



BARGE "E2MS 310"

INNAGE (HERMETIC)

	1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.	
	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>
1 PORT	- 00-0/8	00-0/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/4	00-1/4	- 00-1/4	00-1/4
1 STBD	- 00-0/8	00-0/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/4	00-1/4	- 00-1/4	00-1/4
2 PORT	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8
2 STBD	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8
3 PORT	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8
3 STBD	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8

(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 00-1/8"
 FOR A MEASURED INNAGE GAUGE OF 4'-00" ON 1 PORT, THE TRIM CORRECTED INNAGE IS 4'-00 1/8"

LENGTH BETWEEN DRAFT MARKS: 235'-09"

July 11, 2018

**PRECISION MEASUREMENT
& ANALYSIS, INC.**

P.O. Box 2092
 Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "E2MS 310"

1 PORT INNAGE TABLE

HERMETIC GAUGE HEIGHT 15'-08 3/4"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	15.30	0	303.87	0	653.60	0	1,010.11	0	1,367.79	0	1,726.16	0	2,084.53	0	2,442.90	0	2,801.21	0	3,159.47
1/4	18.34	1/4	310.76	1/4	661.07	1/4	1,017.52	1/4	1,375.26	1/4	1,733.63	1/4	2,091.99	1/4	2,450.36	1/4	2,808.67	1/4	3,166.94
1/2	21.39	1/2	317.66	1/2	668.53	1/2	1,024.93	1/2	1,382.72	1/2	1,741.09	1/2	2,099.46	1/2	2,457.83	1/2	2,816.13	1/2	3,174.40
3/4	24.43	3/4	324.56	3/4	676.00	3/4	1,032.33	3/4	1,390.19	3/4	1,748.56	3/4	2,106.93	3/4	2,465.29	3/4	2,823.60	3/4	3,181.86
1	27.48	1	331.45	1	683.46	1	1,039.74	1	1,397.66	1	1,756.02	1	2,114.39	1	2,472.76	1	2,831.06	1	3,189.33
1/4	32.48	1/4	338.44	1/4	690.93	1/4	1,047.16	1/4	1,405.12	1/4	1,763.49	1/4	2,121.86	1/4	2,480.23	1/4	2,838.52	1/4	3,196.79
1/2	37.48	1/2	345.42	1/2	698.40	1/2	1,054.57	1/2	1,412.59	1/2	1,770.96	1/2	2,129.32	1/2	2,487.69	1/2	2,845.99	1/2	3,204.26
3/4	42.47	3/4	352.41	3/4	705.86	3/4	1,061.99	3/4	1,420.05	3/4	1,778.42	3/4	2,136.79	3/4	2,495.16	3/4	2,853.45	3/4	3,211.72
2	47.47	2	359.39	2	713.33	2	1,069.40	2	1,427.52	2	1,785.89	2	2,144.26	2	2,502.62	2	2,860.92	2	3,219.18
1/4	53.46	1/4	366.46	1/4	720.79	1/4	1,076.84	1/4	1,434.99	1/4	1,793.35	1/4	2,151.72	1/4	2,510.09	1/4	2,868.38	1/4	3,226.65
1/2	59.44	1/2	373.53	1/2	728.26	1/2	1,084.27	1/2	1,442.45	1/2	1,800.82	1/2	2,159.19	1/2	2,517.56	1/2	2,875.84	1/2	3,234.11
3/4	65.43	3/4	380.61	3/4	735.73	3/4	1,091.71	3/4	1,449.92	3/4	1,808.29	3/4	2,166.65	3/4	2,525.02	3/4	2,883.31	3/4	3,241.58
3	71.41	3	387.68	3	743.19	3	1,099.14	3	1,457.38	3	1,815.75	3	2,174.12	3	2,532.49	3	2,890.77	3	3,249.04
1/4	77.51	1/4	394.84	1/4	750.66	1/4	1,106.58	1/4	1,464.85	1/4	1,823.22	1/4	2,181.59	1/4	2,539.95	1/4	2,898.24	1/4	3,256.50
1/2	83.60	1/2	402.00	1/2	758.12	1/2	1,114.01	1/2	1,472.32	1/2	1,830.68	1/2	2,189.05	1/2	2,547.42	1/2	2,905.70	1/2	3,263.97
3/4	89.70	3/4	409.16	3/4	765.59	3/4	1,121.45	3/4	1,479.78	3/4	1,838.15	3/4	2,196.52	3/4	2,554.89	3/4	2,913.16	3/4	3,271.43
4	95.80	4	416.31	4	773.05	4	1,128.88	4	1,487.25	4	1,845.62	4	2,203.98	4	2,562.35	4	2,920.63	4	3,278.89
1/4	101.99	1/4	423.56	1/4	780.47	1/4	1,136.35	1/4	1,494.71	1/4	1,853.08	1/4	2,211.45	1/4	2,569.82	1/4	2,928.09	1/4	3,286.36
1/2	108.19	1/2	430.81	1/2	787.89	1/2	1,143.81	1/2	1,502.18	1/2	1,860.55	1/2	2,218.92	1/2	2,577.28	1/2	2,935.56	1/2	3,293.82
3/4	114.38	3/4	438.06	3/4	795.30	3/4	1,151.28	3/4	1,509.65	3/4	1,868.01	3/4	2,226.38	3/4	2,584.75	3/4	2,943.02	3/4	3,301.29
5	120.58	5	445.30	5	802.72	5	1,158.74	5	1,517.11	5	1,875.48	5	2,233.85	5	2,592.22	5	2,950.48	5	3,308.75
1/4	126.86	1/4	452.64	1/4	810.12	1/4	1,166.21	1/4	1,524.58	1/4	1,882.95	1/4	2,241.31	1/4	2,599.68	1/4	2,957.95	1/4	3,316.21
1/2	133.14	1/2	459.97	1/2	817.53	1/2	1,173.68	1/2	1,532.04	1/2	1,890.41	1/2	2,248.78	1/2	2,607.14	1/2	2,965.41	1/2	3,323.68
3/4	139.43	3/4	467.31	3/4	824.94	3/4	1,181.14	3/4	1,539.51	3/4	1,897.88	3/4	2,256.25	3/4	2,614.61	3/4	2,972.87	3/4	3,331.14
6	145.71	6	474.64	6	832.34	6	1,188.61	6	1,546.98	6	1,905.34	6	2,263.71	6	2,622.07	6	2,980.34	6	3,338.61
1/4	152.08	1/4	482.06	1/4	839.75	1/4	1,196.07	1/4	1,554.44	1/4	1,912.81	1/4	2,271.18	1/4	2,629.54	1/4	2,987.80	1/4	3,346.07
1/2	158.45	1/2	489.48	1/2	847.16	1/2	1,203.54	1/2	1,561.91	1/2	1,920.28	1/2	2,278.64	1/2	2,637.00	1/2	2,995.27	1/2	3,353.53
3/4	164.82	3/4	496.91	3/4	854.57	3/4	1,211.01	3/4	1,569.37	3/4	1,927.74	3/4	2,286.11	3/4	2,644.46	3/4	3,002.73	3/4	3,361.00
7	171.19	7	504.33	7	861.97	7	1,218.47	7	1,576.84	7	1,935.21	7	2,293.58	7	2,651.93	7	3,010.19	7	3,368.46
1/4	177.65	1/4	511.79	1/4	869.38	1/4	1,225.94	1/4	1,584.31	1/4	1,942.67	1/4	2,301.04	1/4	2,659.39	1/4	3,017.66	1/4	3,375.93
1/2	184.11	1/2	519.26	1/2	876.79	1/2	1,233.40	1/2	1,591.77	1/2	1,950.14	1/2	2,308.51	1/2	2,666.85	1/2	3,025.12	1/2	3,383.39
3/4	190.57	3/4	526.73	3/4	884.19	3/4	1,240.87	3/4	1,599.24	3/4	1,957.61	3/4	2,315.97	3/4	2,674.32	3/4	3,032.59	3/4	3,390.85
8	197.03	8	534.19	8	891.60	8	1,248.34	8	1,606.70	8	1,965.07	8	2,323.44	8	2,681.78	8	3,040.05	8	3,398.32
1/4	203.57	1/4	541.65	1/4	899.01	1/4	1,255.80	1/4	1,614.17	1/4	1,972.54	1/4	2,330.91	1/4	2,689.25	1/4	3,047.51	1/4	3,405.78
1/2	210.12	1/2	549.11	1/2	906.41	1/2	1,263.27	1/2	1,621.64	1/2	1,980.00	1/2	2,338.37	1/2	2,696.71	1/2	3,054.98	1/2	3,413.25
3/4	216.67	3/4	556.57	3/4	913.82	3/4	1,270.73	3/4	1,629.10	3/4	1,987.47	3/4	2,345.84	3/4	2,704.17	3/4	3,062.44	3/4	3,420.71
9	223.21	9	564.03	9	921.23	9	1,278.20	9	1,636.57	9	1,994.94	9	2,353.30	9	2,711.64	9	3,069.91	9	3,428.17
1/4	229.85	1/4	571.49	1/4	928.64	1/4	1,285.67	1/4	1,644.03	1/4	2,002.40	1/4	2,360.77	1/4	2,719.10	1/4	3,077.37	1/4	3,435.64
1/2	236.48	1/2	578.95	1/2	936.04	1/2	1,293.13	1/2	1,651.50	1/2	2,009.87	1/2	2,368.24	1/2	2,726.57	1/2	3,084.83	1/2	3,443.10
3/4	243.11	3/4	586.41	3/4	943.45	3/4	1,300.60	3/4	1,658.97	3/4	2,017.33	3/4	2,375.70	3/4	2,734.03	3/4	3,092.30	3/4	3,450.56
10	249.75	10	593.88	10	950.86	10	1,308.06	10	1,666.43	10	2,024.80	10	2,383.17	10	2,741.49	10	3,099.76	10	3,458.03
1/4	256.47	1/4	601.34	1/4	958.26	1/4	1,315.53	1/4	1,673.90	1/4	2,032.27	1/4	2,390.63	1/4	2,748.96	1/4	3,107.23	1/4	3,465.49
1/2	263.19	1/2	608.81	1/2	965.67	1/2	1,323.00	1/2	1,681.36	1/2	2,039.73	1/2	2,398.10	1/2	2,756.42	1/2	3,114.69	1/2	3,472.96
3/4	269.91	3/4	616.27	3/4	973.08	3/4	1,330.46	3/4	1,688.83	3/4	2,047.20	3/4	2,405.57	3/4	2,763.89	3/4	3,122.15	3/4	3,480.42
11	276.63	11	623.74	11	980.48	11	1,337.93	11	1,696.30	11	2,054.66	11	2,413.03	11	2,771.35	11	3,129.62	11	3,487.88
1/4	283.44	1/4	631.20	1/4	987.89	1/4	1,345.39	1/4	1,703.76	1/4	2,062.13	1/4	2,420.50	1/4	2,778.81	1/4	3,137.08	1/4	3,495.35
1/2	290.25	1/2	638.67	1/2	995.30	1/2	1,352.86	1/2	1,711.23	1/2	2,069.60	1/2	2,427.96	1/2	2,786.28	1/2	3,144.54	1/2	3,502.81
3/4	297.06	3/4	646.14	3/4	1,002.71	3/4	1,360.33	3/4	1,718.69	3/4	2,077.06	3/4	2,435.43	3/4	2,793.74	3/4	3,152.01	3/4	3,510.28

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 OF 2" HERMETIC VALVE
 GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 43'-09" FORWARD OF AFT BULKHEAD

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



BARGE "E2MS 310"

1 PORT

INNAGE TABLE HERMETIC

GAUGE HEIGHT 15'-08 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	3,517.74	0	3,876.01	0	4,233.58	0	4,590.80	0	4,946.20	0		0		0		0		0	
1/4	3,525.20	1/4	3,883.47	1/4	4,241.02	1/4	4,598.24	1/4	4,953.50	1/4		1/4		1/4		1/4		1/4	
1/2	3,532.67	1/2	3,890.93	1/2	4,248.46	1/2	4,605.68	1/2	4,960.80	1/2		1/2		1/2		1/2		1/2	
3/4	3,540.13	3/4	3,898.40	3/4	4,255.90	3/4	4,613.12	3/4	4,968.10	3/4		3/4		3/4		3/4		3/4	
1	3,547.60	1	3,905.86	1	4,263.34	1	4,620.57	1	4,975.40	1		1		1		1		1	
1/4	3,555.06	1/4	3,913.33	1/4	4,270.79	1/4	4,628.01	1/4	4,981.84	1/4		1/4		1/4		1/4		1/4	
1/2	3,562.52	1/2	3,920.79	1/2	4,278.23	1/2	4,635.45	1/2	4,988.28	1/2		1/2		1/2		1/2		1/2	
3/4	3,569.99	3/4	3,928.25	3/4	4,285.67	3/4	4,642.89	3/4	4,994.71	3/4		3/4		3/4		3/4		3/4	
2	3,577.45	2	3,935.72	2	4,293.11	2	4,650.33	2	5,001.15	2		2		2		2		2	
1/4	3,584.91	1/4	3,943.18	1/4	4,300.56	1/4	4,657.78	1/4	5,006.34	1/4		1/4		1/4		1/4		1/4	
1/2	3,592.38	1/2	3,950.65	1/2	4,308.00	1/2	4,665.22	1/2	5,011.54	1/2		1/2		1/2		1/2		1/2	
3/4	3,599.84	3/4	3,958.11	3/4	4,315.44	3/4	4,672.66	3/4	5,016.73	3/4		3/4		3/4		3/4		3/4	
3	3,607.31	3	3,965.57	3	4,322.88	3	4,680.10	3	5,021.92	3		3		3		3		3	
1/4	3,614.77	1/4	3,973.04	1/4	4,330.32	1/4	4,687.54	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,622.23	1/2	3,980.50	1/2	4,337.77	1/2	4,694.99	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,629.70	3/4	3,987.97	3/4	4,345.21	3/4	4,702.43	3/4		3/4		3/4		3/4		3/4		3/4	
4	3,637.16	4	3,995.43	4	4,352.65	4	4,709.87	4		4		4		4		4		4	
1/4	3,644.63	1/4	4,002.87	1/4	4,360.09	1/4	4,717.31	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,652.09	1/2	4,010.31	1/2	4,367.53	1/2	4,724.76	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,659.55	3/4	4,017.76	3/4	4,374.98	3/4	4,732.20	3/4		3/4		3/4		3/4		3/4		3/4	
5	3,667.02	5	4,025.20	5	4,382.42	5	4,739.64	5		5		5		5		5		5	
1/4	3,674.48	1/4	4,032.64	1/4	4,389.86	1/4	4,747.08	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,681.95	1/2	4,040.08	1/2	4,397.30	1/2	4,754.52	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,689.41	3/4	4,047.52	3/4	4,404.74	3/4	4,761.97	3/4		3/4		3/4		3/4		3/4		3/4	
6	3,696.87	6	4,054.97	6	4,412.19	6	4,769.41	6		6		6		6		6		6	
1/4	3,704.34	1/4	4,062.41	1/4	4,419.63	1/4	4,776.78	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,711.80	1/2	4,069.85	1/2	4,427.07	1/2	4,784.15	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,719.26	3/4	4,077.29	3/4	4,434.51	3/4	4,791.51	3/4		3/4		3/4		3/4		3/4		3/4	
7	3,726.73	7	4,084.73	7	4,441.96	7	4,798.88	7		7		7		7		7		7	
1/4	3,734.19	1/4	4,092.18	1/4	4,449.40	1/4	4,806.25	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,741.66	1/2	4,099.62	1/2	4,456.84	1/2	4,813.62	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,749.12	3/4	4,107.06	3/4	4,464.28	3/4	4,820.99	3/4		3/4		3/4		3/4		3/4		3/4	
8	3,756.58	8	4,114.50	8	4,471.72	8	4,828.36	8		8		8		8		8		8	
1/4	3,764.05	1/4	4,121.94	1/4	4,479.17	1/4	4,835.73	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,771.51	1/2	4,129.39	1/2	4,486.61	1/2	4,843.09	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,778.98	3/4	4,136.83	3/4	4,494.05	3/4	4,850.46	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,786.44	9	4,144.27	9	4,501.49	9	4,857.83	9		9		9		9		9		9	
1/4	3,793.90	1/4	4,151.71	1/4	4,508.93	1/4	4,865.20	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,801.37	1/2	4,159.16	1/2	4,516.38	1/2	4,872.57	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,808.83	3/4	4,166.60	3/4	4,523.82	3/4	4,879.94	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,816.30	10	4,174.04	10	4,531.26	10	4,887.31	10		10		10		10		10		10	
1/4	3,823.76	1/4	4,181.48	1/4	4,538.70	1/4	4,894.68	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,831.22	1/2	4,188.92	1/2	4,546.14	1/2	4,902.05	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,838.69	3/4	4,196.37	3/4	4,553.59	3/4	4,909.41	3/4		3/4		3/4		3/4		3/4		3/4	
11	3,846.15	11	4,203.81	11	4,561.03	11	4,916.78	11		11		11		11		11		11	
1/4	3,853.62	1/4	4,211.25	1/4	4,568.47	1/4	4,924.14	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,861.08	1/2	4,218.69	1/2	4,575.91	1/2	4,931.49	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,868.54	3/4	4,226.13	3/4	4,583.36	3/4	4,938.85	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 07/10/2018 CL
CALCULATED: 07/11/2018 CL
PRINTED: 07/11/2018 CL

