771.40	1/4	3,551.41	1/4	3,230.50	1/4	2,873.82
1/2		1/2		1/2		1/2	4,422.77	1/2	4,205.26	1/2	3,986.12	1/2	3,766.82	1/2	3,546.71	1/2	3,223.10	1/2	2,866.39
3/4		3/4		3/4		3/4	4,418.55	3/4	4,200.70	3/4	3,981.56	3/4	3,762.24	3/4	3,542.01	3/4	3,215.69	3/4	2,858.95
5		5		5		5	4,414.06	5	4,196.13	5	3,976.99	5	3,757.66	5	3,536.97	5	3,208.27	5	2,851.52
1/4		1/4		1/4		1/4	4,409.56	1/4	4,191.56	1/4	3,972.43	1/4	3,753.08	1/4	3,531.93	1/4	3,200.85	1/4	2,844.09
1/2		1/2		1/2		1/2	4,405.07	1/2	4,187.00	1/2	3,967.86	1/2	3,748.51	1/2	3,526.89	1/2	3,193.43	1/2	2,836.65
3/4		3/4		3/4		3/4	4,400.57	3/4	4,182.43	3/4	3,963.29	3/4	3,743.93	3/4	3,521.86	3/4	3,186.01	3/4	2,829.22
6		6		6		6	4,396.05	6	4,177.87	6	3,958.73	6	3,739.35	6	3,516.36	6	3,178.58	6	2,821.79
1/4		1/4		1/4		1/4	4,391.54	1/4	4,173.30	1/4	3,954.16	1/4	3,734.77	1/4	3,510.86	1/4	3,171.15	1/4	2,814.35
1/2		1/2		1/2		1/2	4,387.02	1/2	4,168.74	1/2	3,949.60	1/2	3,730.19	1/2	3,505.36	1/2	3,163.71	1/2	2,806.92
3/4		3/4		3/4		3/4	4,382.50	3/4	4,164.17	3/4	3,945.03	3/4	3,725.62	3/4	3,499.85	3/4	3,156.28	3/4	2,799.49
7		7		7		7	4,377.98	7	4,159.61	7	3,940.47	7	3,721.04	7	3,493.88	7	3,148.85	7	2,792.05
1/4		1/4		1/4		1/4	4,373.46	1/4	4,155.04	1/4	3,935.90	1/4	3,716.46	1/4	3,487.91	1/4	3,141.42	1/4	2,784.62
1/2		1/2		1/2		1/2	4,368.94	1/2	4,150.48	1/2	3,931.34	1/2	3,711.88	1/2	3,481.93	1/2	3,133.98	1/2	2,777.19
3/4		3/4		3/4		3/4	4,364.42	3/4	4,145.91	3/4	3,926.77	3/4	3,707.30	3/4	3,475.96	3/4	3,126.55	3/4	2,769.76
8		8		8		8	4,359.90	8	4,141.35	8	3,922.21	8	3,702.73	8	3,469.51	8	3,119.12	8	2,762.32
