BARGE "E2MS 312"

INNAGE (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 INNAGE GAUGE OF 4'-00" ON 1 PORT, THE TRIM CORRECTED INNAGE IS 3'-03 7/8'

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

INNAGE 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	2.23	0	262.88	0	608.09	0	964.54	0	1,321.44	0	1,679.39	0	2,037.33	0	2,395.28	0	2,753.18	0	3,111.03
1/4	4.09	1/4	269.64	1/4	615.55	1/4	971.93	1/4	1,328.90	1/4	1,686.84	1/4	2,044.79	1/4	2,402.73	1/4	2,760.64	1/4	3,118.48
1/2	5.96	1/2	276.39	1/2	623.01	1/2	979.33	1/2	1,336.35	1/2	1,694.30	1/2	2,052.25	1/2	2,410.19	1/2	2,768.09	1/2	3,125.94
3/4	7.82	3/4	283.15	3/4	630.46	3/4	986.73	3/4	1,343.81	3/4	1,701.76	3/4	2,059.70	3/4	2,417.65	3/4	2,775.55	3/4	3,133.39
1	9.69	1	289.91	1	637.92	1	994.13	1	1,351.27	1	1,709.21	1	2,067.16	1	2,425.11	1	2,783.00	1	3,140.85
1/4	12.61	1/4	296.75	1/4	645.38	1/4	1,001.53	1/4	1,358.73	1/4	1,716.67	1/4	2,074.62	1/4	2,432.56	1/4	2,790.46	1/4	3,148.30
1/2	15.52	1/2	303.60	1/2	652.83	1/2	1,008.93	1/2	1,366.18	1/2	1,724.13	1/2	2,082.07	1/2	2,440.02	1/2	2,797.91	1/2	3,155.76
3/4	18.44	3/4	310.44	3/4	660.29	3/4	1,016.32	3/4	1,373.64	3/4	1,731.59	3/4	2,089.53	3/4	2,447.48	3/4	2,805.37	3/4	3,163.21
2	21.36	2	317.29	2	667.75	2	1,023.72	2	1,381.10	2	1,739.04	2	2,096.99	2	2,454.93	2	2,812.82	2	3,170.67
1/4	25.38	1/4	324.22	1/4	675.20	1/4	1,031.12	1/4	1,388.56	1/4	1,746.50	1/4	2,104.45	1/4	2,462.39	1/4	2,820.28	1/4	3,178.12
1/2	29.40	1/2	331.15	1/2	682.66	1/2	1,038.53	1/2	1,396.01	1/2	1,753.96	1/2	2,111.90	1/2	2,469.85	1/2	2,827.73	1/2	3,185.58
3/4	33.41	3/4	338.08	3/4	690.12	3/4	1,045.93	3/4	1,403.47	3/4	1,761.42	3/4	2,119.36	3/4	2,477.31	3/4	2,835.19	3/4	3,193.03
3	37.43	3	345.02	3	697.58	3	1,053.33	3	1,410.93	3	1,768.87	3	2,126.82	3	2,484.76	3	2,842.64	3	3,200.49
1/4	42.92	1/4	352.04	1/4	705.03	1/4	1,060.75	1/4	1,418.38	1/4	1,776.33	1/4	2,134.28	1/4	2,492.22	1/4	2,850.10	1/4	3,207.94
1/2	48.40	1/2	359.06	1/2	712.49	1/2	1,068.17	1/2	1,425.84	1/2	1,783.79	1/2	2,141.73	1/2	2,499.68	1/2	2,857.55	1/2	3,215.40
3/4	53.89	3/4	366.08	3/4	719.95	3/4	1,075.58	3/4	1,433.30	3/4	1,791.24	3/4	2,149.19	3/4	2,507.14	3/4	2,865.01	3/4	3,222.85
4	59.37	4	373.10	4	727.40	4	1,083.00	4	1,440.76	4	1,798.70	4	2,156.65	4	2,514.59	4	2,872.46	4	3,230.31
1/4	65.40	1/4	380.20	1/4	734.86	1/4	1,090.42	1/4	1,448.21	1/4	1,806.16	1/4	2,164.10	1/4	2,522.05	1/4	2,879.92	1/4	3,237.76
1/2	71.44	1/2	387.31	1/2	742.32	1/2	1,097.85	1/2	1,455.67	1/2	1,813.62	1/2	2,171.56	1/2	2,529.51	1/2	2,887.37	1/2	3,245.22
3/4	77.47	3/4	394.42	3/4	749.77	3/4	1,105.28	3/4	1,463.13	3/4	1,821.07	3/4	2,179.02	3/4	2,536.96	3/4	2,894.83	3/4	3,252.67
5	83.51	5	401.52	5	757.23	5	1,112.70	5	1,470.58	5	1,828.53	5	2,186.48	5	2,544.42	5	2,902.28	5	3,260.13
1/4	89.64	1/4	408.72	1/4	764.66	1/4	1,120.14	1/4	1,478.04	1/4	1,835.99	1/4	2,193.93	1/4	2,551.88	1/4	2,909.74	1/4	3,267.58
1/2	95.78	1/2	415.91	1/2	772.10	1/2	1,127.58	1/2	1,485.50	1/2	1,843.44	1/2	2,201.39	1/2	2,559.34	1/2	2,917.19	1/2	3,275.04
3/4	101.92	3/4	423.11	3/4	779.53	3/4	1,135.03	3/4	1,492.96	3/4	1,850.90	3/4	2,208.85	3/4	2,566.79	3/4	2,924.65	3/4	3,282.49
6	108.06	6	430.30	6	786.96	6	1,142.47	6	1,500.41	6	1,858.36	6	2,216.30	6	2,574.25	6	2,932.10	6	3,289.95
1/4	114.29	1/4	437.58	1/4	794.36	1/4	1,149.92	1/4	1,507.87	1/4	1,865.82	1/4	2,223.76	1/4	2,581.71	1/4	2,939.56	1/4	3,297.40
1/2	120.52	1/2	444.87	1/2	801.76	1/2	1,157.38	1/2	1,515.33	1/2	1,873.27	1/2	2,231.22	1/2	2,589.16	1/2	2,947.01	1/2	3,304.86
3/4	126.76	3/4	452.15	3/4	809.17	3/4	1,164.84	3/4	1,522.78	3/4	1,880.73	3/4	2,238.68	3/4	2,596.62	3/4	2,954.47	3/4	3,312.31
7	132.99	7	459.43	7	816.57	7	1,172.30	7	1,530.24	7	1,888.19	7	2,246.13	7	2,604.08	7	2,961.92	7	3,319.77
1/4	139.31	1/4	466.80	1/4	823.97	1/4	1,179.75	1/4	1,537.70	1/4	1,895.64	1/4	2,253.59	1/4	2,611.53	1/4	2,969.38	1/4	3,327.22
1/2	145.63	1/2	474.17	1/2	831.37	1/2	1,187.21	1/2	1,545.16	1/2	1,903.10	1/2	2,261.05	1/2	2,618.99	1/2	2,976.83	1/2	3,334.68
3/4	151.95	3/4	481.54	3/4	838.76	3/4	1,194.67	3/4	1,552.61	3/4	1,910.56	3/4	2,268.50	3/4	2,626.44	3/4	2,984.29	3/4	3,342.13
8	158.27	8	488.91	8	846.16	8	1,202.13	8	1,560.07	8	1,918.02	8	2,275.96	8	2,633.90	8	2,991.74	8	3,349.59
1/4	164.67	1/4	496.34	1/4	853.56	1/4	1,209.58	1/4	1,567.53	1/4	1,925.47	1/4	2,283.42	1/4	2,641.35	1/4	2,999.20	1/4	3,357.04
1/2	171.08	1/2	503.78	1/2	860.96	1/2	1,217.04	1/2	1,574.99	1/2	1,932.93	1/2	2,290.88	1/2	2,648.81	1/2	3,006.65	1/2	3,364.50
3/4	177.49	3/4	511.21	3/4	868.36	3/4	1,224.50	3/4	1,582.44	3/4	1,940.39	3/4	2,298.33	3/4	2,656.26	3/4	3,014.11	3/4	3,371.95
9	183.89	9	518.65	9	875.76	9	1,231.95	9	1,589.90	9	1,947.85	9	2,305.79	9	2,663.72	9	3,021.56	9	3,379.41
1/4	190.39	1/4	526.10	1/4	883.15	1/4	1,239.41	1/4	1,597.36	1/4	1,955.30	1/4	2,313.25	1/4	2,671.18	1/4	3,029.02	1/4	3,386.86
1/2	196.88	1/2	533.56	1/2	890.55	1/2	1,246.87	1/2	1,604.81	1/2	1,962.76	1/2	2,320.71	1/2	2,678.63	1/2	3,036.47	1/2	3,394.32
3/4	203.38	3/4	541.01	3/4	897.95	3/4	1,254.33	3/4	1,612.27	3/4	1,970.22	3/4	2,328.16	3/4	2,686.09	3/4	3,043.93	3/4	3,401.77
10	209.87	10	548.47	10	905.35	10	1,261.78	10	1,619.73	10	1,977.67	10	2,335.62	10	2,693.54	10	3,051.39	10	3,409.23
1/4	216.46	1/4	555.92	1/4	912.75	1/4	1,269.24	1/4	1,627.19	1/4	1,985.13	1/4	2,343.08	1/4	2,701.00	1/4	3,058.84	1/4	3,416.69
1/2	223.04	1/2	563.37	1/2	920.15	1/2	1,276.70	1/2	1,634.64	1/2	1,992.59	1/2	2,350.53	1/2	2,708.45	1/2	3,066.30	1/2	3,424.14
3/4	229.62	3/4	570.82	3/4	927.54	3/4	1,284.15	3/4	1,642.10	3/4	2,000.05	3/4	2,357.99	3/4	2,715.91	3/4	3,073.75	3/4	3,431.60
11	236.20	11	578.27	11	934.94	11	1,291.61	11	1,649.56	11	2,007.50	11	2,365.45	11	2,723.36	11	3,081.21	11	3,439.05
1/4	242.87	1/4	585.73	1/4	942.34	1/4	1,299.07	1/4	1,657.01	1/4	2,014.96	1/4	2,372.91	1/4	2,730.82	1/4	3,088.66	1/4	3,446.51
1/2	249.54	1/2	593.18	1/2	949.74	1/2	1,306.53	1/2	1,664.47	1/2	2,022.42	1/2	2,380.36	1/2	2,738.27	1/2	3,096.12	1/2	3,453.96
3/4	256.21	3/4	600.64	3/4	957.14	3/4	1,313.98	3/4	1,671.93	3/4	2,029.87	3/4	2,387.82	3/4	2,745.73	3/4	3,103.57	3/4	3,461.42

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 INNAGE 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 PORT