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 310"

1 STBD INNAGE TABLE

HERMETIC GAUGE HEIGHT 15'-08 3/4"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	15.30	0	303.90	0	653.75	0	1,011.78	0	1,370.12	0	1,728.55	0	2,086.99	0	2,445.42	0	2,803.80	0	3,162.14
1/4	18.35	1/4	310.80	1/4	661.21	1/4	1,019.24	1/4	1,377.59	1/4	1,736.02	1/4	2,094.46	1/4	2,452.89	1/4	2,811.27	1/4	3,169.61
1/2	21.39	1/2	317.70	1/2	668.68	1/2	1,026.69	1/2	1,385.05	1/2	1,743.49	1/2	2,101.92	1/2	2,460.36	1/2	2,818.73	1/2	3,177.07
3/4	24.44	3/4	324.60	3/4	676.15	3/4	1,034.14	3/4	1,392.52	3/4	1,750.96	3/4	2,109.39	3/4	2,467.83	3/4	2,826.20	3/4	3,184.54
1	27.48	1	331.49	1	683.62	1	1,041.60	1	1,399.99	1	1,758.42	1	2,116.86	1	2,475.29	1	2,833.66	1	3,192.00
1/4	32.48	1/4	338.48	1/4	691.08	1/4	1,049.06	1/4	1,407.46	1/4	1,765.89	1/4	2,124.33	1/4	2,482.76	1/4	2,841.13	1/4	3,199.47
1/2	37.48	1/2	345.46	1/2	698.55	1/2	1,056.52	1/2	1,414.92	1/2	1,773.36	1/2	2,131.79	1/2	2,490.23	1/2	2,848.60	1/2	3,206.93
3/4	42.48	3/4	352.45	3/4	706.02	3/4	1,063.98	3/4	1,422.39	3/4	1,780.83	3/4	2,139.26	3/4	2,497.70	3/4	2,856.06	3/4	3,214.40
2	47.48	2	359.43	2	713.49	2	1,071.44	2	1,429.86	2	1,788.29	2	2,146.73	2	2,505.16	2	2,863.53	2	3,221.87
1/4	53.46	1/4	366.51	1/4	720.95	1/4	1,078.91	1/4	1,437.33	1/4	1,795.76	1/4	2,154.20	1/4	2,512.63	1/4	2,870.99	1/4	3,229.33
1/2	59.45	1/2	373.58	1/2	728.42	1/2	1,086.37	1/2	1,444.79	1/2	1,803.23	1/2	2,161.66	1/2	2,520.10	1/2	2,878.46	1/2	3,236.80
3/4	65.43	3/4	380.65	3/4	735.89	3/4	1,093.83	3/4	1,452.26	3/4	1,810.70	3/4	2,169.13	3/4	2,527.57	3/4	2,885.92	3/4	3,244.26
3	71.41	3	387.73	3	743.36	3	1,101.29	3	1,459.73	3	1,818.16	3	2,176.60	3	2,535.03	3	2,893.39	3	3,251.73
1/4	77.51	1/4	394.89	1/4	750.82	1/4	1,108.76	1/4	1,467.19	1/4	1,825.63	1/4	2,184.07	1/4	2,542.50	1/4	2,900.85	1/4	3,259.19
1/2	83.61	1/2	402.05	1/2	758.29	1/2	1,116.23	1/2	1,474.66	1/2	1,833.10	1/2	2,191.53	1/2	2,549.97	1/2	2,908.32	1/2	3,266.66
3/4	89.71	3/4	409.21	3/4	765.76	3/4	1,123.69	3/4	1,482.13	3/4	1,840.56	3/4	2,199.00	3/4	2,557.44	3/4	2,915.78	3/4	3,274.12
4	95.81	4	416.37	4	773.23	4	1,131.16	4	1,489.60	4	1,848.03	4	2,206.47	4	2,564.90	4	2,923.25	4	3,281.59
1/4	102.00	1/4	423.62	1/4	780.69	1/4	1,138.63	1/4	1,497.06	1/4	1,855.50	1/4	2,213.93	1/4	2,572.37	1/4	2,930.72	1/4	3,289.05
1/2	108.20	1/2	430.86	1/2	788.16	1/2	1,146.10	1/2	1,504.53	1/2	1,862.97	1/2	2,221.40	1/2	2,579.84	1/2	2,938.18	1/2	3,296.52
3/4	114.39	3/4	438.11	3/4	795.63	3/4	1,153.56	3/4	1,512.00	3/4	1,870.43	3/4	2,228.87	3/4	2,587.30	3/4	2,945.65	3/4	3,303.99
5	120.59	5	445.36	5	803.10	5	1,161.03	5	1,519.47	5	1,877.90	5	2,236.34	5	2,594.77	5	2,953.11	5	3,311.45
1/4	126.87	1/4	452.70	1/4	810.55	1/4	1,168.50	1/4	1,526.93	1/4	1,885.37	1/4	2,243.80	1/4	2,602.24	1/4	2,960.58	1/4	3,318.92
1/2	133.16	1/2	460.03	1/2	818.00	1/2	1,175.97	1/2	1,534.40	1/2	1,892.84	1/2	2,251.27	1/2	2,609.70	1/2	2,968.04	1/2	3,326.38
3/4	139.44	3/4	467.37	3/4	825.45	3/4	1,183.43	3/4	1,541.87	3/4	1,900.30	3/4	2,258.74	3/4	2,617.17	3/4	2,975.51	3/4	3,333.85
6	145.72	6	474.71	6	832.91	6	1,190.90	6	1,549.34	6	1,907.77	6	2,266.21	6	2,624.63	6	2,982.97	6	3,341.31
1/4	152.09	1/4	482.13	1/4	840.36	1/4	1,198.37	1/4	1,556.80	1/4	1,915.24	1/4	2,273.67	1/4	2,632.10	1/4	2,990.44	1/4	3,348.78
1/2	158.47	1/2	489.55	1/2	847.81	1/2	1,205.84	1/2	1,564.27	1/2	1,922.71	1/2	2,281.14	1/2	2,639.56	1/2	2,997.90	1/2	3,356.24
3/4	164.84	3/4	496.98	3/4	855.27	3/4	1,213.30	3/4	1,571.74	3/4	1,930.17	3/4	2,288.61	3/4	2,647.03	3/4	3,005.37	3/4	3,363.71
7	171.21	7	504.40	7	862.72	7	1,220.77	7	1,579.21	7	1,937.64	7	2,296.08	7	2,654.50	7	3,012.83	7	3,371.17
1/4	177.67	1/4	511.87	1/4	870.17	1/4	1,228.24	1/4	1,586.67	1/4	1,945.11	1/4	2,303.54	1/4	2,661.96	1/4	3,020.30	1/4	3,378.64
1/2	184.13	1/2	519.33	1/2	877.63	1/2	1,235.71	1/2	1,594.14	1/2	1,952.58	1/2	2,311.01	1/2	2,669.43	1/2	3,027.77	1/2	3,386.10
3/4	190.59	3/4	526.80	3/4	885.08	3/4	1,243.17	3/4	1,601.61	3/4	1,960.04	3/4	2,318.48	3/4	2,676.89	3/4	3,035.23	3/4	3,393.57
8	197.05	8	534.27	8	892.53	8	1,250.64	8	1,609.08	8	1,967.51	8	2,325.95	8	2,684.36	8	3,042.70	8	3,401.04
1/4	203.59	1/4	541.74	1/4	899.99	1/4	1,258.11	1/4	1,616.54	1/4	1,974.98	1/4	2,333.41	1/4	2,691.82	1/4	3,050.16	1/4	3,408.50
1/2	210.14	1/2	549.20	1/2	907.44	1/2	1,265.57	1/2	1,624.01	1/2	1,982.45	1/2	2,340.88	1/2	2,699.29	1/2	3,057.63	1/2	3,415.97
3/4	216.69	3/4	556.67	3/4	914.89	3/4	1,273.04	3/4	1,631.48	3/4	1,989.91	3/4	2,348.35	3/4	2,706.75	3/4	3,065.09	3/4	3,423.43
9	223.24	9	564.14	9	922.35	9	1,280.51	9	1,638.94	9	1,997.38	9	2,355.82	9	2,714.22	9	3,072.56	9	3,430.90
1/4	229.87	1/4	571.61	1/4	929.80	1/4	1,287.98	1/4	1,646.41	1/4	2,004.85	1/4	2,363.28	1/4	2,721.68	1/4	3,080.02	1/4	3,438.36
1/2	236.50	1/2	579.07	1/2	937.25	1/2	1,295.44	1/2	1,653.88	1/2	2,012.31	1/2	2,370.75	1/2	2,729.15	1/2	3,087.49	1/2	3,445.83
3/4	243.14	3/4	586.54	3/4	944.71	3/4	1,302.91	3/4	1,661.35	3/4	2,019.78	3/4	2,378.22	3/4	2,736.61	3/4	3,094.95	3/4	3,453.29
10	249.77	10	594.01	10	952.16	10	1,310.38	10	1,668.81	10	2,027.25	10	2,385.68	10	2,744.08	10	3,102.42	10	3,460.76
1/4	256.50	1/4	601.48	1/4	959.61	1/4	1,317.85	1/4	1,676.28	1/4	2,034.72	1/4	2,393.15	1/4	2,751.55	1/4	3,109.88	1/4	3,468.22
1/2	263.22	1/2	608.94	1/2	967.07	1/2	1,325.31	1/2	1,683.75	1/2	2,042.18	1/2	2,400.62	1/2	2,759.01	1/2	3,117.35	1/2	3,475.69
3/4	269.94	3/4	616.41	3/4	974.52	3/4	1,332.78	3/4	1,691.22	3/4	2,049.65	3/4	2,408.09	3/4	2,766.48	3/4	3,124.82	3/4	3,483.15
11	276.66	11	623.88	11	981.97	11	1,340.25	11	1,698.68	11	2,057.12	11	2,415.55	11	2,773.94	11	3,132.28	11	3,490.62
1/4	283.47	1/4	631.35	1/4	989.43	1/4	1,347.72	1/4	1,706.15	1/4	2,064.59	1/4	2,423.02	1/4	2,781.41	1/4	3,139.75	1/4	3,498.09
1/2	290.28	1/2	638.81	1/2	996.88	1/2	1,355.18	1/2	1,713.62	1/2	2,072.05	1/2	2,430.49	1/2	2,788.87	1/2	3,147.21	1/2	3,505.55
3/4	297.09	3/4	646.28	3/4	1,004.33	3/4	1,362.65	3/4	1,721.09	3/4	2,079.52	3/4	2,437.96	3/4	2,796.34	3/4	3,154.68	3/4	3,513.02

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 OF 2" HERMETIC VALVE
GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 43'-09" FORWARD OF AFT BULKHEAD

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



BARGE "E2MS 310"

