BARGE "E2MS 311"

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	12-1/4	- 12-1/4
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	10-1/8	- 10-1/8	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"

July 18, 2018

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

http://www.pmacorp.net

BARGE "E2MS 311"

1 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	262.77	0	607.85	0	964.15	0	1,320.91	0	1,678.71	0	2,036.51	0	2,394.31	0	2,752.07	0	3,109.77
1/4	4.09	1/4	269.53	1/4	615.30	1/4	971.54	1/4	1,328.36	1/4	1,686.16	1/4	2,043.97	1/4	2,401.77	1/4	2,759.53	1/4	3,117.23
1/2	5.96	1/2	276.28	1/2	622.76	1/2	978.94	1/2	1,335.82	1/2	1,693.62	1/2	2,051.42	1/2	2,409.22	1/2	2,766.98	1/2	3,124.68
3/4	7.82	3/4	283.04	3/4	630.21	3/4	986.33	3/4	1,343.27	3/4	1,701.07	3/4	2,058.87	3/4	2,416.68	3/4	2,774.43	3/4	3,132.13
1	9.68	1	289.79	1	637.66	1	993.73	1	1,350.73	1	1,708.53	1	2,066.33	1	2,424.13	1	2,781.88	1	3,139.58
1/4	12.60	1/4	296.63	1/4	645.12	1/4	1,001.12	1/4	1,358.18	1/4	1,715.98	1/4	2,073.78	1/4	2,431.58	1/4	2,789.33	1/4	3,147.03
1/2	15.52	1/2	303.48	1/2	652.57	1/2	1,008.52	1/2	1,365.63	1/2	1,723.44	1/2	2,081.24	1/2	2,439.04	1/2	2,796.79	1/2	3,154.49
3/4	18.44	3/4	310.32	3/4	660.03	3/4	1,015.91	3/4	1,373.09	3/4	1,730.89	3/4	2,088.69	3/4	2,446.49	3/4	2,804.24	3/4	3,161.94
2	21.35	2	317.16	2	667.48	2	1,023.31	2	1,380.54	2	1,738.34	2	2,096.15	2	2,453.95	2	2,811.69	2	3,169.39
1/4	25.37	1/4	324.09	1/4	674.93	1/4	1,030.71	1/4	1,388.00	1/4	1,745.80	1/4	2,103.60	1/4	2,461.40	1/4	2,819.14	1/4	3,176.84
1/2	29.39	1/2	331.02	1/2	682.39	1/2	1,038.11	1/2	1,395.45	1/2	1,753.25	1/2	2,111.05	1/2	2,468.86	1/2	2,826.59	1/2	3,184.30
3/4	33.40	3/4	337.95	3/4	689.84	3/4	1,045.51	3/4	1,402.90	3/4	1,760.71	3/4	2,118.51	3/4	2,476.31	3/4	2,834.05	3/4	3,191.75
3	37.42	3	344.88	3	697.30	3	1,052.91	3	1,410.36	3	1,768.16	3	2,125.96	3	2,483.76	3	2,841.50	3	3,199.20
1/4	42.90	1/4	351.89	1/4	704.75	1/4	1,060.32	1/4	1,417.81	1/4	1,775.61	1/4	2,133.42	1/4	2,491.22	1/4	2,848.95	1/4	3,206.65
1/2	48.38	1/2	358.91	1/2	712.20	1/2	1,067.74	1/2	1,425.27	1/2	1,783.07	1/2	2,140.87	1/2	2,498.67	1/2	2,856.40	1/2	3,214.10
3/4	53.86	3/4	365.93	3/4	719.66	3/4	1,075.15	3/4	1,432.72	3/4	1,790.52	3/4	2,148.32	3/4	2,506.13	3/4	2,863.85	3/4	3,221.56
4	59.35	4	372.95	4	727.11	4	1,082.56	4	1,440.18	4	1,797.98	4	2,155.78	4	2,513.58	4	2,871.31	4	3,229.01
1/4	65.38	1/4	380.05	1/4	734.57	1/4	1,089.99	1/4	1,447.63	1/4	1,805.43	1/4	2,163.23	1/4	2,521.03	1/4	2,878.76	1/4	3,236.46
1/2	71.41	1/2	387.15	1/2	742.02	1/2	1,097.41	1/2	1,455.08	1/2	1,812.89	1/2	2,170.69	1/2	2,528.49	1/2	2,886.21	1/2	3,243.91
3/4	77.44	3/4	394.26	3/4	749.47	3/4	1,104.83	3/4	1,462.54	3/4	1,820.34	3/4	2,178.14	3/4	2,535.94	3/4	2,893.66	3/4	3,251.36
5	83.47	5	401.36	5	756.93	5	1,112.25	5	1,469.99	5	1,827.79	5	2,185.60	5	2,543.40	5	2,901.12	5	3,258.82
1/4	89.61	1/4	408.55	1/4	764.36	1/4	1,119.69	1/4	1,477.45	1/4	1,835.25	1/4	2,193.05	1/4	2,550.85	1/4	2,908.57	1/4	3,266.27
1/2	95.74	1/2	415.75	1/2	771.78	1/2	1,127.13	1/2	1,484.90	1/2	1,842.70	1/2	2,200.50	1/2	2,558.31	1/2	2,916.02	1/2	3,273.72
3/4	101.88	3/4	422.94	3/4	779.21	3/4	1,134.57	3/4	1,492.36	3/4	1,850.16	3/4	2,207.96	3/4	2,565.76	3/4	2,923.47	3/4	3,281.17
6	108.02	6	430.13	6	786.64	6	1,142.01	6	1,499.81	6	1,857.61	6	2,215.41	6	2,573.21	6	2,930.92	6	3,288.62
1/4	114.25	1/4	437.41	1/4	794.04	1/4	1,149.46	1/4	1,507.26	1/4	1,865.07	1/4	2,222.87	1/4	2,580.67	1/4	2,938.38	1/4	3,296.08
1/2	120.48	1/2	444.69	1/2	801.44	1/2	1,156.92	1/2	1,514.72	1/2	1,872.52	1/2	2,230.32	1/2	2,588.12	1/2	2,945.83	1/2	3,303.53
3/4	126.70	3/4	451.97	3/4	808.84	3/4	1,164.37	3/4	1,522.17	3/4	1,879.97	3/4	2,237.78	3/4	2,595.58	3/4	2,953.28	3/4	3,310.98
7	132.93	7	459.25	7	816.24	7	1,171.82	7	1,529.63	7	1,887.43	7	2,245.23	7	2,603.03	7	2,960.73	7	3,318.43
1/4	139.25	1/4	466.61	1/4	823.64	1/4	1,179.28	1/4	1,537.08	1/4	1,894.88	1/4	2,252.68	1/4	2,610.48	1/4	2,968.18	1/4	3,325.89
1/2	145.57	1/2	473.98	1/2	831.03	1/2	1,186.73	1/2	1,544.53	1/2	1,902.34	1/2	2,260.14	1/2	2,617.94	1/2	2,975.64	1/2	3,333.34
3/4	151.89	3/4	481.35	3/4	838.43	3/4	1,194.19	3/4	1,551.99	3/4	1,909.79	3/4	2,267.59	3/4	2,625.39	3/4	2,983.09	3/4	3,340.79
8	158.20	8	488.71	8	845.82	8	1,201.64	8	1,559.44	8	1,917.24	8	2,275.05	8	2,632.84	8	2,990.54	8	3,348.24
1/4	164.61	1/4	496.14	1/4	853.22	1/4	1,209.10	1/4	1,566.90	1/4	1,924.70	1/4	2,282.50	1/4	2,640.29	1/4	2,997.99	1/4	3,355.69
1/2	171.01	1/2	503.58	1/2	860.61	1/2	1,216.55	1/2	1,574.35	1/2	1,932.15	1/2	2,289.95	1/2	2,647.74	1/2	3,005.44	1/2	3,363.15
3/4	177.42	3/4	511.01	3/4	868.01	3/4	1,224.00	3/4	1,581.81	3/4	1,939.61	3/4	2,297.41	3/4	2,655.20	3/4	3,012.90	3/4	3,370.60
9	183.82	9	518.44	9	875.40	9	1,231.46	9	1,589.26	9	1,947.06	9	2,304.86	9	2,662.65	9	3,020.35	9	3,378.05
1/4	190.31	1/4	525.89	1/4	882.80	1/4	1,238.91	1/4	1,596.71	1/4	1,954.52	1/4	2,312.32	1/4	2,670.10	1/4	3,027.80	1/4	3,385.50
1/2	196.80	1/2	533.34	1/2	890.19	1/2	1,246.37	1/2	1,604.17	1/2	1,961.97	1/2	2,319.77	1/2	2,677.55	1/2	3,035.25	1/2	3,392.95
3/4	203.30	3/4	540.80	3/4	897.59	3/4	1,253.82	3/4	1,611.62	3/4	1,969.42	3/4	2,327.23	3/4	2,685.00	3/4	3,042.71	3/4	3,400.41
10	209.79	10	548.25	10	904.98	10	1,261.28	10	1,619.08	10	1,976.88	10	2,334.68	10	2,692.46	10	3,050.16	10	3,407.86
1/4	216.37	1/4	555.70	1/4	912.38	1/4	1,268.73	1/4	1,626.53	1/4	1,984.33	1/4	2,342.13	1/4	2,699.91	1/4	3,057.61	1/4	3,415.31
1/2	222.95	1/2	563.14	1/2	919.78	1/2	1,276.18	1/2	1,633.98	1/2	1,991.79	1/2	2,349.59	1/2	2,707.36	1/2	3,065.06	1/2	3,422.76
3/4	229.53	3/4	570.59	3/4	927.17	3/4	1,283.64	3/4	1,641.44	3/4	1,999.24	3/4	2,357.04	3/4	2,714.81	3/4	3,072.51	3/4	3,430.21
11	236.11	11	578.04	11	934.57	11	1,291.09	11	1,648.89	11	2,006.69	11	2,364.50	11	2,722.27	11	3,079.97	11	3,437.67
1/4	242.77	1/4	585.49	1/4	941.96	1/4	1,298.55	1/4	1,656.35	1/4	2,014.15	1/4	2,371.95	1/4	2,729.72	1/4	3,087.42	1/4	3,445.12
1/2	249.44	1/2	592.94	1/2	949.36	1/2	1,306.00	1/2	1,663.80	1/2	2,021.60	1/2	2,379.40	1/2	2,737.17	1/2	3,094.87	1/2	3,452.57
3/4	256.11	3/4	600.40	3/4	956.75	3/4	1,313.45	3/4	1,671.26	3/4	2,029.06	3/4	2,386.86	3/4	2,744.62	3/4	3,102.32	3/4	3,460.02

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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BARGE "E2MS 311"