1/4		1/4		1/4		1/4	4,355.38	1/4	4,136.78	1/4	3,917.64	1/4	3,698.15	1/4	3,463.06	1/4	3,111.68	1/4	2,754.89
1/2		1/2		1/2		1/2	4,350.85	1/2	4,132.21	1/2	3,913.08	1/2	3,693.57	1/2	3,456.62	1/2	3,104.25	1/2	2,747.46
3/4		3/4		3/4		3/4	4,346.33	3/4	4,127.65	3/4	3,908.51	3/4	3,688.99	3/4	3,450.17	3/4	3,096.82	3/4	2,740.02
9		9		9		9	4,341.81	9	4,123.08	9	3,903.94	9	3,684.41	9	3,443.25	9	3,089.38	9	2,732.59
1/4		1/4		1/4		1/4	4,337.29	1/4	4,118.52	1/4	3,899.38	1/4	3,679.84	1/4	3,436.32	1/4	3,081.95	1/4	2,725.16
1/2		1/2		1/2		1/2	4,332.77	1/2	4,113.95	1/2	3,894.81	1/2	3,675.26	1/2	3,429.40	1/2	3,074.52	1/2	2,717.72
3/4		3/4		3/4		3/4	4,328.25	3/4	4,109.39	3/4	3,890.25	3/4	3,670.68	3/4	3,422.47	3/4	3,067.08	3/4	2,710.29
10		10		10		10	4,323.73	10	4,104.82	10	3,885.68	10	3,666.10	10	3,415.20	10	3,059.65	10	2,702.86
1/4		1/4		1/4		1/4	4,319.21	1/4	4,100.26	1/4	3,881.12	1/4	3,661.52	1/4	3,407.92	1/4	3,052.22	1/4	2,695.42
1/2		1/2		1/2		1/2	4,314.69	1/2	4,095.69	1/2	3,876.55	1/2	3,656.94	1/2	3,400.64	1/2	3,044.78	1/2	2,687.99
3/4		3/4		3/4		3/4	4,310.17	3/4	4,091.13	3/4	3,871.99	3/4	3,652.37	3/4	3,393.36	3/4	3,037.35	3/4	2,680.56
11		11		11		11	4,305.63	11	4,086.56	11	3,867.42	11	3,647.79	11	3,385.97	11	3,029.92	11	2,673.12
1/4		1/4		1/4		1/4	4,301.09	1/4	4,082.00	1/4	3,862.86	1/4	3,643.21	1/4	3,378.57	1/4	3,022.48	1/4	2,665.69
1/2		1/2		1/2		1/2	4,296.55	1/2	4,077.43	1/2	3,858.29	1/2	3,638.63	1/2	3,371.17	1/2	3,015.05	1/2	2,658.26
3/4		3/4		3/4	4,474.17	3/4	4,292.00	3/4	4,072.86	3/4	3,853.73	3/4	3,634.05	3/4	3,363.78	3/4	3,007.62	3/4	2,650.82