1 STBD

INNAGE TABLE HERMETIC

GAUGE HEIGHT 15'-08 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	3,520.48	0	3,878.82	0	4,236.45	0	4,593.73	0	4,949.20	0		0		0		0		0	
1/4	3,527.95	1/4	3,886.29	1/4	4,243.90	1/4	4,601.17	1/4	4,956.50	1/4		1/4		1/4		1/4		1/4	
1/2	3,535.41	1/2	3,893.75	1/2	4,251.34	1/2	4,608.62	1/2	4,963.80	1/2		1/2		1/2		1/2		1/2	
3/4	3,542.88	3/4	3,901.22	3/4	4,258.78	3/4	4,616.06	3/4	4,971.10	3/4		3/4		3/4		3/4		3/4	
1	3,550.34	1	3,908.68	1	4,266.23	1	4,623.50	1	4,978.40	1		1		1		1		1	
1/4	3,557.81	1/4	3,916.15	1/4	4,273.67	1/4	4,630.95	1/4	4,984.84	1/4		1/4		1/4		1/4		1/4	
1/2	3,565.27	1/2	3,923.61	1/2	4,281.11	1/2	4,638.39	1/2	4,991.28	1/2		1/2		1/2		1/2		1/2	
3/4	3,572.74	3/4	3,931.08	3/4	4,288.56	3/4	4,645.83	3/4	4,997.72	3/4		3/4		3/4		3/4		3/4	
2	3,580.20	2	3,938.54	2	4,296.00	2	4,653.28	2	5,004.16	2		2		2		2		2	
1/4	3,587.67	1/4	3,946.01	1/4	4,303.44	1/4	4,660.72	1/4	5,009.35	1/4		1/4		1/4		1/4		1/4	
1/2	3,595.14	1/2	3,953.47	1/2	4,310.89	1/2	4,668.16	1/2	5,014.54	1/2		1/2		1/2		1/2		1/2	
3/4	3,602.60	3/4	3,960.94	3/4	4,318.33	3/4	4,675.61	3/4	5,019.74	3/4		3/4		3/4		3/4		3/4	
3	3,610.07	3	3,968.41	3	4,325.77	3	4,683.05	3	5,024.93	3		3		3		3		3	
1/4	3,617.53	1/4	3,975.87	1/4	4,333.22	1/4	4,690.49	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,625.00	1/2	3,983.34	1/2	4,340.66	1/2	4,697.94	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,632.46	3/4	3,990.80	3/4	4,348.10	3/4	4,705.38	3/4		3/4		3/4		3/4		3/4		3/4	
4	3,639.93	4	3,998.27	4	4,355.55	4	4,712.82	4		4		4		4		4		4	
1/4	3,647.39	1/4	4,005.71	1/4	4,362.99	1/4	4,720.27	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,654.86	1/2	4,013.15	1/2	4,370.43	1/2	4,727.71	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,662.32	3/4	4,020.60	3/4	4,377.88	3/4	4,735.15	3/4		3/4		3/4		3/4		3/4		3/4	
5	3,669.79	5	4,028.04	5	4,385.32	5	4,742.60	5		5		5		5		5		5	
1/4	3,677.26	1/4	4,035.48	1/4	4,392.76	1/4	4,750.04	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,684.72	1/2	4,042.93	1/2	4,400.21	1/2	4,757.48	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,692.19	3/4	4,050.37	3/4	4,407.65	3/4	4,764.93	3/4		3/4		3/4		3/4		3/4		3/4	
6	3,699.65	6	4,057.81	6	4,415.09	6	4,772.37	6		6		6		6		6		6	
1/4	3,707.12	1/4	4,065.26	1/4	4,422.54	1/4	4,779.74	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,714.58	1/2	4,072.70	1/2	4,429.98	1/2	4,787.11	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,722.05	3/4	4,080.14	3/4	4,437.42	3/4	4,794.48	3/4		3/4		3/4		3/4		3/4		3/4	
7	3,729.51	7	4,087.59	7	4,444.87	7	4,801.85	7		7		7		7		7		7	
1/4	3,736.98	1/4	4,095.03	1/4	4,452.31	1/4	4,809.22	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,744.44	1/2	4,102.47	1/2	4,459.75	1/2	4,816.59	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,751.91	3/4	4,109.92	3/4	4,467.20	3/4	4,823.96	3/4		3/4		3/4		3/4		3/4		3/4	
8	3,759.37	8	4,117.36	8	4,474.64	8	4,831.33	8		8		8		8		8		8	
1/4	3,766.84	1/4	4,124.80	1/4	4,482.08	1/4	4,838.70	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,774.31	1/2	4,132.25	1/2	4,489.53	1/2	4,846.07	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,781.77	3/4	4,139.69	3/4	4,496.97	3/4	4,853.44	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,789.24	9	4,147.13	9	4,504.41	9	4,860.81	9		9		9		9		9		9	
1/4	3,796.70	1/4	4,154.58	1/4	4,511.85	1/4	4,868.18	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,804.17	1/2	4,162.02	1/2	4,519.30	1/2	4,875.56	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,811.63	3/4	4,169.46	3/4	4,526.74	3/4	4,882.93	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,819.10	10	4,176.91	10	4,534.18	10	4,890.30	10		10		10		10		10		10	
1/4	3,826.56	1/4	4,184.35	1/4	4,541.63	1/4	4,897.67	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,834.03	1/2	4,191.79	1/2	4,549.07	1/2	4,905.03	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,841.49	3/4	4,199.24	3/4	4,556.51	3/4	4,912.40	3/4		3/4		3/4		3/4		3/4		3/4	
11	3,848.96	11	4,206.68	11	4,563.96	11	4,919.77	11		11		11		11		11		11	
1/4	3,856.42	1/4	4,214.12	1/4	4,571.40	1/4	4,927.13	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,863.89	1/2	4,221.57	1/2	4,578.84	1/2	4,934.48	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,871.36	3/4	4,229.01	3/4	4,586.29	3/4	4,941.84	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 07/10/2018 CL
CALCULATED: 07/11/2018 CL
PRINTED: 07/11/2018 CL

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 310"

2 PORT INNAGE TABLE

HERMETIC GAUGE HEIGHT 15'-09"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	15.32	0	359.20	0	718.23	0	1,067.53	0	1,421.81	0	1,780.84	0	2,139.87	0	2,498.90	0	2,857.94	0	3,216.97
1/4	20.00	1/4	366.68	1/4	725.71	1/4	1,074.70	1/4	1,429.29	1/4	1,788.32	1/4	2,147.35	1/4	2,506.38	1/4	2,865.42	1/4	3,224.45
1/2	24.67	1/2	374.16	1/2	733.19	1/2	1,081.88	1/2	1,436.77	1/2	1,795.80	1/2	2,154.83	1/2	2,513.86	1/2	2,872.89	1/2	3,231.93
3/4	29.35	3/4	381.64	3/4	740.67	3/4	1,089.05	3/4	1,444.25	3/4	1,803.28	3/4	2,162.31	3/4	2,521.34	3/4	2,880.37	3/4	3,239.41
1	34.02	1	389.11	1	748.15	1	1,096.22	1	1,451.73	1	1,810.76	1	2,169.79	1	2,528.82	1	2,887.85	1	3,246.88
1/4	40.57	1/4	396.59	1/4	755.63	1/4	1,103.40	1/4	1,459.21	1/4	1,818.24	1/4	2,177.27	1/4	2,536.30	1/4	2,895.33	1/4	3,254.36
1/2	47.11	1/2	404.07	1/2	763.10	1/2	1,110.58	1/2	1,466.69	1/2	1,825.72	1/2	2,184.75	1/2	2,543.78	1/2	2,902.81	1/2	3,261.84
3/4	53.65	3/4	411.55	3/4	770.58	3/4	1,117.77	3/4	1,474.17	3/4	1,833.20	3/4	2,192.23	3/4	2,551.26	3/4	2,910.29	3/4	3,269.32
2	60.20	2	419.03	2	778.06	2	1,124.95	2	1,481.65	2	1,840.68	2	2,199.71	2	2,558.74	2	2,917.77	2	3,276.80
1/4	67.64	1/4	426.51	1/4	785.54	1/4	1,132.13	1/4	1,489.13	1/4	1,848.16	1/4	2,207.19	1/4	2,566.22	1/4	2,925.25	1/4	3,284.28
1/2	75.08	1/2	433.99	1/2	793.02	1/2	1,139.31	1/2	1,496.61	1/2	1,855.64	1/2	2,214.67	1/2	2,573.70	1/2	2,932.73	1/2	3,291.76
3/4	82.53	3/4	441.47	3/4	800.50	3/4	1,146.49	3/4	1,504.09	3/4	1,863.12	3/4	2,222.15	3/4	2,581.18	3/4	2,940.21	3/4	3,299.24
3	89.97	3	448.95	3	807.98	3	1,153.67	3	1,511.57	3	1,870.60	3	2,229.63	3	2,588.66	3	2,947.69	3	3,306.72
1/4	97.44	1/4	456.43	1/4	815.46	1/4	1,160.87	1/4	1,519.05	1/4	1,878.08	1/4	2,237.11	1/4	2,596.14	1/4	2,955.17	1/4	3,314.20
1/2	104.91	1/2	463.91	1/2	822.94	1/2	1,168.07	1/2	1,526.53	1/2	1,885.56	1/2	2,244.59	1/2	2,603.62	1/2	2,962.65	1/2	3,321.68
3/4	112.38	3/4	471.39	3/4	830.42	3/4	1,175.26	3/4	1,534.01	3/4	1,893.04	3/4	2,252.07	3/4	2,611.10	3/4	2,970.13	3/4	3,329.16
4	119.85	4	478.87	4	837.90	4	1,182.46	4	1,541.49	4	1,900.52	4	2,259.55	4	2,618.58	4	2,977.61	4	3,336.64
1/4	127.33	1/4	486.35	1/4	845.10	1/4	1,189.94	1/4	1,548.97	1/4	1,908.00	1/4	2,267.03	1/4	2,626.06	1/4	2,985.09	1/4	3,344.12
1/2	134.80	1/2	493.83	1/2	852.30	1/2	1,197.42	1/2	1,556.45	1/2	1,915.48	1/2	2,274.51	1/2	2,633.54	1/2	2,992.57	1/2	3,351.60
3/4	142.28	3/4	501.31	3/4	859.49	3/4	1,204.90	3/4	1,563.93	3/4	1,922.96	3/4	2,281.99	3/4	2,641.02	3/4	3,000.05	3/4	3,359.08
5	149.76	5	508.79	5	866.69	5	1,212.38	5	1,571.41	5	1,930.44	5	2,289.47	5	2,648.50	5	3,007.53	5	3,366.56
1/4	157.24	1/4	516.27	1/4	873.86	1/4	1,219.86	1/4	1,578.89	1/4	1,937.92	1/4	2,296.95	1/4	2,655.98	1/4	3,015.01	1/4	3,374.04
1/2	164.72	1/2	523.75	1/2	881.04	1/2	1,227.34	1/2	1,586.37	1/2	1,945.40	1/2	2,304.43	1/2	2,663.46	1/2	3,022.49	1/2	3,381.52
3/4	172.20	3/4	531.23	3/4	888.21	3/4	1,234.82	3/4	1,593.85	3/4	1,952.88	3/4	2,311.91	3/4	2,670.94	3/4	3,029.97	3/4	3,389.00
6	179.68	6	538.71	6	895.38	6	1,242.30	6	1,601.33	6	1,960.36	6	2,319.39	6	2,678.42	6	3,037.45	6	3,396.48
1/4	187.16	1/4	546.19	1/4	902.55	1/4	1,249.78	1/4	1,608.81	1/4	1,967.84	1/4	2,326.87	1/4	2,685.90	1/4	3,044.93	1/4	3,403.96
1/2	194.64	1/2	553.67	1/2	909.73	1/2	1,257.26	1/2	1,616.29	1/2	1,975.32	1/2	2,334.35	1/2	2,693.38	1/2	3,052.41	1/2	3,411.44
3/4	202.12	3/4	561.15	3/4	916.90	3/4	1,264.74	3/4	1,623.77	3/4	1,982.80	3/4	2,341.83	3/4	2,700.86	3/4	3,059.89	3/4	3,418.92
7	209.60	7	568.63	7	924.07	7	1,272.22	7	1,631.25	7	1,990.28	7	2,349.31	7	2,708.34	7	3,067.37	7	3,426.40
1/4	217.08	1/4	576.11	1/4	931.25	1/4	1,279.70	1/4	1,638.73	1/4	1,997.76	1/4	2,356.79	1/4	2,715.82	1/4	3,074.85	1/4	3,433.88
1/2	224.56	1/2	583.59	1/2	938.42	1/2	1,287.18	1/2	1,646.21	1/2	2,005.24	1/2	2,364.27	1/2	2,723.30	1/2	3,082.33	1/2	3,441.36
3/4	232.04	3/4	591.07	3/4	945.59	3/4	1,294.66	3/4	1,653.69	3/4	2,012.72	3/4	2,371.75	3/4	2,730.78	3/4	3,089.81	3/4	3,448.84
8	239.52	8	598.55	8	952.76	8	1,302.14	8	1,661.17	8	2,020.20	8	2,379.23	8	2,738.26	8	3,097.29	8	3,456.32
1/4	247.00	1/4	606.03	1/4	959.94	1/4	1,309.62	1/4	1,668.65	1/4	2,027.68	1/4	2,386.71	1/4	2,745.74	1/4	3,104.77	1/4	3,463.80
1/2	254.48	1/2	613.51	1/2	967.11	1/2	1,317.10	1/2	1,676.13	1/2	2,035.16	1/2	2,394.19	1/2	2,753.22	1/2	3,112.25	1/2	3,471.28
3/4	261.96	3/4	620.99	3/4	974.28	3/4	1,324.58	3/4	1,683.61	3/4	2,042.64	3/4	2,401.67	3/4	2,760.70	3/4	3,119.73	3/4	3,478.76
9	269.44	9	628.47	9	981.46	9	1,332.06	9	1,691.09	9	2,050.12	9	2,409.15	9	2,768.18	9	3,127.21	9	3,486.24
1/4	276.92	1/4	635.95	1/4	988.63	1/4	1,339.54	1/4	1,698.57	1/4	2,057.60	1/4	2,416.63	1/4	2,775.66	1/4	3,134.69	1/4	3,493.72
1/2	284.40	1/2	643.43	1/2	995.80	1/2	1,347.02	1/2	1,706.05	1/2	2,065.08	1/2	2,424.11	1/2	2,783.14	1/2	3,142.17	1/2	3,501.20
3/4	291.88	3/4	650.91	3/4	1,002.97	3/4	1,354.50	3/4	1,713.53	3/4	2,072.56	3/4	2,431.59	3/4	2,790.62	3/4	3,149.65	3/4	3,508.68
10	299.36	10	658.39	10	1,010.15	10	1,361.98	10	1,721.01	10	2,080.04	10	2,439.07	10	2,798.10	10	3,157.13	10	3,516.16
1/4	306.84	1/4	665.87	1/4	1,017.32	1/4	1,369.46	1/4	1,728.49	1/4	2,087.52	1/4	2,446.55	1/4	2,805.58	1/4	3,164.61	1/4	3,523.64
1/2	314.32	1/2	673.35	1/2	1,024.49	1/2	1,376.93	1/2	1,735.97	1/2	2,095.00	1/2	2,454.03	1/2	2,813.06	1/2	3,172.09	1/2	3,531.12
3/4	321.80	3/4	680.83	3/4	1,031.67	3/4	1,384.41	3/4	1,743.45	3/4	2,102.48	3/4	2,461.51	3/4	2,820.54	3/4	3,179.57	3/4	3,538.60
11	329.28	11	688.31	11	1,038.84	11	1,391.89	11	1,750.92	11	2,109.96	11	2,468.99	11	2,828.02	11	3,187.05	11	3,546.08
1/4	336.76	1/4	695.79	1/4	1,046.01	1/4	1,399.37	1/4	1,758.40	1/4	2,117.44	1/4	2,476.47	1/4	2,835.50	1/4	3,194.53	1/4	3,553.56
1/2	344.24	1/2	703.27	1/2	1,053.19	1/2	1,406.85	1/2	1,765.88	1/2	2,124.91	1/2	2,483.95	1/2	2,842.98	1/2	3,202.01	1/2	3,561.04
3/4	351.72	3/4	710.75	3/4	1,060.36	3/4	1,414.33	3/4	1,773.36	3/4	2,132.39	3/4	2,491.43	3/4	2,850.46	3/4	3,209.49	3/4	3,568.52

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 OF 2" HERMETIC VALVE
 GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 43'-06" FORWARD OF AFT BULKHEAD

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092
 Pearland, Texas 77588
<http://www.pmacorp.net>





BARGE "E2MS 310"

2 PORT

INNAGE TABLE HERMETIC

GAUGE HEIGHT 15'-09"