INNAGE 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	3,468.87	0	3,826.72	0	4,184.00	0	4,540.81	0	4,896.29	0		0		0		0		0	
1/4	3,476.33	1/4	3,834.17	1/4	4,191.44	1/4	4,548.24	1/4	4,903.64	1/4		1/4		1/4		1/4		1/4	
1/2	3,483.78	1/2	3,841.63	1/2	4,198.87	1/2	4,555.67	1/2	4,910.99	1/2		1/2		1/2		1/2		1/2	
3/4	3,491.24	3/4	3,849.08	3/4	4,206.30	3/4	4,563.11	3/4	4,918.34	3/4		3/4		3/4		3/4		3/4	
1	3,498.69	1	3,856.54	1	4,213.74	1	4,570.54	1	4,925.70	1		1		1		1		1	
1/4	3,506.15	1/4	3,863.99	1/4	4,221.17	1/4	4,577.97	1/4	4,933.02	1/4		1/4		1/4		1/4		1/4	
1/2	3,513.60	1/2	3,871.45	1/2	4,228.60	1/2	4,585.41	1/2	4,940.34	1/2		1/2		1/2		1/2		1/2	
3/4	3,521.06	3/4	3,878.90	3/4	4,236.04	3/4	4,592.84	3/4	4,947.66	3/4		3/4		3/4		3/4		3/4	
2	3,528.51	2	3,886.36	2	4,243.47	2	4,600.27	2	4,954.97	2		2		2		2		2	
1/4	3,535.97	1/4	3,893.81	1/4	4,250.90	1/4	4,607.71	1/4	4,961.83	1/4		1/4		1/4		1/4		1/4	
1/2	3,543.42	1/2	3,901.27	1/2	4,258.34	1/2	4,615.14	1/2	4,968.70	1/2		1/2		1/2		1/2		1/2	
3/4	3,550.88	3/4	3,908.72	3/4	4,265.77	3/4	4,622.57	3/4	4,975.56	3/4		3/4		3/4		3/4		3/4	
3	3,558.33	3	3,916.18	3	4,273.20	3	4,630.01	3	4,982.42	3		3		3		3		3	
1/4	3,565.79	1/4	3,923.63	1/4	4,280.64	1/4	4,637.44	1/4	4,988.22	1/4		1/4		1/4		1/4		1/4	
1/2	3,573.24	1/2	3,931.09	1/2	4,288.07	1/2	4,644.87	1/2	4,994.03	1/2		1/2		1/2		1/2		1/2	
3/4	3,580.70	3/4	3,938.54	3/4	4,295.50	3/4	4,652.31	3/4	4,999.84	3/4		3/4		3/4		3/4		3/4	
4	3,588.15	4	3,946.00	4	4,302.94	4	4,659.74	4	5,005.65	4		4		4		4		4	
1/4	3,595.61	1/4	3,953.45	1/4	4,310.37	1/4	4,667.17	1/4	5,010.21	1/4		1/4		1/4		1/4		1/4	
1/2	3,603.06	1/2	3,960.91	1/2	4,317.80	1/2	4,674.61	1/2	5,014.78	1/2		1/2		1/2		1/2		1/2	
3/4	3,610.52	3/4	3,968.36	3/4	4,325.24	3/4	4,682.04	3/4	5,019.34	3/4		3/4		3/4		3/4		3/4	
5	3,617.97	5	3,975.82	5	4,332.67	5	4,689.47	5	5,023.91	5		5		5		5		5	
1/4	3,625.43	1/4	3,983.26	1/4	4,340.10	1/4	4,696.91	1/4	5,027.23	1/4		1/4		1/4		1/4		1/4	
1/2	3,632.88	1/2	3,990.71	1/2	4,347.54	1/2	4,704.34	1/2	5,030.55	1/2		1/2		1/2		1/2		1/2	
3/4	3,640.34	3/4	3,998.15	3/4	4,354.97	3/4	4,711.77	3/4	5,033.88	3/4		3/4		3/4		3/4		3/4	
6	3,647.79	6	4,005.60	6	4,362.40	6	4,719.21	6	5,037.20	6		6		6		6		6	
1/4	3,655.25	1/4	4,013.03	1/4	4,369.84	1/4	4,726.64	1/4	5,039.28	1/4		1/4		1/4		1/4		1/4	
1/2	3,662.70	1/2	4,020.47	1/2	4,377.27	1/2	4,734.07	1/2	5,041.36	1/2		1/2		1/2		1/2		1/2	
3/4	3,670.16	3/4	4,027.90	3/4	4,384.70	3/4	4,741.51	3/4	5,043.44	3/4		3/4		3/4		3/4		3/4	
7	3,677.61	7	4,035.33	7	4,392.14	7	4,748.94	7	5,045.52	7		7		7		7		7	
1/4	3,685.07	1/4	4,042.77	1/4	4,399.57	1/4	4,756.34	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,692.52	1/2	4,050.20	1/2	4,407.00	1/2	4,763.73	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,699.98	3/4	4,057.63	3/4	4,414.44	3/4	4,771.13	3/4		3/4		3/4		3/4		3/4		3/4	
8	3,707.43	8	4,065.07	8	4,421.87	8	4,778.53	8		8		8		8		8		8	
1/4	3,714.89	1/4	4,072.50	1/4	4,429.30	1/4	4,785.89	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,722.34	1/2	4,079.93	1/2	4,436.74	1/2	4,793.25	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,729.80	3/4	4,087.37	3/4	4,444.17	3/4	4,800.61	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,737.25	9	4,094.80	9	4,451.60	9	4,807.97	9		9		9		9		9		9	
1/4	3,744.71	1/4	4,102.23	1/4	4,459.04	1/4	4,815.33	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,752.16	1/2	4,109.67	1/2	4,466.47	1/2	4,822.68	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,759.62	3/4	4,117.10	3/4	4,473.90	3/4	4,830.04	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,767.07	10	4,124.53	10	4,481.34	10	4,837.40	10		10		10		10		10		10	
1/4	3,774.53	1/4	4,131.97	1/4	4,488.77	1/4	4,844.77	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,781.98	1/2	4,139.40	1/2	4,496.20	1/2	4,852.13	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,789.44	3/4	4,146.83	3/4	4,503.64	3/4	4,859.49	3/4		3/4		3/4		3/4		3/4		3/4	
11	3,796.90	11	4,154.27	11	4,511.07	11	4,866.85	11		11		11		11		11		11	
1/4	3,804.35	1/4	4,161.70	1/4	4,518.50	1/4	4,874.21	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,811.81	1/2	4,169.14	1/2	4,525.94	1/2	4,881.57	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,819.26	3/4	4,176.57	3/4	4,533.37	3/4	4,888.93	3/4		3/4		3/4		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"

1 STBD

INNAGE 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	2.23	0	262.73	0	607.81	0	965.27	0	1,322.85	0	1,680.63	0	2,038.40	0	2,396.17	0	2,753.88	0	3,111.56
1/4	4.09	1/4	269.48	1/4	615.26	1/4	972.71	1/4	1,330.31	1/4	1,688.08	1/4	2,045.85	1/4	2,403.63	1/4	2,761.34	1/4	3,119.01
1/2	5.96	1/2	276.24	1/2	622.72	1/2	980.15	1/2	1,337.76	1/2	1,695.53	1/2	2,053.31	1/2	2,411.08	1/2	2,768.79	1/2	3,126.46
3/4	7.82	3/4	282.99	3/4	630.17	3/4	987.59	3/4	1,345.21	3/4	1,702.99	3/4	2,060.76	3/4	2,418.53	3/4	2,776.24	3/4	3,133.91
1	9.68	1	289.74	1	637.63	1	995.03	1	1,352.67	1	1,710.44	1	2,068.21	1	2,425.99	1	2,783.69	1	3,141.36
1/4	12.60	1/4	296.58	1/4	645.08	1/4	1,002.47	1/4	1,360.12	1/4	1,717.89	1/4	2,075.67	1/4	2,433.44	1/4	2,791.14	1/4	3,148.81
1/2	15.52	1/2	303.43	1/2	652.53	1/2	1,009.91	1/2	1,367.58	1/2	1,725.35	1/2	2,083.12	1/2	2,440.89	1/2	2,798.59	1/2	3,156.26
3/4	18.43	3/4	310.27	3/4	659.99	3/4	1,017.35	3/4	1,375.03	3/4	1,732.80	3/4	2,090.57	3/4	2,448.35	3/4	2,806.04	3/4	3,163.72
2	21.35	2	317.11	2	667.44	2	1,024.79	2	1,382.48	2	1,740.26	2	2,098.03	2	2,455.80	2	2,813.50	2	3,171.17
1/4	25.37	1/4	324.04	1/4	674.89	1/4	1,032.23	1/4	1,389.94	1/4	1,747.71	1/4	2,105.48	1/4	2,463.25	1/4	2,820.95	1/4	3,178.62
1/2	29.38	1/2	330.96	1/2	682.35	1/2	1,039.67	1/2	1,397.39	1/2	1,755.16	1/2	2,112.94	1/2	2,470.71	1/2	2,828.40	1/2	3,186.07
3/4	33.39	3/4	337.89	3/4	689.80	3/4	1,047.12	3/4	1,404.84	3/4	1,762.62	3/4	2,120.39	3/4	2,478.16	3/4	2,835.85	3/4	3,193.52
3	37.41	3	344.82	3	697.25	3	1,054.56	3	1,412.30	3	1,770.07	3	2,127.84	3	2,485.62	3	2,843.30	3	3,200.97
1/4	42.89	1/4	351.84	1/4	704.71	1/4	1,062.01	1/4	1,419.75	1/4	1,777.52	1/4	2,135.30	1/4	2,493.07	1/4	2,850.75	1/4	3,208.43
1/2	48.37	1/2	358.85	1/2	712.16	1/2	1,069.45	1/2	1,427.20	1/2	1,784.98	1/2	2,142.75	1/2	2,500.52	1/2	2,858.20	1/2	3,215.88
3/4	53.85	3/4	365.87	3/4	719.61	3/4	1,076.90	3/4	1,434.66	3/4	1,792.43	3/4	2,150.20	3/4	2,507.98	3/4	2,865.66	3/4	3,223.33
4	59.34	4	372.89	4	727.07	4	1,084.35	4	1,442.11	4	1,799.88	4	2,157.66	4	2,515.43	4	2,873.11	4	3,230.78
1/4	65.37	1/4	379.99	1/4	734.52	1/4	1,091.80	1/4	1,449.57	1/4	1,807.34	1/4	2,165.11	1/4	2,522.88	1/4	2,880.56	1/4	3,238.23
1/2	71.40	1/2	387.09	1/2	741.97	1/2	1,099.25	1/2	1,457.02	1/2	1,814.79	1/2	2,172.56	1/2	2,530.34	1/2	2,888.01	1/2	3,245.68
3/4	77.43	3/4	394.20	3/4	749.43	3/4	1,106.70	3/4	1,464.47	3/4	1,822.25	3/4	2,180.02	3/4	2,537.79	3/4	2,895.46	3/4	3,253.13
5	83.46	5	401.30	5	756.88	5	1,114.15	5	1,471.93	5	1,829.70	5	2,187.47	5	2,545.24	5	2,902.91	5	3,260.59
1/4	89.59	1/4	408.49	1/4	764.33	1/4	1,121.61	1/4	1,479.38	1/4	1,837.15	1/4	2,194.93	1/4	2,552.70	1/4	2,910.37	1/4	3,268.04
1/2	95.73	1/2	415.68	1/2	771.79	1/2	1,129.06	1/2	1,486.83	1/2	1,844.61	1/2	2,202.38	1/2	2,560.15	1/2	2,917.82	1/2	3,275.49
3/4	101.86	3/4	422.87	3/4	779.24	3/4	1,136.51	3/4	1,494.29	3/4	1,852.06	3/4	2,209.83	3/4	2,567.60	3/4	2,925.27	3/4	3,282.94
6	108.00	6	430.06	6	786.70	6	1,143.97	6	1,501.74	6	1,859.51	6	2,217.29	6	2,575.06	6	2,932.72	6	3,290.39
1/4	114.22	1/4	437.34	1/4	794.14	1/4	1,151.42	1/4	1,509.19	1/4	1,866.97	1/4	2,224.74	1/4	2,582.51	1/4	2,940.17	1/4	3,297.84
1/2	120.45	1/2	444.62	1/2	801.59	1/2	1,158.87	1/2	1,516.65	1/2	1,874.42	1/2	2,232.19	1/2	2,589.96	1/2	2,947.62	1/2	3,305.29
3/4	126.68	3/4	451.90	3/4	809.04	3/4	1,166.33	3/4	1,524.10	3/4	1,881.87	3/4	2,239.65	3/4	2,597.40	3/4	2,955.07	3/4	3,312.75
7	132.91	7	459.18	7	816.48	7	1,173.78	7	1,531.55	7	1,889.33	7	2,247.10	7	2,604.85	7	2,962.53	7	3,320.20
1/4	139.22	1/4	466.54	1/4	823.92	1/4	1,181.24	1/4	1,539.01	1/4	1,896.78	1/4	2,254.55	1/4	2,612.31	1/4	2,969.98	1/4	3,327.65
1/2	145.54	1/2	473.91	1/2	831.36	1/2	1,188.69	1/2	1,546.46	1/2	1,904.23	1/2	2,262.01	1/2	2,619.76	1/2	2,977.43	1/2	3,335.10
3/4	151.86	3/4	481.28	3/4	838.80	3/4	1,196.14	3/4	1,553.92	3/4	1,911.69	3/4	2,269.46	3/4	2,627.21	3/4	2,984.88	3/4	3,342.55
8	158.17	8	488.64	8	846.24	8	1,203.60	8	1,561.37	8	1,919.14	8	2,276.91	8	2,634.66	8	2,992.33	8	3,350.00
1/4	164.58	1/4	496.07	1/4	853.68	1/4	1,211.05	1/4	1,568.82	1/4	1,926.60	1/4	2,284.37	1/4	2,642.11	1/4	2,999.78	1/4	3,357.46
1/2	170.98	1/2	503.51	1/2	861.12	1/2	1,218.50	1/2	1,576.28	1/2	1,934.05	1/2	2,291.82	1/2	2,649.56	1/2	3,007.23	1/2	3,364.91
3/4	177.38	3/4	510.94	3/4	868.56	3/4	1,225.96	3/4	1,583.73	3/4	1,941.50	3/4	2,299.28	3/4	2,657.01	3/4	3,014.69	3/4	3,372.36
9	183.79	9	518.37	9	876.00	9	1,233.41	9	1,591.18	9	1,948.96	9	2,306.73	9	2,664.47	9	3,022.14	9	3,379.81
1/4	190.28	1/4	525.82	1/4	883.44	1/4	1,240.86	1/4	1,598.64	1/4	1,956.41	1/4	2,314.18	1/4	2,671.92	1/4	3,029.59	1/4	3,387.26
1/2	196.77	1/2	533.28	1/2	890.88	1/2	1,248.32	1/2	1,606.09	1/2	1,963.86	1/2	2,321.64	1/2	2,679.37	1/2	3,037.04	1/2	3,394.71
3/4	203.26	3/4	540.73	3/4	898.32	3/4	1,255.77	3/4	1,613.54	3/4	1,971.32	3/4	2,329.09	3/4	2,686.82	3/4	3,044.49	3/4	3,402.16
10	209.75	10	548.18	10	905.75	10	1,263.23	10	1,621.00	10	1,978.77	10	2,336.54	10	2,694.27	10	3,051.94	10	3,409.62
1/4	216.33	1/4	555.64	1/4	913.19	1/4	1,270.68	1/4	1,628.45	1/4	1,986.22	1/4	2,344.00	1/4	2,701.72	1/4	3,059.40	1/4	3,417.07
1/2	222.91	1/2	563.09	1/2	920.63	1/2	1,278.13	1/2	1,635.91	1/2	1,993.68	1/2	2,351.45	1/2	2,709.17	1/2	3,066.85	1/2	3,424.52
3/4	229.49	3/4	570.54	3/4	928.07	3/4	1,285.59	3/4	1,643.36	3/4	2,001.13	3/4	2,358.90	3/4	2,716.63	3/4	3,074.30	3/4	3,431.97
11	236.07	11	578.00	11	935.51	11	1,293.04	11	1,650.81	11	2,008.59	11	2,366.36	11	2,724.08	11	3,081.75	11	3,439.42
1/4	242.73	1/4	585.45	1/4	942.95	1/4	1,300.49	1/4	1,658.27	1/4	2,016.04	1/4	2,373.81	1/4	2,731.53	1/4	3,089.20	1/4	3,446.87
1/2	249.40	1/2	592.90	1/2	950.39	1/2	1,307.95	1/2	1,665.72	1/2	2,023.49	1/2	2,381.27	1/2	2,738.98	1/2	3,096.65	1/2	3,454.32
3/4	256.06	3/4	600.36	3/4	957.83	3/4	1,315.40	3/4	1,673.17	3/4	2,030.95	3/4	2,388.72	3/4	2,746.43	3/4	3,104.10	3/4	3,461.78