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7
CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL
CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK
CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP LIP 10" HATCH ON EXPANSION DOME
GAUGE POINT: (10" HATCH) LOCATED 3'-00" OFF CENTERLINE AND 82'-09" FORWARD OF AFT BULKHEAD

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

BARGE "E2MS 312"

3 PORT

ULLAGE TABLE
10" HATCH

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 17'-06 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	2,643.39	0	2,286.37	0	1,929.70	0	1,572.93	0	1,215.74	0	870.19	0	514.43	0	156.78	0		0	
1/4	2,635.96	1/4	2,278.93	1/4	1,922.28	1/4	1,565.48	1/4	1,208.30	1/4	863.03	1/4	506.98	1/4	149.33	1/4		1/4	
1/2	2,628.52	1/2	2,271.49	1/2	1,914.85	1/2	1,558.04	1/2	1,200.86	1/2	855.87	1/2	499.53	1/2	141.87	1/2		1/2	
3/4	2,621.09	3/4	2,264.05	3/4	1,907.43	3/4	1,550.60	3/4	1,193.42	3/4	848.71	3/4	492.09	3/4	134.41	3/4		3/4	
1	2,613.65	1	2,256.61	1	1,900.00	1	1,543.16	1	1,186.08	1	841.43	1	484.64	1	126.96	1		1	
1/4	2,606.22	1/4	2,249.17	1/4	1,892.58	1/4	1,535.72	1/4	1,178.74	1/4	834.15	1/4	477.20	1/4	119.51	1/4		1/4	
1/2	2,598.78	1/2	2,241.73	1/2	1,885.15	1/2	1,528.28	1/2	1,171.41	1/2	826.88	1/2	469.75	1/2	112.06	1/2		1/2	
3/4	2,591.35	3/4	2,234.30	3/4	1,877.73	3/4	1,520.84	3/4	1,164.07	3/4	819.60	3/4	462.30	3/4	104.60	3/4		3/4	
2	2,583.92	2	2,226.86	2	1,870.30	2	1,513.39	2	1,156.84	2	812.18	2	454.86	2	97.17	2		2	
1/4	2,576.48	1/4	2,219.42	1/4	1,862.88	1/4	1,505.95	1/4	1,149.61	1/4	804.77	1/4	447.41	1/4	89.74	1/4		1/4	
1/2	2,569.05	1/2	2,211.98	1/2	1,855.45	1/2	1,498.51	1/2	1,142.39	1/2	797.35	1/2	439.96	1/2	82.30	1/2		1/2	
3/4	2,561.61	3/4	2,204.55	3/4	1,848.03	3/4	1,491.07	3/4	1,135.16	3/4	789.94	3/4	432.52	3/4	74.87	3/4		3/4	
3	2,554.18	3	2,197.11	3	1,840.60	3	1,483.63	3	1,127.94	3	782.49	3	425.07	3	67.89	3		3	
1/4	2,546.74	1/4	2,189.67	1/4	1,833.18	1/4	1,476.19	1/4	1,120.72	1/4	775.05	1/4	417.63	1/4	60.92	1/4		1/4	
1/2	2,539.31	1/2	2,182.23	1/2	1,825.75	1/2	1,468.75	1/2	1,113.50	1/2	767.60	1/2	410.18	1/2	53.95	1/2		1/2	
3/4	2,531.87	3/4	2,174.79	3/4	1,818.33	3/4	1,461.31	3/4	1,106.28	3/4	760.15	3/4	402.73	3/4	46.97	3/4		3/4	
4	2,524.44	4	2,167.36	4	1,810.90	4	1,453.86	4	1,099.09	4	752.71	4	395.29	4	41.38	4		4	
1/4	2,517.01	1/4	2,159.92	1/4	1,803.48	1/4	1,446.42	1/4	1,091.91	1/4	745.26	1/4	387.84	1/4	35.79	1/4		1/4	
1/2	2,509.57	1/2	2,152.48	1/2	1,796.05	1/2	1,438.98	1/2	1,084.72	1/2	737.82	1/2	380.39	1/2	30.20	1/2		1/2	
3/4	2,502.14	3/4	2,145.04	3/4	1,788.63	3/4	1,431.54	3/4	1,077.54	3/4	730.37	3/4	372.95	3/4	24.60	3/4		3/4	
5	2,494.70	5	2,137.60	5	1,781.20	5	1,424.10	5	1,070.39	5	722.92	5	365.50	5	20.87	5		5	
1/4	2,487.27	1/4	2,130.17	1/4	1,773.78	1/4	1,416.66	1/4	1,063.24	1/4	715.48	1/4	358.05	1/4	17.15	1/4		1/4	