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	3,576.00	0	3,935.03	0	4,293.36	0	4,651.34	0	5,007.66	0		0		0		0		0	
1/4	3,583.48	1/4	3,942.51	1/4	4,300.81	1/4	4,658.79	1/4	5,014.98	1/4		1/4		1/4		1/4		1/4	
1/2	3,590.96	1/2	3,949.99	1/2	4,308.27	1/2	4,666.25	1/2	5,022.30	1/2		1/2		1/2		1/2		1/2	
3/4	3,598.44	3/4	3,957.47	3/4	4,315.73	3/4	4,673.71	3/4	5,029.63	3/4		3/4		3/4		3/4		3/4	
1	3,605.92	1	3,964.95	1	4,323.19	1	4,681.17	1	5,036.95	1		1		1		1		1	
1/4	3,613.40	1/4	3,972.43	1/4	4,330.65	1/4	4,688.62	1/4	5,043.40	1/4		1/4		1/4		1/4		1/4	
1/2	3,620.87	1/2	3,979.91	1/2	4,338.10	1/2	4,696.08	1/2	5,049.86	1/2		1/2		1/2		1/2		1/2	
3/4	3,628.35	3/4	3,987.39	3/4	4,345.56	3/4	4,703.54	3/4	5,056.32	3/4		3/4		3/4		3/4		3/4	
2	3,635.83	2	3,994.86	2	4,353.02	2	4,711.00	2	5,062.77	2		2		2		2		2	
1/4	3,643.31	1/4	4,002.34	1/4	4,360.48	1/4	4,718.46	1/4	5,067.98	1/4		1/4		1/4		1/4		1/4	
1/2	3,650.79	1/2	4,009.82	1/2	4,367.94	1/2	4,725.91	1/2	5,073.19	1/2		1/2		1/2		1/2		1/2	
3/4	3,658.27	3/4	4,017.30	3/4	4,375.39	3/4	4,733.37	3/4	5,078.40	3/4		3/4		3/4		3/4		3/4	
3	3,665.75	3	4,024.78	3	4,382.85	3	4,740.83	3	5,083.61	3		3		3		3		3	
1/4	3,673.23	1/4	4,032.26	1/4	4,390.31	1/4	4,748.29	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,680.71	1/2	4,039.74	1/2	4,397.77	1/2	4,755.75	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,688.19	3/4	4,047.22	3/4	4,405.22	3/4	4,763.20	3/4		3/4		3/4		3/4		3/4		3/4	
4	3,695.67	4	4,054.70	4	4,412.68	4	4,770.66	4		4		4		4		4		4	
1/4	3,703.15	1/4	4,062.16	1/4	4,420.14	1/4	4,778.12	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,710.63	1/2	4,069.62	1/2	4,427.60	1/2	4,785.58	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,718.11	3/4	4,077.08	3/4	4,435.06	3/4	4,793.04	3/4		3/4		3/4		3/4		3/4		3/4	
5	3,725.59	5	4,084.53	5	4,442.51	5	4,800.49	5		5		5		5		5		5	
1/4	3,733.07	1/4	4,091.99	1/4	4,449.97	1/4	4,807.95	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,740.55	1/2	4,099.45	1/2	4,457.43	1/2	4,815.41	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,748.03	3/4	4,106.91	3/4	4,464.89	3/4	4,822.87	3/4		3/4		3/4		3/4		3/4		3/4	
6	3,755.51	6	4,114.37	6	4,472.35	6	4,830.32	6		6		6		6		6		6	
1/4	3,762.99	1/4	4,121.82	1/4	4,479.80	1/4	4,837.72	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,770.47	1/2	4,129.28	1/2	4,487.26	1/2	4,845.11	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,777.95	3/4	4,136.74	3/4	4,494.72	3/4	4,852.50	3/4		3/4		3/4		3/4		3/4		3/4	
7	3,785.43	7	4,144.20	7	4,502.18	7	4,859.89	7		7		7		7		7		7	
1/4	3,792.91	1/4	4,151.66	1/4	4,509.64	1/4	4,867.29	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,800.39	1/2	4,159.11	1/2	4,517.09	1/2	4,874.68	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,807.87	3/4	4,166.57	3/4	4,524.55	3/4	4,882.07	3/4		3/4		3/4		3/4		3/4		3/4	
8	3,815.35	8	4,174.03	8	4,532.01	8	4,889.46	8		8		8		8		8		8	
1/4	3,822.83	1/4	4,181.49	1/4	4,539.47	1/4	4,896.86	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,830.31	1/2	4,188.95	1/2	4,546.92	1/2	4,904.25	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,837.79	3/4	4,196.40	3/4	4,554.38	3/4	4,911.64	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,845.27	9	4,203.86	9	4,561.84	9	4,919.03	9		9		9		9		9		9	
1/4	3,852.75	1/4	4,211.32	1/4	4,569.30	1/4	4,926.42	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,860.23	1/2	4,218.78	1/2	4,576.76	1/2	4,933.82	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,867.71	3/4	4,226.24	3/4	4,584.21	3/4	4,941.21	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,875.19	10	4,233.69	10	4,591.67	10	4,948.60	10		10		10		10		10		10	
1/4	3,882.67	1/4	4,241.15	1/4	4,599.13	1/4	4,955.99	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,890.15	1/2	4,248.61	1/2	4,606.59	1/2	4,963.38	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,897.63	3/4	4,256.07	3/4	4,614.05	3/4	4,970.76	3/4		3/4		3/4		3/4		3/4		3/4	
11	3,905.11	11	4,263.52	11	4,621.50	11	4,978.15	11		11		11		11		11		11	
1/4	3,912.59	1/4	4,270.98	1/4	4,628.96	1/4	4,985.53	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,920.07	1/2	4,278.44	1/2	4,636.42	1/2	4,992.91	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,927.55	3/4	4,285.90	3/4	4,643.88	3/4	5,000.28	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 07/10/2018 CL
CALCULATED: 07/11/2018 CL
PRINTED: 07/11/2018 CL

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 310"

2 STBD INNAGE TABLE

HERMETIC GAUGE HEIGHT 15'-09 1/4"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	15.33	0	359.33	0	718.49	0	1,077.25	0	1,436.31	0	1,795.47	0	2,154.63	0	2,513.79	0	2,872.89	0	3,231.95
1/4	20.01	1/4	366.81	1/4	725.97	1/4	1,084.72	1/4	1,443.79	1/4	1,802.95	1/4	2,162.11	1/4	2,521.27	1/4	2,880.37	1/4	3,239.43
1/2	24.68	1/2	374.29	1/2	733.45	1/2	1,092.19	1/2	1,451.27	1/2	1,810.43	1/2	2,169.59	1/2	2,528.75	1/2	2,887.85	1/2	3,246.91
3/4	29.36	3/4	381.77	3/4	740.93	3/4	1,099.65	3/4	1,458.76	3/4	1,817.92	3/4	2,177.08	3/4	2,536.24	3/4	2,895.33	3/4	3,254.39
1	34.04	1	389.26	1	748.42	1	1,107.12	1	1,466.24	1	1,825.40	1	2,184.56	1	2,543.72	1	2,902.81	1	3,261.87
1/4	40.58	1/4	396.74	1/4	755.90	1/4	1,114.60	1/4	1,473.72	1/4	1,832.88	1/4	2,192.04	1/4	2,551.20	1/4	2,910.29	1/4	3,269.35
1/2	47.13	1/2	404.22	1/2	763.38	1/2	1,122.08	1/2	1,481.20	1/2	1,840.36	1/2	2,199.52	1/2	2,558.68	1/2	2,917.77	1/2	3,276.83
3/4	53.67	3/4	411.70	3/4	770.86	3/4	1,129.55	3/4	1,488.69	3/4	1,847.85	3/4	2,207.01	3/4	2,566.17	3/4	2,925.25	3/4	3,284.31
2	60.22	2	419.19	2	778.35	2	1,137.03	2	1,496.17	2	1,855.33	2	2,214.49	2	2,573.65	2	2,932.73	2	3,291.79
1/4	67.67	1/4	426.67	1/4	785.83	1/4	1,144.51	1/4	1,503.65	1/4	1,862.81	1/4	2,221.97	1/4	2,581.13	1/4	2,940.21	1/4	3,299.27
1/2	75.11	1/2	434.15	1/2	793.31	1/2	1,151.98	1/2	1,511.13	1/2	1,870.29	1/2	2,229.45	1/2	2,588.61	1/2	2,947.69	1/2	3,306.75
3/4	82.56	3/4	441.63	3/4	800.79	3/4	1,159.46	3/4	1,518.62	3/4	1,877.78	3/4	2,236.94	3/4	2,596.10	3/4	2,955.17	3/4	3,314.23
3	90.00	3	449.12	3	808.28	3	1,166.94	3	1,526.10	3	1,885.26	3	2,244.42	3	2,603.58	3	2,962.65	3	3,321.71
1/4	97.48	1/4	456.60	1/4	815.76	1/4	1,174.42	1/4	1,533.58	1/4	1,892.74	1/4	2,251.90	1/4	2,611.06	1/4	2,970.13	1/4	3,329.19
1/2	104.95	1/2	464.08	1/2	823.24	1/2	1,181.90	1/2	1,541.06	1/2	1,900.22	1/2	2,259.38	1/2	2,618.54	1/2	2,977.61	1/2	3,336.67
3/4	112.42	3/4	471.56	3/4	830.72	3/4	1,189.39	3/4	1,548.55	3/4	1,907.71	3/4	2,266.87	3/4	2,626.03	3/4	2,985.09	3/4	3,344.15
4	119.89	4	479.05	4	838.21	4	1,196.87	4	1,556.03	4	1,915.19	4	2,274.35	4	2,633.51	4	2,992.58	4	3,351.63
1/4	127.37	1/4	486.53	1/4	845.69	1/4	1,204.35	1/4	1,563.51	1/4	1,922.67	1/4	2,281.83	1/4	2,640.99	1/4	3,000.06	1/4	3,359.11
1/2	134.85	1/2	494.01	1/2	853.17	1/2	1,211.83	1/2	1,570.99	1/2	1,930.15	1/2	2,289.31	1/2	2,648.47	1/2	3,007.54	1/2	3,366.60
3/4	142.33	3/4	501.49	3/4	860.65	3/4	1,219.32	3/4	1,578.48	3/4	1,937.64	3/4	2,296.80	3/4	2,655.96	3/4	3,015.02	3/4	3,374.08
5	149.82	5	508.98	5	868.14	5	1,226.80	5	1,585.96	5	1,945.12	5	2,304.28	5	2,663.44	5	3,022.50	5	3,381.56
1/4	157.30	1/4	516.46	1/4	875.60	1/4	1,234.28	1/4	1,593.44	1/4	1,952.60	1/4	2,311.76	1/4	2,670.92	1/4	3,029.98	1/4	3,389.04
1/2	164.78	1/2	523.94	1/2	883.07	1/2	1,241.76	1/2	1,600.92	1/2	1,960.08	1/2	2,319.24	1/2	2,678.40	1/2	3,037.46	1/2	3,396.52
3/4	172.26	3/4	531.42	3/4	890.54	3/4	1,249.25	3/4	1,608.41	3/4	1,967.57	3/4	2,326.73	3/4	2,685.88	3/4	3,044.94	3/4	3,404.00
6	179.75	6	538.91	6	898.01	6	1,256.73	6	1,615.89	6	1,975.05	6	2,334.21	6	2,693.36	6	3,052.42	6	3,411.48
1/4	187.23	1/4	546.39	1/4	905.48	1/4	1,264.21	1/4	1,623.37	1/4	1,982.53	1/4	2,341.69	1/4	2,700.84	1/4	3,059.90	1/4	3,418.96
1/2	194.71	1/2	553.87	1/2	912.95	1/2	1,271.69	1/2	1,630.85	1/2	1,990.01	1/2	2,349.17	1/2	2,708.32	1/2	3,067.38	1/2	3,426.44
3/4	202.19	3/4	561.35	3/4	920.41	3/4	1,279.18	3/4	1,638.34	3/4	1,997.50	3/4	2,356.66	3/4	2,715.80	3/4	3,074.86	3/4	3,433.92
7	209.68	7	568.84	7	927.88	7	1,286.66	7	1,645.82	7	2,004.98	7	2,364.14	7	2,723.28	7	3,082.34	7	3,441.40
1/4	217.16	1/4	576.32	1/4	935.35	1/4	1,294.14	1/4	1,653.30	1/4	2,012.46	1/4	2,371.62	1/4	2,730.76	1/4	3,089.82	1/4	3,448.88
1/2	224.64	1/2	583.80	1/2	942.82	1/2	1,301.62	1/2	1,660.78	1/2	2,019.94	1/2	2,379.10	1/2	2,738.24	1/2	3,097.30	1/2	3,456.36
3/4	232.12	3/4	591.28	3/4	950.29	3/4	1,309.11	3/4	1,668.27	3/4	2,027.43	3/4	2,386.59	3/4	2,745.72	3/4	3,104.78	3/4	3,463.84
8	239.61	8	598.77	8	957.76	8	1,316.59	8	1,675.75	8	2,034.91	8	2,394.07	8	2,753.20	8	3,112.26	8	3,471.32
1/4	247.09	1/4	606.25	1/4	965.22	1/4	1,324.07	1/4	1,683.23	1/4	2,042.39	1/4	2,401.55	1/4	2,760.68	1/4	3,119.74	1/4	3,478.80
1/2	254.57	1/2	613.73	1/2	972.69	1/2	1,331.55	1/2	1,690.71	1/2	2,049.87	1/2	2,409.03	1/2	2,768.16	1/2	3,127.22	1/2	3,486.28
3/4	262.05	3/4	621.21	3/4	980.16	3/4	1,339.04	3/4	1,698.20	3/4	2,057.36	3/4	2,416.52	3/4	2,775.64	3/4	3,134.70	3/4	3,493.76
9	269.54	9	628.70	9	987.63	9	1,346.52	9	1,705.68	9	2,064.84	9	2,424.00	9	2,783.12	9	3,142.18	9	3,501.24
1/4	277.02	1/4	636.18	1/4	995.10	1/4	1,354.00	1/4	1,713.16	1/4	2,072.32	1/4	2,431.48	1/4	2,790.60	1/4	3,149.66	1/4	3,508.72
1/2	284.50	1/2	643.66	1/2	1,002.57	1/2	1,361.48	1/2	1,720.64	1/2	2,079.80	1/2	2,438.96	1/2	2,798.08	1/2	3,157.14	1/2	3,516.20
3/4	291.98	3/4	651.14	3/4	1,010.03	3/4	1,368.97	3/4	1,728.13	3/4	2,087.29	3/4	2,446.45	3/4	2,805.57	3/4	3,164.62	3/4	3,523.68
10	299.47	10	658.63	10	1,017.50	10	1,376.45	10	1,735.61	10	2,094.77	10	2,453.93	10	2,813.05	10	3,172.10	10	3,531.16
1/4	306.95	1/4	666.11	1/4	1,024.97	1/4	1,383.93	1/4	1,743.09	1/4	2,102.25	1/4	2,461.41	1/4	2,820.53	1/4	3,179.59	1/4	3,538.64
1/2	314.43	1/2	673.59	1/2	1,032.44	1/2	1,391.41	1/2	1,750.57	1/2	2,109.73	1/2	2,468.89	1/2	2,828.01	1/2	3,187.07	1/2	3,546.12
3/4	321.91	3/4	681.07	3/4	1,039.91	3/4	1,398.90	3/4	1,758.06	3/4	2,117.22	3/4	2,476.38	3/4	2,835.49	3/4	3,194.55	3/4	3,553.61
11	329.40	11	688.56	11	1,047.38	11	1,406.38	11	1,765.54	11	2,124.70	11	2,483.86	11	2,842.97	11	3,202.03	11	3,561.09
1/4	336.88	1/4	696.04	1/4	1,054.84	1/4	1,413.86	1/4	1,773.02	1/4	2,132.18	1/4	2,491.34	1/4	2,850.45	1/4	3,209.51	1/4	3,568.57
1/2	344.36	1/2	703.52	1/2	1,062.31	1/2	1,421.34	1/2	1,780.50	1/2	2,139.66	1/2	2,498.82	1/2	2,857.93	1/2	3,216.99	1/2	3,576.05
3/4	351.84	3/4	711.00	3/4	1,069.78	3/4	1,428.83	3/4	1,787.99	3/4	2,147.15	3/4	2,506.31	3/4	2,865.41	3/4	3,224.47	3/4	3,583.53