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 INNAGE 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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Pearland, Texas 77588
http://www.pmacorp.net

BARGE "E2MS 312"

1 STBD

INNAGE 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	3,469.23	0	3,826.90	0	4,183.99	0	4,540.62	0	4,895.92	0		0		0		0		0	
1/4	3,476.68	1/4	3,834.35	1/4	4,191.42	1/4	4,548.05	1/4	4,903.27	1/4		1/4		1/4		1/4		1/4	
1/2	3,484.13	1/2	3,841.80	1/2	4,198.85	1/2	4,555.48	1/2	4,910.62	1/2		1/2		1/2		1/2		1/2	
3/4	3,491.58	3/4	3,849.25	3/4	4,206.28	3/4	4,562.91	3/4	4,917.97	3/4		3/4		3/4		3/4		3/4	
1	3,499.03	1	3,856.71	1	4,213.71	1	4,570.34	1	4,925.32	1		1		1		1		1	
1/4	3,506.49	1/4	3,864.16	1/4	4,221.14	1/4	4,577.77	1/4	4,932.63	1/4		1/4		1/4		1/4		1/4	
1/2	3,513.94	1/2	3,871.61	1/2	4,228.57	1/2	4,585.20	1/2	4,939.95	1/2		1/2		1/2		1/2		1/2	
3/4	3,521.39	3/4	3,879.06	3/4	4,236.00	3/4	4,592.63	3/4	4,947.26	3/4		3/4		3/4		3/4		3/4	
2	3,528.84	2	3,886.51	2	4,243.43	2	4,600.06	2	4,954.58	2		2		2		2		2	
1/4	3,536.29	1/4	3,893.96	1/4	4,250.86	1/4	4,607.48	1/4	4,961.44	1/4		1/4		1/4		1/4		1/4	
1/2	3,543.74	1/2	3,901.41	1/2	4,258.29	1/2	4,614.91	1/2	4,968.29	1/2		1/2		1/2		1/2		1/2	
3/4	3,551.19	3/4	3,908.87	3/4	4,265.72	3/4	4,622.34	3/4	4,975.15	3/4		3/4		3/4		3/4		3/4	
3	3,558.65	3	3,916.32	3	4,273.15	3	4,629.77	3	4,982.01	3		3		3		3		3	
1/4	3,566.10	1/4	3,923.77	1/4	4,280.58	1/4	4,637.20	1/4	4,987.81	1/4		1/4		1/4		1/4		1/4	
1/2	3,573.55	1/2	3,931.22	1/2	4,288.01	1/2	4,644.63	1/2	4,993.62	1/2		1/2		1/2		1/2		1/2	
3/4	3,581.00	3/4	3,938.67	3/4	4,295.44	3/4	4,652.06	3/4	4,999.42	3/4		3/4		3/4		3/4		3/4	
4	3,588.45	4	3,946.12	4	4,302.87	4	4,659.49	4	5,005.23	4		4		4		4		4	
1/4	3,595.90	1/4	3,953.58	1/4	4,310.30	1/4	4,666.92	1/4	5,009.79	1/4		1/4		1/4		1/4		1/4	
1/2	3,603.35	1/2	3,961.03	1/2	4,317.73	1/2	4,674.35	1/2	5,014.35	1/2		1/2		1/2		1/2		1/2	
3/4	3,610.81	3/4	3,968.48	3/4	4,325.16	3/4	4,681.78	3/4	5,018.92	3/4		3/4		3/4		3/4		3/4	
5	3,618.26	5	3,975.93	5	4,332.59	5	4,689.21	5	5,023.48	5		5		5		5		5	
1/4	3,625.71	1/4	3,983.37	1/4	4,340.02	1/4	4,696.64	1/4	5,026.80	1/4		1/4		1/4		1/4		1/4	
1/2	3,633.16	1/2	3,990.80	1/2	4,347.45	1/2	4,704.07	1/2	5,030.12	1/2		1/2		1/2		1/2		1/2	
3/4	3,640.61	3/4	3,998.24	3/4	4,354.87	3/4	4,711.50	3/4	5,033.44	3/4		3/4		3/4		3/4		3/4	
6	3,648.06	6	4,005.68	6	4,362.30	6	4,718.93	6	5,036.76	6		6		6		6		6	
1/4	3,655.52	1/4	4,013.11	1/4	4,369.73	1/4	4,726.36	1/4	5,038.84	1/4		1/4		1/4		1/4		1/4	
1/2	3,662.97	1/2	4,020.54	1/2	4,377.16	1/2	4,733.79	1/2	5,040.92	1/2		1/2		1/2		1/2		1/2	
3/4	3,670.42	3/4	4,027.97	3/4	4,384.59	3/4	4,741.22	3/4	5,043.00	3/4		3/4		3/4		3/4		3/4	
7	3,677.87	7	4,035.40	7	4,392.02	7	4,748.65	7	5,045.07	7		7		7		7		7	
1/4	3,685.32	1/4	4,042.83	1/4	4,399.45	1/4	4,756.04	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,692.77	1/2	4,050.26	1/2	4,406.88	1/2	4,763.43	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,700.22	3/4	4,057.69	3/4	4,414.31	3/4	4,770.83	3/4		3/4		3/4		3/4		3/4		3/4	
8	3,707.68	8	4,065.12	8	4,421.74	8	4,778.22	8		8		8		8		8		8	
1/4	3,715.13	1/4	4,072.55	1/4	4,429.17	1/4	4,785.58	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,722.58	1/2	4,079.98	1/2	4,436.60	1/2	4,792.93	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,730.03	3/4	4,087.41	3/4	4,444.03	3/4	4,800.29	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,737.48	9	4,094.84	9	4,451.46	9	4,807.64	9		9		9		9		9		9	
1/4	3,744.93	1/4	4,102.27	1/4	4,458.89	1/4	4,815.00	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,752.38	1/2	4,109.69	1/2	4,466.32	1/2	4,822.36	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,759.84	3/4	4,117.12	3/4	4,473.75	3/4	4,829.71	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,767.29	10	4,124.55	10	4,481.18	10	4,837.07	10		10		10		10		10		10	
1/4	3,774.74	1/4	4,131.98	1/4	4,488.61	1/4	4,844.43	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,782.19	1/2	4,139.41	1/2	4,496.04	1/2	4,851.78	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,789.64	3/4	4,146.84	3/4	4,503.47	3/4	4,859.14	3/4		3/4		3/4		3/4		3/4		3/4	
11	3,797.09	11	4,154.27	11	4,510.90	11	4,866.50	11		11		11		11		11		11	
1/4	3,804.55	1/4	4,161.70	1/4	4,518.33	1/4	4,873.85	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,812.00	1/2	4,169.13	1/2	4,525.76	1/2	4,881.21	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,819.45	3/4	4,176.56	3/4	4,533.19	3/4	4,888.56	3/4		3/4		3/4		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 PORT