1/2	2,479.83	1/2	2,122.73	1/2	1,766.35	1/2	1,409.22	1/2	1,056.09	1/2	708.03	1/2	350.61	1/2	13.42	1/2		1/2	
3/4	2,472.40	3/4	2,115.29	3/4	1,758.93	3/4	1,401.78	3/4	1,048.94	3/4	700.58	3/4	343.16	3/4	9.69	3/4		3/4	
6	2,464.97	6	2,107.86	6	1,751.49	6	1,394.33	6	1,041.79	6	693.14	6	335.72	6	7.82	6		6	
1/4	2,457.53	1/4	2,100.43	1/4	1,744.06	1/4	1,386.89	1/4	1,034.64	1/4	685.69	1/4	328.27	1/4	5.96	1/4		1/4	
1/2	2,450.10	1/2	2,093.01	1/2	1,736.63	1/2	1,379.45	1/2	1,027.49	1/2	678.25	1/2	320.82	1/2	4.10	1/2		1/2	
3/4	2,442.66	3/4	2,085.58	3/4	1,729.19	3/4	1,372.01	3/4	1,020.34	3/4	670.80	3/4	313.38	3/4	2.23	3/4		3/4	
7	2,435.22	7	2,078.16	7	1,721.75	7	1,364.57	7	1,013.19	7	663.35	7	305.92	7		7		7	
1/4	2,427.78	1/4	2,070.74	1/4	1,714.31	1/4	1,357.13	1/4	1,006.04	1/4	655.91	1/4	298.47	1/4		1/4		1/4	
1/2	2,420.35	1/2	2,063.33	1/2	1,706.87	1/2	1,349.69	1/2	998.89	1/2	648.46	1/2	291.02	1/2		1/2		1/2	
3/4	2,412.91	3/4	2,055.91	3/4	1,699.43	3/4	1,342.24	3/4	991.74	3/4	641.01	3/4	283.57	3/4		3/4		3/4	
8	2,405.46	8	2,048.49	8	1,691.99	8	1,334.80	8	984.60	8	633.57	8	276.11	8		8		8	
1/4	2,398.02	1/4	2,041.07	1/4	1,684.54	1/4	1,327.36	1/4	977.45	1/4	626.12	1/4	268.65	1/4		1/4		1/4	
1/2	2,390.58	1/2	2,033.64	1/2	1,677.10	1/2	1,319.92	1/2	970.30	1/2	618.68	1/2	261.19	1/2		1/2		1/2	
3/4	2,383.13	3/4	2,026.22	3/4	1,669.66	3/4	1,312.48	3/4	963.15	3/4	611.23	3/4	253.74	3/4		3/4		3/4	
9	2,375.69	9	2,018.80	9	1,662.22	9	1,305.04	9	956.00	9	603.78	9	246.28	9		9		9	
1/4	2,368.25	1/4	2,011.37	1/4	1,654.78	1/4	1,297.60	1/4	948.85	1/4	596.34	1/4	238.82	1/4		1/4		1/4	
1/2	2,360.80	1/2	2,003.95	1/2	1,647.34	1/2	1,290.16	1/2	941.70	1/2	588.89	1/2	231.36	1/2		1/2		1/2	
3/4	2,353.36	3/4	1,996.52	3/4	1,639.90	3/4	1,282.71	3/4	934.55	3/4	581.44	3/4	223.90	3/4		3/4		3/4	
10	2,345.91	10	1,989.10	10	1,632.46	10	1,275.27	10	927.40	10	574.00	10	216.45	10		10		10	
1/4	2,338.47	1/4	1,981.67	1/4	1,625.01	1/4	1,267.83	1/4	920.25	1/4	566.55	1/4	208.99	1/4		1/4		1/4	
1/2	2,331.03	1/2	1,974.25	1/2	1,617.57	1/2	1,260.39	1/2	913.10	1/2	559.10	1/2	201.53	1/2		1/2		1/2	
3/4	2,323.58	3/4	1,966.82	3/4	1,610.13	3/4	1,252.95	3/4	905.95	3/4	551.66	3/4	194.07	3/4		3/4		3/4	
11	2,316.14	11	1,959.40	11	1,602.69	11	1,245.51	11	898.80	11	544.21	11	186.62	11		11		11	
1/4	2,308.70	1/4	1,951.97	1/4	1,595.25	1/4	1,238.07	1/4	891.65	1/4	536.77	1/4	179.16	1/4		1/4		1/4	
1/2	2,301.25	1/2	1,944.55	1/2	1,587.81	1/2	1,230.63	1/2	884.50	1/2	529.32	1/2	171.70	1/2		1/2		1/2	
3/4	2,293.81	3/4	1,937.12	3/4	1,580.37	3/4	1,223.18	3/4	877.35	3/4	521.87	3/4	164.24	3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 12/21/2018 CL
CALCULATED: 01/08/2019 CL
PRINTED: 01/08/2019 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 01/2019