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 OF 2" HERMETIC VALVE
 GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 43'-06" FORWARD OF AFT BULKHEAD

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



BARGE "E2MS 310"

2 STBD

INNAGE TABLE HERMETIC

GAUGE HEIGHT 15'-09 1/4"

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	3,591.01	0	3,950.07	0	4,308.43	0	4,666.45	0	5,022.66	0		0		0		0		0	
1/4	3,598.49	1/4	3,957.55	1/4	4,315.89	1/4	4,673.91	1/4	5,029.97	1/4		1/4		1/4		1/4		1/4	
1/2	3,605.97	1/2	3,965.03	1/2	4,323.35	1/2	4,681.37	1/2	5,037.29	1/2		1/2		1/2		1/2		1/2	
3/4	3,613.45	3/4	3,972.51	3/4	4,330.81	3/4	4,688.82	3/4	5,044.60	3/4		3/4		3/4		3/4		3/4	
1	3,620.93	1	3,979.99	1	4,338.27	1	4,696.28	1	5,051.92	1		1		1		1		1	
1/4	3,628.41	1/4	3,987.47	1/4	4,345.72	1/4	4,703.74	1/4	5,058.37	1/4		1/4		1/4		1/4		1/4	
1/2	3,635.89	1/2	3,994.95	1/2	4,353.18	1/2	4,711.20	1/2	5,064.82	1/2		1/2		1/2		1/2		1/2	
3/4	3,643.37	3/4	4,002.43	3/4	4,360.64	3/4	4,718.66	3/4	5,071.28	3/4		3/4		3/4		3/4		3/4	
2	3,650.85	2	4,009.91	2	4,368.10	2	4,726.12	2	5,077.73	2		2		2		2		2	
1/4	3,658.33	1/4	4,017.39	1/4	4,375.56	1/4	4,733.58	1/4	5,082.93	1/4		1/4		1/4		1/4		1/4	
1/2	3,665.81	1/2	4,024.87	1/2	4,383.02	1/2	4,741.04	1/2	5,088.14	1/2		1/2		1/2		1/2		1/2	
3/4	3,673.29	3/4	4,032.35	3/4	4,390.48	3/4	4,748.49	3/4	5,093.34	3/4		3/4		3/4		3/4		3/4	
3	3,680.77	3	4,039.83	3	4,397.94	3	4,755.95	3	5,098.55	3		3		3		3		3	
1/4	3,688.25	1/4	4,047.31	1/4	4,405.39	1/4	4,763.41	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,695.73	1/2	4,054.79	1/2	4,412.85	1/2	4,770.87	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,703.21	3/4	4,062.27	3/4	4,420.31	3/4	4,778.33	3/4		3/4		3/4		3/4		3/4		3/4	
4	3,710.69	4	4,069.75	4	4,427.77	4	4,785.79	4		4		4		4		4		4	
1/4	3,718.17	1/4	4,077.21	1/4	4,435.23	1/4	4,793.25	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,725.65	1/2	4,084.67	1/2	4,442.69	1/2	4,800.71	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,733.13	3/4	4,092.13	3/4	4,450.15	3/4	4,808.16	3/4		3/4		3/4		3/4		3/4		3/4	
5	3,740.62	5	4,099.59	5	4,457.61	5	4,815.62	5		5		5		5		5		5	
1/4	3,748.10	1/4	4,107.05	1/4	4,465.06	1/4	4,823.08	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,755.58	1/2	4,114.51	1/2	4,472.52	1/2	4,830.54	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,763.06	3/4	4,121.96	3/4	4,479.98	3/4	4,838.00	3/4		3/4		3/4		3/4		3/4		3/4	
6	3,770.54	6	4,129.42	6	4,487.44	6	4,845.46	6		6		6		6		6		6	
1/4	3,778.02	1/4	4,136.88	1/4	4,494.90	1/4	4,852.84	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,785.50	1/2	4,144.34	1/2	4,502.36	1/2	4,860.23	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,792.98	3/4	4,151.80	3/4	4,509.82	3/4	4,867.61	3/4		3/4		3/4		3/4		3/4		3/4	
7	3,800.46	7	4,159.26	7	4,517.27	7	4,875.00	7		7		7		7		7		7	
1/4	3,807.94	1/4	4,166.72	1/4	4,524.73	1/4	4,882.38	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,815.42	1/2	4,174.17	1/2	4,532.19	1/2	4,889.77	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,822.90	3/4	4,181.63	3/4	4,539.65	3/4	4,897.15	3/4		3/4		3/4		3/4		3/4		3/4	
8	3,830.38	8	4,189.09	8	4,547.11	8	4,904.54	8		8		8		8		8		8	
1/4	3,837.86	1/4	4,196.55	1/4	4,554.57	1/4	4,911.92	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,845.34	1/2	4,204.01	1/2	4,562.03	1/2	4,919.31	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,852.82	3/4	4,211.47	3/4	4,569.49	3/4	4,926.69	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,860.30	9	4,218.93	9	4,576.94	9	4,934.08	9		9		9		9		9		9	
1/4	3,867.78	1/4	4,226.39	1/4	4,584.40	1/4	4,941.46	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,875.26	1/2	4,233.84	1/2	4,591.86	1/2	4,948.85	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,882.74	3/4	4,241.30	3/4	4,599.32	3/4	4,956.24	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,890.22	10	4,248.76	10	4,606.78	10	4,963.62	10		10		10		10		10		10	
1/4	3,897.70	1/4	4,256.22	1/4	4,614.24	1/4	4,971.01	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,905.18	1/2	4,263.68	1/2	4,621.70	1/2	4,978.39	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,912.66	3/4	4,271.14	3/4	4,629.16	3/4	4,985.78	3/4		3/4		3/4		3/4		3/4		3/4	
11	3,920.14	11	4,278.60	11	4,636.61	11	4,993.17	11		11		11		11		11		11	
1/4	3,927.63	1/4	4,286.06	1/4	4,644.07	1/4	5,000.54	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,935.11	1/2	4,293.51	1/2	4,651.53	1/2	5,007.91	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,942.59	3/4	4,300.97	3/4	4,658.99	3/4	5,015.28	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 07/10/2018 CL
CALCULATED: 07/11/2018 CL
PRINTED: 07/11/2018 CL

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 310"

3 PORT INNAGE TABLE

HERMETIC GAUGE HEIGHT 15'-09"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	15.27	0	357.84	0	715.05	0	1,062.61	0	1,415.82	0	1,772.73	0	2,128.91	0	2,485.80	0	2,842.41	0	3,198.99
1/4	19.93	1/4	365.29	1/4	722.50	1/4	1,069.76	1/4	1,423.26	1/4	1,780.15	1/4	2,136.34	1/4	2,493.23	1/4	2,849.84	1/4	3,206.39
1/2	24.59	1/2	372.73	1/2	729.94	1/2	1,076.91	1/2	1,430.70	1/2	1,787.57	1/2	2,143.78	1/2	2,500.66	1/2	2,857.27	1/2	3,213.79
3/4	29.25	3/4	380.17	3/4	737.38	3/4	1,084.05	3/4	1,438.13	3/4	1,794.99	3/4	2,151.21	3/4	2,508.09	3/4	2,864.69	3/4	3,221.19
1	33.91	1	387.61	1	744.82	1	1,091.20	1	1,445.57	1	1,802.41	1	2,158.64	1	2,515.52	1	2,872.12	1	3,228.59
1/4	40.43	1/4	395.05	1/4	752.26	1/4	1,098.41	1/4	1,453.01	1/4	1,809.83	1/4	2,166.08	1/4	2,522.95	1/4	2,879.55	1/4	3,235.99
1/2	46.95	1/2	402.49	1/2	759.71	1/2	1,105.63	1/2	1,460.44	1/2	1,817.25	1/2	2,173.51	1/2	2,530.38	1/2	2,886.98	1/2	3,243.39
3/4	53.47	3/4	409.94	3/4	767.15	3/4	1,112.84	3/4	1,467.88	3/4	1,824.67	3/4	2,180.94	3/4	2,537.81	3/4	2,894.41	3/4	3,250.80
2	59.99	2	417.38	2	774.59	2	1,120.06	2	1,475.32	2	1,832.09	2	2,188.38	2	2,545.24	2	2,901.84	2	3,258.20
1/4	67.41	1/4	424.82	1/4	782.03	1/4	1,127.27	1/4	1,482.75	1/4	1,839.51	1/4	2,195.81	1/4	2,552.67	1/4	2,909.27	1/4	3,265.60
1/2	74.82	1/2	432.26	1/2	789.47	1/2	1,134.49	1/2	1,490.19	1/2	1,846.93	1/2	2,203.24	1/2	2,560.10	1/2	2,916.70	1/2	3,273.00
3/4	82.24	3/4	439.70	3/4	796.92	3/4	1,141.71	3/4	1,497.63	3/4	1,854.35	3/4	2,210.68	3/4	2,567.53	3/4	2,924.13	3/4	3,280.40
3	89.66	3	447.15	3	804.36	3	1,148.92	3	1,505.06	3	1,861.78	3	2,218.11	3	2,574.96	3	2,931.55	3	3,287.80
1/4	97.10	1/4	454.59	1/4	811.74	1/4	1,156.15	1/4	1,512.50	1/4	1,869.20	1/4	2,225.55	1/4	2,582.39	1/4	2,938.98	1/4	3,295.20
1/2	104.54	1/2	462.03	1/2	819.11	1/2	1,163.38	1/2	1,519.94	1/2	1,876.62	1/2	2,232.98	1/2	2,589.82	1/2	2,946.41	1/2	3,302.60
3/4	111.99	3/4	469.47	3/4	826.49	3/4	1,170.61	3/4	1,527.38	3/4	1,884.04	3/4	2,240.41	3/4	2,597.25	3/4	2,953.84	3/4	3,310.00
4	119.43	4	476.91	4	833.87	4	1,177.84	4	1,534.81	4	1,891.46	4	2,247.85	4	2,604.68	4	2,961.27	4	3,317.40
1/4	126.88	1/4	484.36	1/4	841.04	1/4	1,185.28	1/4	1,542.25	1/4	1,898.88	1/4	2,255.28	1/4	2,612.11	1/4	2,968.70	1/4	3,324.80
1/2	134.33	1/2	491.80	1/2	848.21	1/2	1,192.71	1/2	1,549.69	1/2	1,906.30	1/2	2,262.71	1/2	2,619.54	1/2	2,976.13	1/2	3,332.20
3/4	141.79	3/4	499.24	3/4	855.38	3/4	1,200.15	3/4	1,557.12	3/4	1,913.72	3/4	2,270.15	3/4	2,626.97	3/4	2,983.56	3/4	3,339.60
5	149.24	5	506.68	5	862.54	5	1,207.59	5	1,564.56	5	1,921.14	5	2,277.58	5	2,634.40	5	2,990.98	5	3,347.00
1/4	156.69	1/4	514.12	1/4	869.69	1/4	1,215.03	1/4	1,572.00	1/4	1,928.56	1/4	2,285.02	1/4	2,641.83	1/4	2,998.41	1/4	3,354.40
1/2	164.14	1/2	521.56	1/2	876.83	1/2	1,222.46	1/2	1,579.43	1/2	1,935.98	1/2	2,292.46	1/2	2,649.26	1/2	3,005.84	1/2	3,361.79
3/4	171.60	3/4	529.01	3/4	883.98	3/4	1,229.90	3/4	1,586.87	3/4	1,943.40	3/4	2,299.90	3/4	2,656.69	3/4	3,013.27	3/4	3,369.19
6	179.05	6	536.45	6	891.12	6	1,237.34	6	1,594.31	6	1,950.82	6	2,307.34	6	2,664.12	6	3,020.70	6	3,376.59
1/4	186.51	1/4	543.89	1/4	898.27	1/4	1,244.77	1/4	1,601.74	1/4	1,958.24	1/4	2,314.78	1/4	2,671.55	1/4	3,028.13	1/4	3,383.97
1/2	193.96	1/2	551.33	1/2	905.42	1/2	1,252.21	1/2	1,609.18	1/2	1,965.66	1/2	2,322.21	1/2	2,678.97	1/2	3,035.56	1/2	3,391.36
3/4	201.41	3/4	558.77	3/4	912.56	3/4	1,259.65	3/4	1,616.62	3/4	1,973.08	3/4	2,329.65	3/4	2,686.40	3/4	3,042.99	3/4	3,398.75
7	208.87	7	566.22	7	919.71	7	1,267.08	7	1,624.06	7	1,980.50	7	2,337.09	7	2,693.83	7	3,050.41	7	3,406.13
1/4	216.32	1/4	573.66	1/4	926.85	1/4	1,274.52	1/4	1,631.49	1/4	1,987.93	1/4	2,344.53	1/4	2,701.26	1/4	3,057.84	1/4	3,413.29
1/2	223.77	1/2	581.10	1/2	934.00	1/2	1,281.96	1/2	1,638.93	1/2	1,995.35	1/2	2,351.97	1/2	2,708.69	1/2	3,065.27	1/2	3,420.45
3/4	231.23	3/4	588.54	3/4	941.14	3/4	1,289.39	3/4	1,646.37	3/4	2,002.77	3/4	2,359.41	3/4	2,716.12	3/4	3,072.70	3/4	3,427.61
8	238.68	8	595.98	8	948.29	8	1,296.83	8	1,653.80	8	2,010.19	8	2,366.85	8	2,723.55	8	3,080.13	8	3,434.77
1/4	246.13	1/4	603.43	1/4	955.43	1/4	1,304.27	1/4	1,661.24	1/4	2,017.61	1/4	2,374.29	1/4	2,730.98	1/4	3,087.56	1/4	3,441.46
1/2	253.59	1/2	610.87	1/2	962.58	1/2	1,311.71	1/2	1,668.68	1/2	2,025.03	1/2	2,381.73	1/2	2,738.41	1/2	3,094.99	1/2	3,448.14
3/4	261.04	3/4	618.31	3/4	969.72	3/4	1,319.14	3/4	1,676.11	3/4	2,032.45	3/4	2,389.17	3/4	2,745.83	3/4	3,102.42	3/4	3,454.82
9	268.49	9	625.75	9	976.87	9	1,326.58	9	1,683.55	9	2,039.87	9	2,396.61	9	2,753.26	9	3,109.85	9	3,461.50
1/4	275.95	1/4	633.19	1/4	984.01	1/4	1,334.02	1/4	1,690.99	1/4	2,047.28	1/4	2,404.04	1/4	2,760.69	1/4	3,117.27	1/4	3,467.70
1/2	283.40	1/2	640.64	1/2	991.16	1/2	1,341.45	1/2	1,698.42	1/2	2,054.70	1/2	2,411.48	1/2	2,768.12	1/2	3,124.70	1/2	3,473.91
3/4	290.85	3/4	648.08	3/4	998.31	3/4	1,348.89	3/4	1,705.86	3/4	2,062.11	3/4	2,418.92	3/4	2,775.55	3/4	3,132.13	3/4	3,480.11
10	298.31	10	655.52	10	1,005.45	10	1,356.33	10	1,713.30	10	2,069.52	10	2,426.36	10	2,782.98	10	3,139.56	10	3,486.32
1/4	305.75	1/4	662.96	1/4	1,012.60	1/4	1,363.76	1/4	1,720.73	1/4	2,076.94	1/4	2,433.79	1/4	2,790.41	1/4	3,146.99	1/4	3,492.05
1/2	313.19	1/2	670.40	1/2	1,019.74	1/2	1,371.20	1/2	1,728.17	1/2	2,084.35	1/2	2,441.22	1/2	2,797.84	1/2	3,154.42	1/2	3,497.79
3/4	320.63	3/4	677.84	3/4	1,026.89	3/4	1,378.64	3/4	1,735.61	3/4	2,091.76	3/4	2,448.65	3/4	2,805.26	3/4	3,161.85	3/4	3,503.53
11	328.08	11	685.29	11	1,034.03	11	1,386.07	11	1,743.05	11	2,099.18	11	2,456.08	11	2,812.69	11	3,169.28	11	3,509.26
1/4	335.52	1/4	692.73	1/4	1,041.18	1/4	1,393.51	1/4	1,750.47	1/4	2,106.61	1/4	2,463.51	1/4	2,820.12	1/4	3,176.70	1/4	3,514.52
1/2	342.96	1/2	700.17	1/2	1,048.32	1/2	1,400.95	1/2	1,757.89	1/2	2,114.04	1/2	2,470.94	1/2	2,827.55	1/2	3,184.13	1/2	3,519.78
3/4	350.40	3/4	707.61	3/4	1,055.47	3/4	1,408.39	3/4	1,765.31	3/4	2,121.48	3/4	2,478.37	3/4	2,834.98	3/4	3,191.56	3/4	3,525.04