1 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	3,467.47	0	3,825.18	0	4,182.32	0	4,538.98	0	4,894.32	0		0		0		0		0	
1/4	3,474.93	1/4	3,832.63	1/4	4,189.75	1/4	4,546.41	1/4	4,901.67	1/4		1/4		1/4		1/4		1/4	
1/2	3,482.38	1/2	3,840.08	1/2	4,197.18	1/2	4,553.84	1/2	4,909.02	1/2		1/2		1/2		1/2		1/2	
3/4	3,489.83	3/4	3,847.53	3/4	4,204.61	3/4	4,561.27	3/4	4,916.37	3/4		3/4		3/4		3/4		3/4	
1	3,497.28	1	3,854.98	1	4,212.04	1	4,568.70	1	4,923.72	1		1		1		1		1	
1/4	3,504.74	1/4	3,862.44	1/4	4,219.47	1/4	4,576.13	1/4	4,931.03	1/4		1/4		1/4		1/4		1/4	
1/2	3,512.19	1/2	3,869.89	1/2	4,226.90	1/2	4,583.56	1/2	4,938.35	1/2		1/2		1/2		1/2		1/2	
3/4	3,519.64	3/4	3,877.34	3/4	4,234.33	3/4	4,590.99	3/4	4,945.66	3/4		3/4		3/4		3/4		3/4	
2	3,527.09	2	3,884.79	2	4,241.76	2	4,598.42	2	4,952.98	2		2		2		2		2	
1/4	3,534.54	1/4	3,892.24	1/4	4,249.19	1/4	4,605.85	1/4	4,959.84	1/4		1/4		1/4		1/4		1/4	
1/2	3,542.00	1/2	3,899.70	1/2	4,256.62	1/2	4,613.28	1/2	4,966.70	1/2		1/2		1/2		1/2		1/2	
3/4	3,549.45	3/4	3,907.15	3/4	4,264.05	3/4	4,620.71	3/4	4,973.55	3/4		3/4		3/4		3/4		3/4	
3	3,556.90	3	3,914.60	3	4,271.48	3	4,628.14	3	4,980.41	3		3		3		3		3	
1/4	3,564.35	1/4	3,922.05	1/4	4,278.91	1/4	4,635.57	1/4	4,986.22	1/4		1/4		1/4		1/4		1/4	
1/2	3,571.80	1/2	3,929.51	1/2	4,286.34	1/2	4,643.00	1/2	4,992.02	1/2		1/2		1/2		1/2		1/2	
3/4	3,579.26	3/4	3,936.96	3/4	4,293.77	3/4	4,650.43	3/4	4,997.83	3/4		3/4		3/4		3/4		3/4	
4	3,586.71	4	3,944.41	4	4,301.20	4	4,657.86	4	5,003.63	4		4		4		4		4	
1/4	3,594.16	1/4	3,951.86	1/4	4,308.64	1/4	4,665.29	1/4	5,008.20	1/4		1/4		1/4		1/4		1/4	
1/2	3,601.61	1/2	3,959.31	1/2	4,316.07	1/2	4,672.72	1/2	5,012.76	1/2		1/2		1/2		1/2		1/2	
3/4	3,609.06	3/4	3,966.77	3/4	4,323.50	3/4	4,680.16	3/4	5,017.32	3/4		3/4		3/4		3/4		3/4	
5	3,616.52	5	3,974.22	5	4,330.93	5	4,687.59	5	5,021.89	5		5		5		5		5	
1/4	3,623.97	1/4	3,981.66	1/4	4,338.36	1/4	4,695.02	1/4	5,025.21	1/4		1/4		1/4		1/4		1/4	
1/2	3,631.42	1/2	3,989.10	1/2	4,345.79	1/2	4,702.45	1/2	5,028.53	1/2		1/2		1/2		1/2		1/2	
3/4	3,638.87	3/4	3,996.55	3/4	4,353.22	3/4	4,709.88	3/4	5,031.85	3/4		3/4		3/4		3/4		3/4	
6	3,646.33	6	4,003.99	6	4,360.65	6	4,717.31	6	5,035.17	6		6		6		6		6	
1/4	3,653.78	1/4	4,011.42	1/4	4,368.08	1/4	4,724.74	1/4	5,037.25	1/4		1/4		1/4		1/4		1/4	
1/2	3,661.23	1/2	4,018.85	1/2	4,375.51	1/2	4,732.17	1/2	5,039.33	1/2		1/2		1/2		1/2		1/2	
3/4	3,668.68	3/4	4,026.28	3/4	4,382.94	3/4	4,739.60	3/4	5,041.41	3/4		3/4		3/4		3/4		3/4	
7	3,676.13	7	4,033.71	7	4,390.37	7	4,747.03	7	5,043.49	7		7		7		7		7	
1/4	3,683.59	1/4	4,041.14	1/4	4,397.80	1/4	4,754.42	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,691.04	1/2	4,048.57	1/2	4,405.23	1/2	4,761.82	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,698.49	3/4	4,056.00	3/4	4,412.66	3/4	4,769.21	3/4		3/4		3/4		3/4		3/4		3/4	
8	3,705.94	8	4,063.43	8	4,420.09	8	4,776.60	8		8		8		8		8		8	
1/4	3,713.39	1/4	4,070.86	1/4	4,427.52	1/4	4,783.96	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,720.85	1/2	4,078.29	1/2	4,434.95	1/2	4,791.32	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,728.30	3/4	4,085.72	3/4	4,442.38	3/4	4,798.67	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,735.75	9	4,093.15	9	4,449.81	9	4,806.03	9		9		9		9		9		9	
1/4	3,743.20	1/4	4,100.58	1/4	4,457.24	1/4	4,813.39	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,750.65	1/2	4,108.01	1/2	4,464.67	1/2	4,820.74	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,758.11	3/4	4,115.44	3/4	4,472.10	3/4	4,828.10	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,765.56	10	4,122.87	10	4,479.53	10	4,835.46	10		10		10		10		10		10	
1/4	3,773.01	1/4	4,130.31	1/4	4,486.96	1/4	4,842.82	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,780.46	1/2	4,137.74	1/2	4,494.40	1/2	4,850.17	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,787.92	3/4	4,145.17	3/4	4,501.83	3/4	4,857.53	3/4		3/4		3/4		3/4		3/4		3/4	
11	3,795.37	11	4,152.60	11	4,509.26	11	4,864.89	11		11		11		11		11		11	
1/4	3,802.82	1/4	4,160.03	1/4	4,516.69	1/4	4,872.25	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,810.27	1/2	4,167.46	1/2	4,524.12	1/2	4,879.60	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,817.72	3/4	4,174.89	3/4	4,531.55	3/4	4,886.96	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 07/18/2018 CL
CALCULATED: 07/19/2018 CL
PRINTED: 07/20/2018 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 07/2018

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

BARGE "E2MS 311"

1 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	262.61	0	607.54	0	964.84	0	1,322.26	0	1,679.87	0	2,037.48	0	2,395.09	0	2,752.65	0	3,110.16
1/4	4.09	1/4	269.36	1/4	614.99	1/4	972.27	1/4	1,329.71	1/4	1,687.32	1/4	2,044.93	1/4	2,402.54	1/4	2,760.10	1/4	3,117.61
1/2	5.95	1/2	276.11	1/2	622.44	1/2	979.71	1/2	1,337.16	1/2	1,694.77	1/2	2,052.38	1/2	2,409.99	1/2	2,767.55	1/2	3,125.06
3/4	7.82	3/4	282.86	3/4	629.89	3/4	987.15	3/4	1,344.61	3/4	1,702.22	3/4	2,059.83	3/4	2,417.44	3/4	2,775.00	3/4	3,132.51
1	9.68	1	289.61	1	637.34	1	994.58	1	1,352.06	1	1,709.67	1	2,067.28	1	2,424.89	1	2,782.45	1	3,139.96
1/4	12.59	1/4	296.45	1/4	644.79	1/4	1,002.02	1/4	1,359.51	1/4	1,717.12	1/4	2,074.73	1/4	2,432.34	1/4	2,789.89	1/4	3,147.40
1/2	15.51	1/2	303.29	1/2	652.24	1/2	1,009.45	1/2	1,366.96	1/2	1,724.57	1/2	2,082.18	1/2	2,439.79	1/2	2,797.34	1/2	3,154.85
3/4	18.43	3/4	310.13	3/4	659.69	3/4	1,016.89	3/4	1,374.41	3/4	1,732.02	3/4	2,089.63	3/4	2,447.24	3/4	2,804.79	3/4	3,162.30
2	21.34	2	316.97	2	667.14	2	1,024.33	2	1,381.86	2	1,739.47	2	2,097.08	2	2,454.69	2	2,812.24	2	3,169.75
1/4	25.35	1/4	323.89	1/4	674.59	1/4	1,031.77	1/4	1,389.31	1/4	1,746.92	1/4	2,104.53	1/4	2,462.14	1/4	2,819.69	1/4	3,177.20
1/2	29.37	1/2	330.82	1/2	682.04	1/2	1,039.21	1/2	1,396.76	1/2	1,754.37	1/2	2,111.98	1/2	2,469.59	1/2	2,827.14	1/2	3,184.64
3/4	33.38	3/4	337.74	3/4	689.49	3/4	1,046.65	3/4	1,404.21	3/4	1,761.82	3/4	2,119.43	3/4	2,477.04	3/4	2,834.58	3/4	3,192.09
3	37.39	3	344.67	3	696.94	3	1,054.09	3	1,411.66	3	1,769.27	3	2,126.88	3	2,484.49	3	2,842.03	3	3,199.54
1/4	42.87	1/4	351.68	1/4	704.39	1/4	1,061.53	1/4	1,419.11	1/4	1,776.72	1/4	2,134.33	1/4	2,491.94	1/4	2,849.48	1/4	3,206.99
1/2	48.35	1/2	358.69	1/2	711.84	1/2	1,068.98	1/2	1,426.56	1/2	1,784.17	1/2	2,141.78	1/2	2,499.39	1/2	2,856.93	1/2	3,214.44
3/4	53.83	3/4	365.71	3/4	719.29	3/4	1,076.42	3/4	1,434.01	3/4	1,791.62	3/4	2,149.23	3/4	2,506.84	3/4	2,864.38	3/4	3,221.88
4	59.31	4	372.72	4	726.74	4	1,083.87	4	1,441.46	4	1,799.07	4	2,156.68	4	2,514.29	4	2,871.82	4	3,229.33
1/4	65.34	1/4	379.82	1/4	734.19	1/4	1,091.31	1/4	1,448.92	1/4	1,806.52	1/4	2,164.13	1/4	2,521.74	1/4	2,879.27	1/4	3,236.78
1/2	71.36	1/2	386.92	1/2	741.64	1/2	1,098.76	1/2	1,456.37	1/2	1,813.97	1/2	2,171.58	1/2	2,529.19	1/2	2,886.72	1/2	3,244.23
3/4	77.39	3/4	394.02	3/4	749.09	3/4	1,106.21	3/4	1,463.82	3/4	1,821.43	3/4	2,179.03	3/4	2,536.64	3/4	2,894.17	3/4	3,251.68
5	83.42	5	401.12	5	756.54	5	1,113.66	5	1,471.27	5	1,828.88	5	2,186.48	5	2,544.09	5	2,901.62	5	3,259.12
1/4	89.55	1/4	408.31	1/4	763.99	1/4	1,121.11	1/4	1,478.72	1/4	1,836.33	1/4	2,193.94	1/4	2,551.54	1/4	2,909.06	1/4	3,266.57
1/2	95.68	1/2	415.50	1/2	771.44	1/2	1,128.56	1/2	1,486.17	1/2	1,843.78	1/2	2,201.39	1/2	2,558.99	1/2	2,916.51	1/2	3,274.02
3/4	101.82	3/4	422.68	3/4	778.90	3/4	1,136.01	3/4	1,493.62	3/4	1,851.23	3/4	2,208.84	3/4	2,566.45	3/4	2,923.96	3/4	3,281.47
6	107.95	6	429.87	6	786.35	6	1,143.46	6	1,501.07	6	1,858.68	6	2,216.29	6	2,573.90	6	2,931.41	6	3,288.92
1/4	114.17	1/4	437.15	1/4	793.79	1/4	1,150.91	1/4	1,508.52	1/4	1,866.13	1/4	2,223.74	1/4	2,581.34	1/4	2,938.86	1/4	3,296.37
1/2	120.40	1/2	444.42	1/2	801.23	1/2	1,158.36	1/2	1,515.97	1/2	1,873.58	1/2	2,231.19	1/2	2,588.79	1/2	2,946.30	1/2	3,303.81
3/4	126.62	3/4	451.70	3/4	808.67	3/4	1,165.81	3/4	1,523.42	3/4	1,881.03	3/4	2,238.64	3/4	2,596.24	3/4	2,953.75	3/4	3,311.26
7	132.85	7	458.97	7	816.12	7	1,173.26	7	1,530.87	7	1,888.48	7	2,246.09	7	2,603.69	7	2,961.20	7	3,318.71
1/4	139.16	1/4	466.34	1/4	823.55	1/4	1,180.71	1/4	1,538.32	1/4	1,895.93	1/4	2,253.54	1/4	2,611.14	1/4	2,968.65	1/4	3,326.16
1/2	145.48	1/2	473.70	1/2	830.99	1/2	1,188.16	1/2	1,545.77	1/2	1,903.38	1/2	2,260.99	1/2	2,618.59	1/2	2,976.10	1/2	3,333.61
3/4	151.79	3/4	481.06	3/4	838.43	3/4	1,195.61	3/4	1,553.22	3/4	1,910.83	3/4	2,268.44	3/4	2,626.04	3/4	2,983.55	3/4	3,341.05
8	158.10	8	488.42	8	845.86	8	1,203.06	8	1,560.67	8	1,918.28	8	2,275.89	8	2,633.48	8	2,990.99	8	3,348.50
1/4	164.50	1/4	495.85	1/4	853.30	1/4	1,210.51	1/4	1,568.12	1/4	1,925.73	1/4	2,283.34	1/4	2,640.93	1/4	2,998.44	1/4	3,355.95
1/2	170.90	1/2	503.28	1/2	860.73	1/2	1,217.96	1/2	1,575.57	1/2	1,933.18	1/2	2,290.79	1/2	2,648.38	1/2	3,005.89	1/2	3,363.40
3/4	177.30	3/4	510.71	3/4	868.17	3/4	1,225.41	3/4	1,583.02	3/4	1,940.63	3/4	2,298.24	3/4	2,655.83	3/4	3,013.34	3/4	3,370.85
9	183.70	9	518.14	9	875.61	9	1,232.86	9	1,590.47	9	1,948.08	9	2,305.69	9	2,663.28	9	3,020.79	9	3,378.29
1/4	190.19	1/4	525.59	1/4	883.04	1/4	1,240.31	1/4	1,597.92	1/4	1,955.53	1/4	2,313.14	1/4	2,670.72	1/4	3,028.23	1/4	3,385.74
1/2	196.68	1/2	533.04	1/2	890.48	1/2	1,247.76	1/2	1,605.37	1/2	1,962.98	1/2	2,320.59	1/2	2,678.17	1/2	3,035.68	1/2	3,393.19
3/4	203.17	3/4	540.49	3/4	897.91	3/4	1,255.21	3/4	1,612.82	3/4	1,970.43	3/4	2,328.04	3/4	2,685.62	3/4	3,043.13	3/4	3,400.64
10	209.66	10	547.94	10	905.35	10	1,262.66	10	1,620.27	10	1,977.88	10	2,335.49	10	2,693.07	10	3,050.58	10	3,408.09
1/4	216.23	1/4	555.39	1/4	912.79	1/4	1,270.11	1/4	1,627.72	1/4	1,985.33	1/4	2,342.94	1/4	2,700.52	1/4	3,058.03	1/4	3,415.53
1/2	222.81	1/2	562.84	1/2	920.22	1/2	1,277.56	1/2	1,635.17	1/2	1,992.78	1/2	2,350.39	1/2	2,707.97	1/2	3,065.47	1/2	3,422.98
3/4	229.38	3/4	570.29	3/4	927.66	3/4	1,285.01	3/4	1,642.62	3/4	2,000.23	3/4	2,357.84	3/4	2,715.41	3/4	3,072.92	3/4	3,430.43
11	235.96	11	577.74	11	935.09	11	1,292.46	11	1,650.07	11	2,007.68	11	2,365.29	11	2,722.86	11	3,080.37	11	3,437.88
1/4	242.62	1/4	585.19	1/4	942.53	1/4	1,299.91	1/4	1,657.52	1/4	2,015.13	1/4	2,372.74	1/4	2,730.31	1/4	3,087.82	1/4	3,445.33
1/2	249.29	1/2	592.64	1/2	949.97	1/2	1,307.36	1/2	1,664.97	1/2	2,022.58	1/2	2,380.19	1/2	2,737.76	1/2	3,095.27	1/2	3,452.78
3/4	255.95	3/4	600.09	3/4	957.40	3/4	1,314.81	3/4	1,672.42	3/4	2,030.03	3/4	2,387.64	3/4	2,745.21	3/4	3,102.71	3/4	3,460.22