PRECISION MEASUREMENT
& ANALYSIS, INC.
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BARGE "E2MS 312"

3 STBD

ULLAGE TABLE

10" HATCH

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 17'-06 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		0		0		0	4,484.56	0	4,299.45	0	4,080.70	0	3,861.95	0	3,642.65	0	3,369.80	0	3,013.59
1/4		1/4		1/4		1/4	4,483.28	1/4	4,294.89	1/4	4,076.14	1/4	3,857.39	1/4	3,638.08	1/4	3,362.39	1/4	3,006.16
1/2		1/2		1/2		1/2	4,482.01	1/2	4,290.33	1/2	4,071.58	1/2	3,852.83	1/2	3,633.51	1/2	3,354.99	1/2	2,998.73
3/4		3/4		3/4		3/4	4,480.73	3/4	4,285.78	3/4	4,067.03	3/4	3,848.27	3/4	3,628.94	3/4	3,347.59	3/4	2,991.29
1		1		1		1	4,478.70	1	4,281.22	1	4,062.47	1	3,843.71	1	3,624.37	1	3,340.18	1	2,983.86
1/4		1/4		1/4		1/4	4,476.66	1/4	4,276.66	1/4	4,057.91	1/4	3,839.15	1/4	3,619.80	1/4	3,332.78	1/4	2,976.43
1/2		1/2		1/2		1/2	4,474.62	1/2	4,272.10	1/2	4,053.35	1/2	3,834.59	1/2	3,615.23	1/2	3,325.37	1/2	2,968.99
3/4		3/4		3/4		3/4	4,472.58	3/4	4,267.55	3/4	4,048.80	3/4	3,830.02	3/4	3,610.66	3/4	3,317.96	3/4	2,961.56
2		2		2		2	4,469.79	2	4,262.99	2	4,044.24	2	3,825.45	2	3,606.09	2	3,310.56	2	2,954.12
1/4		1/4		1/4		1/4	4,466.99	1/4	4,258.43	1/4	4,039.68	1/4	3,820.88	1/4	3,601.52	1/4	3,303.15	1/4	2,946.69
1/2		1/2		1/2		1/2	4,464.19	1/2	4,253.87	1/2	4,035.12	1/2	3,816.31	1/2	3,596.95	1/2	3,295.75	1/2	2,939.26
3/4		3/4		3/4		3/4	4,461.39	3/4	4,249.32	3/4	4,030.57	3/4	3,811.74	3/4	3,592.38	3/4	3,288.34	3/4	2,931.82
3		3		3		3	4,457.83	3	4,244.76	3	4,026.01	3	3,807.17	3	3,587.81	3	3,280.94	3	2,924.39
1/4		1/4		1/4		1/4	4,454.27	1/4	4,240.20	1/4	4,021.45	1/4	3,802.60	1/4	3,583.24	1/4	3,273.53	1/4	2,916.96
1/2		1/2		1/2		1/2	4,450.70	1/2	4,235.65	1/2	4,016.89	1/2	3,798.03	1/2	3,578.67	1/2	3,266.13	1/2	2,909.52
3/4		3/4		3/4		3/4	4,447.14	3/4	4,231.09	3/4	4,012.34	3/4	3,793.46	3/4	3,574.10	3/4	3,258.72	3/4	2,902.09
4		4		4		4	4,442.94	4	4,226.53	4	4,007.78	4	3,788.89	4	3,569.41	4	3,251.32	4	2,894.66
1/4		1/4		1/4		1/4	4,438.73	1/4	4,221.97	1/4	4,003.22	1/4	3,784.32	1/4	3,564.73	1/4	3,243.91	1/4	2,887.22
1/2		1/2		1/2		1/2	4,434.53	1/2	4,217.42	1/2	3,998.67	1/2	3,779.75	1/2	3,560.04	1/2	3,236.51	1/2	2,879.79
3/4		3/4		3/4		3/4	4,430.32	3/4	4,212.86	3/4	3,994.11	3/4	3,775.18	3/4	3,555.35	3/4	3,229.10	3/4	2,872.36
5		5		5		5	4,425.83	5	4,208.30	5	3,989.55	5	3,770.61	5	3,550.32	5	3,221.69	5	2,864.92
1/4		1/4		1/4		1/4	4,421.35	1/4	4,203.74	1/4	3,984.99	1/4	3,766.04	1/4	3,545.29	1/4	3,214.27	1/4	2,857.49
1/2		1/2		1/2		1/2	4,416.86	1/2	4,199.19	1/2	3,980.44	1/2	3,761.47	1/2	3,540.26	1/2	3,206.85	1/2	2,850.06