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 OF 2" HERMETIC VALVE
 GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 42'-06" FORWARD OF AFT BULKHEAD

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



BARGE "E2MS 310"

3 PORT INNAGE TABLE HERMETIC GAUGE HEIGHT 15'-09"

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	3,530.29	0	3,750.87	0	3,970.08	0	4,189.09	0	4,407.00	0		0		0		0		0	
1/4	3,535.11	1/4	3,755.45	1/4	3,974.64	1/4	4,193.65	1/4	4,411.47	1/4		1/4		1/4		1/4		1/4	
1/2	3,539.92	1/2	3,760.02	1/2	3,979.21	1/2	4,198.21	1/2	4,415.95	1/2		1/2		1/2		1/2		1/2	
3/4	3,544.74	3/4	3,764.60	3/4	3,983.77	3/4	4,202.77	3/4	4,420.42	3/4		3/4		3/4		3/4		3/4	
1	3,549.55	1	3,769.17	1	3,988.33	1	4,207.34	1	4,424.90	1		1		1		1		1	
1/4	3,554.13	1/4	3,773.75	1/4	3,992.89	1/4	4,211.90	1/4	4,428.84	1/4		1/4		1/4		1/4		1/4	
1/2	3,558.70	1/2	3,778.32	1/2	3,997.46	1/2	4,216.46	1/2	4,432.79	1/2		1/2		1/2		1/2		1/2	
3/4	3,563.28	3/4	3,782.90	3/4	4,002.02	3/4	4,221.02	3/4	4,436.74	3/4		3/4		3/4		3/4		3/4	
2	3,567.86	2	3,787.47	2	4,006.58	2	4,225.59	2	4,440.68	2		2		2		2		2	
1/4	3,572.43	1/4	3,792.05	1/4	4,011.14	1/4	4,230.15	1/4	4,443.87	1/4		1/4		1/4		1/4		1/4	
1/2	3,577.01	1/2	3,796.63	1/2	4,015.71	1/2	4,234.71	1/2	4,447.05	1/2		1/2		1/2		1/2		1/2	
3/4	3,581.58	3/4	3,801.20	3/4	4,020.27	3/4	4,239.27	3/4	4,450.24	3/4		3/4		3/4		3/4		3/4	
3	3,586.16	3	3,805.78	3	4,024.83	3	4,243.84	3	4,453.42	3		3		3		3		3	
1/4	3,590.73	1/4	3,810.35	1/4	4,029.39	1/4	4,248.40	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,595.31	1/2	3,814.93	1/2	4,033.96	1/2	4,252.96	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,599.88	3/4	3,819.50	3/4	4,038.52	3/4	4,257.52	3/4		3/4		3/4		3/4		3/4		3/4	
4	3,604.46	4	3,824.08	4	4,043.08	4	4,262.09	4		4		4		4		4		4	
1/4	3,609.03	1/4	3,828.64	1/4	4,047.64	1/4	4,266.65	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,613.61	1/2	3,833.20	1/2	4,052.21	1/2	4,271.21	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,618.18	3/4	3,837.77	3/4	4,056.77	3/4	4,275.77	3/4		3/4		3/4		3/4		3/4		3/4	
5	3,622.76	5	3,842.33	5	4,061.33	5	4,280.34	5		5		5		5		5		5	
1/4	3,627.34	1/4	3,846.89	1/4	4,065.90	1/4	4,284.90	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,631.91	1/2	3,851.45	1/2	4,070.46	1/2	4,289.46	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,636.49	3/4	3,856.02	3/4	4,075.02	3/4	4,294.03	3/4		3/4		3/4		3/4		3/4		3/4	
6	3,641.06	6	3,860.58	6	4,079.58	6	4,298.59	6		6		6		6		6		6	
1/4	3,645.64	1/4	3,865.14	1/4	4,084.15	1/4	4,303.11	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,650.21	1/2	3,869.70	1/2	4,088.71	1/2	4,307.62	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,654.79	3/4	3,874.27	3/4	4,093.27	3/4	4,312.14	3/4		3/4		3/4		3/4		3/4		3/4	
7	3,659.36	7	3,878.83	7	4,097.83	7	4,316.66	7		7		7		7		7		7	
1/4	3,663.94	1/4	3,883.39	1/4	4,102.40	1/4	4,321.18	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,668.51	1/2	3,887.95	1/2	4,106.96	1/2	4,325.70	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,673.09	3/4	3,892.52	3/4	4,111.52	3/4	4,330.21	3/4		3/4		3/4		3/4		3/4		3/4	
8	3,677.66	8	3,897.08	8	4,116.08	8	4,334.73	8		8		8		8		8		8	
1/4	3,682.24	1/4	3,901.64	1/4	4,120.65	1/4	4,339.25	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,686.82	1/2	3,906.20	1/2	4,125.21	1/2	4,343.77	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,691.39	3/4	3,910.77	3/4	4,129.77	3/4	4,348.29	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,695.97	9	3,915.33	9	4,134.33	9	4,352.81	9		9		9		9		9		9	
1/4	3,700.54	1/4	3,919.89	1/4	4,138.90	1/4	4,357.32	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,705.12	1/2	3,924.45	1/2	4,143.46	1/2	4,361.84	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,709.69	3/4	3,929.02	3/4	4,148.02	3/4	4,366.36	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,714.27	10	3,933.58	10	4,152.58	10	4,370.88	10		10		10		10		10		10	
1/4	3,718.84	1/4	3,938.14	1/4	4,157.15	1/4	4,375.40	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,723.42	1/2	3,942.71	1/2	4,161.71	1/2	4,379.92	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,727.99	3/4	3,947.27	3/4	4,166.27	3/4	4,384.44	3/4		3/4		3/4		3/4		3/4		3/4	
11	3,732.57	11	3,951.83	11	4,170.84	11	4,388.96	11		11		11		11		11		11	
1/4	3,737.14	1/4	3,956.39	1/4	4,175.40	1/4	4,393.47	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,741.72	1/2	3,960.96	1/2	4,179.96	1/2	4,397.98	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,746.30	3/4	3,965.52	3/4	4,184.52	3/4	4,402.49	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 07/10/2018 CL
CALCULATED: 07/11/2018 CL
PRINTED: 07/11/2018 CL

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 310"

3 STBD INNAGE TABLE

HERMETIC GAUGE HEIGHT 15'-08 1/2"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	15.28	0	358.13	0	716.09	0	1,073.65	0	1,431.52	0	1,789.50	0	2,147.47	0	2,505.37	0	2,862.86	0	3,220.34
1/4	19.94	1/4	365.59	1/4	723.55	1/4	1,081.10	1/4	1,438.98	1/4	1,796.96	1/4	2,154.93	1/4	2,512.82	1/4	2,870.31	1/4	3,227.76
1/2	24.60	1/2	373.05	1/2	731.01	1/2	1,088.54	1/2	1,446.44	1/2	1,804.41	1/2	2,162.39	1/2	2,520.27	1/2	2,877.76	1/2	3,235.18
3/4	29.26	3/4	380.50	3/4	738.47	3/4	1,095.98	3/4	1,453.90	3/4	1,811.87	3/4	2,169.85	3/4	2,527.71	3/4	2,885.21	3/4	3,242.60
1	33.92	1	387.96	1	745.93	1	1,103.43	1	1,461.35	1	1,819.33	1	2,177.30	1	2,535.16	1	2,892.65	1	3,250.02
1/4	40.45	1/4	395.42	1/4	753.38	1/4	1,110.88	1/4	1,468.81	1/4	1,826.79	1/4	2,184.76	1/4	2,542.61	1/4	2,900.10	1/4	3,257.44
1/2	46.97	1/2	402.88	1/2	760.84	1/2	1,118.33	1/2	1,476.27	1/2	1,834.24	1/2	2,192.22	1/2	2,550.06	1/2	2,907.55	1/2	3,264.86
3/4	53.50	3/4	410.33	3/4	768.30	3/4	1,125.78	3/4	1,483.73	3/4	1,841.70	3/4	2,199.68	3/4	2,557.51	3/4	2,915.00	3/4	3,272.28
2	60.02	2	417.79	2	775.76	2	1,133.23	2	1,491.19	2	1,849.16	2	2,207.13	2	2,564.96	2	2,922.44	2	3,279.70
1/4	67.44	1/4	425.25	1/4	783.21	1/4	1,140.69	1/4	1,498.64	1/4	1,856.62	1/4	2,214.59	1/4	2,572.40	1/4	2,929.89	1/4	3,287.11
1/2	74.86	1/2	432.71	1/2	790.67	1/2	1,148.14	1/2	1,506.10	1/2	1,864.08	1/2	2,222.05	1/2	2,579.85	1/2	2,937.34	1/2	3,294.53
3/4	82.28	3/4	440.16	3/4	798.13	3/4	1,155.59	3/4	1,513.56	3/4	1,871.53	3/4	2,229.51	3/4	2,587.30	3/4	2,944.79	3/4	3,301.95
3	89.70	3	447.62	3	805.59	3	1,163.04	3	1,521.02	3	1,878.99	3	2,236.97	3	2,594.75	3	2,952.23	3	3,309.37
1/4	97.15	1/4	455.08	1/4	813.04	1/4	1,170.50	1/4	1,528.47	1/4	1,886.45	1/4	2,244.42	1/4	2,602.20	1/4	2,959.68	1/4	3,316.79
1/2	104.60	1/2	462.54	1/2	820.50	1/2	1,177.96	1/2	1,535.93	1/2	1,893.91	1/2	2,251.88	1/2	2,609.64	1/2	2,967.13	1/2	3,324.21
3/4	112.05	3/4	469.99	3/4	827.96	3/4	1,185.42	3/4	1,543.39	3/4	1,901.36	3/4	2,259.34	3/4	2,617.09	3/4	2,974.58	3/4	3,331.63
4	119.49	4	477.45	4	835.42	4	1,192.87	4	1,550.85	4	1,908.82	4	2,266.80	4	2,624.54	4	2,982.02	4	3,339.05
1/4	126.95	1/4	484.91	1/4	842.87	1/4	1,200.33	1/4	1,558.31	1/4	1,916.28	1/4	2,274.25	1/4	2,631.99	1/4	2,989.47	1/4	3,346.47
1/2	134.40	1/2	492.37	1/2	850.33	1/2	1,207.79	1/2	1,565.76	1/2	1,923.74	1/2	2,281.71	1/2	2,639.44	1/2	2,996.92	1/2	3,353.88
3/4	141.86	3/4	499.82	3/4	857.79	3/4	1,215.25	3/4	1,573.22	3/4	1,931.20	3/4	2,289.17	3/4	2,646.89	3/4	3,004.37	3/4	3,361.30
5	149.32	5	507.28	5	865.25	5	1,222.71	5	1,580.68	5	1,938.65	5	2,296.63	5	2,654.33	5	3,011.81	5	3,368.72
1/4	156.77	1/4	514.74	1/4	872.69	1/4	1,230.16	1/4	1,588.14	1/4	1,946.11	1/4	2,304.09	1/4	2,661.78	1/4	3,019.26	1/4	3,376.14
1/2	164.23	1/2	522.20	1/2	880.13	1/2	1,237.62	1/2	1,595.60	1/2	1,953.57	1/2	2,311.54	1/2	2,669.23	1/2	3,026.71	1/2	3,383.55
3/4	171.69	3/4	529.65	3/4	887.58	3/4	1,245.08	3/4	1,603.05	3/4	1,961.03	3/4	2,319.00	3/4	2,676.68	3/4	3,034.16	3/4	3,390.97
6	179.15	6	537.11	6	895.02	6	1,252.54	6	1,610.51	6	1,968.49	6	2,326.46	6	2,684.12	6	3,041.60	6	3,398.38
1/4	186.61	1/4	544.57	1/4	902.46	1/4	1,259.99	1/4	1,617.97	1/4	1,975.94	1/4	2,333.92	1/4	2,691.57	1/4	3,049.05	1/4	3,405.79
1/2	194.06	1/2	552.03	1/2	909.91	1/2	1,267.45	1/2	1,625.43	1/2	1,983.40	1/2	2,341.38	1/2	2,699.02	1/2	3,056.50	1/2	3,413.19
3/4	201.52	3/4	559.49	3/4	917.35	3/4	1,274.91	3/4	1,632.88	3/4	1,990.86	3/4	2,348.83	3/4	2,706.47	3/4	3,063.95	3/4	3,420.60
7	208.98	7	566.94	7	924.79	7	1,282.37	7	1,640.34	7	1,998.32	7	2,356.29	7	2,713.91	7	3,071.39	7	3,428.00
1/4	216.44	1/4	574.40	1/4	932.23	1/4	1,289.83	1/4	1,647.80	1/4	2,005.77	1/4	2,363.75	1/4	2,721.36	1/4	3,078.84	1/4	3,435.18
1/2	223.89	1/2	581.86	1/2	939.68	1/2	1,297.28	1/2	1,655.26	1/2	2,013.23	1/2	2,371.21	1/2	2,728.81	1/2	3,086.29	1/2	3,442.36
3/4	231.35	3/4	589.32	3/4	947.12	3/4	1,304.74	3/4	1,662.72	3/4	2,020.69	3/4	2,378.66	3/4	2,736.26	3/4	3,093.74	3/4	3,449.54
8	238.81	8	596.77	8	954.56	8	1,312.20	8	1,670.17	8	2,028.15	8	2,386.12	8	2,743.70	8	3,101.18	8	3,456.72
1/4	246.27	1/4	604.23	1/4	962.01	1/4	1,319.66	1/4	1,677.63	1/4	2,035.61	1/4	2,393.58	1/4	2,751.15	1/4	3,108.63	1/4	3,463.42
1/2	253.72	1/2	611.69	1/2	969.45	1/2	1,327.11	1/2	1,685.09	1/2	2,043.06	1/2	2,401.04	1/2	2,758.60	1/2	3,116.08	1/2	3,470.12
3/4	261.18	3/4	619.15	3/4	976.89	3/4	1,334.57	3/4	1,692.55	3/4	2,050.52	3/4	2,408.50	3/4	2,766.05	3/4	3,123.53	3/4	3,476.82
9	268.64	9	626.60	9	984.34	9	1,342.03	9	1,700.00	9	2,057.98	9	2,415.95	9	2,773.49	9	3,130.97	9	3,483.52
1/4	276.10	1/4	634.06	1/4	991.78	1/4	1,349.49	1/4	1,707.46	1/4	2,065.44	1/4	2,423.41	1/4	2,780.94	1/4	3,138.42	1/4	3,489.74
1/2	283.55	1/2	641.52	1/2	999.22	1/2	1,356.95	1/2	1,714.92	1/2	2,072.89	1/2	2,430.87	1/2	2,788.39	1/2	3,145.87	1/2	3,495.96
3/4	291.01	3/4	648.98	3/4	1,006.67	3/4	1,364.40	3/4	1,722.38	3/4	2,080.35	3/4	2,438.33	3/4	2,795.84	3/4	3,153.32	3/4	3,502.18
10	298.47	10	656.43	10	1,014.11	10	1,371.86	10	1,729.84	10	2,087.81	10	2,445.78	10	2,803.28	10	3,160.76	10	3,508.40
1/4	305.93	1/4	663.89	1/4	1,021.55	1/4	1,379.32	1/4	1,737.29	1/4	2,095.27	1/4	2,453.23	1/4	2,810.73	1/4	3,168.21	1/4	3,514.14
1/2	313.38	1/2	671.35	1/2	1,028.99	1/2	1,386.78	1/2	1,744.75	1/2	2,102.73	1/2	2,460.68	1/2	2,818.18	1/2	3,175.66	1/2	3,519.88
3/4	320.84	3/4	678.81	3/4	1,036.44	3/4	1,394.23	3/4	1,752.21	3/4	2,110.18	3/4	2,468.13	3/4	2,825.63	3/4	3,183.11	3/4	3,525.62
11	328.30	11	686.26	11	1,043.88	11	1,401.69	11	1,759.67	11	2,117.64	11	2,475.58	11	2,833.07	11	3,190.55	11	3,531.36
1/4	335.76	1/4	693.72	1/4	1,051.32	1/4	1,409.15	1/4	1,767.12	1/4	2,125.10	1/4	2,483.03	1/4	2,840.52	1/4	3,198.00	1/4	3,536.62
1/2	343.21	1/2	701.18	1/2	1,058.77	1/2	1,416.61	1/2	1,774.58	1/2	2,132.56	1/2	2,490.47	1/2	2,847.97	1/2	3,205.45	1/2	3,541.88
3/4	350.67	3/4	708.64	3/4	1,066.21	3/4	1,424.07	3/4	1,782.04	3/4	2,140.01	3/4	2,497.92	3/4	2,855.42	3/4	3,212.90	3/4	3,547.14