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 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 311"

1 STBD

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	3,467.67	0	3,825.18	0	4,182.13	0	4,538.59	0	4,893.74	0		0		0		0		0	
1/4	3,475.12	1/4	3,832.63	1/4	4,189.55	1/4	4,546.02	1/4	4,901.08	1/4		1/4		1/4		1/4		1/4	
1/2	3,482.57	1/2	3,840.08	1/2	4,196.98	1/2	4,553.45	1/2	4,908.43	1/2		1/2		1/2		1/2		1/2	
3/4	3,490.02	3/4	3,847.52	3/4	4,204.41	3/4	4,560.87	3/4	4,915.77	3/4		3/4		3/4		3/4		3/4	
1	3,497.46	1	3,854.97	1	4,211.83	1	4,568.30	1	4,923.12	1		1		1		1		1	
1/4	3,504.91	1/4	3,862.42	1/4	4,219.26	1/4	4,575.73	1/4	4,930.43	1/4		1/4		1/4		1/4		1/4	
1/2	3,512.36	1/2	3,869.87	1/2	4,226.68	1/2	4,583.15	1/2	4,937.74	1/2		1/2		1/2		1/2		1/2	
3/4	3,519.81	3/4	3,877.32	3/4	4,234.11	3/4	4,590.58	3/4	4,945.06	3/4		3/4		3/4		3/4		3/4	
2	3,527.26	2	3,884.77	2	4,241.54	2	4,598.00	2	4,952.37	2		2		2		2		2	
1/4	3,534.70	1/4	3,892.21	1/4	4,248.96	1/4	4,605.43	1/4	4,959.22	1/4		1/4		1/4		1/4		1/4	
1/2	3,542.15	1/2	3,899.66	1/2	4,256.39	1/2	4,612.86	1/2	4,966.08	1/2		1/2		1/2		1/2		1/2	
3/4	3,549.60	3/4	3,907.11	3/4	4,263.82	3/4	4,620.28	3/4	4,972.93	3/4		3/4		3/4		3/4		3/4	
3	3,557.05	3	3,914.56	3	4,271.24	3	4,627.71	3	4,979.78	3		3		3		3		3	
1/4	3,564.50	1/4	3,922.01	1/4	4,278.67	1/4	4,635.14	1/4	4,985.59	1/4		1/4		1/4		1/4		1/4	
1/2	3,571.95	1/2	3,929.45	1/2	4,286.10	1/2	4,642.56	1/2	4,991.39	1/2		1/2		1/2		1/2		1/2	
3/4	3,579.39	3/4	3,936.90	3/4	4,293.52	3/4	4,649.99	3/4	4,997.19	3/4		3/4		3/4		3/4		3/4	
4	3,586.84	4	3,944.35	4	4,300.95	4	4,657.42	4	5,002.99	4		4		4		4		4	
1/4	3,594.29	1/4	3,951.80	1/4	4,308.37	1/4	4,664.84	1/4	5,007.56	1/4		1/4		1/4		1/4		1/4	
1/2	3,601.74	1/2	3,959.25	1/2	4,315.80	1/2	4,672.27	1/2	5,012.12	1/2		1/2		1/2		1/2		1/2	
3/4	3,609.19	3/4	3,966.69	3/4	4,323.23	3/4	4,679.69	3/4	5,016.68	3/4		3/4		3/4		3/4		3/4	
5	3,616.63	5	3,974.14	5	4,330.65	5	4,687.12	5	5,021.24	5		5		5		5		5	
1/4	3,624.08	1/4	3,981.58	1/4	4,338.08	1/4	4,694.55	1/4	5,024.56	1/4		1/4		1/4		1/4		1/4	
1/2	3,631.53	1/2	3,989.02	1/2	4,345.51	1/2	4,701.97	1/2	5,027.88	1/2		1/2		1/2		1/2		1/2	
3/4	3,638.98	3/4	3,996.45	3/4	4,352.93	3/4	4,709.40	3/4	5,031.19	3/4		3/4		3/4		3/4		3/4	
6	3,646.43	6	4,003.89	6	4,360.36	6	4,716.83	6	5,034.51	6		6		6		6		6	
1/4	3,653.87	1/4	4,011.32	1/4	4,367.79	1/4	4,724.25	1/4	5,036.59	1/4		1/4		1/4		1/4		1/4	
1/2	3,661.32	1/2	4,018.75	1/2	4,375.21	1/2	4,731.68	1/2	5,038.67	1/2		1/2		1/2		1/2		1/2	
3/4	3,668.77	3/4	4,026.17	3/4	4,382.64	3/4	4,739.11	3/4	5,040.75	3/4		3/4		3/4		3/4		3/4	
7	3,676.22	7	4,033.60	7	4,390.07	7	4,746.53	7	5,042.82	7		7		7		7		7	
1/4	3,683.67	1/4	4,041.02	1/4	4,397.49	1/4	4,753.92	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,691.11	1/2	4,048.45	1/2	4,404.92	1/2	4,761.31	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,698.56	3/4	4,055.88	3/4	4,412.34	3/4	4,768.70	3/4		3/4		3/4		3/4		3/4		3/4	
8	3,706.01	8	4,063.30	8	4,419.77	8	4,776.09	8		8		8		8		8		8	
1/4	3,713.46	1/4	4,070.73	1/4	4,427.20	1/4	4,783.44	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,720.91	1/2	4,078.16	1/2	4,434.62	1/2	4,790.80	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,728.36	3/4	4,085.58	3/4	4,442.05	3/4	4,798.15	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,735.80	9	4,093.01	9	4,449.48	9	4,805.50	9		9		9		9		9		9	
1/4	3,743.25	1/4	4,100.44	1/4	4,456.90	1/4	4,812.85	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,750.70	1/2	4,107.86	1/2	4,464.33	1/2	4,820.21	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,758.15	3/4	4,115.29	3/4	4,471.76	3/4	4,827.56	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,765.60	10	4,122.71	10	4,479.18	10	4,834.91	10		10		10		10		10		10	
1/4	3,773.04	1/4	4,130.14	1/4	4,486.61	1/4	4,842.27	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,780.49	1/2	4,137.57	1/2	4,494.03	1/2	4,849.62	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,787.94	3/4	4,144.99	3/4	4,501.46	3/4	4,856.97	3/4		3/4		3/4		3/4		3/4		3/4	
11	3,795.39	11	4,152.42	11	4,508.89	11	4,864.33	11		11		11		11		11		11	
1/4	3,802.84	1/4	4,159.85	1/4	4,516.31	1/4	4,871.68	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,810.28	1/2	4,167.27	1/2	4,523.74	1/2	4,879.03	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,817.73	3/4	4,174.70	3/4	4,531.17	3/4	4,886.38	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 07/18/2018 CL
CALCULATED: 07/19/2018 CL
PRINTED: 07/20/2018 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 07/2018

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

BARGE "E2MS 311"