3/4		3/4		3/4		3/4	4,412.37	3/4	4,194.63	3/4	3,975.88	3/4	3,756.90	3/4	3,535.23	3/4	3,199.43	3/4	2,842.62
6		6		6		6	4,407.86	6	4,190.07	6	3,971.32	6	3,752.33	6	3,529.74	6	3,192.00	6	2,835.19
1/4		1/4		1/4		1/4	4,403.35	1/4	4,185.52	1/4	3,966.76	1/4	3,747.76	1/4	3,524.25	1/4	3,184.56	1/4	2,827.76
1/2		1/2		1/2		1/2	4,398.85	1/2	4,180.96	1/2	3,962.21	1/2	3,743.19	1/2	3,518.76	1/2	3,177.13	1/2	2,820.32
3/4		3/4		3/4		3/4	4,394.34	3/4	4,176.40	3/4	3,957.65	3/4	3,738.62	3/4	3,513.27	3/4	3,169.70	3/4	2,812.89
7		7		7		7	4,389.83	7	4,171.84	7	3,953.09	7	3,734.05	7	3,507.30	7	3,162.26	7	2,805.45
1/4		1/4		1/4		1/4	4,385.31	1/4	4,167.29	1/4	3,948.54	1/4	3,729.48	1/4	3,501.33	1/4	3,154.83	1/4	2,798.02
1/2		1/2		1/2		1/2	4,380.80	1/2	4,162.73	1/2	3,943.98	1/2	3,724.91	1/2	3,495.36	1/2	3,147.40	1/2	2,790.59
3/4		3/4		3/4		3/4	4,376.29	3/4	4,158.17	3/4	3,939.42	3/4	3,720.34	3/4	3,489.39	3/4	3,139.96	3/4	2,783.15
8		8		8		8	4,371.77	8	4,153.61	8	3,934.86	8	3,715.77	8	3,482.94	8	3,132.53	8	2,775.72
1/4		1/4		1/4		1/4	4,367.26	1/4	4,149.06	1/4	3,930.31	1/4	3,711.20	1/4	3,476.50	1/4	3,125.10	1/4	2,768.29
1/2		1/2		1/2		1/2	4,362.75	1/2	4,144.50	1/2	3,925.75	1/2	3,706.63	1/2	3,470.05	1/2	3,117.66	1/2	2,760.85
3/4		3/4		3/4		3/4	4,358.24	3/4	4,139.94	3/4	3,921.19	3/4	3,702.06	3/4	3,463.60	3/4	3,110.23	3/4	2,753.42
9		9		9		9	4,353.72	9	4,135.38	9	3,916.63	9	3,697.49	9	3,456.67	9	3,102.79	9	2,745.99
1/4		1/4		1/4		1/4	4,349.21	1/4	4,130.83	1/4	3,912.08	1/4	3,692.92	1/4	3,449.75	1/4	3,095.36	1/4	2,738.55
1/2		1/2		1/2		1/2	4,344.70	1/2	4,126.27	1/2	3,907.52	1/2	3,688.35	1/2	3,442.82	1/2	3,087.93	1/2	2,731.12
3/4		3/4		3/4		3/4	4,340.19	3/4	4,121.71	3/4	3,902.96	3/4	3,683.78	3/4	3,435.90	3/4	3,080.49	3/4	2,723.69
10		10		10		10	4,335.68	10	4,117.16	10	3,898.41	10	3,679.21	10	3,428.62	10	3,073.06	10	2,716.25
1/4		1/4		1/4		1/4	4,331.16	1/4	4,112.60	1/4	3,893.85	1/4	3,674.64	1/4	3,421.34	1/4	3,065.63	1/4	2,708.82
1/2		1/2		1/2		1/2	4,326.65	1/2	4,108.04	1/2	3,889.29	1/2	3,670.07	1/2	3,414.06	1/2	3,058.19	1/2	2,701.39
3/4		3/4		3/4		3/4	4,322.14	3/4	4,103.48	3/4	3,884.73	3/4	3,665.50	3/4	3,406.78	3/4	3,050.76	3/4	2,693.95
11		11		11		11	4,317.61	11	4,098.93	11	3,880.18	11	3,660.93	11	3,399.39	11	3,043.33	11	2,686.52
1/4		1/4		1/4		1/4	4,313.07	1/4	4,094.37	1/4	3,875.62	1/4	3,656.36	1/4	3,391.99	1/4	3,035.89	1/4	2,679.09
1/2		1/2		1/2		1/2	4,308.54	1/2	4,089.81	1/2	3,871.06	1/2	3,651.79	1/2	3,384.59	1/2	3,028.46	1/2	2,671.65
3/4		3/4		3/4	4,485.84	3/4	4,304.00	3/4	4,085.25	3/4	3,866.50	3/4	3,647.22	3/4	3,377.20	3/4	3,021.03	3/4	2,664.22