INNAGE 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	2.23	0	314.13	0	672.94	0	1,023.87	0	1,376.10	0	1,734.92	0	2,093.73	0	2,452.55	0	2,811.36	0	3,170.18
1/4	4.10	1/4	321.60	1/4	680.42	1/4	1,031.04	1/4	1,383.58	1/4	1,742.39	1/4	2,101.21	1/4	2,460.02	1/4	2,818.84	1/4	3,177.65
1/2	5.97	1/2	329.08	1/2	687.89	1/2	1,038.21	1/2	1,391.05	1/2	1,749.87	1/2	2,108.68	1/2	2,467.50	1/2	2,826.31	1/2	3,185.13
3/4	7.84	3/4	336.55	3/4	695.37	3/4	1,045.38	3/4	1,398.53	3/4	1,757.34	3/4	2,116.16	3/4	2,474.97	3/4	2,833.79	3/4	3,192.60
1	9.71	1	344.03	1	702.84	1	1,052.55	1	1,406.00	1	1,764.82	1	2,123.63	1	2,482.45	1	2,841.26	1	3,200.08
1/4	13.45	1/4	351.50	1/4	710.32	1/4	1,059.71	1/4	1,413.48	1/4	1,772.29	1/4	2,131.11	1/4	2,489.92	1/4	2,848.74	1/4	3,207.55
1/2	17.18	1/2	358.98	1/2	717.79	1/2	1,066.88	1/2	1,420.95	1/2	1,779.77	1/2	2,138.58	1/2	2,497.40	1/2	2,856.21	1/2	3,215.03
3/4	20.92	3/4	366.45	3/4	725.27	3/4	1,074.05	3/4	1,428.43	3/4	1,787.24	3/4	2,146.06	3/4	2,504.87	3/4	2,863.69	3/4	3,222.50
2	24.66	2	373.93	2	732.74	2	1,081.22	2	1,435.91	2	1,794.72	2	2,153.53	2	2,512.35	2	2,871.16	2	3,229.98
1/4	30.26	1/4	381.40	1/4	740.22	1/4	1,088.39	1/4	1,443.38	1/4	1,802.20	1/4	2,161.01	1/4	2,519.82	1/4	2,878.64	1/4	3,237.45
1/2	35.87	1/2	388.88	1/2	747.69	1/2	1,095.57	1/2	1,450.86	1/2	1,809.67	1/2	2,168.48	1/2	2,527.30	1/2	2,886.11	1/2	3,244.93
3/4	41.48	3/4	396.36	3/4	755.17	3/4	1,102.74	3/4	1,458.33	3/4	1,817.15	3/4	2,175.96	3/4	2,534.77	3/4	2,893.59	3/4	3,252.40
3	47.08	3	403.83	3	762.64	3	1,109.91	3	1,465.81	3	1,824.62	3	2,183.44	3	2,542.25	3	2,901.06	3	3,259.88
1/4	54.07	1/4	411.31	1/4	770.12	1/4	1,117.09	1/4	1,473.28	1/4	1,832.10	1/4	2,190.91	1/4	2,549.73	1/4	2,908.54	1/4	3,267.35
1/2	61.06	1/2	418.78	1/2	777.60	1/2	1,124.27	1/2	1,480.76	1/2	1,839.57	1/2	2,198.39	1/2	2,557.20	1/2	2,916.01	1/2	3,274.83
3/4	68.05	3/4	426.26	3/4	785.07	3/4	1,131.44	3/4	1,488.23	3/4	1,847.05	3/4	2,205.86	3/4	2,564.68	3/4	2,923.49	3/4	3,282.30
4	75.04	4	433.73	4	792.55	4	1,138.62	4	1,495.71	4	1,854.52	4	2,213.34	4	2,572.15	4	2,930.97	4	3,289.78
1/4	82.49	1/4	441.21	1/4	800.02	1/4	1,145.80	1/4	1,503.18	1/4	1,862.00	1/4	2,220.81	1/4	2,579.63	1/4	2,938.44	1/4	3,297.26
1/2	89.94	1/2	448.68	1/2	807.50	1/2	1,152.99	1/2	1,510.66	1/2	1,869.47	1/2	2,228.29	1/2	2,587.10	1/2	2,945.92	1/2	3,304.73
3/4	97.39	3/4	456.16	3/4	814.97	3/4	1,160.17	3/4	1,518.13	3/4	1,876.95	3/4	2,235.76	3/4	2,594.58	3/4	2,953.39	3/4	3,312.21
5	104.85	5	463.63	5	822.45	5	1,167.36	5	1,525.61	5	1,884.42	5	2,243.24	5	2,602.05	5	2,960.87	5	3,319.68
1/4	112.31	1/4	471.11	1/4	829.78	1/4	1,174.69	1/4	1,533.08	1/4	1,891.90	1/4	2,250.71	1/4	2,609.53	1/4	2,968.34	1/4	3,327.16
1/2	119.78	1/2	478.58	1/2	837.11	1/2	1,182.03	1/2	1,540.56	1/2	1,899.37	1/2	2,258.19	1/2	2,617.00	1/2	2,975.82	1/2	3,334.63
3/4	127.25	3/4	486.06	3/4	844.45	3/4	1,189.36	3/4	1,548.03	3/4	1,906.85	3/4	2,265.66	3/4	2,624.48	3/4	2,983.29	3/4	3,342.11
6	134.72	6	493.53	6	851.78	6	1,196.70	6	1,555.51	6	1,914.32	6	2,273.14	6	2,631.95	6	2,990.77	6	3,349.58
1/4	142.20	1/4	501.01	1/4	858.96	1/4	1,204.17	1/4	1,562.99	1/4	1,921.80	1/4	2,280.61	1/4	2,639.43	1/4	2,998.24	1/4	3,357.06
1/2	149.67	1/2	508.48	1/2	866.14	1/2	1,211.65	1/2	1,570.46	1/2	1,929.28	1/2	2,288.09	1/2	2,646.90	1/2	3,005.72	1/2	3,364.53
3/4	157.15	3/4	515.96	3/4	873.32	3/4	1,219.12	3/4	1,577.94	3/4	1,936.75	3/4	2,295.56	3/4	2,654.38	3/4	3,013.19	3/4	3,372.01
7	164.62	7	523.44	7	880.50	7	1,226.60	7	1,585.41	7	1,944.23	7	2,303.04	7	2,661.85	7	3,020.67	7	3,379.48
1/4	172.10	1/4	530.91	1/4	887.67	1/4	1,234.07	1/4	1,592.89	1/4	1,951.70	1/4	2,310.52	1/4	2,669.33	1/4	3,028.14	1/4	3,386.96
1/2	179.57	1/2	538.39	1/2	894.84	1/2	1,241.55	1/2	1,600.36	1/2	1,959.18	1/2	2,317.99	1/2	2,676.81	1/2	3,035.62	1/2	3,394.43
3/4	187.05	3/4	545.86	3/4	902.01	3/4	1,249.02	3/4	1,607.84	3/4	1,966.65	3/4	2,325.47	3/4	2,684.28	3/4	3,043.09	3/4	3,401.91
8	194.52	8	553.34	8	909.18	8	1,256.50	8	1,615.31	8	1,974.13	8	2,332.94	8	2,691.76	8	3,050.57	8	3,409.38
1/4	202.00	1/4	560.81	1/4	916.34	1/4	1,263.97	1/4	1,622.79	1/4	1,981.60	1/4	2,340.42	1/4	2,699.23	1/4	3,058.05	1/4	3,416.86
1/2	209.47	1/2	568.29	1/2	923.51	1/2	1,271.45	1/2	1,630.26	1/2	1,989.08	1/2	2,347.89	1/2	2,706.71	1/2	3,065.52	1/2	3,424.34
3/4	216.95	3/4	575.76	3/4	930.68	3/4	1,278.92	3/4	1,637.74	3/4	1,996.55	3/4	2,355.37	3/4	2,714.18	3/4	3,073.00	3/4	3,431.81
9	224.42	9	583.24	9	937.85	9	1,286.40	9	1,645.21	9	2,004.03	9	2,362.84	9	2,721.66	9	3,080.47	9	3,439.29
1/4	231.90	1/4	590.71	1/4	945.02	1/4	1,293.87	1/4	1,652.69	1/4	2,011.50	1/4	2,370.32	1/4	2,729.13	1/4	3,087.95	1/4	3,446.76
1/2	239.37	1/2	598.19	1/2	952.19	1/2	1,301.35	1/2	1,660.16	1/2	2,018.98	1/2	2,377.79	1/2	2,736.61	1/2	3,095.42	1/2	3,454.24
3/4	246.85	3/4	605.66	3/4	959.36	3/4	1,308.83	3/4	1,667.64	3/4	2,026.45	3/4	2,385.27	3/4	2,744.08	3/4	3,102.90	3/4	3,461.71
10	254.32	10	613.14	10	966.52	10	1,316.30	10	1,675.12	10	2,033.93	10	2,392.74	10	2,751.56	10	3,110.37	10	3,469.19
1/4	261.80	1/4	620.61	1/4	973.69	1/4	1,323.78	1/4	1,682.59	1/4	2,041.40	1/4	2,400.22	1/4	2,759.03	1/4	3,117.85	1/4	3,476.66
1/2	269.28	1/2	628.09	1/2	980.86	1/2	1,331.25	1/2	1,690.07	1/2	2,048.88	1/2	2,407.69	1/2	2,766.51	1/2	3,125.32	1/2	3,484.14
3/4	276.75	3/4	635.56	3/4	988.03	3/4	1,338.73	3/4	1,697.54	3/4	2,056.36	3/4	2,415.17	3/4	2,773.98	3/4	3,132.80	3/4	3,491.61
11	284.23	11	643.04	11	995.20	11	1,346.20	11	1,705.02	11	2,063.83	11	2,422.65	11	2,781.46	11	3,140.27	11	3,499.09
1/4	291.70	1/4	650.52	1/4	1,002.37	1/4	1,353.68	1/4	1,712.49	1/4	2,071.31	1/4	2,430.12	1/4	2,788.93	1/4	3,147.75	1/4	3,506.56
1/2	299.18	1/2	657.99	1/2	1,009.54	1/2	1,361.15	1/2	1,719.97	1/2	2,078.78	1/2	2,437.60	1/2	2,796.41	1/2	3,155.22	1/2	3,514.04
3/4	306.65	3/4	665.47	3/4	1,016.70	3/4	1,368.63	3/4	1,727.44	3/4	2,086.26	3/4	2,445.07	3/4	2,803.89	3/4	3,162.70	3/4	3,521.51

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 INNAGE 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

INNAGE 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	3,528.99	0	3,887.80	0	4,246.03	0	4,603.80	0	4,960.37	0		0		0		0		0	
1/4	3,536.46	1/4	3,895.28	1/4	4,253.49	1/4	4,611.25	1/4	4,967.75	1/4		1/4		1/4		1/4		1/4	
1/2	3,543.94	1/2	3,902.75	1/2	4,260.94	1/2	4,618.71	1/2	4,975.13	1/2		1/2		1/2		1/2		1/2	
3/4	3,551.42	3/4	3,910.23	3/4	4,268.39	3/4	4,626.16	3/4	4,982.51	3/4		3/4		3/4		3/4		3/4	
1	3,558.89	1	3,917.71	1	4,275.85	1	4,633.61	1	4,989.89	1		1		1		1		1	
1/4	3,566.37	1/4	3,925.18	1/4	4,283.30	1/4	4,641.07	1/4	4,997.23	1/4		1/4		1/4		1/4		1/4	
1/2	3,573.84	1/2	3,932.66	1/2	4,290.75	1/2	4,648.52	1/2	5,004.58	1/2		1/2		1/2		1/2		1/2	
3/4	3,581.32	3/4	3,940.13	3/4	4,298.21	3/4	4,655.97	3/4	5,011.92	3/4		3/4		3/4		3/4		3/4	
2	3,588.79	2	3,947.61	2	4,305.66	2	4,663.43	2	5,019.27	2		2		2		2		2	
1/4	3,596.27	1/4	3,955.08	1/4	4,313.11	1/4	4,670.88	1/4	5,026.15	1/4		1/4		1/4		1/4		1/4	
1/2	3,603.74	1/2	3,962.56	1/2	4,320.57	1/2	4,678.34	1/2	5,033.04	1/2		1/2		1/2		1/2		1/2	
3/4	3,611.22	3/4	3,970.03	3/4	4,328.02	3/4	4,685.79	3/4	5,039.92	3/4		3/4		3/4		3/4		3/4	
3	3,618.69	3	3,977.51	3	4,335.47	3	4,693.24	3	5,046.80	3		3		3		3		3	
1/4	3,626.17	1/4	3,984.98	1/4	4,342.93	1/4	4,700.70	1/4	5,052.63	1/4		1/4		1/4		1/4		1/4	
1/2	3,633.64	1/2	3,992.46	1/2	4,350.38	1/2	4,708.15	1/2	5,058.46	1/2		1/2		1/2		1/2		1/2	
3/4	3,641.12	3/4	3,999.93	3/4	4,357.83	3/4	4,715.60	3/4	5,064.29	3/4		3/4		3/4		3/4		3/4	
4	3,648.59	4	4,007.41	4	4,365.29	4	4,723.06	4	5,070.12	4		4		4		4		4	
1/4	3,656.07	1/4	4,014.88	1/4	4,372.74	1/4	4,730.51	1/4	5,074.71	1/4		1/4		1/4		1/4		1/4	
1/2	3,663.54	1/2	4,022.36	1/2	4,380.20	1/2	4,737.96	1/2	5,079.29	1/2		1/2		1/2		1/2		1/2	
3/4	3,671.02	3/4	4,029.83	3/4	4,387.65	3/4	4,745.42	3/4	5,083.88	3/4		3/4		3/4		3/4		3/4	
5	3,678.50	5	4,037.31	5	4,395.10	5	4,752.87	5	5,088.46	5		5		5		5		5	
1/4	3,685.97	1/4	4,044.77	1/4	4,402.56	1/4	4,760.32	1/4	5,091.80	1/4		1/4		1/4		1/4		1/4	
1/2	3,693.45	1/2	4,052.23	1/2	4,410.01	1/2	4,767.78	1/2	5,095.14	1/2		1/2		1/2		1/2		1/2	
3/4	3,700.92	3/4	4,059.69	3/4	4,417.46	3/4	4,775.23	3/4	5,098.47	3/4		3/4		3/4		3/4		3/4	
6	3,708.40	6	4,067.15	6	4,424.92	6	4,782.68	6	5,101.81	6		6		6		6		6	
1/4	3,715.87	1/4	4,074.60	1/4	4,432.37	1/4	4,790.14	1/4	5,103.91	1/4		1/4		1/4		1/4		1/4	
1/2	3,723.35	1/2	4,082.06	1/2	4,439.82	1/2	4,797.59	1/2	5,106.00	1/2		1/2		1/2		1/2		1/2	
3/4	3,730.82	3/4	4,089.51	3/4	4,447.28	3/4	4,805.04	3/4	5,108.09	3/4		3/4		3/4		3/4		3/4	
7	3,738.30	7	4,096.96	7	4,454.73	7	4,812.50	7	5,110.18	7		7		7		7		7	
1/4	3,745.77	1/4	4,104.42	1/4	4,462.18	1/4	4,819.92	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,753.25	1/2	4,111.87	1/2	4,469.64	1/2	4,827.34	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,760.72	3/4	4,119.32	3/4	4,477.09	3/4	4,834.76	3/4		3/4		3/4		3/4		3/4		3/4	
8	3,768.20	8	4,126.78	8	4,484.54	8	4,842.18	8		8		8		8		8		8	
1/4	3,775.67	1/4	4,134.23	1/4	4,492.00	1/4	4,849.57	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,783.15	1/2	4,141.68	1/2	4,499.45	1/2	4,856.96	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,790.62	3/4	4,149.14	3/4	4,506.90	3/4	4,864.35	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,798.10	9	4,156.59	9	4,514.36	9	4,871.73	9		9		9		9		9		9	
1/4	3,805.58	1/4	4,164.04	1/4	4,521.81	1/4	4,879.12	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,813.05	1/2	4,171.50	1/2	4,529.27	1/2	4,886.51	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,820.53	3/4	4,178.95	3/4	4,536.72	3/4	4,893.90	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,828.00	10	4,186.40	10	4,544.17	10	4,901.28	10		10		10		10		10		10	
1/4	3,835.48	1/4	4,193.86	1/4	4,551.63	1/4	4,908.67	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,842.95	1/2	4,201.31	1/2	4,559.08	1/2	4,916.06	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,850.43	3/4	4,208.76	3/4	4,566.53	3/4	4,923.45	3/4		3/4		3/4		3/4		3/4		3/4	
11	3,857.90	11	4,216.22	11	4,573.99	11	4,930.83	11		11		11		11		11		11	
1/4	3,865.38	1/4	4,223.67	1/4	4,581.44	1/4	4,938.22	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,872.85	1/2	4,231.13	1/2	4,588.89	1/2	4,945.60	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,880.33	3/4	4,238.58	3/4	4,596.35	3/4	4,952.99	3/4		3/4		3/4		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 STBD