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	314.03	0	672.72	0	1,023.54	0	1,375.66	0	1,734.36	0	2,093.06	0	2,451.75	0	2,810.45	0	3,169.15
1/4	4.10	1/4	321.50	1/4	680.20	1/4	1,030.71	1/4	1,383.13	1/4	1,741.83	1/4	2,100.53	1/4	2,459.23	1/4	2,817.93	1/4	3,176.63
1/2	5.97	1/2	328.97	1/2	687.67	1/2	1,037.87	1/2	1,390.60	1/2	1,749.30	1/2	2,108.00	1/2	2,466.70	1/2	2,825.40	1/2	3,184.10
3/4	7.84	3/4	336.44	3/4	695.14	3/4	1,045.04	3/4	1,398.08	3/4	1,756.78	3/4	2,115.47	3/4	2,474.17	3/4	2,832.87	3/4	3,191.57
1	9.71	1	343.92	1	702.62	1	1,052.21	1	1,405.55	1	1,764.25	1	2,122.95	1	2,481.65	1	2,840.35	1	3,199.04
1/4	13.44	1/4	351.39	1/4	710.09	1/4	1,059.37	1/4	1,413.02	1/4	1,771.72	1/4	2,130.42	1/4	2,489.12	1/4	2,847.82	1/4	3,206.52
1/2	17.18	1/2	358.86	1/2	717.56	1/2	1,066.54	1/2	1,420.49	1/2	1,779.19	1/2	2,137.89	1/2	2,496.59	1/2	2,855.29	1/2	3,213.99
3/4	20.91	3/4	366.34	3/4	725.03	3/4	1,073.70	3/4	1,427.97	3/4	1,786.67	3/4	2,145.37	3/4	2,504.07	3/4	2,862.76	3/4	3,221.46
2	24.65	2	373.81	2	732.51	2	1,080.87	2	1,435.44	2	1,794.14	2	2,152.84	2	2,511.54	2	2,870.24	2	3,228.94
1/4	30.26	1/4	381.28	1/4	739.98	1/4	1,088.04	1/4	1,442.91	1/4	1,801.61	1/4	2,160.31	1/4	2,519.01	1/4	2,877.71	1/4	3,236.41
1/2	35.86	1/2	388.75	1/2	747.45	1/2	1,095.21	1/2	1,450.39	1/2	1,809.09	1/2	2,167.78	1/2	2,526.48	1/2	2,885.18	1/2	3,243.88
3/4	41.46	3/4	396.23	3/4	754.93	3/4	1,102.38	3/4	1,457.86	3/4	1,816.56	3/4	2,175.26	3/4	2,533.96	3/4	2,892.66	3/4	3,251.36
3	47.07	3	403.70	3	762.40	3	1,109.55	3	1,465.33	3	1,824.03	3	2,182.73	3	2,541.43	3	2,900.13	3	3,258.83
1/4	54.05	1/4	411.17	1/4	769.87	1/4	1,116.73	1/4	1,472.80	1/4	1,831.50	1/4	2,190.20	1/4	2,548.90	1/4	2,907.60	1/4	3,266.30
1/2	61.04	1/2	418.65	1/2	777.35	1/2	1,123.90	1/2	1,480.28	1/2	1,838.98	1/2	2,197.68	1/2	2,556.38	1/2	2,915.07	1/2	3,273.77
3/4	68.03	3/4	426.12	3/4	784.82	3/4	1,131.08	3/4	1,487.75	3/4	1,846.45	3/4	2,205.15	3/4	2,563.85	3/4	2,922.55	3/4	3,281.25
4	75.01	4	433.59	4	792.29	4	1,138.25	4	1,495.22	4	1,853.92	4	2,212.62	4	2,571.32	4	2,930.02	4	3,288.72
1/4	82.46	1/4	441.06	1/4	799.76	1/4	1,145.43	1/4	1,502.70	1/4	1,861.40	1/4	2,220.09	1/4	2,578.79	1/4	2,937.49	1/4	3,296.19
1/2	89.91	1/2	448.54	1/2	807.24	1/2	1,152.62	1/2	1,510.17	1/2	1,868.87	1/2	2,227.57	1/2	2,586.27	1/2	2,944.97	1/2	3,303.67
3/4	97.36	3/4	456.01	3/4	814.71	3/4	1,159.80	3/4	1,517.64	3/4	1,876.34	3/4	2,235.04	3/4	2,593.74	3/4	2,952.44	3/4	3,311.14
5	104.81	5	463.48	5	822.18	5	1,166.98	5	1,525.12	5	1,883.81	5	2,242.51	5	2,601.21	5	2,959.91	5	3,318.61
1/4	112.28	1/4	470.96	1/4	829.51	1/4	1,174.31	1/4	1,532.59	1/4	1,891.29	1/4	2,249.99	1/4	2,608.69	1/4	2,967.38	1/4	3,326.08
1/2	119.75	1/2	478.43	1/2	836.84	1/2	1,181.64	1/2	1,540.06	1/2	1,898.76	1/2	2,257.46	1/2	2,616.16	1/2	2,974.86	1/2	3,333.56
3/4	127.21	3/4	485.90	3/4	844.17	3/4	1,188.98	3/4	1,547.53	3/4	1,906.23	3/4	2,264.93	3/4	2,623.63	3/4	2,982.33	3/4	3,341.03
6	134.68	6	493.38	6	851.50	6	1,196.31	6	1,555.01	6	1,913.71	6	2,272.41	6	2,631.10	6	2,989.80	6	3,348.50
1/4	142.15	1/4	500.85	1/4	858.68	1/4	1,203.78	1/4	1,562.48	1/4	1,921.18	1/4	2,279.88	1/4	2,638.58	1/4	2,997.28	1/4	3,355.98
1/2	149.62	1/2	508.32	1/2	865.86	1/2	1,211.25	1/2	1,569.95	1/2	1,928.65	1/2	2,287.35	1/2	2,646.05	1/2	3,004.75	1/2	3,363.45
3/4	157.10	3/4	515.79	3/4	873.04	3/4	1,218.73	3/4	1,577.43	3/4	1,936.12	3/4	2,294.82	3/4	2,653.52	3/4	3,012.22	3/4	3,370.92
7	164.57	7	523.27	7	880.22	7	1,226.20	7	1,584.90	7	1,943.60	7	2,302.30	7	2,661.00	7	3,019.70	7	3,378.39
1/4	172.04	1/4	530.74	1/4	887.38	1/4	1,233.67	1/4	1,592.37	1/4	1,951.07	1/4	2,309.77	1/4	2,668.47	1/4	3,027.17	1/4	3,385.87
1/2	179.51	1/2	538.21	1/2	894.55	1/2	1,241.14	1/2	1,599.84	1/2	1,958.54	1/2	2,317.24	1/2	2,675.94	1/2	3,034.64	1/2	3,393.34
3/4	186.99	3/4	545.69	3/4	901.72	3/4	1,248.62	3/4	1,607.32	3/4	1,966.02	3/4	2,324.72	3/4	2,683.41	3/4	3,042.11	3/4	3,400.81
8	194.46	8	553.16	8	908.88	8	1,256.09	8	1,614.79	8	1,973.49	8	2,332.19	8	2,690.89	8	3,049.59	8	3,408.29
1/4	201.93	1/4	560.63	1/4	916.05	1/4	1,263.56	1/4	1,622.26	1/4	1,980.96	1/4	2,339.66	1/4	2,698.36	1/4	3,057.06	1/4	3,415.76
1/2	209.40	1/2	568.10	1/2	923.21	1/2	1,271.04	1/2	1,629.74	1/2	1,988.43	1/2	2,347.13	1/2	2,705.83	1/2	3,064.53	1/2	3,423.23
3/4	216.88	3/4	575.58	3/4	930.38	3/4	1,278.51	3/4	1,637.21	3/4	1,995.91	3/4	2,354.61	3/4	2,713.31	3/4	3,072.01	3/4	3,430.70
9	224.35	9	583.05	9	937.55	9	1,285.98	9	1,644.68	9	2,003.38	9	2,362.08	9	2,720.78	9	3,079.48	9	3,438.18
1/4	231.82	1/4	590.52	1/4	944.71	1/4	1,293.46	1/4	1,652.15	1/4	2,010.85	1/4	2,369.55	1/4	2,728.25	1/4	3,086.95	1/4	3,445.65
1/2	239.30	1/2	598.00	1/2	951.88	1/2	1,300.93	1/2	1,659.63	1/2	2,018.33	1/2	2,377.03	1/2	2,735.72	1/2	3,094.42	1/2	3,453.12
3/4	246.77	3/4	605.47	3/4	959.04	3/4	1,308.40	3/4	1,667.10	3/4	2,025.80	3/4	2,384.50	3/4	2,743.20	3/4	3,101.90	3/4	3,460.60
10	254.24	10	612.94	10	966.21	10	1,315.87	10	1,674.57	10	2,033.27	10	2,391.97	10	2,750.67	10	3,109.37	10	3,468.07
1/4	261.72	1/4	620.41	1/4	973.38	1/4	1,323.35	1/4	1,682.05	1/4	2,040.75	1/4	2,399.44	1/4	2,758.14	1/4	3,116.84	1/4	3,475.54
1/2	269.19	1/2	627.89	1/2	980.54	1/2	1,330.82	1/2	1,689.52	1/2	2,048.22	1/2	2,406.92	1/2	2,765.62	1/2	3,124.32	1/2	3,483.01
3/4	276.66	3/4	635.36	3/4	987.71	3/4	1,338.29	3/4	1,696.99	3/4	2,055.69	3/4	2,414.39	3/4	2,773.09	3/4	3,131.79	3/4	3,490.49
11	284.13	11	642.83	11	994.88	11	1,345.77	11	1,704.46	11	2,063.16	11	2,421.86	11	2,780.56	11	3,139.26	11	3,497.96
1/4	291.61	1/4	650.31	1/4	1,002.04	1/4	1,353.24	1/4	1,711.94	1/4	2,070.64	1/4	2,429.34	1/4	2,788.04	1/4	3,146.73	1/4	3,505.43
1/2	299.08	1/2	657.78	1/2	1,009.21	1/2	1,360.71	1/2	1,719.41	1/2	2,078.11	1/2	2,436.81	1/2	2,795.51	1/2	3,154.21	1/2	3,512.91
3/4	306.55	3/4	665.25	3/4	1,016.37	3/4	1,368.18	3/4	1,726.88	3/4	2,085.58	3/4	2,444.28	3/4	2,802.98	3/4	3,161.68	3/4	3,520.38

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 311"

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	3,527.85	0	3,886.55	0	4,244.66	0	4,602.31	0	4,958.77	0		0		0		0		0	
1/4	3,535.33	1/4	3,894.02	1/4	4,252.11	1/4	4,609.76	1/4	4,966.14	1/4		1/4		1/4		1/4		1/4	
1/2	3,542.80	1/2	3,901.50	1/2	4,259.56	1/2	4,617.21	1/2	4,973.52	1/2		1/2		1/2		1/2		1/2	
3/4	3,550.27	3/4	3,908.97	3/4	4,267.01	3/4	4,624.66	3/4	4,980.89	3/4		3/4		3/4		3/4		3/4	
1	3,557.74	1	3,916.44	1	4,274.46	1	4,632.11	1	4,988.27	1		1		1		1		1	
1/4	3,565.22	1/4	3,923.92	1/4	4,281.91	1/4	4,639.56	1/4	4,995.61	1/4		1/4		1/4		1/4		1/4	
1/2	3,572.69	1/2	3,931.39	1/2	4,289.36	1/2	4,647.01	1/2	5,002.95	1/2		1/2		1/2		1/2		1/2	
3/4	3,580.16	3/4	3,938.86	3/4	4,296.81	3/4	4,654.47	3/4	5,010.30	3/4		3/4		3/4		3/4		3/4	
2	3,587.64	2	3,946.33	2	4,304.26	2	4,661.92	2	5,017.64	2		2		2		2		2	
1/4	3,595.11	1/4	3,953.81	1/4	4,311.72	1/4	4,669.37	1/4	5,024.52	1/4		1/4		1/4		1/4		1/4	
1/2	3,602.58	1/2	3,961.28	1/2	4,319.17	1/2	4,676.82	1/2	5,031.40	1/2		1/2		1/2		1/2		1/2	
3/4	3,610.05	3/4	3,968.75	3/4	4,326.62	3/4	4,684.27	3/4	5,038.29	3/4		3/4		3/4		3/4		3/4	
3	3,617.53	3	3,976.23	3	4,334.07	3	4,691.72	3	5,045.17	3		3		3		3		3	
1/4	3,625.00	1/4	3,983.70	1/4	4,341.52	1/4	4,699.17	1/4	5,051.00	1/4		1/4		1/4		1/4		1/4	
1/2	3,632.47	1/2	3,991.17	1/2	4,348.97	1/2	4,706.62	1/2	5,056.82	1/2		1/2		1/2		1/2		1/2	
3/4	3,639.95	3/4	3,998.65	3/4	4,356.42	3/4	4,714.07	3/4	5,062.65	3/4		3/4		3/4		3/4		3/4	
4	3,647.42	4	4,006.12	4	4,363.87	4	4,721.53	4	5,068.48	4		4		4		4		4	
1/4	3,654.89	1/4	4,013.59	1/4	4,371.32	1/4	4,728.98	1/4	5,073.06	1/4		1/4		1/4		1/4		1/4	
1/2	3,662.36	1/2	4,021.06	1/2	4,378.78	1/2	4,736.43	1/2	5,077.65	1/2		1/2		1/2		1/2		1/2	
3/4	3,669.84	3/4	4,028.54	3/4	4,386.23	3/4	4,743.88	3/4	5,082.23	3/4		3/4		3/4		3/4		3/4	
5	3,677.31	5	4,036.01	5	4,393.68	5	4,751.33	5	5,086.81	5		5		5		5		5	
1/4	3,684.78	1/4	4,043.46	1/4	4,401.13	1/4	4,758.78	1/4	5,090.15	1/4		1/4		1/4		1/4		1/4	
1/2	3,692.26	1/2	4,050.92	1/2	4,408.58	1/2	4,766.23	1/2	5,093.48	1/2		1/2		1/2		1/2		1/2	
3/4	3,699.73	3/4	4,058.37	3/4	4,416.03	3/4	4,773.68	3/4	5,096.82	3/4		3/4		3/4		3/4		3/4	
6	3,707.20	6	4,065.83	6	4,423.48	6	4,781.13	6	5,100.16	6		6		6		6		6	
1/4	3,714.67	1/4	4,073.28	1/4	4,430.93	1/4	4,788.59	1/4	5,102.25	1/4		1/4		1/4		1/4		1/4	
1/2	3,722.15	1/2	4,080.73	1/2	4,438.38	1/2	4,796.04	1/2	5,104.34	1/2		1/2		1/2		1/2		1/2	
3/4	3,729.62	3/4	4,088.18	3/4	4,445.84	3/4	4,803.49	3/4	5,106.43	3/4		3/4		3/4		3/4		3/4	
7	3,737.09	7	4,095.63	7	4,453.29	7	4,810.94	7	5,108.52	7		7		7		7		7	
1/4	3,744.57	1/4	4,103.08	1/4	4,460.74	1/4	4,818.36	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,752.04	1/2	4,110.54	1/2	4,468.19	1/2	4,825.78	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,759.51	3/4	4,117.99	3/4	4,475.64	3/4	4,833.20	3/4		3/4		3/4		3/4		3/4		3/4	
8	3,766.99	8	4,125.44	8	4,483.09	8	4,840.61	8		8		8		8		8		8	
1/4	3,774.46	1/4	4,132.89	1/4	4,490.54	1/4	4,848.00	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,781.93	1/2	4,140.34	1/2	4,497.99	1/2	4,855.38	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,789.40	3/4	4,147.79	3/4	4,505.44	3/4	4,862.77	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,796.88	9	4,155.24	9	4,512.90	9	4,870.15	9		9		9		9		9		9	
1/4	3,804.35	1/4	4,162.69	1/4	4,520.35	1/4	4,877.54	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,811.82	1/2	4,170.14	1/2	4,527.80	1/2	4,884.92	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,819.30	3/4	4,177.60	3/4	4,535.25	3/4	4,892.31	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,826.77	10	4,185.05	10	4,542.70	10	4,899.69	10		10		10		10		10		10	
1/4	3,834.24	1/4	4,192.50	1/4	4,550.15	1/4	4,907.08	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,841.71	1/2	4,199.95	1/2	4,557.60	1/2	4,914.46	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,849.19	3/4	4,207.40	3/4	4,565.05	3/4	4,921.85	3/4		3/4		3/4		3/4		3/4		3/4	
11	3,856.66	11	4,214.85	11	4,572.50	11	4,929.23	11		11		11		11		11		11	
1/4	3,864.13	1/4	4,222.30	1/4	4,579.96	1/4	4,936.62	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,871.61	1/2	4,229.75	1/2	4,587.41	1/2	4,944.00	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,879.08	3/4	4,237.20	3/4	4,594.86	3/4	4,951.38	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 07/18/2018 CL
CALCULATED: 07/19/2018 CL
PRINTED: 07/20/2018 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 07/2018

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

BARGE "E2MS 311"