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 OF 2" HERMETIC VALVE
 GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 42'-06" FORWARD OF AFT BULKHEAD

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



BARGE "E2MS 310"

3 STBD

INNAGE TABLE HERMETIC

GAUGE HEIGHT 15'-08 1/2"

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	3,552.40	0	3,773.13	0	3,992.49	0	4,211.65	0	4,429.70	0		0		0		0		0	
1/4	3,557.22	1/4	3,777.70	1/4	3,997.06	1/4	4,216.22	1/4	4,434.18	1/4		1/4		1/4		1/4		1/4	
1/2	3,562.04	1/2	3,782.28	1/2	4,001.62	1/2	4,220.79	1/2	4,438.65	1/2		1/2		1/2		1/2		1/2	
3/4	3,566.85	3/4	3,786.86	3/4	4,006.19	3/4	4,225.35	3/4	4,443.13	3/4		3/4		3/4		3/4		3/4	
1	3,571.67	1	3,791.44	1	4,010.75	1	4,229.92	1	4,447.61	1		1		1		1		1	
1/4	3,576.25	1/4	3,796.02	1/4	4,015.32	1/4	4,234.48	1/4	4,451.56	1/4		1/4		1/4		1/4		1/4	
1/2	3,580.83	1/2	3,800.60	1/2	4,019.89	1/2	4,239.05	1/2	4,455.51	1/2		1/2		1/2		1/2		1/2	
3/4	3,585.41	3/4	3,805.18	3/4	4,024.45	3/4	4,243.62	3/4	4,459.46	3/4		3/4		3/4		3/4		3/4	
2	3,589.99	2	3,809.75	2	4,029.02	2	4,248.18	2	4,463.41	2		2		2		2		2	
1/4	3,594.56	1/4	3,814.33	1/4	4,033.58	1/4	4,252.75	1/4	4,466.60	1/4		1/4		1/4		1/4		1/4	
1/2	3,599.14	1/2	3,818.91	1/2	4,038.15	1/2	4,257.31	1/2	4,469.78	1/2		1/2		1/2		1/2		1/2	
3/4	3,603.72	3/4	3,823.49	3/4	4,042.72	3/4	4,261.88	3/4	4,472.97	3/4		3/4		3/4		3/4		3/4	
3	3,608.30	3	3,828.07	3	4,047.28	3	4,266.44	3	4,476.15	3		3		3		3		3	
1/4	3,612.88	1/4	3,832.65	1/4	4,051.85	1/4	4,271.01	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,617.46	1/2	3,837.22	1/2	4,056.41	1/2	4,275.58	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,622.04	3/4	3,841.80	3/4	4,060.98	3/4	4,280.14	3/4		3/4		3/4		3/4		3/4		3/4	
4	3,626.61	4	3,846.38	4	4,065.55	4	4,284.71	4		4		4		4		4		4	
1/4	3,631.19	1/4	3,850.95	1/4	4,070.11	1/4	4,289.27	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,635.77	1/2	3,855.51	1/2	4,074.68	1/2	4,293.84	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,640.35	3/4	3,860.08	3/4	4,079.24	3/4	4,298.41	3/4		3/4		3/4		3/4		3/4		3/4	
5	3,644.93	5	3,864.65	5	4,083.81	5	4,302.97	5		5		5		5		5		5	
1/4	3,649.51	1/4	3,869.21	1/4	4,088.37	1/4	4,307.54	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,654.08	1/2	3,873.78	1/2	4,092.94	1/2	4,312.10	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,658.66	3/4	3,878.34	3/4	4,097.51	3/4	4,316.67	3/4		3/4		3/4		3/4		3/4		3/4	
6	3,663.24	6	3,882.91	6	4,102.07	6	4,321.24	6		6		6		6		6		6	
1/4	3,667.82	1/4	3,887.48	1/4	4,106.64	1/4	4,325.76	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,672.40	1/2	3,892.04	1/2	4,111.20	1/2	4,330.28	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,676.98	3/4	3,896.61	3/4	4,115.77	3/4	4,334.80	3/4		3/4		3/4		3/4		3/4		3/4	
7	3,681.56	7	3,901.17	7	4,120.34	7	4,339.32	7		7		7		7		7		7	
1/4	3,686.13	1/4	3,905.74	1/4	4,124.90	1/4	4,343.84	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,690.71	1/2	3,910.30	1/2	4,129.47	1/2	4,348.36	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,695.29	3/4	3,914.87	3/4	4,134.03	3/4	4,352.88	3/4		3/4		3/4		3/4		3/4		3/4	
8	3,699.87	8	3,919.44	8	4,138.60	8	4,357.40	8		8		8		8		8		8	
1/4	3,704.45	1/4	3,924.00	1/4	4,143.17	1/4	4,361.92	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,709.03	1/2	3,928.57	1/2	4,147.73	1/2	4,366.44	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,713.61	3/4	3,933.13	3/4	4,152.30	3/4	4,370.96	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,718.18	9	3,937.70	9	4,156.86	9	4,375.48	9		9		9		9		9		9	
1/4	3,722.76	1/4	3,942.27	1/4	4,161.43	1/4	4,380.00	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,727.34	1/2	3,946.83	1/2	4,165.99	1/2	4,384.52	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,731.92	3/4	3,951.40	3/4	4,170.56	3/4	4,389.04	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,736.50	10	3,955.96	10	4,175.13	10	4,393.57	10		10		10		10		10		10	
1/4	3,741.08	1/4	3,960.53	1/4	4,179.69	1/4	4,398.09	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,745.65	1/2	3,965.10	1/2	4,184.26	1/2	4,402.61	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,750.23	3/4	3,969.66	3/4	4,188.82	3/4	4,407.13	3/4		3/4		3/4		3/4		3/4		3/4	
11	3,754.81	11	3,974.23	11	4,193.39	11	4,411.65	11		11		11		11		11		11	
1/4	3,759.39	1/4	3,978.79	1/4	4,197.96	1/4	4,416.16	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,763.97	1/2	3,983.36	1/2	4,202.52	1/2	4,420.67	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,768.55	3/4	3,987.92	3/4	4,207.09	3/4	4,425.18	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 07/10/2018 CL
CALCULATED: 07/11/2018 CL
PRINTED: 07/11/2018 CL

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 310"

ULLAGE (HERMETIC)

	1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.	
	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>
1 PORT	00-0/8	- 00-0/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/4	- 00-1/4	00-1/4	- 00-1/4
1 STBD	00-0/8	- 00-0/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/4	- 00-1/4	00-1/4	- 00-1/4
2 PORT	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8
2 STBD	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8
3 PORT	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8
3 STBD	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8

(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 - 00-1/8"
 FOR A MEASURED ULLAGE GAUGE OF 4'-00" ON 1 PORT, THE TRIM CORRECTED ULLAGE IS 3'-11 7/8"

LENGTH BETWEEN DRAFT MARKS: 235'-09"

July 11, 2018

**PRECISION MEASUREMENT
& ANALYSIS, INC.**

P.O. Box 2092
 Pearland, Texas 77588

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BARGE "E2MS 310"