INNAGE 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	2.24	0	314.58	0	673.92	0	1,032.94	0	1,392.09	0	1,751.42	0	2,110.75	0	2,470.08	0	2,829.38	0	3,188.62
1/4	4.11	1/4	322.07	1/4	681.40	1/4	1,040.41	1/4	1,399.57	1/4	1,758.91	1/4	2,118.24	1/4	2,477.57	1/4	2,836.86	1/4	3,196.10
1/2	5.98	1/2	329.56	1/2	688.89	1/2	1,047.88	1/2	1,407.06	1/2	1,766.39	1/2	2,125.72	1/2	2,485.06	1/2	2,844.35	1/2	3,203.58
3/4	7.85	3/4	337.04	3/4	696.37	3/4	1,055.36	3/4	1,414.54	3/4	1,773.88	3/4	2,133.21	3/4	2,492.54	3/4	2,851.83	3/4	3,211.07
1	9.72	1	344.53	1	703.86	1	1,062.83	1	1,422.03	1	1,781.36	1	2,140.70	1	2,500.03	1	2,859.31	1	3,218.55
1/4	13.47	1/4	352.01	1/4	711.35	1/4	1,070.30	1/4	1,429.52	1/4	1,788.85	1/4	2,148.18	1/4	2,507.52	1/4	2,866.80	1/4	3,226.04
1/2	17.21	1/2	359.50	1/2	718.83	1/2	1,077.77	1/2	1,437.00	1/2	1,796.34	1/2	2,155.67	1/2	2,515.00	1/2	2,874.28	1/2	3,233.52
3/4	20.95	3/4	366.99	3/4	726.32	3/4	1,085.24	3/4	1,444.49	3/4	1,803.82	3/4	2,163.15	3/4	2,522.49	3/4	2,881.77	3/4	3,241.00
2	24.69	2	374.47	2	733.80	2	1,092.72	2	1,451.98	2	1,811.31	2	2,170.64	2	2,529.97	2	2,889.25	2	3,248.49
1/4	30.31	1/4	381.96	1/4	741.29	1/4	1,100.19	1/4	1,459.46	1/4	1,818.79	1/4	2,178.13	1/4	2,537.46	1/4	2,896.74	1/4	3,255.97
1/2	35.92	1/2	389.44	1/2	748.78	1/2	1,107.67	1/2	1,466.95	1/2	1,826.28	1/2	2,185.61	1/2	2,544.95	1/2	2,904.22	1/2	3,263.46
3/4	41.54	3/4	396.93	3/4	756.26	3/4	1,115.14	3/4	1,474.43	3/4	1,833.77	3/4	2,193.10	3/4	2,552.43	3/4	2,911.70	3/4	3,270.94
3	47.15	3	404.42	3	763.75	3	1,122.62	3	1,481.92	3	1,841.25	3	2,200.59	3	2,559.92	3	2,919.19	3	3,278.42
1/4	54.15	1/4	411.90	1/4	771.23	1/4	1,130.10	1/4	1,489.41	1/4	1,848.74	1/4	2,208.07	1/4	2,567.40	1/4	2,926.67	1/4	3,285.91
1/2	61.15	1/2	419.39	1/2	778.72	1/2	1,137.58	1/2	1,496.89	1/2	1,856.22	1/2	2,215.56	1/2	2,574.89	1/2	2,934.16	1/2	3,293.39
3/4	68.15	3/4	426.87	3/4	786.21	3/4	1,145.06	3/4	1,504.38	3/4	1,863.71	3/4	2,223.04	3/4	2,582.38	3/4	2,941.64	3/4	3,300.88
4	75.15	4	434.36	4	793.69	4	1,152.54	4	1,511.86	4	1,871.20	4	2,230.53	4	2,589.86	4	2,949.12	4	3,308.36
1/4	82.61	1/4	441.85	1/4	801.18	1/4	1,160.03	1/4	1,519.35	1/4	1,878.68	1/4	2,238.02	1/4	2,597.35	1/4	2,956.61	1/4	3,315.85
1/2	90.07	1/2	449.33	1/2	808.67	1/2	1,167.51	1/2	1,526.84	1/2	1,886.17	1/2	2,245.50	1/2	2,604.83	1/2	2,964.09	1/2	3,323.33
3/4	97.54	3/4	456.82	3/4	816.15	3/4	1,174.99	3/4	1,534.32	3/4	1,893.66	3/4	2,252.99	3/4	2,612.32	3/4	2,971.58	3/4	3,330.81
5	105.00	5	464.30	5	823.64	5	1,182.48	5	1,541.81	5	1,901.14	5	2,260.47	5	2,619.81	5	2,979.06	5	3,338.30
1/4	112.48	1/4	471.79	1/4	831.12	1/4	1,189.96	1/4	1,549.29	1/4	1,908.63	1/4	2,267.96	1/4	2,627.29	1/4	2,986.54	1/4	3,345.78
1/2	119.96	1/2	479.28	1/2	838.61	1/2	1,197.45	1/2	1,556.78	1/2	1,916.11	1/2	2,275.45	1/2	2,634.78	1/2	2,994.03	1/2	3,353.27
3/4	127.44	3/4	486.76	3/4	846.10	3/4	1,204.93	3/4	1,564.27	3/4	1,923.60	3/4	2,282.93	3/4	2,642.27	3/4	3,001.51	3/4	3,360.75
6	134.92	6	494.25	6	853.58	6	1,212.42	6	1,571.75	6	1,931.09	6	2,290.42	6	2,649.75	6	3,009.00	6	3,368.23
1/4	142.40	1/4	501.74	1/4	861.06	1/4	1,219.91	1/4	1,579.24	1/4	1,938.57	1/4	2,297.90	1/4	2,657.24	1/4	3,016.48	1/4	3,375.72
1/2	149.89	1/2	509.22	1/2	868.54	1/2	1,227.39	1/2	1,586.73	1/2	1,946.06	1/2	2,305.39	1/2	2,664.72	1/2	3,023.97	1/2	3,383.20
3/4	157.38	3/4	516.71	3/4	876.02	3/4	1,234.88	3/4	1,594.21	3/4	1,953.54	3/4	2,312.88	3/4	2,672.21	3/4	3,031.45	3/4	3,390.69
7	164.86	7	524.19	7	883.50	7	1,242.36	7	1,601.70	7	1,961.03	7	2,320.36	7	2,679.70	7	3,038.93	7	3,398.17
1/4	172.35	1/4	531.68	1/4	890.97	1/4	1,249.85	1/4	1,609.18	1/4	1,968.52	1/4	2,327.85	1/4	2,687.18	1/4	3,046.42	1/4	3,405.65
1/2	179.83	1/2	539.17	1/2	898.44	1/2	1,257.34	1/2	1,616.67	1/2	1,976.00	1/2	2,335.34	1/2	2,694.66	1/2	3,053.90	1/2	3,413.14
3/4	187.32	3/4	546.65	3/4	905.92	3/4	1,264.82	3/4	1,624.16	3/4	1,983.49	3/4	2,342.82	3/4	2,702.15	3/4	3,061.39	3/4	3,420.62
8	194.81	8	554.14	8	913.39	8	1,272.31	8	1,631.64	8	1,990.97	8	2,350.31	8	2,709.63	8	3,068.87	8	3,428.11
1/4	202.29	1/4	561.62	1/4	920.86	1/4	1,279.80	1/4	1,639.13	1/4	1,998.46	1/4	2,357.79	1/4	2,717.12	1/4	3,076.35	1/4	3,435.59
1/2	209.78	1/2	569.11	1/2	928.33	1/2	1,287.28	1/2	1,646.61	1/2	2,005.95	1/2	2,365.28	1/2	2,724.60	1/2	3,083.84	1/2	3,443.07
3/4	217.26	3/4	576.60	3/4	935.80	3/4	1,294.77	3/4	1,654.10	3/4	2,013.43	3/4	2,372.77	3/4	2,732.09	3/4	3,091.32	3/4	3,450.56
9	224.75	9	584.08	9	943.28	9	1,302.25	9	1,661.59	9	2,020.92	9	2,380.25	9	2,739.57	9	3,098.81	9	3,458.04
1/4	232.24	1/4	591.57	1/4	950.75	1/4	1,309.74	1/4	1,669.07	1/4	2,028.41	1/4	2,387.74	1/4	2,747.05	1/4	3,106.29	1/4	3,465.53
1/2	239.72	1/2	599.05	1/2	958.22	1/2	1,317.23	1/2	1,676.56	1/2	2,035.89	1/2	2,395.22	1/2	2,754.54	1/2	3,113.77	1/2	3,473.01
3/4	247.21	3/4	606.54	3/4	965.69	3/4	1,324.71	3/4	1,684.04	3/4	2,043.38	3/4	2,402.71	3/4	2,762.02	3/4	3,121.26	3/4	3,480.50
10	254.69	10	614.03	10	973.16	10	1,332.20	10	1,691.53	10	2,050.86	10	2,410.20	10	2,769.51	10	3,128.74	10	3,487.98
1/4	262.18	1/4	621.51	1/4	980.64	1/4	1,339.68	1/4	1,699.02	1/4	2,058.35	1/4	2,417.68	1/4	2,776.99	1/4	3,136.23	1/4	3,495.46
1/2	269.67	1/2	629.00	1/2	988.11	1/2	1,347.17	1/2	1,706.50	1/2	2,065.84	1/2	2,425.17	1/2	2,784.47	1/2	3,143.71	1/2	3,502.95
3/4	277.15	3/4	636.49	3/4	995.58	3/4	1,354.66	3/4	1,713.99	3/4	2,073.32	3/4	2,432.65	3/4	2,791.96	3/4	3,151.19	3/4	3,510.43
11	284.64	11	643.97	11	1,003.05	11	1,362.14	11	1,721.47	11	2,080.81	11	2,440.14	11	2,799.44	11	3,158.68	11	3,517.92
1/4	292.12	1/4	651.46	1/4	1,010.52	1/4	1,369.63	1/4	1,728.96	1/4	2,088.29	1/4	2,447.63	1/4	2,806.93	1/4	3,166.16	1/4	3,525.40
1/2	299.61	1/2	658.94	1/2	1,018.00	1/2	1,377.11	1/2	1,736.45	1/2	2,095.78	1/2	2,455.11	1/2	2,814.41	1/2	3,173.65	1/2	3,532.88
3/4	307.10	3/4	666.43	3/4	1,025.47	3/4	1,384.60	3/4	1,743.93	3/4	2,103.27	3/4	2,462.60	3/4	2,821.89	3/4	3,181.13	3/4	3,540.37

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 INNAGE 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