2 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	314.14	0	672.97	0	1,031.48	0	1,390.12	0	1,748.95	0	2,107.78	0	2,466.61	0	2,825.38	0	3,184.11
1/4	4.10	1/4	321.62	1/4	680.44	1/4	1,038.94	1/4	1,397.60	1/4	1,756.43	1/4	2,115.26	1/4	2,474.08	1/4	2,832.85	1/4	3,191.58
1/2	5.97	1/2	329.09	1/2	687.92	1/2	1,046.40	1/2	1,405.07	1/2	1,763.90	1/2	2,122.73	1/2	2,481.56	1/2	2,840.33	1/2	3,199.06
3/4	7.84	3/4	336.57	3/4	695.40	3/4	1,053.86	3/4	1,412.55	3/4	1,771.38	3/4	2,130.21	3/4	2,489.04	3/4	2,847.80	3/4	3,206.53
1	9.71	1	344.04	1	702.87	1	1,061.33	1	1,420.02	1	1,778.85	1	2,137.68	1	2,496.51	1	2,855.28	1	3,214.00
1/4	13.45	1/4	351.52	1/4	710.35	1/4	1,068.79	1/4	1,427.50	1/4	1,786.33	1/4	2,145.16	1/4	2,503.99	1/4	2,862.75	1/4	3,221.48
1/2	17.18	1/2	358.99	1/2	717.82	1/2	1,076.25	1/2	1,434.98	1/2	1,793.80	1/2	2,152.63	1/2	2,511.46	1/2	2,870.22	1/2	3,228.95
3/4	20.92	3/4	366.47	3/4	725.30	3/4	1,083.71	3/4	1,442.45	3/4	1,801.28	3/4	2,160.11	3/4	2,518.94	3/4	2,877.70	3/4	3,236.42
2	24.66	2	373.94	2	732.77	2	1,091.17	2	1,449.93	2	1,808.76	2	2,167.58	2	2,526.41	2	2,885.17	2	3,243.90
1/4	30.27	1/4	381.42	1/4	740.25	1/4	1,098.64	1/4	1,457.40	1/4	1,816.23	1/4	2,175.06	1/4	2,533.89	1/4	2,892.64	1/4	3,251.37
1/2	35.87	1/2	388.90	1/2	747.72	1/2	1,106.10	1/2	1,464.88	1/2	1,823.71	1/2	2,182.54	1/2	2,541.36	1/2	2,900.12	1/2	3,258.84
3/4	41.48	3/4	396.37	3/4	755.20	3/4	1,113.57	3/4	1,472.35	3/4	1,831.18	3/4	2,190.01	3/4	2,548.84	3/4	2,907.59	3/4	3,266.32
3	47.08	3	403.85	3	762.68	3	1,121.03	3	1,479.83	3	1,838.66	3	2,197.49	3	2,556.32	3	2,915.06	3	3,273.79
1/4	54.07	1/4	411.32	1/4	770.15	1/4	1,128.50	1/4	1,487.31	1/4	1,846.13	1/4	2,204.96	1/4	2,563.79	1/4	2,922.54	1/4	3,281.26
1/2	61.06	1/2	418.80	1/2	777.63	1/2	1,135.97	1/2	1,494.78	1/2	1,853.61	1/2	2,212.44	1/2	2,571.27	1/2	2,930.01	1/2	3,288.74
3/4	68.05	3/4	426.27	3/4	785.10	3/4	1,143.44	3/4	1,502.26	3/4	1,861.09	3/4	2,219.91	3/4	2,578.74	3/4	2,937.48	3/4	3,296.21
4	75.04	4	433.75	4	792.58	4	1,150.91	4	1,509.73	4	1,868.56	4	2,227.39	4	2,586.22	4	2,944.96	4	3,303.69
1/4	82.49	1/4	441.22	1/4	800.05	1/4	1,158.39	1/4	1,517.21	1/4	1,876.04	1/4	2,234.87	1/4	2,593.69	1/4	2,952.43	1/4	3,311.16
1/2	89.95	1/2	448.70	1/2	807.53	1/2	1,165.86	1/2	1,524.68	1/2	1,883.51	1/2	2,242.34	1/2	2,601.17	1/2	2,959.90	1/2	3,318.63
3/4	97.40	3/4	456.18	3/4	815.00	3/4	1,173.33	3/4	1,532.16	3/4	1,890.99	3/4	2,249.82	3/4	2,608.65	3/4	2,967.38	3/4	3,326.11
5	104.85	5	463.65	5	822.48	5	1,180.81	5	1,539.63	5	1,898.46	5	2,257.29	5	2,616.12	5	2,974.85	5	3,333.58
1/4	112.32	1/4	471.13	1/4	829.96	1/4	1,188.28	1/4	1,547.11	1/4	1,905.94	1/4	2,264.77	1/4	2,623.60	1/4	2,982.32	1/4	3,341.05
1/2	119.79	1/2	478.60	1/2	837.43	1/2	1,195.76	1/2	1,554.59	1/2	1,913.41	1/2	2,272.24	1/2	2,631.07	1/2	2,989.80	1/2	3,348.53
3/4	127.26	3/4	486.08	3/4	844.91	3/4	1,203.23	3/4	1,562.06	3/4	1,920.89	3/4	2,279.72	3/4	2,638.55	3/4	2,997.27	3/4	3,356.00
6	134.73	6	493.55	6	852.38	6	1,210.71	6	1,569.54	6	1,928.37	6	2,287.19	6	2,646.02	6	3,004.75	6	3,363.47
1/4	142.20	1/4	501.03	1/4	859.85	1/4	1,218.18	1/4	1,577.01	1/4	1,935.84	1/4	2,294.67	1/4	2,653.50	1/4	3,012.22	1/4	3,370.95
1/2	149.68	1/2	508.51	1/2	867.32	1/2	1,225.66	1/2	1,584.49	1/2	1,943.32	1/2	2,302.15	1/2	2,660.97	1/2	3,019.69	1/2	3,378.42
3/4	157.15	3/4	515.98	3/4	874.79	3/4	1,233.13	3/4	1,591.96	3/4	1,950.79	3/4	2,309.62	3/4	2,668.44	3/4	3,027.17	3/4	3,385.89
7	164.63	7	523.46	7	882.25	7	1,240.61	7	1,599.44	7	1,958.27	7	2,317.10	7	2,675.91	7	3,034.64	7	3,393.37
1/4	172.10	1/4	530.93	1/4	889.71	1/4	1,248.09	1/4	1,606.91	1/4	1,965.74	1/4	2,324.57	1/4	2,683.38	1/4	3,042.11	1/4	3,400.84
1/2	179.58	1/2	538.41	1/2	897.18	1/2	1,255.56	1/2	1,614.39	1/2	1,973.22	1/2	2,332.05	1/2	2,690.86	1/2	3,049.59	1/2	3,408.31
3/4	187.05	3/4	545.88	3/4	904.64	3/4	1,263.04	3/4	1,621.87	3/4	1,980.69	3/4	2,339.52	3/4	2,698.33	3/4	3,057.06	3/4	3,415.79
8	194.53	8	553.36	8	912.10	8	1,270.51	8	1,629.34	8	1,988.17	8	2,347.00	8	2,705.81	8	3,064.53	8	3,423.26
1/4	202.01	1/4	560.83	1/4	919.56	1/4	1,277.99	1/4	1,636.82	1/4	1,995.65	1/4	2,354.47	1/4	2,713.28	1/4	3,072.01	1/4	3,430.73
1/2	209.48	1/2	568.31	1/2	927.02	1/2	1,285.46	1/2	1,644.29	1/2	2,003.12	1/2	2,361.95	1/2	2,720.75	1/2	3,079.48	1/2	3,438.21
3/4	216.96	3/4	575.79	3/4	934.48	3/4	1,292.94	3/4	1,651.77	3/4	2,010.60	3/4	2,369.43	3/4	2,728.23	3/4	3,086.95	3/4	3,445.68
9	224.43	9	583.26	9	941.94	9	1,300.42	9	1,659.24	9	2,018.07	9	2,376.90	9	2,735.70	9	3,094.43	9	3,453.16
1/4	231.91	1/4	590.74	1/4	949.41	1/4	1,307.89	1/4	1,666.72	1/4	2,025.55	1/4	2,384.38	1/4	2,743.17	1/4	3,101.90	1/4	3,460.63
1/2	239.38	1/2	598.21	1/2	956.87	1/2	1,315.37	1/2	1,674.20	1/2	2,033.02	1/2	2,391.85	1/2	2,750.65	1/2	3,109.37	1/2	3,468.10
3/4	246.86	3/4	605.69	3/4	964.33	3/4	1,322.84	3/4	1,681.67	3/4	2,040.50	3/4	2,399.33	3/4	2,758.12	3/4	3,116.85	3/4	3,475.58
10	254.34	10	613.16	10	971.79	10	1,330.32	10	1,689.15	10	2,047.98	10	2,406.80	10	2,765.59	10	3,124.32	10	3,483.05
1/4	261.81	1/4	620.64	1/4	979.25	1/4	1,337.79	1/4	1,696.62	1/4	2,055.45	1/4	2,414.28	1/4	2,773.07	1/4	3,131.79	1/4	3,490.52
1/2	269.29	1/2	628.11	1/2	986.71	1/2	1,345.27	1/2	1,704.10	1/2	2,062.93	1/2	2,421.76	1/2	2,780.54	1/2	3,139.27	1/2	3,498.00
3/4	276.76	3/4	635.59	3/4	994.17	3/4	1,352.74	3/4	1,711.57	3/4	2,070.40	3/4	2,429.23	3/4	2,788.01	3/4	3,146.74	3/4	3,505.47
11	284.24	11	643.07	11	1,001.64	11	1,360.22	11	1,719.05	11	2,077.88	11	2,436.71	11	2,795.49	11	3,154.22	11	3,512.94
1/4	291.71	1/4	650.54	1/4	1,009.10	1/4	1,367.70	1/4	1,726.52	1/4	2,085.35	1/4	2,444.18	1/4	2,802.96	1/4	3,161.69	1/4	3,520.42
1/2	299.19	1/2	658.02	1/2	1,016.56	1/2	1,375.17	1/2	1,734.00	1/2	2,092.83	1/2	2,451.66	1/2	2,810.43	1/2	3,169.16	1/2	3,527.89
3/4	306.66	3/4	665.49	3/4	1,024.02	3/4	1,382.65	3/4	1,741.48	3/4	2,100.30	3/4	2,459.13	3/4	2,817.91	3/4	3,176.64	3/4	3,535.36

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 311"