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7
CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL
CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK
CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP LIP 10" HATCH ON EXPANSION DOME
GAUGE POINT: (10" HATCH) LOCATED 3'-00" OFF CENTERLINE AND 82'-09" FORWARD OF AFT BULKHEAD

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

BARGE "E2MS 312"

3 STBD

ULLAGE TABLE
10" HATCH

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 17'-06 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	2,656.78	0	2,299.76	0	1,942.46	0	1,585.16	0	1,227.85	0	871.04	0	513.77	0	156.48	0		0	
1/4	2,649.35	1/4	2,292.32	1/4	1,935.01	1/4	1,577.71	1/4	1,220.41	1/4	863.60	1/4	506.32	1/4	149.04	1/4		1/4	
1/2	2,641.92	1/2	2,284.87	1/2	1,927.57	1/2	1,570.27	1/2	1,212.97	1/2	856.16	1/2	498.88	1/2	141.60	1/2		1/2	
3/4	2,634.48	3/4	2,277.43	3/4	1,920.13	3/4	1,562.82	3/4	1,205.52	3/4	848.73	3/4	491.44	3/4	134.15	3/4		3/4	
1	2,627.05	1	2,269.98	1	1,912.68	1	1,555.38	1	1,198.08	1	841.28	1	483.99	1	126.71	1		1	
1/4	2,619.61	1/4	2,262.54	1/4	1,905.24	1/4	1,547.94	1/4	1,190.63	1/4	833.84	1/4	476.55	1/4	119.28	1/4		1/4	
1/2	2,612.18	1/2	2,255.10	1/2	1,897.79	1/2	1,540.49	1/2	1,183.19	1/2	826.40	1/2	469.11	1/2	111.84	1/2		1/2	
3/4	2,604.74	3/4	2,247.65	3/4	1,890.35	3/4	1,533.05	3/4	1,175.75	3/4	818.95	3/4	461.66	3/4	104.40	3/4		3/4	
2	2,597.31	2	2,240.21	2	1,882.91	2	1,525.60	2	1,168.31	2	811.51	2	454.22	2	96.98	2		2	
1/4	2,589.87	1/4	2,232.77	1/4	1,875.46	1/4	1,518.16	1/4	1,160.86	1/4	804.06	1/4	446.78	1/4	89.56	1/4		1/4	
1/2	2,582.44	1/2	2,225.32	1/2	1,868.02	1/2	1,510.72	1/2	1,153.42	1/2	796.62	1/2	439.33	1/2	82.14	1/2		1/2	
3/4	2,575.01	3/4	2,217.88	3/4	1,860.58	3/4	1,503.27	3/4	1,145.98	3/4	789.18	3/4	431.89	3/4	74.72	3/4		3/4	
3	2,567.57	3	2,210.43	3	1,853.13	3	1,495.83	3	1,138.54	3	781.73	3	424.45	3	67.76	3		3	
1/4	2,560.14	1/4	2,202.99	1/4	1,845.69	1/4	1,488.39	1/4	1,131.11	1/4	774.29	1/4	417.00	1/4	60.80	1/4		1/4	
1/2	2,552.70	1/2	2,195.55	1/2	1,838.24	1/2	1,480.94	1/2	1,123.67	1/2	766.85	1/2	409.56	1/2	53.84	1/2		1/2	
3/4	2,545.27	3/4	2,188.10	3/4	1,830.80	3/4	1,473.50	3/4	1,116.23	3/4	759.40	3/4	402.12	3/4	46.88	3/4		3/4	
4	2,537.83	4	2,180.66	4	1,823.36	4	1,466.05	4	1,108.80	4	751.96	4	394.67	4	41.30	4		4	
1/4	2,530.40	1/4	2,173.22	1/4	1,815.91	1/4	1,458.61	1/4	1,101.36	1/4	744.52	1/4	387.23	1/4	35.72	1/4		1/4	
1/2	2,522.96	1/2	2,165.77	1/2	1,808.47	1/2	1,451.17	1/2	1,093.93	1/2	737.07	1/2	379.79	1/2	30.14	1/2		1/2	
3/4	2,515.53	3/4	2,158.33	3/4	1,801.03	3/4	1,443.72	3/4	1,086.50	3/4	729.63	3/4	372.34	3/4	24.56	3/4		3/4	
5	2,508.09	5	2,150.88	5	1,793.58	5	1,436.28	5	1,079.07	5	722.19	5	364.90	5	20.83	5		5	
1/4	2,500.66	1/4	2,143.44	1/4	1,786.14	1/4	1,428.84	1/4	1,071.64	1/4	714.74	1/4	357.45	1/4	17.11	1/4		1/4	