INNAGE 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	3,547.85	0	3,907.09	0	4,265.75	0	4,623.94	0	4,980.81	0		0		0		0		0	
1/4	3,555.34	1/4	3,914.57	1/4	4,273.21	1/4	4,631.40	1/4	4,988.19	1/4		1/4		1/4		1/4		1/4	
1/2	3,562.82	1/2	3,922.06	1/2	4,280.67	1/2	4,638.86	1/2	4,995.57	1/2		1/2		1/2		1/2		1/2	
3/4	3,570.30	3/4	3,929.54	3/4	4,288.13	3/4	4,646.32	3/4	5,002.95	3/4		3/4		3/4		3/4		3/4	
1	3,577.79	1	3,937.03	1	4,295.59	1	4,653.78	1	5,010.34	1		1		1		1		1	
1/4	3,585.27	1/4	3,944.51	1/4	4,303.06	1/4	4,661.25	1/4	5,017.68	1/4		1/4		1/4		1/4		1/4	
1/2	3,592.76	1/2	3,951.99	1/2	4,310.52	1/2	4,668.71	1/2	5,025.03	1/2		1/2		1/2		1/2		1/2	
3/4	3,600.24	3/4	3,959.48	3/4	4,317.98	3/4	4,676.17	3/4	5,032.38	3/4		3/4		3/4		3/4		3/4	
2	3,607.72	2	3,966.96	2	4,325.44	2	4,683.63	2	5,039.73	2		2		2		2		2	
1/4	3,615.21	1/4	3,974.45	1/4	4,332.91	1/4	4,691.10	1/4	5,046.62	1/4		1/4		1/4		1/4		1/4	
1/2	3,622.69	1/2	3,981.93	1/2	4,340.37	1/2	4,698.56	1/2	5,053.50	1/2		1/2		1/2		1/2		1/2	
3/4	3,630.18	3/4	3,989.41	3/4	4,347.83	3/4	4,706.02	3/4	5,060.39	3/4		3/4		3/4		3/4		3/4	
3	3,637.66	3	3,996.90	3	4,355.29	3	4,713.48	3	5,067.28	3		3		3		3		3	
1/4	3,645.15	1/4	4,004.38	1/4	4,362.76	1/4	4,720.95	1/4	5,073.11	1/4		1/4		1/4		1/4		1/4	
1/2	3,652.63	1/2	4,011.87	1/2	4,370.22	1/2	4,728.41	1/2	5,078.94	1/2		1/2		1/2		1/2		1/2	
3/4	3,660.11	3/4	4,019.35	3/4	4,377.68	3/4	4,735.87	3/4	5,084.77	3/4		3/4		3/4		3/4		3/4	
4	3,667.60	4	4,026.83	4	4,385.14	4	4,743.33	4	5,090.60	4		4		4		4		4	
1/4	3,675.08	1/4	4,034.32	1/4	4,392.60	1/4	4,750.79	1/4	5,095.18	1/4		1/4		1/4		1/4		1/4	
1/2	3,682.57	1/2	4,041.80	1/2	4,400.07	1/2	4,758.26	1/2	5,099.77	1/2		1/2		1/2		1/2		1/2	
3/4	3,690.05	3/4	4,049.29	3/4	4,407.53	3/4	4,765.72	3/4	5,104.35	3/4		3/4		3/4		3/4		3/4	
5	3,697.53	5	4,056.77	5	4,414.99	5	4,773.18	5	5,108.93	5		5		5		5		5	
1/4	3,705.02	1/4	4,064.24	1/4	4,422.45	1/4	4,780.64	1/4	5,112.27	1/4		1/4		1/4		1/4		1/4	
1/2	3,712.50	1/2	4,071.71	1/2	4,429.92	1/2	4,788.11	1/2	5,115.61	1/2		1/2		1/2		1/2		1/2	
3/4	3,719.99	3/4	4,079.18	3/4	4,437.38	3/4	4,795.57	3/4	5,118.94	3/4		3/4		3/4		3/4		3/4	
6	3,727.47	6	4,086.65	6	4,444.84	6	4,803.03	6	5,122.28	6		6		6		6		6	
1/4	3,734.95	1/4	4,094.11	1/4	4,452.30	1/4	4,810.49	1/4	5,124.36	1/4		1/4		1/4		1/4		1/4	
1/2	3,742.44	1/2	4,101.57	1/2	4,459.77	1/2	4,817.96	1/2	5,126.45	1/2		1/2		1/2		1/2		1/2	
3/4	3,749.92	3/4	4,109.04	3/4	4,467.23	3/4	4,825.42	3/4	5,128.54	3/4		3/4		3/4		3/4		3/4	
7	3,757.41	7	4,116.50	7	4,474.69	7	4,832.88	7	5,130.63	7		7		7		7		7	
1/4	3,764.89	1/4	4,123.96	1/4	4,482.15	1/4	4,840.31	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,772.38	1/2	4,131.42	1/2	4,489.61	1/2	4,847.73	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,779.86	3/4	4,138.89	3/4	4,497.08	3/4	4,855.16	3/4		3/4		3/4		3/4		3/4		3/4	
8	3,787.34	8	4,146.35	8	4,504.54	8	4,862.58	8		8		8		8		8		8	
1/4	3,794.83	1/4	4,153.81	1/4	4,512.00	1/4	4,869.97	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,802.31	1/2	4,161.27	1/2	4,519.46	1/2	4,877.36	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,809.80	3/4	4,168.74	3/4	4,526.93	3/4	4,884.75	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,817.28	9	4,176.20	9	4,534.39	9	4,892.14	9		9		9		9		9		9	
1/4	3,824.76	1/4	4,183.66	1/4	4,541.85	1/4	4,899.52	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,832.25	1/2	4,191.12	1/2	4,549.31	1/2	4,906.91	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,839.73	3/4	4,198.58	3/4	4,556.78	3/4	4,914.30	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,847.22	10	4,206.05	10	4,564.24	10	4,921.69	10		10		10		10		10		10	
1/4	3,854.70	1/4	4,213.51	1/4	4,571.70	1/4	4,929.08	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,862.18	1/2	4,220.97	1/2	4,579.16	1/2	4,936.47	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,869.67	3/4	4,228.43	3/4	4,586.62	3/4	4,943.86	3/4		3/4		3/4		3/4		3/4		3/4	
11	3,877.15	11	4,235.90	11	4,594.09	11	4,951.25	11		11		11		11		11		11	
1/4	3,884.64	1/4	4,243.36	1/4	4,601.55	1/4	4,958.64	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,892.12	1/2	4,250.82	1/2	4,609.01	1/2	4,966.03	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,899.60	3/4	4,258.28	3/4	4,616.47	3/4	4,973.42	3/4		3/4		3/4		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

INNAGE 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	2.23	0	313.38	0	670.80	0	1,020.34	0	1,372.01	0	1,729.19	0	2,085.58	0	2,442.66	0	2,799.49	0	3,156.28
1/4	4.10	1/4	320.82	1/4	678.25	1/4	1,027.49	1/4	1,379.45	1/4	1,736.63	1/4	2,093.01	1/4	2,450.10	1/4	2,806.92	1/4	3,163.71
1/2	5.96	1/2	328.27	1/2	685.69	1/2	1,034.64	1/2	1,386.89	1/2	1,744.06	1/2	2,100.43	1/2	2,457.53	1/2	2,814.35	1/2	3,171.15
3/4	7.82	3/4	335.72	3/4	693.14	3/4	1,041.79	3/4	1,394.33	3/4	1,751.49	3/4	2,107.86	3/4	2,464.97	3/4	2,821.79	3/4	3,178.58
1	9.69	1	343.16	1	700.58	1	1,048.94	1	1,401.78	1	1,758.93	1	2,115.29	1	2,472.40	1	2,829.22	1	3,186.01
1/4	13.42	1/4	350.61	1/4	708.03	1/4	1,056.09	1/4	1,409.22	1/4	1,766.35	1/4	2,122.73	1/4	2,479.83	1/4	2,836.65	1/4	3,193.43
1/2	17.15	1/2	358.05	1/2	715.48	1/2	1,063.24	1/2	1,416.66	1/2	1,773.78	1/2	2,130.17	1/2	2,487.27	1/2	2,844.09	1/2	3,200.85
3/4	20.87	3/4	365.50	3/4	722.92	3/4	1,070.39	3/4	1,424.10	3/4	1,781.20	3/4	2,137.60	3/4	2,494.70	3/4	2,851.52	3/4	3,208.27
2	24.60	2	372.95	2	730.37	2	1,077.54	2	1,431.54	2	1,788.63	2	2,145.04	2	2,502.14	2	2,858.95	2	3,215.69
1/4	30.20	1/4	380.39	1/4	737.82	1/4	1,084.72	1/4	1,438.98	1/4	1,796.05	1/4	2,152.48	1/4	2,509.57	1/4	2,866.39	1/4	3,223.10
1/2	35.79	1/2	387.84	1/2	745.26	1/2	1,091.91	1/2	1,446.42	1/2	1,803.48	1/2	2,159.92	1/2	2,517.01	1/2	2,873.82	1/2	3,230.50
3/4	41.38	3/4	395.29	3/4	752.71	3/4	1,099.09	3/4	1,453.86	3/4	1,810.90	3/4	2,167.36	3/4	2,524.44	3/4	2,881.25	3/4	3,237.91
3	46.97	3	402.73	3	760.15	3	1,106.28	3	1,461.31	3	1,818.33	3	2,174.79	3	2,531.87	3	2,888.69	3	3,245.31
1/4	53.95	1/4	410.18	1/4	767.60	1/4	1,113.50	1/4	1,468.75	1/4	1,825.75	1/4	2,182.23	1/4	2,539.31	1/4	2,896.12	1/4	3,252.71
1/2	60.92	1/2	417.63	1/2	775.05	1/2	1,120.72	1/2	1,476.19	1/2	1,833.18	1/2	2,189.67	1/2	2,546.74	1/2	2,903.55	1/2	3,260.12
3/4	67.89	3/4	425.07	3/4	782.49	3/4	1,127.94	3/4	1,483.63	3/4	1,840.60	3/4	2,197.11	3/4	2,554.18	3/4	2,910.99	3/4	3,267.52
4	74.87	4	432.52	4	789.94	4	1,135.16	4	1,491.07	4	1,848.03	4	2,204.55	4	2,561.61	4	2,918.42	4	3,274.93
1/4	82.30	1/4	439.96	1/4	797.35	1/4	1,142.39	1/4	1,498.51	1/4	1,855.45	1/4	2,211.98	1/4	2,569.05	1/4	2,925.85	1/4	3,282.33
1/2	89.74	1/2	447.41	1/2	804.77	1/2	1,149.61	1/2	1,505.95	1/2	1,862.88	1/2	2,219.42	1/2	2,576.48	1/2	2,933.29	1/2	3,289.74
3/4	97.17	3/4	454.86	3/4	812.18	3/4	1,156.84	3/4	1,513.39	3/4	1,870.30	3/4	2,226.86	3/4	2,583.92	3/4	2,940.72	3/4	3,297.14
5	104.60	5	462.30	5	819.60	5	1,164.07	5	1,520.84	5	1,877.73	5	2,234.30	5	2,591.35	5	2,948.15	5	3,304.55
1/4	112.06	1/4	469.75	1/4	826.88	1/4	1,171.41	1/4	1,528.28	1/4	1,885.15	1/4	2,241.73	1/4	2,598.78	1/4	2,955.59	1/4	3,311.95
1/2	119.51	1/2	477.20	1/2	834.15	1/2	1,178.74	1/2	1,535.72	1/2	1,892.58	1/2	2,249.17	1/2	2,606.22	1/2	2,963.02	1/2	3,319.36
3/4	126.96	3/4	484.64	3/4	841.43	3/4	1,186.08	3/4	1,543.16	3/4	1,900.00	3/4	2,256.61	3/4	2,613.65	3/4	2,970.45	3/4	3,326.76
6	134.41	6	492.09	6	848.71	6	1,193.42	6	1,550.60	6	1,907.43	6	2,264.05	6	2,621.09	6	2,977.88	6	3,334.17
1/4	141.87	1/4	499.53	1/4	855.87	1/4	1,200.86	1/4	1,558.04	1/4	1,914.85	1/4	2,271.49	1/4	2,628.52	1/4	2,985.32	1/4	3,341.57
1/2	149.33	1/2	506.98	1/2	863.03	1/2	1,208.30	1/2	1,565.48	1/2	1,922.28	1/2	2,278.93	1/2	2,635.96	1/2	2,992.75	1/2	3,348.97
3/4	156.78	3/4	514.43	3/4	870.19	3/4	1,215.74	3/4	1,572.93	3/4	1,929.70	3/4	2,286.37	3/4	2,643.39	3/4	3,000.18	3/4	3,356.38
7	164.24	7	521.87	7	877.35	7	1,223.18	7	1,580.37	7	1,937.12	7	2,293.81	7	2,650.82	7	3,007.62	7	3,363.78
1/4	171.70	1/4	529.32	1/4	884.50	1/4	1,230.63	1/4	1,587.81	1/4	1,944.55	1/4	2,301.25	1/4	2,658.26	1/4	3,015.05	1/4	3,371.17
1/2	179.16	1/2	536.77	1/2	891.65	1/2	1,238.07	1/2	1,595.25	1/2	1,951.97	1/2	2,308.70	1/2	2,665.69	1/2	3,022.48	1/2	3,378.57
3/4	186.62	3/4	544.21	3/4	898.80	3/4	1,245.51	3/4	1,602.69	3/4	1,959.40	3/4	2,316.14	3/4	2,673.12	3/4	3,029.92	3/4	3,385.97
8	194.07	8	551.66	8	905.95	8	1,252.95	8	1,610.13	8	1,966.82	8	2,323.58	8	2,680.56	8	3,037.35	8	3,393.36
1/4	201.53	1/4	559.10	1/4	913.10	1/4	1,260.39	1/4	1,617.57	1/4	1,974.25	1/4	2,331.03	1/4	2,687.99	1/4	3,044.78	1/4	3,400.64
1/2	208.99	1/2	566.55	1/2	920.25	1/2	1,267.83	1/2	1,625.01	1/2	1,981.67	1/2	2,338.47	1/2	2,695.42	1/2	3,052.22	1/2	3,407.92
3/4	216.45	3/4	574.00	3/4	927.40	3/4	1,275.27	3/4	1,632.46	3/4	1,989.10	3/4	2,345.91	3/4	2,702.86	3/4	3,059.65	3/4	3,415.20
9	223.90	9	581.44	9	934.55	9	1,282.71	9	1,639.90	9	1,996.52	9	2,353.36	9	2,710.29	9	3,067.08	9	3,422.47
1/4	231.36	1/4	588.89	1/4	941.70	1/4	1,290.16	1/4	1,647.34	1/4	2,003.95	1/4	2,360.80	1/4	2,717.72	1/4	3,074.52	1/4	3,429.40
1/2	238.82	1/2	596.34	1/2	948.85	1/2	1,297.60	1/2	1,654.78	1/2	2,011.37	1/2	2,368.25	1/2	2,725.16	1/2	3,081.95	1/2	3,436.32
3/4	246.28	3/4	603.78	3/4	956.00	3/4	1,305.04	3/4	1,662.22	3/4	2,018.80	3/4	2,375.69	3/4	2,732.59	3/4	3,089.38	3/4	3,443.25
10	253.74	10	611.23	10	963.15	10	1,312.48	10	1,669.66	10	2,026.22	10	2,383.13	10	2,740.02	10	3,096.82	10	3,450.17
1/4	261.19	1/4	618.68	1/4	970.30	1/4	1,319.92	1/4	1,677.10	1/4	2,033.64	1/4	2,390.58	1/4	2,747.46	1/4	3,104.25	1/4	3,456.62
1/2	268.65	1/2	626.12	1/2	977.45	1/2	1,327.36	1/2	1,684.54	1/2	2,041.07	1/2	2,398.02	1/2	2,754.89	1/2	3,111.68	1/2	3,463.06
3/4	276.11	3/4	633.57	3/4	984.60	3/4	1,334.80	3/4	1,691.99	3/4	2,048.49	3/4	2,405.46	3/4	2,762.32	3/4	3,119.12	3/4	3,469.51
11	283.57	11	641.01	11	991.74	11	1,342.24	11	1,699.43	11	2,055.91	11	2,412.91	11	2,769.76	11	3,126.55	11	3,475.96
1/4	291.02	1/4	648.46	1/4	998.89	1/4	1,349.69	1/4	1,706.87	1/4	2,063.33	1/4	2,420.35	1/4	2,777.19	1/4	3,133.98	1/4	3,481.93
1/2	298.47	1/2	655.91	1/2	1,006.04	1/2	1,357.13	1/2	1,714.31	1/2	2,070.74	1/2	2,427.78	1/2	2,784.62	1/2	3,141.42	1/2	3,487.91
3/4	305.92	3/4	663.35	3/4	1,013.19	3/4	1,364.57	3/4	1,721.75	3/4	2,078.16	3/4	2,435.22	3/4	2,792.05	3/4	3,148.85	3/4	3,493.88