2 STBD

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	3,542.84	0	3,901.57	0	4,259.72	0	4,617.40	0	4,973.77	0		0		0		0		0	
1/4	3,550.31	1/4	3,909.04	1/4	4,267.17	1/4	4,624.85	1/4	4,981.14	1/4		1/4		1/4		1/4		1/4	
1/2	3,557.78	1/2	3,916.51	1/2	4,274.62	1/2	4,632.30	1/2	4,988.51	1/2		1/2		1/2		1/2		1/2	
3/4	3,565.26	3/4	3,923.99	3/4	4,282.07	3/4	4,639.75	3/4	4,995.89	3/4		3/4		3/4		3/4		3/4	
1	3,572.73	1	3,931.46	1	4,289.53	1	4,647.21	1	5,003.26	1		1		1		1		1	
1/4	3,580.20	1/4	3,938.93	1/4	4,296.98	1/4	4,654.66	1/4	5,010.60	1/4		1/4		1/4		1/4		1/4	
1/2	3,587.68	1/2	3,946.41	1/2	4,304.43	1/2	4,662.11	1/2	5,017.93	1/2		1/2		1/2		1/2		1/2	
3/4	3,595.15	3/4	3,953.88	3/4	4,311.88	3/4	4,669.56	3/4	5,025.27	3/4		3/4		3/4		3/4		3/4	
2	3,602.63	2	3,961.35	2	4,319.33	2	4,677.01	2	5,032.61	2		2		2		2		2	
1/4	3,610.10	1/4	3,968.83	1/4	4,326.78	1/4	4,684.47	1/4	5,039.49	1/4		1/4		1/4		1/4		1/4	
1/2	3,617.57	1/2	3,976.30	1/2	4,334.24	1/2	4,691.92	1/2	5,046.36	1/2		1/2		1/2		1/2		1/2	
3/4	3,625.05	3/4	3,983.77	3/4	4,341.69	3/4	4,699.37	3/4	5,053.24	3/4		3/4		3/4		3/4		3/4	
3	3,632.52	3	3,991.25	3	4,349.14	3	4,706.82	3	5,060.12	3		3		3		3		3	
1/4	3,639.99	1/4	3,998.72	1/4	4,356.59	1/4	4,714.27	1/4	5,065.94	1/4		1/4		1/4		1/4		1/4	
1/2	3,647.47	1/2	4,006.19	1/2	4,364.04	1/2	4,721.72	1/2	5,071.76	1/2		1/2		1/2		1/2		1/2	
3/4	3,654.94	3/4	4,013.67	3/4	4,371.49	3/4	4,729.18	3/4	5,077.59	3/4		3/4		3/4		3/4		3/4	
4	3,662.41	4	4,021.14	4	4,378.95	4	4,736.63	4	5,083.41	4		4		4		4		4	
1/4	3,669.89	1/4	4,028.61	1/4	4,386.40	1/4	4,744.08	1/4	5,087.99	1/4		1/4		1/4		1/4		1/4	
1/2	3,677.36	1/2	4,036.09	1/2	4,393.85	1/2	4,751.53	1/2	5,092.56	1/2		1/2		1/2		1/2		1/2	
3/4	3,684.83	3/4	4,043.56	3/4	4,401.30	3/4	4,758.98	3/4	5,097.14	3/4		3/4		3/4		3/4		3/4	
5	3,692.31	5	4,051.04	5	4,408.75	5	4,766.43	5	5,101.72	5		5		5		5		5	
1/4	3,699.78	1/4	4,058.50	1/4	4,416.20	1/4	4,773.89	1/4	5,105.05	1/4		1/4		1/4		1/4		1/4	
1/2	3,707.25	1/2	4,065.96	1/2	4,423.66	1/2	4,781.34	1/2	5,108.38	1/2		1/2		1/2		1/2		1/2	
3/4	3,714.73	3/4	4,073.42	3/4	4,431.11	3/4	4,788.79	3/4	5,111.71	3/4		3/4		3/4		3/4		3/4	
6	3,722.20	6	4,080.88	6	4,438.56	6	4,796.24	6	5,115.04	6		6		6		6		6	
1/4	3,729.67	1/4	4,088.33	1/4	4,446.01	1/4	4,803.69	1/4	5,117.13	1/4		1/4		1/4		1/4		1/4	
1/2	3,737.15	1/2	4,095.78	1/2	4,453.46	1/2	4,811.14	1/2	5,119.21	1/2		1/2		1/2		1/2		1/2	
3/4	3,744.62	3/4	4,103.23	3/4	4,460.91	3/4	4,818.60	3/4	5,121.29	3/4		3/4		3/4		3/4		3/4	
7	3,752.10	7	4,110.68	7	4,468.37	7	4,826.05	7	5,123.38	7		7		7		7		7	
1/4	3,759.57	1/4	4,118.14	1/4	4,475.82	1/4	4,833.46	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,767.04	1/2	4,125.59	1/2	4,483.27	1/2	4,840.88	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,774.52	3/4	4,133.04	3/4	4,490.72	3/4	4,848.30	3/4		3/4		3/4		3/4		3/4		3/4	
8	3,781.99	8	4,140.49	8	4,498.17	8	4,855.71	8		8		8		8		8		8	
1/4	3,789.46	1/4	4,147.94	1/4	4,505.62	1/4	4,863.09	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,796.94	1/2	4,155.39	1/2	4,513.08	1/2	4,870.47	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,804.41	3/4	4,162.85	3/4	4,520.53	3/4	4,877.85	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,811.88	9	4,170.30	9	4,527.98	9	4,885.22	9		9		9		9		9		9	
1/4	3,819.36	1/4	4,177.75	1/4	4,535.43	1/4	4,892.60	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,826.83	1/2	4,185.20	1/2	4,542.88	1/2	4,899.98	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,834.30	3/4	4,192.65	3/4	4,550.33	3/4	4,907.36	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,841.78	10	4,200.10	10	4,557.79	10	4,914.74	10		10		10		10		10		10	
1/4	3,849.25	1/4	4,207.56	1/4	4,565.24	1/4	4,922.12	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,856.72	1/2	4,215.01	1/2	4,572.69	1/2	4,929.50	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,864.20	3/4	4,222.46	3/4	4,580.14	3/4	4,936.87	3/4		3/4		3/4		3/4		3/4		3/4	
11	3,871.67	11	4,229.91	11	4,587.59	11	4,944.25	11		11		11		11		11		11	
1/4	3,879.14	1/4	4,237.36	1/4	4,595.04	1/4	4,951.63	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,886.62	1/2	4,244.81	1/2	4,602.50	1/2	4,959.01	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,894.09	3/4	4,252.27	3/4	4,609.95	3/4	4,966.39	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 07/18/2018 CL
CALCULATED: 07/19/2018 CL
PRINTED: 07/20/2018 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 07/2018

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

BARGE "E2MS 311"

3 PORT

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	312.94	0	669.87	0	1,018.93	0	1,370.11	0	1,726.80	0	2,082.70	0	2,439.29	0	2,795.62	0	3,151.92
1/4	4.09	1/4	320.38	1/4	677.31	1/4	1,026.07	1/4	1,377.55	1/4	1,734.23	1/4	2,090.12	1/4	2,446.71	1/4	2,803.04	1/4	3,159.34
1/2	5.95	1/2	327.82	1/2	684.74	1/2	1,033.21	1/2	1,384.98	1/2	1,741.65	1/2	2,097.53	1/2	2,454.14	1/2	2,810.47	1/2	3,166.77
3/4	7.81	3/4	335.25	3/4	692.18	3/4	1,040.35	3/4	1,392.41	3/4	1,749.07	3/4	2,104.95	3/4	2,461.56	3/4	2,817.89	3/4	3,174.19
1	9.67	1	342.69	1	699.62	1	1,047.49	1	1,399.84	1	1,756.50	1	2,112.37	1	2,468.98	1	2,825.31	1	3,181.61
1/4	13.40	1/4	350.12	1/4	707.05	1/4	1,054.63	1/4	1,407.27	1/4	1,763.91	1/4	2,119.80	1/4	2,476.41	1/4	2,832.73	1/4	3,189.02
1/2	17.12	1/2	357.56	1/2	714.49	1/2	1,061.77	1/2	1,414.70	1/2	1,771.33	1/2	2,127.22	1/2	2,483.83	1/2	2,840.16	1/2	3,196.43
3/4	20.85	3/4	365.00	3/4	721.92	3/4	1,068.91	3/4	1,422.13	3/4	1,778.74	3/4	2,134.65	3/4	2,491.26	3/4	2,847.58	3/4	3,203.84
2	24.57	2	372.43	2	729.36	2	1,076.05	2	1,429.56	2	1,786.16	2	2,142.08	2	2,498.68	2	2,855.00	2	3,211.25
1/4	30.15	1/4	379.87	1/4	736.80	1/4	1,083.23	1/4	1,436.99	1/4	1,793.57	1/4	2,149.51	1/4	2,506.10	1/4	2,862.43	1/4	3,218.64
1/2	35.74	1/2	387.30	1/2	744.23	1/2	1,090.40	1/2	1,444.42	1/2	1,800.99	1/2	2,156.93	1/2	2,513.53	1/2	2,869.85	1/2	3,226.04
3/4	41.32	3/4	394.74	3/4	751.67	3/4	1,097.58	3/4	1,451.86	3/4	1,808.40	3/4	2,164.36	3/4	2,520.95	3/4	2,877.27	3/4	3,233.43
3	46.91	3	402.18	3	759.10	3	1,104.75	3	1,459.29	3	1,815.81	3	2,171.79	3	2,528.38	3	2,884.70	3	3,240.83
1/4	53.87	1/4	409.61	1/4	766.54	1/4	1,111.96	1/4	1,466.72	1/4	1,823.23	1/4	2,179.22	1/4	2,535.80	1/4	2,892.12	1/4	3,248.22
1/2	60.84	1/2	417.05	1/2	773.98	1/2	1,119.17	1/2	1,474.15	1/2	1,830.64	1/2	2,186.64	1/2	2,543.23	1/2	2,899.54	1/2	3,255.62
3/4	67.80	3/4	424.48	3/4	781.41	3/4	1,126.38	3/4	1,481.58	3/4	1,838.06	3/4	2,194.07	3/4	2,550.65	3/4	2,906.96	3/4	3,263.01
4	74.76	4	431.92	4	788.85	4	1,133.59	4	1,489.01	4	1,845.47	4	2,201.50	4	2,558.07	4	2,914.39	4	3,270.41
1/4	82.19	1/4	439.36	1/4	796.25	1/4	1,140.81	1/4	1,496.44	1/4	1,852.89	1/4	2,208.93	1/4	2,565.50	1/4	2,921.81	1/4	3,277.80
1/2	89.61	1/2	446.79	1/2	803.66	1/2	1,148.03	1/2	1,503.87	1/2	1,860.30	1/2	2,216.35	1/2	2,572.92	1/2	2,929.23	1/2	3,285.20
3/4	97.04	3/4	454.23	3/4	811.06	3/4	1,155.24	3/4	1,511.30	3/4	1,867.72	3/4	2,223.78	3/4	2,580.35	3/4	2,936.66	3/4	3,292.59
5	104.46	5	461.66	5	818.47	5	1,162.46	5	1,518.73	5	1,875.13	5	2,231.21	5	2,587.77	5	2,944.08	5	3,299.98
1/4	111.90	1/4	469.10	1/4	825.73	1/4	1,169.79	1/4	1,526.17	1/4	1,882.55	1/4	2,238.64	1/4	2,595.19	1/4	2,951.50	1/4	3,307.38
1/2	119.34	1/2	476.54	1/2	833.00	1/2	1,177.12	1/2	1,533.60	1/2	1,889.96	1/2	2,246.07	1/2	2,602.62	1/2	2,958.92	1/2	3,314.77
3/4	126.79	3/4	483.97	3/4	840.27	3/4	1,184.44	3/4	1,541.03	3/4	1,897.38	3/4	2,253.49	3/4	2,610.04	3/4	2,966.35	3/4	3,322.17
6	134.23	6	491.41	6	847.54	6	1,191.77	6	1,548.46	6	1,904.79	6	2,260.92	6	2,617.47	6	2,973.77	6	3,329.56
1/4	141.67	1/4	498.84	1/4	854.69	1/4	1,199.20	1/4	1,555.89	1/4	1,912.20	1/4	2,268.35	1/4	2,624.89	1/4	2,981.19	1/4	3,336.95
1/2	149.12	1/2	506.28	1/2	861.84	1/2	1,206.63	1/2	1,563.32	1/2	1,919.62	1/2	2,275.78	1/2	2,632.31	1/2	2,988.62	1/2	3,344.35
3/4	156.57	3/4	513.72	3/4	868.99	3/4	1,214.06	3/4	1,570.75	3/4	1,927.03	3/4	2,283.21	3/4	2,639.74	3/4	2,996.04	3/4	3,351.74
7	164.01	7	521.15	7	876.14	7	1,221.49	7	1,578.18	7	1,934.45	7	2,290.64	7	2,647.16	7	3,003.46	7	3,359.13
1/4	171.46	1/4	528.59	1/4	883.28	1/4	1,228.93	1/4	1,585.61	1/4	1,941.86	1/4	2,298.08	1/4	2,654.59	1/4	3,010.88	1/4	3,366.52
1/2	178.91	1/2	536.02	1/2	890.42	1/2	1,236.36	1/2	1,593.04	1/2	1,949.28	1/2	2,305.51	1/2	2,662.01	1/2	3,018.31	1/2	3,373.90
3/4	186.36	3/4	543.46	3/4	897.56	3/4	1,243.79	3/4	1,600.48	3/4	1,956.69	3/4	2,312.94	3/4	2,669.43	3/4	3,025.73	3/4	3,381.29
8	193.81	8	550.90	8	904.70	8	1,251.22	8	1,607.91	8	1,964.11	8	2,320.37	8	2,676.85	8	3,033.15	8	3,388.68
1/4	201.25	1/4	558.33	1/4	911.84	1/4	1,258.65	1/4	1,615.34	1/4	1,971.52	1/4	2,327.81	1/4	2,684.28	1/4	3,040.58	1/4	3,395.94
1/2	208.70	1/2	565.77	1/2	918.98	1/2	1,266.08	1/2	1,622.77	1/2	1,978.94	1/2	2,335.24	1/2	2,691.70	1/2	3,048.00	1/2	3,403.21
3/4	216.15	3/4	573.20	3/4	926.12	3/4	1,273.51	3/4	1,630.20	3/4	1,986.35	3/4	2,342.67	3/4	2,699.12	3/4	3,055.42	3/4	3,410.48
9	223.60	9	580.64	9	933.26	9	1,280.94	9	1,637.63	9	1,993.77	9	2,350.11	9	2,706.55	9	3,062.84	9	3,417.75
1/4	231.04	1/4	588.08	1/4	940.40	1/4	1,288.37	1/4	1,645.06	1/4	2,001.18	1/4	2,357.54	1/4	2,713.97	1/4	3,070.27	1/4	3,424.66
1/2	238.49	1/2	595.51	1/2	947.54	1/2	1,295.80	1/2	1,652.49	1/2	2,008.59	1/2	2,364.97	1/2	2,721.39	1/2	3,077.69	1/2	3,431.58
3/4	245.94	3/4	602.95	3/4	954.68	3/4	1,303.24	3/4	1,659.92	3/4	2,016.01	3/4	2,372.41	3/4	2,728.81	3/4	3,085.11	3/4	3,438.49
10	253.39	10	610.38	10	961.82	10	1,310.67	10	1,667.35	10	2,023.42	10	2,379.84	10	2,736.24	10	3,092.54	10	3,445.41
1/4	260.83	1/4	617.82	1/4	968.96	1/4	1,318.10	1/4	1,674.79	1/4	2,030.83	1/4	2,387.27	1/4	2,743.66	1/4	3,099.96	1/4	3,451.84
1/2	268.28	1/2	625.26	1/2	976.10	1/2	1,325.53	1/2	1,682.22	1/2	2,038.25	1/2	2,394.71	1/2	2,751.08	1/2	3,107.38	1/2	3,458.28
3/4	275.73	3/4	632.69	3/4	983.24	3/4	1,332.96	3/4	1,689.65	3/4	2,045.66	3/4	2,402.14	3/4	2,758.51	3/4	3,114.81	3/4	3,464.72
11	283.18	11	640.13	11	990.37	11	1,340.39	11	1,697.08	11	2,053.07	11	2,409.57	11	2,765.93	11	3,122.23	11	3,471.16
1/4	290.62	1/4	647.56	1/4	997.51	1/4	1,347.82	1/4	1,704.51	1/4	2,060.48	1/4	2,417.00	1/4	2,773.35	1/4	3,129.65	1/4	3,477.12
1/2	298.06	1/2	655.00	1/2	1,004.65	1/2	1,355.25	1/2	1,711.94	1/2	2,067.88	1/2	2,424.43	1/2	2,780.77	1/2	3,137.07	1/2	3,483.09
3/4	305.50	3/4	662.44	3/4	1,011.79	3/4	1,362.68	3/4	1,719.37	3/4	2,075.29	3/4	2,431.86	3/4	2,788.20	3/4	3,144.50	3/4	3,489.05