1/2	2,493.22	1/2	2,136.00	1/2	1,778.69	1/2	1,421.39	1/2	1,064.21	1/2	707.30	1/2	350.01	1/2	13.39	1/2		1/2	
3/4	2,485.79	3/4	2,128.55	3/4	1,771.25	3/4	1,413.95	3/4	1,056.78	3/4	699.86	3/4	342.57	3/4	9.67	3/4		3/4	
6	2,478.35	6	2,121.11	6	1,763.81	6	1,406.50	6	1,049.35	6	692.41	6	335.12	6	7.81	6		6	
1/4	2,470.92	1/4	2,113.66	1/4	1,756.36	1/4	1,399.06	1/4	1,041.92	1/4	684.97	1/4	327.68	1/4	5.95	1/4		1/4	
1/2	2,463.48	1/2	2,106.22	1/2	1,748.92	1/2	1,391.62	1/2	1,034.49	1/2	677.53	1/2	320.24	1/2	4.09	1/2		1/2	
3/4	2,456.05	3/4	2,098.78	3/4	1,741.47	3/4	1,384.17	3/4	1,027.06	3/4	670.08	3/4	312.79	3/4	2.23	3/4		3/4	
7	2,448.61	7	2,091.33	7	1,734.03	7	1,376.73	7	1,019.63	7	662.64	7	305.35	7		7		7	
1/4	2,441.18	1/4	2,083.89	1/4	1,726.59	1/4	1,369.28	1/4	1,012.20	1/4	655.19	1/4	297.91	1/4		1/4		1/4	
1/2	2,433.74	1/2	2,076.45	1/2	1,719.14	1/2	1,361.84	1/2	1,004.77	1/2	647.75	1/2	290.46	1/2		1/2		1/2	
3/4	2,426.30	3/4	2,069.00	3/4	1,711.70	3/4	1,354.40	3/4	997.34	3/4	640.31	3/4	283.02	3/4		3/4		3/4	
8	2,418.86	8	2,061.56	8	1,704.26	8	1,346.95	8	989.91	8	632.86	8	275.58	8		8		8	
1/4	2,411.42	1/4	2,054.11	1/4	1,696.81	1/4	1,339.51	1/4	982.48	1/4	625.42	1/4	268.13	1/4		1/4		1/4	
1/2	2,403.97	1/2	2,046.67	1/2	1,689.37	1/2	1,332.07	1/2	975.05	1/2	617.98	1/2	260.69	1/2		1/2		1/2	
3/4	2,396.53	3/4	2,039.23	3/4	1,681.92	3/4	1,324.62	3/4	967.63	3/4	610.53	3/4	253.25	3/4		3/4		3/4	
9	2,389.09	9	2,031.78	9	1,674.48	9	1,317.18	9	960.20	9	603.09	9	245.80	9		9		9	
1/4	2,381.64	1/4	2,024.34	1/4	1,667.04	1/4	1,309.73	1/4	952.77	1/4	595.65	1/4	238.36	1/4		1/4		1/4	
1/2	2,374.20	1/2	2,016.90	1/2	1,659.59	1/2	1,302.29	1/2	945.34	1/2	588.20	1/2	230.92	1/2		1/2		1/2	
3/4	2,366.75	3/4	2,009.45	3/4	1,652.15	3/4	1,294.85	3/4	937.91	3/4	580.76	3/4	223.47	3/4		3/4		3/4	
10	2,359.31	10	2,002.01	10	1,644.71	10	1,287.40	10	930.48	10	573.32	10	216.03	10		10		10	
1/4	2,351.87	1/4	1,994.56	1/4	1,637.26	1/4	1,279.96	1/4	923.05	1/4	565.87	1/4	208.58	1/4		1/4		1/4	
1/2	2,344.42	1/2	1,987.12	1/2	1,629.82	1/2	1,272.52	1/2	915.62	1/2	558.43	1/2	201.14	1/2		1/2		1/2	
3/4	2,336.98	3/4	1,979.68	3/4	1,622.37	3/4	1,265.07	3/4	908.19	3/4	550.99	3/4	193.70	3/4		3/4		3/4	
11	2,329.54	11	1,972.23	11	1,614.93	11	1,257.63	11	900.76	11	543.54	11	186.25	11		11		11	
1/4	2,322.09	1/4	1,964.79	1/4	1,607.49	1/4	1,250.18	1/4	893.33	1/4	536.10	1/4	178.81	1/4		1/4		1/4	
1/2	2,314.65	1/2	1,957.35	1/2	1,600.04	1/2	1,242.74	1/2	885.90	1/2	528.66	1/2	171.37	1/2		1/2		1/2	
3/4	2,307.20	3/4	1,949.90	3/4	1,592.60	3/4	1,235.30	3/4	878.47	3/4	521.21	3/4	163.92	3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 12/21/2018 CL
CALCULATED: 01/08/2019 CL
PRINTED: 01/08/2019 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 01/2019

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