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 INNAGE 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

INNAGE 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	3,499.85	0	3,725.62	0	3,945.03	0	4,164.17	0	4,382.50	0		0		0		0		0	
1/4	3,505.36	1/4	3,730.19	1/4	3,949.60	1/4	4,168.74	1/4	4,387.02	1/4		1/4		1/4		1/4		1/4	
1/2	3,510.86	1/2	3,734.77	1/2	3,954.16	1/2	4,173.30	1/2	4,391.54	1/2		1/2		1/2		1/2		1/2	
3/4	3,516.36	3/4	3,739.35	3/4	3,958.73	3/4	4,177.87	3/4	4,396.05	3/4		3/4		3/4		3/4		3/4	
1	3,521.86	1	3,743.93	1	3,963.29	1	4,182.43	1	4,400.57	1		1		1		1		1	
1/4	3,526.89	1/4	3,748.51	1/4	3,967.86	1/4	4,187.00	1/4	4,405.07	1/4		1/4		1/4		1/4		1/4	
1/2	3,531.93	1/2	3,753.08	1/2	3,972.43	1/2	4,191.56	1/2	4,409.56	1/2		1/2		1/2		1/2		1/2	
3/4	3,536.97	3/4	3,757.66	3/4	3,976.99	3/4	4,196.13	3/4	4,414.06	3/4		3/4		3/4		3/4		3/4	
2	3,542.01	2	3,762.24	2	3,981.56	2	4,200.70	2	4,418.55	2		2		2		2		2	
1/4	3,546.71	1/4	3,766.82	1/4	3,986.12	1/4	4,205.26	1/4	4,422.77	1/4		1/4		1/4		1/4		1/4	
1/2	3,551.41	1/2	3,771.40	1/2	3,990.69	1/2	4,209.83	1/2	4,426.98	1/2		1/2		1/2		1/2		1/2	
3/4	3,556.11	3/4	3,775.98	3/4	3,995.25	3/4	4,214.39	3/4	4,431.19	3/4		3/4		3/4		3/4		3/4	
3	3,560.80	3	3,780.55	3	3,999.82	3	4,218.96	3	4,435.41	3		3		3		3		3	
1/4	3,565.38	1/4	3,785.13	1/4	4,004.38	1/4	4,223.52	1/4	4,438.97	1/4		1/4		1/4		1/4		1/4	
1/2	3,569.96	1/2	3,789.71	1/2	4,008.95	1/2	4,228.09	1/2	4,442.54	1/2		1/2		1/2		1/2		1/2	
3/4	3,574.54	3/4	3,794.29	3/4	4,013.51	3/4	4,232.65	3/4	4,446.11	3/4		3/4		3/4		3/4		3/4	
4	3,579.12	4	3,798.87	4	4,018.08	4	4,237.22	4	4,449.68	4		4		4		4		4	
1/4	3,583.69	1/4	3,803.44	1/4	4,022.65	1/4	4,241.78	1/4	4,452.48	1/4		1/4		1/4		1/4		1/4	
1/2	3,588.27	1/2	3,808.02	1/2	4,027.21	1/2	4,246.35	1/2	4,455.28	1/2		1/2		1/2		1/2		1/2	
3/4	3,592.85	3/4	3,812.60	3/4	4,031.78	3/4	4,250.92	3/4	4,458.09	3/4		3/4		3/4		3/4		3/4	
5	3,597.43	5	3,817.18	5	4,036.34	5	4,255.48	5	4,460.89	5		5		5		5		5	
1/4	3,602.01	1/4	3,821.75	1/4	4,040.91	1/4	4,260.05	1/4	4,462.93	1/4		1/4		1/4		1/4		1/4	
1/2	3,606.59	1/2	3,826.32	1/2	4,045.47	1/2	4,264.61	1/2	4,464.97	1/2		1/2		1/2		1/2		1/2	
3/4	3,611.16	3/4	3,830.89	3/4	4,050.04	3/4	4,269.18	3/4	4,467.02	3/4		3/4		3/4		3/4		3/4	
6	3,615.74	6	3,835.46	6	4,054.60	6	4,273.74	6	4,469.06	6		6		6		6		6	
1/4	3,620.32	1/4	3,840.03	1/4	4,059.17	1/4	4,278.31	1/4	4,470.33	1/4		1/4		1/4		1/4		1/4	
1/2	3,624.90	1/2	3,844.59	1/2	4,063.73	1/2	4,282.87	1/2	4,471.61	1/2		1/2		1/2		1/2		1/2	
3/4	3,629.48	3/4	3,849.16	3/4	4,068.30	3/4	4,287.44	3/4	4,472.89	3/4		3/4		3/4		3/4		3/4	
7	3,634.05	7	3,853.73	7	4,072.86	7	4,292.00	7	4,474.17	7		7		7		7		7	
1/4	3,638.63	1/4	3,858.29	1/4	4,077.43	1/4	4,296.55	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,643.21	1/2	3,862.86	1/2	4,082.00	1/2	4,301.09	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,647.79	3/4	3,867.42	3/4	4,086.56	3/4	4,305.63	3/4		3/4		3/4		3/4		3/4		3/4	
8	3,652.37	8	3,871.99	8	4,091.13	8	4,310.17	8		8		8		8		8		8	
1/4	3,656.94	1/4	3,876.55	1/4	4,095.69	1/4	4,314.69	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,661.52	1/2	3,881.12	1/2	4,100.26	1/2	4,319.21	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,666.10	3/4	3,885.68	3/4	4,104.82	3/4	4,323.73	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,670.68	9	3,890.25	9	4,109.39	9	4,328.25	9		9		9		9		9		9	
1/4	3,675.26	1/4	3,894.81	1/4	4,113.95	1/4	4,332.77	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,679.84	1/2	3,899.38	1/2	4,118.52	1/2	4,337.29	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,684.41	3/4	3,903.94	3/4	4,123.08	3/4	4,341.81	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,688.99	10	3,908.51	10	4,127.65	10	4,346.33	10		10		10		10		10		10	
1/4	3,693.57	1/4	3,913.08	1/4	4,132.21	1/4	4,350.85	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,698.15	1/2	3,917.64	1/2	4,136.78	1/2	4,355.38	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,702.73	3/4	3,922.21	3/4	4,141.35	3/4	4,359.90	3/4		3/4		3/4		3/4		3/4		3/4	
11	3,707.30	11	3,926.77	11	4,145.91	11	4,364.42	11		11		11		11		11		11	
1/4	3,711.88	1/4	3,931.34	1/4	4,150.48	1/4	4,368.94	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,716.46	1/2	3,935.90	1/2	4,155.04	1/2	4,373.46	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,721.04	3/4	3,940.47	3/4	4,159.61	3/4	4,377.98	3/4		3/4		3/4		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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BARGE "E2MS 312"