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
CAPACITY TABLE ONLY APPLIES TO 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 311"

3 PORT

INNAGE TABLE

10" HATCH

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 17'-07"

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	3,495.02	0	3,720.47	0	3,939.58	0	4,158.41	0	4,376.45	0		0		0		0		0	
1/4	3,500.51	1/4	3,725.04	1/4	3,944.14	1/4	4,162.97	1/4	4,380.96	1/4		1/4		1/4		1/4		1/4	
1/2	3,506.01	1/2	3,729.61	1/2	3,948.70	1/2	4,167.53	1/2	4,385.47	1/2		1/2		1/2		1/2		1/2	
3/4	3,511.50	3/4	3,734.18	3/4	3,953.26	3/4	4,172.09	3/4	4,389.98	3/4		3/4		3/4		3/4		3/4	
1	3,516.99	1	3,738.75	1	3,957.82	1	4,176.65	1	4,394.49	1		1		1		1		1	
1/4	3,522.02	1/4	3,743.33	1/4	3,962.38	1/4	4,181.21	1/4	4,398.98	1/4		1/4		1/4		1/4		1/4	
1/2	3,527.06	1/2	3,747.90	1/2	3,966.94	1/2	4,185.77	1/2	4,403.47	1/2		1/2		1/2		1/2		1/2	
3/4	3,532.09	3/4	3,752.47	3/4	3,971.49	3/4	4,190.33	3/4	4,407.96	3/4		3/4		3/4		3/4		3/4	
2	3,537.12	2	3,757.04	2	3,976.05	2	4,194.89	2	4,412.45	2		2		2		2		2	
1/4	3,541.81	1/4	3,761.61	1/4	3,980.61	1/4	4,199.44	1/4	4,416.66	1/4		1/4		1/4		1/4		1/4	
1/2	3,546.50	1/2	3,766.18	1/2	3,985.17	1/2	4,204.00	1/2	4,420.86	1/2		1/2		1/2		1/2		1/2	
3/4	3,551.19	3/4	3,770.76	3/4	3,989.73	3/4	4,208.56	3/4	4,425.07	3/4		3/4		3/4		3/4		3/4	
3	3,555.89	3	3,775.33	3	3,994.29	3	4,213.12	3	4,429.28	3		3		3		3		3	
1/4	3,560.46	1/4	3,779.90	1/4	3,998.85	1/4	4,217.68	1/4	4,432.84	1/4		1/4		1/4		1/4		1/4	
1/2	3,565.03	1/2	3,784.47	1/2	4,003.41	1/2	4,222.24	1/2	4,436.40	1/2		1/2		1/2		1/2		1/2	
3/4	3,569.60	3/4	3,789.04	3/4	4,007.97	3/4	4,226.80	3/4	4,439.97	3/4		3/4		3/4		3/4		3/4	
4	3,574.17	4	3,793.61	4	4,012.53	4	4,231.36	4	4,443.53	4		4		4		4		4	
1/4	3,578.74	1/4	3,798.19	1/4	4,017.08	1/4	4,235.92	1/4	4,446.33	1/4		1/4		1/4		1/4		1/4	
1/2	3,583.32	1/2	3,802.76	1/2	4,021.64	1/2	4,240.48	1/2	4,449.13	1/2		1/2		1/2		1/2		1/2	
3/4	3,587.89	3/4	3,807.33	3/4	4,026.20	3/4	4,245.03	3/4	4,451.93	3/4		3/4		3/4		3/4		3/4	
5	3,592.46	5	3,811.90	5	4,030.76	5	4,249.59	5	4,454.73	5		5		5		5		5	
1/4	3,597.03	1/4	3,816.47	1/4	4,035.32	1/4	4,254.15	1/4	4,456.77	1/4		1/4		1/4		1/4		1/4	
1/2	3,601.60	1/2	3,821.03	1/2	4,039.88	1/2	4,258.71	1/2	4,458.81	1/2		1/2		1/2		1/2		1/2	
3/4	3,606.17	3/4	3,825.60	3/4	4,044.44	3/4	4,263.27	3/4	4,460.85	3/4		3/4		3/4		3/4		3/4	
6	3,610.75	6	3,830.17	6	4,049.00	6	4,267.83	6	4,462.88	6		6		6		6		6	
1/4	3,615.32	1/4	3,834.72	1/4	4,053.56	1/4	4,272.39	1/4	4,464.16	1/4		1/4		1/4		1/4		1/4	
1/2	3,619.89	1/2	3,839.28	1/2	4,058.12	1/2	4,276.95	1/2	4,465.44	1/2		1/2		1/2		1/2		1/2	
3/4	3,624.46	3/4	3,843.84	3/4	4,062.67	3/4	4,281.51	3/4	4,466.71	3/4		3/4		3/4		3/4		3/4	
7	3,629.03	7	3,848.40	7	4,067.23	7	4,286.07	7	4,467.99	7		7		7		7		7	
1/4	3,633.60	1/4	3,852.96	1/4	4,071.79	1/4	4,290.60	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,638.18	1/2	3,857.52	1/2	4,076.35	1/2	4,295.14	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,642.75	3/4	3,862.08	3/4	4,080.91	3/4	4,299.68	3/4		3/4		3/4		3/4		3/4		3/4	
8	3,647.32	8	3,866.64	8	4,085.47	8	4,304.22	8		8		8		8		8		8	
1/4	3,651.89	1/4	3,871.20	1/4	4,090.03	1/4	4,308.73	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,656.46	1/2	3,875.76	1/2	4,094.59	1/2	4,313.25	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,661.04	3/4	3,880.31	3/4	4,099.15	3/4	4,317.76	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,665.61	9	3,884.87	9	4,103.71	9	4,322.27	9		9		9		9		9		9	
1/4	3,670.18	1/4	3,889.43	1/4	4,108.26	1/4	4,326.79	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,674.75	1/2	3,893.99	1/2	4,112.82	1/2	4,331.30	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,679.32	3/4	3,898.55	3/4	4,117.38	3/4	4,335.82	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,683.89	10	3,903.11	10	4,121.94	10	4,340.33	10		10		10		10		10		10	
1/4	3,688.47	1/4	3,907.67	1/4	4,126.50	1/4	4,344.84	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,693.04	1/2	3,912.23	1/2	4,131.06	1/2	4,349.36	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,697.61	3/4	3,916.79	3/4	4,135.62	3/4	4,353.87	3/4		3/4		3/4		3/4		3/4		3/4	
11	3,702.18	11	3,921.35	11	4,140.18	11	4,358.39	11		11		11		11		11		11	
1/4	3,706.75	1/4	3,925.90	1/4	4,144.74	1/4	4,362.90	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,711.32	1/2	3,930.46	1/2	4,149.30	1/2	4,367.42	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,715.90	3/4	3,935.02	3/4	4,153.85	3/4	4,371.93	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 07/18/2018 CL
CALCULATED: 07/19/2018 CL
PRINTED: 07/20/2018 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 07/2018

PRECISION MEASUREMENT
& ANALYSIS, INC.
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BARGE "E2MS 311"

3 STBD

INNAGE TABLE

10" HATCH

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 17'-07 1/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	2.23	0	313.29	0	671.14	0	1,028.69	0	1,386.37	0	1,744.24	0	2,102.11	0	2,459.95	0	2,817.35	0	3,174.72
1/4	4.09	1/4	320.75	1/4	678.60	1/4	1,036.13	1/4	1,393.82	1/4	1,751.69	1/4	2,109.56	1/4	2,467.39	1/4	2,824.80	1/4	3,182.17
1/2	5.96	1/2	328.20	1/2	686.06	1/2	1,043.57	1/2	1,401.28	1/2	1,759.15	1/2	2,117.02	1/2	2,474.84	1/2	2,832.24	1/2	3,189.61
3/4	7.82	3/4	335.66	3/4	693.51	3/4	1,051.01	3/4	1,408.73	3/4	1,766.60	3/4	2,124.47	3/4	2,482.28	3/4	2,839.69	3/4	3,197.06
1	9.68	1	343.11	1	700.97	1	1,058.45	1	1,416.19	1	1,774.06	1	2,131.93	1	2,489.73	1	2,847.13	1	3,204.51
1/4	13.41	1/4	350.57	1/4	708.42	1/4	1,065.90	1/4	1,423.65	1/4	1,781.51	1/4	2,139.38	1/4	2,497.18	1/4	2,854.58	1/4	3,211.94
1/2	17.14	1/2	358.02	1/2	715.88	1/2	1,073.34	1/2	1,431.10	1/2	1,788.97	1/2	2,146.84	1/2	2,504.62	1/2	2,862.02	1/2	3,219.37
3/4	20.87	3/4	365.48	3/4	723.33	3/4	1,080.78	3/4	1,438.56	3/4	1,796.43	3/4	2,154.29	3/4	2,512.07	3/4	2,869.47	3/4	3,226.80
2	24.59	2	372.93	2	730.79	2	1,088.22	2	1,446.01	2	1,803.88	2	2,161.75	2	2,519.52	2	2,876.91	2	3,234.23
1/4	30.19	1/4	380.39	1/4	738.24	1/4	1,095.66	1/4	1,453.47	1/4	1,811.34	1/4	2,169.21	1/4	2,526.96	1/4	2,884.36	1/4	3,241.64
1/2	35.78	1/2	387.84	1/2	745.70	1/2	1,103.11	1/2	1,460.92	1/2	1,818.79	1/2	2,176.66	1/2	2,534.41	1/2	2,891.80	1/2	3,249.06
3/4	41.37	3/4	395.30	3/4	753.15	3/4	1,110.55	3/4	1,468.38	3/4	1,826.25	3/4	2,184.12	3/4	2,541.86	3/4	2,899.25	3/4	3,256.48
3	46.96	3	402.75	3	760.61	3	1,118.00	3	1,475.83	3	1,833.70	3	2,191.57	3	2,549.30	3	2,906.69	3	3,263.89
1/4	53.93	1/4	410.21	1/4	768.06	1/4	1,125.45	1/4	1,483.29	1/4	1,841.16	1/4	2,199.03	1/4	2,556.75	1/4	2,914.14	1/4	3,271.31
1/2	60.90	1/2	417.66	1/2	775.52	1/2	1,132.90	1/2	1,490.75	1/2	1,848.61	1/2	2,206.48	1/2	2,564.20	1/2	2,921.58	1/2	3,278.73
3/4	67.87	3/4	425.12	3/4	782.97	3/4	1,140.35	3/4	1,498.20	3/4	1,856.07	3/4	2,213.94	3/4	2,571.64	3/4	2,929.03	3/4	3,286.14
4	74.84	4	432.57	4	790.43	4	1,147.80	4	1,505.66	4	1,863.53	4	2,221.39	4	2,579.09	4	2,936.47	4	3,293.56
1/4	82.27	1/4	440.03	1/4	797.88	1/4	1,155.25	1/4	1,513.11	1/4	1,870.98	1/4	2,228.85	1/4	2,586.54	1/4	2,943.92	1/4	3,300.98
1/2	89.70	1/2	447.49	1/2	805.34	1/2	1,162.71	1/2	1,520.57	1/2	1,878.44	1/2	2,236.31	1/2	2,593.98	1/2	2,951.37	1/2	3,308.39
3/4	97.14	3/4	454.94	3/4	812.80	3/4	1,170.16	3/4	1,528.02	3/4	1,885.89	3/4	2,243.76	3/4	2,601.43	3/4	2,958.81	3/4	3,315.81
5	104.57	5	462.40	5	820.25	5	1,177.61	5	1,535.48	5	1,893.35	5	2,251.22	5	2,608.88	5	2,966.26	5	3,323.23
1/4	112.02	1/4	469.85	1/4	827.71	1/4	1,185.07	1/4	1,542.94	1/4	1,900.80	1/4	2,258.67	1/4	2,616.32	1/4	2,973.70	1/4	3,330.64
1/2	119.47	1/2	477.31	1/2	835.16	1/2	1,192.52	1/2	1,550.39	1/2	1,908.26	1/2	2,266.13	1/2	2,623.77	1/2	2,981.15	1/2	3,338.06
3/4	126.92	3/4	484.76	3/4	842.62	3/4	1,199.98	3/4	1,557.85	3/4	1,915.72	3/4	2,273.58	3/4	2,631.21	3/4	2,988.59	3/4	3,345.48
6	134.37	6	492.22	6	850.07	6	1,207.43	6	1,565.30	6	1,923.17	6	2,281.04	6	2,638.66	6	2,996.04	6	3,352.90
1/4	141.82	1/4	499.67	1/4	857.52	1/4	1,214.89	1/4	1,572.76	1/4	1,930.63	1/4	2,288.50	1/4	2,646.11	1/4	3,003.48	1/4	3,360.31
1/2	149.27	1/2	507.13	1/2	864.97	1/2	1,222.34	1/2	1,580.21	1/2	1,938.08	1/2	2,295.95	1/2	2,653.55	1/2	3,010.93	1/2	3,367.72
3/4	156.73	3/4	514.58	3/4	872.42	3/4	1,229.80	3/4	1,587.67	3/4	1,945.54	3/4	2,303.41	3/4	2,661.00	3/4	3,018.37	3/4	3,375.14
7	164.18	7	522.04	7	879.87	7	1,237.26	7	1,595.12	7	1,952.99	7	2,310.86	7	2,668.44	7	3,025.82	7	3,382.55
1/4	171.64	1/4	529.49	1/4	887.31	1/4	1,244.71	1/4	1,602.58	1/4	1,960.45	1/4	2,318.32	1/4	2,675.89	1/4	3,033.26	1/4	3,389.96
1/2	179.09	1/2	536.95	1/2	894.75	1/2	1,252.17	1/2	1,610.04	1/2	1,967.90	1/2	2,325.77	1/2	2,683.33	1/2	3,040.71	1/2	3,397.37
3/4	186.55	3/4	544.40	3/4	902.19	3/4	1,259.62	3/4	1,617.49	3/4	1,975.36	3/4	2,333.23	3/4	2,690.78	3/4	3,048.15	3/4	3,404.78
8	194.01	8	551.86	8	909.63	8	1,267.08	8	1,624.95	8	1,982.82	8	2,340.68	8	2,698.23	8	3,055.60	8	3,412.19
1/4	201.46	1/4	559.31	1/4	917.07	1/4	1,274.53	1/4	1,632.40	1/4	1,990.27	1/4	2,348.14	1/4	2,705.67	1/4	3,063.04	1/4	3,419.48
1/2	208.92	1/2	566.77	1/2	924.51	1/2	1,281.99	1/2	1,639.86	1/2	1,997.73	1/2	2,355.60	1/2	2,713.12	1/2	3,070.49	1/2	3,426.77
3/4	216.37	3/4	574.23	3/4	931.95	3/4	1,289.44	3/4	1,647.31	3/4	2,005.18	3/4	2,363.05	3/4	2,720.56	3/4	3,077.94	3/4	3,434.06
9	223.83	9	581.68	9	939.40	9	1,296.90	9	1,654.77	9	2,012.64	9	2,370.51	9	2,728.01	9	3,085.38	9	3,441.35
1/4	231.28	1/4	589.14	1/4	946.84	1/4	1,304.36	1/4	1,662.22	1/4	2,020.09	1/4	2,377.96	1/4	2,735.45	1/4	3,092.83	1/4	3,448.28
1/2	238.74	1/2	596.59	1/2	954.28	1/2	1,311.81	1/2	1,669.68	1/2	2,027.55	1/2	2,385.42	1/2	2,742.90	1/2	3,100.27	1/2	3,455.22
3/4	246.19	3/4	604.05	3/4	961.72	3/4	1,319.27	3/4	1,677.14	3/4	2,035.00	3/4	2,392.87	3/4	2,750.34	3/4	3,107.72	3/4	3,462.16
10	253.65	10	611.50	10	969.16	10	1,326.72	10	1,684.59	10	2,042.46	10	2,400.33	10	2,757.79	10	3,115.16	10	3,469.09
1/4	261.10	1/4	618.96	1/4	976.60	1/4	1,334.18	1/4	1,692.05	1/4	2,049.92	1/4	2,407.78	1/4	2,765.23	1/4	3,122.61	1/4	3,475.55
1/2	268.56	1/2	626.41	1/2	984.04	1/2	1,341.63	1/2	1,699.50	1/2	2,057.37	1/2	2,415.24	1/2	2,772.68	1/2	3,130.05	1/2	3,482.01
3/4	276.01	3/4	633.87	3/4	991.48	3/4	1,349.09	3/4	1,706.96	3/4	2,064.83	3/4	2,422.70	3/4	2,780.12	3/4	3,137.50	3/4	3,488.47
11	283.47	11	641.32	11	998.92	11	1,356.55	11	1,714.41	11	2,072.28	11	2,430.15	11	2,787.57	11	3,144.94	11	3,494.92
1/4	290.92	1/4	648.78	1/4	1,006.37	1/4	1,364.00	1/4	1,721.87	1/4	2,079.74	1/4	2,437.60	1/4	2,795.01	1/4	3,152.39	1/4	3,500.90
1/2	298.38	1/2	656.23	1/2	1,013.81	1/2	1,371.46	1/2	1,729.33	1/2	2,087.19	1/2	2,445.05	1/2	2,802.46	1/2	3,159.83	1/2	3,506.88
3/4	305.83	3/4	663.69	3/4	1,021.25	3/4	1,378.91	3/4	1,736.78	3/4	2,094.65	3/4	2,452.50	3/4	2,809.90	3/4	3,167.28	3/4	3,512.86

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 311"

3 STBD

INNAGE TABLE

10" HATCH

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 17'-07 1/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	3,518.84	0	3,744.55	0	3,963.93	0	4,183.02	0	4,401.31	0		0		0		0		0	
1/4	3,524.34	1/4	3,749.13	1/4	3,968.49	1/4	4,187.59	1/4	4,405.82	1/4		1/4		1/4		1/4		1/4	
1/2	3,529.84	1/2	3,753.71	1/2	3,973.06	1/2	4,192.15	1/2	4,410.34	1/2		1/2		1/2		1/2		1/2	
3/4	3,535.33	3/4	3,758.28	3/4	3,977.62	3/4	4,196.72	3/4	4,414.85	3/4		3/4		3/4		3/4		3/4	
1	3,540.83	1	3,762.86	1	3,982.18	1	4,201.28	1	4,419.37	1		1		1		1		1	
1/4	3,545.87	1/4	3,767.44	1/4	3,986.75	1/4	4,205.84	1/4	4,423.86	1/4		1/4		1/4		1/4		1/4	
1/2	3,550.91	1/2	3,772.02	1/2	3,991.31	1/2	4,210.41	1/2	4,428.36	1/2		1/2		1/2		1/2		1/2	
3/4	3,555.95	3/4	3,776.59	3/4	3,995.88	3/4	4,214.97	3/4	4,432.85	3/4		3/4		3/4		3/4		3/4	
2	3,560.98	2	3,781.17	2	4,000.44	2	4,219.54	2	4,437.35	2		2		2		2		2	
1/4	3,565.68	1/4	3,785.75	1/4	4,005.01	1/4	4,224.10	1/4	4,441.56	1/4		1/4		1/4		1/4		1/4	
1/2	3,570.38	1/2	3,790.32	1/2	4,009.57	1/2	4,228.67	1/2	4,445.77	1/2		1/2		1/2		1/2		1/2	
3/4	3,575.08	3/4	3,794.90	3/4	4,014.14	3/4	4,233.23	3/4	4,449.98	3/4		3/4		3/4		3/4		3/4	
3	3,579.77	3	3,799.48	3	4,018.70	3	4,237.80	3	4,454.20	3		3		3		3		3	
1/4	3,584.35	1/4	3,804.06	1/4	4,023.26	1/4	4,242.36	1/4	4,457.76	1/4		1/4		1/4		1/4		1/4	
1/2	3,588.93	1/2	3,808.63	1/2	4,027.83	1/2	4,246.93	1/2	4,461.33	1/2		1/2		1/2		1/2		1/2	
3/4	3,593.50	3/4	3,813.21	3/4	4,032.39	3/4	4,251.49	3/4	4,464.90	3/4		3/4		3/4		3/4		3/4	
4	3,598.08	4	3,817.79	4	4,036.96	4	4,256.05	4	4,468.46	4		4		4		4		4	
1/4	3,602.66	1/4	3,822.36	1/4	4,041.52	1/4	4,260.62	1/4	4,471.27	1/4		1/4		1/4		1/4		1/4	
1/2	3,607.24	1/2	3,826.94	1/2	4,046.09	1/2	4,265.18	1/2	4,474.07	1/2		1/2		1/2		1/2		1/2	
3/4	3,611.81	3/4	3,831.52	3/4	4,050.65	3/4	4,269.75	3/4	4,476.87	3/4		3/4		3/4		3/4		3/4	
5	3,616.39	5	3,836.10	5	4,055.22	5	4,274.31	5	4,479.68	5		5		5		5		5	
1/4	3,620.97	1/4	3,840.67	1/4	4,059.78	1/4	4,278.88	1/4	4,481.72	1/4		1/4		1/4		1/4		1/4	
1/2	3,625.55	1/2	3,845.24	1/2	4,064.35	1/2	4,283.44	1/2	4,483.76	1/2		1/2		1/2		1/2		1/2	
3/4	3,630.12	3/4	3,849.81	3/4	4,068.91	3/4	4,288.01	3/4	4,485.80	3/4		3/4		3/4		3/4		3/4	
6	3,634.70	6	3,854.38	6	4,073.47	6	4,292.57	6	4,487.84	6		6		6		6		6	
1/4	3,639.28	1/4	3,858.94	1/4	4,078.04	1/4	4,297.13	1/4	4,489.12	1/4		1/4		1/4		1/4		1/4	
1/2	3,643.85	1/2	3,863.51	1/2	4,082.60	1/2	4,301.70	1/2	4,490.40	1/2		1/2		1/2		1/2		1/2	
3/4	3,648.43	3/4	3,868.07	3/4	4,087.17	3/4	4,306.26	3/4	4,491.67	3/4		3/4		3/4		3/4		3/4	
7	3,653.01	7	3,872.64	7	4,091.73	7	4,310.83	7	4,492.95	7		7		7		7		7	
1/4	3,657.59	1/4	3,877.20	1/4	4,096.30	1/4	4,315.37	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,662.16	1/2	3,881.77	1/2	4,100.86	1/2	4,319.91	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,666.74	3/4	3,886.33	3/4	4,105.43	3/4	4,324.45	3/4		3/4		3/4		3/4		3/4		3/4	
8	3,671.32	8	3,890.89	8	4,109.99	8	4,328.99	8		8		8		8		8		8	
1/4	3,675.89	1/4	3,895.46	1/4	4,114.55	1/4	4,333.51	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,680.47	1/2	3,900.02	1/2	4,119.12	1/2	4,338.03	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,685.05	3/4	3,904.59	3/4	4,123.68	3/4	4,342.55	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,689.63	9	3,909.15	9	4,128.25	9	4,347.07	9		9		9		9		9		9	
1/4	3,694.20	1/4	3,913.72	1/4	4,132.81	1/4	4,351.59	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,698.78	1/2	3,918.28	1/2	4,137.38	1/2	4,356.11	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,703.36	3/4	3,922.85	3/4	4,141.94	3/4	4,360.63	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,707.93	10	3,927.41	10	4,146.51	10	4,365.15	10		10		10		10		10		10	
1/4	3,712.51	1/4	3,931.97	1/4	4,151.07	1/4	4,369.67	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,717.09	1/2	3,936.54	1/2	4,155.64	1/2	4,374.19	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,721.67	3/4	3,941.10	3/4	4,160.20	3/4	4,378.71	3/4		3/4		3/4		3/4		3/4		3/4	
11	3,726.24	11	3,945.67	11	4,164.76	11	4,383.23	11		11		11		11		11		11	
1/4	3,730.82	1/4	3,950.23	1/4	4,169.33	1/4	4,387.75	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,735.40	1/2	3,954.80	1/2	4,173.89	1/2	4,392.27	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,739.98	3/4	3,959.36	3/4	4,178.46	3/4	4,396.79	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 07/18/2018 CL
CALCULATED: 07/19/2018 CL
PRINTED: 07/20/2018 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 07/2018

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