3 STBD

INNAGE 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	2.23	0	312.79	0	670.08	0	1,027.06	0	1,384.17	0	1,741.47	0	2,098.78	0	2,456.05	0	2,812.89	0	3,169.70
1/4	4.09	1/4	320.24	1/4	677.53	1/4	1,034.49	1/4	1,391.62	1/4	1,748.92	1/4	2,106.22	1/4	2,463.48	1/4	2,820.32	1/4	3,177.13
1/2	5.95	1/2	327.68	1/2	684.97	1/2	1,041.92	1/2	1,399.06	1/2	1,756.36	1/2	2,113.66	1/2	2,470.92	1/2	2,827.76	1/2	3,184.56
3/4	7.81	3/4	335.12	3/4	692.41	3/4	1,049.35	3/4	1,406.50	3/4	1,763.81	3/4	2,121.11	3/4	2,478.35	3/4	2,835.19	3/4	3,192.00
1	9.67	1	342.57	1	699.86	1	1,056.78	1	1,413.95	1	1,771.25	1	2,128.55	1	2,485.79	1	2,842.62	1	3,199.43
1/4	13.39	1/4	350.01	1/4	707.30	1/4	1,064.21	1/4	1,421.39	1/4	1,778.69	1/4	2,136.00	1/4	2,493.22	1/4	2,850.06	1/4	3,206.85
1/2	17.11	1/2	357.45	1/2	714.74	1/2	1,071.64	1/2	1,428.84	1/2	1,786.14	1/2	2,143.44	1/2	2,500.66	1/2	2,857.49	1/2	3,214.27
3/4	20.83	3/4	364.90	3/4	722.19	3/4	1,079.07	3/4	1,436.28	3/4	1,793.58	3/4	2,150.88	3/4	2,508.09	3/4	2,864.92	3/4	3,221.69
2	24.56	2	372.34	2	729.63	2	1,086.50	2	1,443.72	2	1,801.03	2	2,158.33	2	2,515.53	2	2,872.36	2	3,229.10
1/4	30.14	1/4	379.79	1/4	737.07	1/4	1,093.93	1/4	1,451.17	1/4	1,808.47	1/4	2,165.77	1/4	2,522.96	1/4	2,879.79	1/4	3,236.51
1/2	35.72	1/2	387.23	1/2	744.52	1/2	1,101.36	1/2	1,458.61	1/2	1,815.91	1/2	2,173.22	1/2	2,530.40	1/2	2,887.22	1/2	3,243.91
3/4	41.30	3/4	394.67	3/4	751.96	3/4	1,108.80	3/4	1,466.05	3/4	1,823.36	3/4	2,180.66	3/4	2,537.83	3/4	2,894.66	3/4	3,251.32
3	46.88	3	402.12	3	759.40	3	1,116.23	3	1,473.50	3	1,830.80	3	2,188.10	3	2,545.27	3	2,902.09	3	3,258.72
1/4	53.84	1/4	409.56	1/4	766.85	1/4	1,123.67	1/4	1,480.94	1/4	1,838.24	1/4	2,195.55	1/4	2,552.70	1/4	2,909.52	1/4	3,266.13
1/2	60.80	1/2	417.00	1/2	774.29	1/2	1,131.11	1/2	1,488.39	1/2	1,845.69	1/2	2,202.99	1/2	2,560.14	1/2	2,916.96	1/2	3,273.53
3/4	67.76	3/4	424.45	3/4	781.73	3/4	1,138.54	3/4	1,495.83	3/4	1,853.13	3/4	2,210.43	3/4	2,567.57	3/4	2,924.39	3/4	3,280.94
4	74.72	4	431.89	4	789.18	4	1,145.98	4	1,503.27	4	1,860.58	4	2,217.88	4	2,575.01	4	2,931.82	4	3,288.34
1/4	82.14	1/4	439.33	1/4	796.62	1/4	1,153.42	1/4	1,510.72	1/4	1,868.02	1/4	2,225.32	1/4	2,582.44	1/4	2,939.26	1/4	3,295.75
1/2	89.56	1/2	446.78	1/2	804.06	1/2	1,160.86	1/2	1,518.16	1/2	1,875.46	1/2	2,232.77	1/2	2,589.87	1/2	2,946.69	1/2	3,303.15
3/4	96.98	3/4	454.22	3/4	811.51	3/4	1,168.31	3/4	1,525.60	3/4	1,882.91	3/4	2,240.21	3/4	2,597.31	3/4	2,954.13	3/4	3,310.56
5	104.40	5	461.66	5	818.95	5	1,175.75	5	1,533.05	5	1,890.35	5	2,247.65	5	2,604.74	5	2,961.56	5	3,317.96
1/4	111.84	1/4	469.11	1/4	826.40	1/4	1,183.19	1/4	1,540.49	1/4	1,897.79	1/4	2,255.10	1/4	2,612.18	1/4	2,968.99	1/4	3,325.37
1/2	119.28	1/2	476.55	1/2	833.84	1/2	1,190.63	1/2	1,547.94	1/2	1,905.24	1/2	2,262.54	1/2	2,619.61	1/2	2,976.43	1/2	3,332.78
3/4	126.71	3/4	483.99	3/4	841.28	3/4	1,198.08	3/4	1,555.38	3/4	1,912.68	3/4	2,269.98	3/4	2,627.05	3/4	2,983.86	3/4	3,340.18
6	134.15	6	491.44	6	848.73	6	1,205.52	6	1,562.82	6	1,920.13	6	2,277.43	6	2,634.48	6	2,991.29	6	3,347.59
1/4	141.60	1/4	498.88	1/4	856.16	1/4	1,212.97	1/4	1,570.27	1/4	1,927.57	1/4	2,284.87	1/4	2,641.92	1/4	2,998.73	1/4	3,354.99
1/2	149.04	1/2	506.32	1/2	863.60	1/2	1,220.41	1/2	1,577.71	1/2	1,935.01	1/2	2,292.32	1/2	2,649.35	1/2	3,006.16	1/2	3,362.39
3/4	156.48	3/4	513.77	3/4	871.04	3/4	1,227.85	3/4	1,585.16	3/4	1,942.46	3/4	2,299.76	3/4	2,656.78	3/4	3,013.59	3/4	3,369.80
7	163.92	7	521.21	7	878.47	7	1,235.30	7	1,592.60	7	1,949.90	7	2,307.20	7	2,664.22	7	3,021.03	7	3,377.20
1/4	171.37	1/4	528.66	1/4	885.90	1/4	1,242.74	1/4	1,600.04	1/4	1,957.35	1/4	2,314.65	1/4	2,671.65	1/4	3,028.46	1/4	3,384.59
1/2	178.81	1/2	536.10	1/2	893.33	1/2	1,250.18	1/2	1,607.49	1/2	1,964.79	1/2	2,322.09	1/2	2,679.09	1/2	3,035.89	1/2	3,391.99
3/4	186.25	3/4	543.54	3/4	900.76	3/4	1,257.63	3/4	1,614.93	3/4	1,972.23	3/4	2,329.54	3/4	2,686.52	3/4	3,043.33	3/4	3,399.39
8	193.70	8	550.99	8	908.19	8	1,265.07	8	1,622.37	8	1,979.68	8	2,336.98	8	2,693.95	8	3,050.76	8	3,406.78
1/4	201.14	1/4	558.43	1/4	915.62	1/4	1,272.52	1/4	1,629.82	1/4	1,987.12	1/4	2,344.42	1/4	2,701.39	1/4	3,058.19	1/4	3,414.06
1/2	208.58	1/2	565.87	1/2	923.05	1/2	1,279.96	1/2	1,637.26	1/2	1,994.56	1/2	2,351.87	1/2	2,708.82	1/2	3,065.63	1/2	3,421.34
3/4	216.03	3/4	573.32	3/4	930.48	3/4	1,287.40	3/4	1,644.71	3/4	2,002.01	3/4	2,359.31	3/4	2,716.25	3/4	3,073.06	3/4	3,428.62
9	223.47	9	580.76	9	937.91	9	1,294.85	9	1,652.15	9	2,009.45	9	2,366.75	9	2,723.69	9	3,080.49	9	3,435.90
1/4	230.92	1/4	588.20	1/4	945.34	1/4	1,302.29	1/4	1,659.59	1/4	2,016.90	1/4	2,374.20	1/4	2,731.12	1/4	3,087.93	1/4	3,442.82
1/2	238.36	1/2	595.65	1/2	952.77	1/2	1,309.73	1/2	1,667.04	1/2	2,024.34	1/2	2,381.64	1/2	2,738.55	1/2	3,095.36	1/2	3,449.75
3/4	245.80	3/4	603.09	3/4	960.20	3/4	1,317.18	3/4	1,674.48	3/4	2,031.78	3/4	2,389.09	3/4	2,745.99	3/4	3,102.80	3/4	3,456.67
10	253.25	10	610.53	10	967.63	10	1,324.62	10	1,681.92	10	2,039.23	10	2,396.53	10	2,753.42	10	3,110.23	10	3,463.60
1/4	260.69	1/4	617.98	1/4	975.05	1/4	1,332.07	1/4	1,689.37	1/4	2,046.67	1/4	2,403.97	1/4	2,760.85	1/4	3,117.66	1/4	3,470.05
1/2	268.13	1/2	625.42	1/2	982.48	1/2	1,339.51	1/2	1,696.81	1/2	2,054.11	1/2	2,411.42	1/2	2,768.29	1/2	3,125.10	1/2	3,476.50
3/4	275.58	3/4	632.86	3/4	989.91	3/4	1,346.95	3/4	1,704.26	3/4	2,061.56	3/4	2,418.86	3/4	2,775.72	3/4	3,132.53	3/4	3,482.94
11	283.02	11	640.31	11	997.34	11	1,354.40	11	1,711.70	11	2,069.00	11	2,426.30	11	2,783.15	11	3,139.96	11	3,489.39
1/4	290.46	1/4	647.75	1/4	1,004.77	1/4	1,361.84	1/4	1,719.14	1/4	2,076.45	1/4	2,433.74	1/4	2,790.59	1/4	3,147.40	1/4	3,495.36
1/2	297.91	1/2	655.19	1/2	1,012.20	1/2	1,369.28	1/2	1,726.59	1/2	2,083.89	1/2	2,441.18	1/2	2,798.02	1/2	3,154.83	1/2	3,501.33
3/4	305.35	3/4	662.64	3/4	1,019.63	3/4	1,376.73	3/4	1,734.03	3/4	2,091.33	3/4	2,448.61	3/4	2,805.46	3/4	3,162.26	3/4	3,507.30

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 INNAGE 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

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

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	3,513.27	0	3,738.62	0	3,957.65	0	4,176.40	0	4,394.34	0		0		0		0		0	
1/4	3,518.76	1/4	3,743.19	1/4	3,962.21	1/4	4,180.96	1/4	4,398.85	1/4		1/4		1/4		1/4		1/4	
1/2	3,524.25	1/2	3,747.76	1/2	3,966.76	1/2	4,185.52	1/2	4,403.35	1/2		1/2		1/2		1/2		1/2	
3/4	3,529.74	3/4	3,752.33	3/4	3,971.32	3/4	4,190.07	3/4	4,407.86	3/4		3/4		3/4		3/4		3/4	
1	3,535.23	1	3,756.90	1	3,975.88	1	4,194.63	1	4,412.37	1		1		1		1		1	
1/4	3,540.26	1/4	3,761.47	1/4	3,980.44	1/4	4,199.19	1/4	4,416.86	1/4		1/4		1/4		1/4		1/4	
1/2	3,545.29	1/2	3,766.04	1/2	3,984.99	1/2	4,203.74	1/2	4,421.35	1/2		1/2		1/2		1/2		1/2	
3/4	3,550.32	3/4	3,770.61	3/4	3,989.55	3/4	4,208.30	3/4	4,425.83	3/4		3/4		3/4		3/4		3/4	
2	3,555.35	2	3,775.18	2	3,994.11	2	4,212.86	2	4,430.32	2		2		2		2		2	
1/4	3,560.04	1/4	3,779.75	1/4	3,998.67	1/4	4,217.42	1/4	4,434.53	1/4		1/4		1/4		1/4		1/4	
1/2	3,564.73	1/2	3,784.32	1/2	4,003.22	1/2	4,221.97	1/2	4,438.73	1/2		1/2		1/2		1/2		1/2	
3/4	3,569.41	3/4	3,788.89	3/4	4,007.78	3/4	4,226.53	3/4	4,442.94	3/4		3/4		3/4		3/4		3/4	
3	3,574.10	3	3,793.46	3	4,012.34	3	4,231.09	3	4,447.14	3		3		3		3		3	
1/4	3,578.67	1/4	3,798.03	1/4	4,016.90	1/4	4,235.65	1/4	4,450.70	1/4		1/4		1/4		1/4		1/4	
1/2	3,583.24	1/2	3,802.60	1/2	4,021.45	1/2	4,240.20	1/2	4,454.27	1/2		1/2		1/2		1/2		1/2	
3/4	3,587.81	3/4	3,807.17	3/4	4,026.01	3/4	4,244.76	3/4	4,457.83	3/4		3/4		3/4		3/4		3/4	
4	3,592.38	4	3,811.74	4	4,030.57	4	4,249.32	4	4,461.39	4		4		4		4		4	
1/4	3,596.95	1/4	3,816.31	1/4	4,035.12	1/4	4,253.87	1/4	4,464.19	1/4		1/4		1/4		1/4		1/4	
1/2	3,601.52	1/2	3,820.88	1/2	4,039.68	1/2	4,258.43	1/2	4,466.99	1/2		1/2		1/2		1/2		1/2	
3/4	3,606.09	3/4	3,825.45	3/4	4,044.24	3/4	4,262.99	3/4	4,469.79	3/4		3/4		3/4		3/4		3/4	
5	3,610.66	5	3,830.02	5	4,048.80	5	4,267.55	5	4,472.58	5		5		5		5		5	
1/4	3,615.23	1/4	3,834.59	1/4	4,053.35	1/4	4,272.10	1/4	4,474.62	1/4		1/4		1/4		1/4		1/4	
1/2	3,619.80	1/2	3,839.15	1/2	4,057.91	1/2	4,276.66	1/2	4,476.66	1/2		1/2		1/2		1/2		1/2	
3/4	3,624.37	3/4	3,843.71	3/4	4,062.47	3/4	4,281.22	3/4	4,478.70	3/4		3/4		3/4		3/4		3/4	
6	3,628.94	6	3,848.27	6	4,067.03	6	4,285.78	6	4,480.73	6		6		6		6		6	
1/4	3,633.51	1/4	3,852.83	1/4	4,071.58	1/4	4,290.33	1/4	4,482.01	1/4		1/4		1/4		1/4		1/4	
1/2	3,638.08	1/2	3,857.39	1/2	4,076.14	1/2	4,294.89	1/2	4,483.28	1/2		1/2		1/2		1/2		1/2	
3/4	3,642.65	3/4	3,861.95	3/4	4,080.70	3/4	4,299.45	3/4	4,484.56	3/4		3/4		3/4		3/4		3/4	
7	3,647.22	7	3,866.50	7	4,085.25	7	4,304.00	7	4,485.84	7		7		7		7		7	
1/4	3,651.79	1/4	3,871.06	1/4	4,089.81	1/4	4,308.54	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,656.36	1/2	3,875.62	1/2	4,094.37	1/2	4,313.07	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,660.93	3/4	3,880.18	3/4	4,098.93	3/4	4,317.61	3/4		3/4		3/4		3/4		3/4		3/4	
8	3,665.50	8	3,884.73	8	4,103.48	8	4,322.14	8		8		8		8		8		8	
1/4	3,670.07	1/4	3,889.29	1/4	4,108.04	1/4	4,326.65	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,674.64	1/2	3,893.85	1/2	4,112.60	1/2	4,331.16	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,679.21	3/4	3,898.41	3/4	4,117.16	3/4	4,335.68	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,683.78	9	3,902.96	9	4,121.71	9	4,340.19	9		9		9		9		9		9	
1/4	3,688.35	1/4	3,907.52	1/4	4,126.27	1/4	4,344.70	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,692.92	1/2	3,912.08	1/2	4,130.83	1/2	4,349.21	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,697.49	3/4	3,916.63	3/4	4,135.38	3/4	4,353.72	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,702.06	10	3,921.19	10	4,139.94	10	4,358.24	10		10		10		10		10		10	
1/4	3,706.63	1/4	3,925.75	1/4	4,144.50	1/4	4,362.75	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,711.20	1/2	3,930.31	1/2	4,149.06	1/2	4,367.26	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,715.77	3/4	3,934.86	3/4	4,153.61	3/4	4,371.77	3/4		3/4		3/4		3/4		3/4		3/4	
11	3,720.34	11	3,939.42	11	4,158.17	11	4,376.29	11		11		11		11		11		11	
1/4	3,724.91	1/4	3,943.98	1/4	4,162.73	1/4	4,380.80	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,729.48	1/2	3,948.54	1/2	4,167.29	1/2	4,385.31	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,734.05	3/4	3,953.09	3/4	4,171.84	3/4	4,389.83	3/4		3/4		3/4		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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