1 PORT ULLAGE TABLE

HERMETIC GAUGE HEIGHT 15'-08 3/4"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	0	0	0	0	4,850.46	0	4,494.05	0	4,136.83	0	3,778.98	0	3,420.71	0	3,062.44	0	2,704.17	0	2,345.84
1/4		1/4		1/4	4,843.09	1/4	4,486.61	1/4	4,129.39	1/4	3,771.51	1/4	3,413.24	1/4	3,054.98	1/4	2,696.71	1/4	2,338.37
1/2		1/2		1/2	4,835.73	1/2	4,479.17	1/2	4,121.94	1/2	3,764.05	1/2	3,405.78	1/2	3,047.51	1/2	2,689.25	1/2	2,330.91
3/4		3/4		3/4	4,828.36	3/4	4,471.72	3/4	4,114.50	3/4	3,756.58	3/4	3,398.32	3/4	3,040.05	3/4	2,681.78	3/4	2,323.44
1	1	1	1	1	4,820.99	1	4,464.28	1	4,107.06	1	3,749.12	1	3,390.85	1	3,032.59	1	2,674.32	1	2,315.97
1/4		1/4		1/4	4,813.62	1/4	4,456.84	1/4	4,099.62	1/4	3,741.66	1/4	3,383.39	1/4	3,025.12	1/4	2,666.85	1/4	2,308.51
1/2		1/2		1/2	4,806.25	1/2	4,449.40	1/2	4,092.18	1/2	3,734.19	1/2	3,375.93	1/2	3,017.66	1/2	2,659.39	1/2	2,301.04
3/4		3/4		3/4	4,798.88	3/4	4,441.96	3/4	4,084.73	3/4	3,726.73	3/4	3,368.46	3/4	3,010.19	3/4	2,651.93	3/4	2,293.58
2	2	2	2	2	4,791.51	2	4,434.51	2	4,077.29	2	3,719.26	2	3,361.00	2	3,002.73	2	2,644.46	2	2,286.11
1/4		1/4		1/4	4,784.15	1/4	4,427.07	1/4	4,069.85	1/4	3,711.80	1/4	3,353.53	1/4	2,995.27	1/4	2,637.00	1/4	2,278.64
1/2		1/2		1/2	4,776.78	1/2	4,419.63	1/2	4,062.41	1/2	3,704.34	1/2	3,346.07	1/2	2,987.80	1/2	2,629.54	1/2	2,271.18
3/4		3/4		3/4	4,769.41	3/4	4,412.19	3/4	4,054.97	3/4	3,696.87	3/4	3,338.61	3/4	2,980.34	3/4	2,622.07	3/4	2,263.71
3	3	3	3	3	4,761.97	3	4,404.74	3	4,047.52	3	3,689.41	3	3,331.14	3	2,972.87	3	2,614.61	3	2,256.25
1/4		1/4		1/4	4,754.52	1/4	4,397.30	1/4	4,040.08	1/4	3,681.95	1/4	3,323.68	1/4	2,965.41	1/4	2,607.14	1/4	2,248.78
1/2		1/2		1/2	4,747.08	1/2	4,389.86	1/2	4,032.64	1/2	3,674.48	1/2	3,316.21	1/2	2,957.95	1/2	2,599.68	1/2	2,241.31
3/4		3/4		3/4	4,739.64	3/4	4,382.42	3/4	4,025.20	3/4	3,667.02	3/4	3,308.75	3/4	2,950.48	3/4	2,592.22	3/4	2,233.85
4	4	4	4	4	4,732.20	4	4,374.98	4	4,017.76	4	3,659.55	4	3,301.29	4	2,943.02	4	2,584.75	4	2,226.38
1/4		1/4		1/4	4,724.76	1/4	4,367.53	1/4	4,010.31	1/4	3,652.09	1/4	3,293.82	1/4	2,935.56	1/4	2,577.28	1/4	2,218.92
1/2		1/2		1/2	4,717.31	1/2	4,360.09	1/2	4,002.87	1/2	3,644.63	1/2	3,286.36	1/2	2,928.09	1/2	2,569.82	1/2	2,211.45
3/4		3/4		3/4	4,709.87	3/4	4,352.65	3/4	3,995.43	3/4	3,637.16	3/4	3,278.89	3/4	2,920.63	3/4	2,562.35	3/4	2,203.98
5	5	5	5	5	4,702.43	5	4,345.21	5	3,987.97	5	3,629.70	5	3,271.43	5	2,913.16	5	2,554.89	5	2,196.52
1/4		1/4		1/4	4,694.99	1/4	4,337.77	1/4	3,980.50	1/4	3,622.23	1/4	3,263.97	1/4	2,905.70	1/4	2,547.42	1/4	2,189.05
1/2		1/2		1/2	4,687.54	1/2	4,330.32	1/2	3,973.04	1/2	3,614.77	1/2	3,256.50	1/2	2,898.24	1/2	2,539.95	1/2	2,181.59
3/4		3/4		3/4	5,021.92	3/4	4,680.10	3/4	4,322.88	3/4	3,965.57	3/4	3,607.31	3/4	2,890.77	3/4	2,532.49	3/4	2,174.12
6	6	6	6	6	5,016.73	6	4,672.66	6	4,315.44	6	3,958.11	6	3,599.84	6	2,883.31	6	2,525.02	6	2,166.65
1/4		1/4		1/4	5,011.54	1/4	4,665.22	1/4	4,308.00	1/4	3,950.65	1/4	3,592.38	1/4	2,875.84	1/4	2,517.56	1/4	2,159.19
1/2		1/2		1/2	5,006.34	1/2	4,657.78	1/2	4,300.56	1/2	3,943.18	1/2	3,584.91	1/2	2,868.38	1/2	2,510.09	1/2	2,151.72
3/4		3/4		3/4	5,001.15	3/4	4,650.33	3/4	4,293.11	3/4	3,935.72	3/4	3,577.45	3/4	2,860.92	3/4	2,502.62	3/4	2,144.26
7	7	7	7	7	4,994.71	7	4,642.89	7	4,285.67	7	3,928.25	7	3,569.99	7	2,853.45	7	2,495.16	7	2,136.79
1/4		1/4		1/4	4,988.28	1/4	4,635.45	1/4	4,278.23	1/4	3,920.79	1/4	3,562.52	1/4	2,845.99	1/4	2,487.69	1/4	2,129.32
1/2		1/2		1/2	4,981.84	1/2	4,628.01	1/2	4,270.79	1/2	3,913.33	1/2	3,555.06	1/2	2,838.52	1/2	2,480.23	1/2	2,121.86
3/4		3/4		3/4	4,975.40	3/4	4,620.57	3/4	4,263.34	3/4	3,905.86	3/4	3,547.60	3/4	2,831.06	3/4	2,472.76	3/4	2,114.39
8	8	8	8	8	4,968.10	8	4,613.12	8	4,255.90	8	3,898.40	8	3,540.13	8	2,823.60	8	2,465.29	8	2,106.93
1/4		1/4		1/4	4,960.80	1/4	4,605.68	1/4	4,248.46	1/4	3,890.93	1/4	3,532.67	1/4	2,816.13	1/4	2,457.83	1/4	2,099.46
1/2		1/2		1/2	4,953.50	1/2	4,598.24	1/2	4,241.02	1/2	3,883.47	1/2	3,525.20	1/2	2,808.67	1/2	2,450.36	1/2	2,091.99
3/4		3/4		3/4	4,946.20	3/4	4,590.80	3/4	4,233.58	3/4	3,876.01	3/4	3,517.74	3/4	2,801.21	3/4	2,442.90	3/4	2,084.53
9	9	9	9	9	4,938.85	9	4,583.36	9	4,226.13	9	3,868.54	9	3,510.28	9	2,793.74	9	2,435.43	9	2,077.06
1/4		1/4		1/4	4,931.49	1/4	4,575.91	1/4	4,218.69	1/4	3,861.08	1/4	3,502.81	1/4	2,786.28	1/4	2,427.96	1/4	2,069.60
1/2		1/2		1/2	4,924.14	1/2	4,568.47	1/2	4,211.25	1/2	3,853.62	1/2	3,495.35	1/2	2,778.81	1/2	2,420.50	1/2	2,062.13
3/4		3/4		3/4	4,916.78	3/4	4,561.03	3/4	4,203.81	3/4	3,846.15	3/4	3,487.88	3/4	2,771.35	3/4	2,413.03	3/4	2,054.66
10	10	10	10	10	4,909.41	10	4,553.59	10	4,196.37	10	3,838.69	10	3,480.42	10	2,763.89	10	2,405.57	10	2,047.20
1/4		1/4		1/4	4,902.05	1/4	4,546.14	1/4	4,188.92	1/4	3,831.22	1/4	3,472.96	1/4	2,756.42	1/4	2,398.10	1/4	2,039.73
1/2		1/2		1/2	4,894.68	1/2	4,538.70	1/2	4,181.48	1/2	3,823.76	1/2	3,465.49	1/2	2,748.96	1/2	2,390.63	1/2	2,032.27
3/4		3/4		3/4	4,887.31	3/4	4,531.26	3/4	4,174.04	3/4	3,816.30	3/4	3,458.03	3/4	2,741.49	3/4	2,383.17	3/4	2,024.80
11	11	11	11	11	4,879.94	11	4,523.82	11	4,166.60	11	3,808.83	11	3,450.56	11	2,734.03	11	2,375.70	11	2,017.33
1/4		1/4		1/4	4,872.57	1/4	4,516.38	1/4	4,159.16	1/4	3,801.37	1/4	3,443.10	1/4	2,726.57	1/4	2,368.24	1/4	2,009.87
1/2		1/2		1/2	4,865.20	1/2	4,508.93	1/2	4,151.71	1/2	3,793.90	1/2	3,435.64	1/2	2,719.10	1/2	2,360.77	1/2	2,002.40
3/4		3/4		3/4	4,857.83	3/4	4,501.49	3/4	4,144.27	3/4	3,786.44	3/4	3,428.17	3/4	2,711.64	3/4	2,353.30	3/4	1,994.94

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP LIP OF 2" HERMETIC VALVE
 GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 43'-09" FORWARD OF AFT BULKHEAD

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



BARGE "E2MS 310"

1 PORT

ULLAGE TABLE
HERMETIC

GAUGE HEIGHT 15'-08 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	1,987.47	0	1,629.10	0	1,270.73	0	913.82	0	556.57	0	216.67	0		0		0		0	
1/4	1,980.00	1/4	1,621.64	1/4	1,263.27	1/4	906.41	1/4	549.11	1/4	210.12	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,972.54	1/2	1,614.17	1/2	1,255.80	1/2	899.01	1/2	541.65	1/2	203.57	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,965.07	3/4	1,606.70	3/4	1,248.34	3/4	891.60	3/4	534.19	3/4	197.03	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	1,957.61	1	1,599.24	1	1,240.87	1	884.19	1	526.73	1	190.57	1	1	1	1	1	1	1	1
1/4	1,950.14	1/4	1,591.77	1/4	1,233.40	1/4	876.79	1/4	519.26	1/4	184.11	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,942.67	1/2	1,584.31	1/2	1,225.94	1/2	869.38	1/2	511.79	1/2	177.65	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,935.21	3/4	1,576.84	3/4	1,218.47	3/4	861.97	3/4	504.33	3/4	171.19	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	1,927.74	2	1,569.37	2	1,211.01	2	854.57	2	496.91	2	164.82	2	2	2	2	2	2	2	2
1/4	1,920.28	1/4	1,561.91	1/4	1,203.54	1/4	847.16	1/4	489.48	1/4	158.45	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,912.81	1/2	1,554.44	1/2	1,196.07	1/2	839.75	1/2	482.06	1/2	152.08	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,905.34	3/4	1,546.98	3/4	1,188.61	3/4	832.34	3/4	474.64	3/4	145.71	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	1,897.88	3	1,539.51	3	1,181.14	3	824.94	3	467.31	3	139.43	3	3	3	3	3	3	3	3
1/4	1,890.41	1/4	1,532.04	1/4	1,173.68	1/4	817.53	1/4	459.97	1/4	133.14	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,882.95	1/2	1,524.58	1/2	1,166.21	1/2	810.12	1/2	452.64	1/2	126.86	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,875.48	3/4	1,517.11	3/4	1,158.74	3/4	802.72	3/4	445.30	3/4	120.58	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	1,868.01	4	1,509.65	4	1,151.28	4	795.30	4	438.06	4	114.38	4	4	4	4	4	4	4	4
1/4	1,860.55	1/4	1,502.18	1/4	1,143.81	1/4	787.89	1/4	430.81	1/4	108.19	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,853.08	1/2	1,494.71	1/2	1,136.35	1/2	780.47	1/2	423.56	1/2	101.99	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,845.62	3/4	1,487.25	3/4	1,128.88	3/4	773.05	3/4	416.31	3/4	95.80	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	1,838.15	5	1,479.78	5	1,121.45	5	765.59	5	409.16	5	89.70	5	5	5	5	5	5	5	5
1/4	1,830.68	1/4	1,472.32	1/4	1,114.01	1/4	758.12	1/4	402.00	1/4	83.60	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,823.22	1/2	1,464.85	1/2	1,106.58	1/2	750.66	1/2	394.84	1/2	77.51	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,815.75	3/4	1,457.38	3/4	1,099.14	3/4	743.19	3/4	387.68	3/4	71.41	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	1,808.29	6	1,449.92	6	1,091.71	6	735.73	6	380.61	6	65.43	6	6	6	6	6	6	6	6
1/4	1,800.82	1/4	1,442.45	1/4	1,084.27	1/4	728.26	1/4	373.53	1/4	59.44	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,793.35	1/2	1,434.99	1/2	1,076.84	1/2	720.79	1/2	366.46	1/2	53.46	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,785.89	3/4	1,427.52	3/4	1,069.40	3/4	713.33	3/4	359.39	3/4	47.47	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	1,778.42	7	1,420.05	7	1,061.99	7	705.86	7	352.41	7	42.47	7	7	7	7	7	7	7	7
1/4	1,770.96	1/4	1,412.59	1/4	1,054.57	1/4	698.40	1/4	345.42	1/4	37.48	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,763.49	1/2	1,405.12	1/2	1,047.16	1/2	690.93	1/2	338.44	1/2	32.48	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,756.02	3/4	1,397.66	3/4	1,039.74	3/4	683.46	3/4	331.45	3/4	27.48	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	1,748.56	8	1,390.19	8	1,032.33	8	676.00	8	324.56	8	24.43	8	8	8	8	8	8	8	8
1/4	1,741.09	1/4	1,382.72	1/4	1,024.93	1/4	668.53	1/4	317.66	1/4	21.39	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,733.63	1/2	1,375.26	1/2	1,017.52	1/2	661.07	1/2	310.76	1/2	18.34	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,726.16	3/4	1,367.79	3/4	1,010.11	3/4	653.60	3/4	303.87	3/4	15.30	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	1,718.69	9	1,360.33	9	1,002.71	9	646.14	9	297.06	9		9	9	9	9	9	9	9	9
1/4	1,711.23	1/4	1,352.86	1/4	995.30	1/4	638.67	1/4	290.25	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,703.76	1/2	1,345.39	1/2	987.89	1/2	631.20	1/2	283.44	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,696.30	3/4	1,337.93	3/4	980.48	3/4	623.74	3/4	276.63	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	1,688.83	10	1,330.46	10	973.08	10	616.27	10	269.91	10		10	10	10	10	10	10	10	10
1/4	1,681.36	1/4	1,323.00	1/4	965.67	1/4	608.81	1/4	263.19	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,673.90	1/2	1,315.53	1/2	958.26	1/2	601.34	1/2	256.47	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,666.43	3/4	1,308.06	3/4	950.86	3/4	593.88	3/4	249.75	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	1,658.97	11	1,300.60	11	943.45	11	586.41	11	243.11	11		11	11	11	11	11	11	11	11
1/4	1,651.50	1/4	1,293.13	1/4	936.04	1/4	578.95	1/4	236.48	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,644.03	1/2	1,285.67	1/2	928.64	1/2	571.49	1/2	229.85	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,636.57	3/4	1,278.20	3/4	921.23	3/4	564.03	3/4	223.21	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 07/10/2018 CL
CALCULATED: 07/11/2018 CL
PRINTED: 07/11/2018 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 07/2018

PRECISION MEASUREMENT
& ANALYSIS, INC.
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BARGE "E2MS 310"

1 STBD ULLAGE TABLE

HERMETIC GAUGE HEIGHT 15'-08 3/4"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.		
0	0	0	0	0	4,853.44	0	4,496.97	0	4,139.69	0	3,781.77	0	3,423.43	0	3,065.09	0	2,706.75	0	2,348.35		
1/4	1/4	1/4	1/4	1/4	4,846.07	1/4	4,489.53	1/4	4,132.25	1/4	3,774.31	1/4	3,415.97	1/4	3,057.63	1/4	2,699.29	1/4	2,340.88		
1/2	1/2	1/2	1/2	1/2	4,838.70	1/2	4,482.08	1/2	4,124.80	1/2	3,766.84	1/2	3,408.50	1/2	3,050.16	1/2	2,691.82	1/2	2,333.41		
3/4	3/4	3/4	3/4	3/4	4,831.33	3/4	4,474.64	3/4	4,117.36	3/4	3,759.37	3/4	3,401.04	3/4	3,042.70	3/4	2,684.36	3/4	2,325.95		
1	1	1	1	1	4,823.96	1	4,467.20	1	4,109.92	1	3,751.91	1	3,393.57	1	3,035.23	1	2,676.89	1	2,318.48		
1/4	1/4	1/4	1/4	1/4	4,816.59	1/4	4,459.75	1/4	4,102.47	1/4	3,744.44	1/4	3,386.10	1/4	3,027.77	1/4	2,669.43	1/4	2,311.01		
1/2	1/2	1/2	1/2	1/2	4,809.22	1/2	4,452.31	1/2	4,095.03	1/2	3,736.98	1/2	3,378.64	1/2	3,020.30	1/2	2,661.96	1/2	2,303.54		
3/4	3/4	3/4	3/4	3/4	4,801.85	3/4	4,444.87	3/4	4,087.59	3/4	3,729.51	3/4	3,371.17	3/4	3,012.83	3/4	2,654.50	3/4	2,296.08		
2	2	2	2	2	4,794.48	2	4,437.42	2	4,080.14	2	3,722.05	2	3,363.71	2	3,005.37	2	2,647.03	2	2,288.61		
1/4	1/4	1/4	1/4	1/4	4,787.11	1/4	4,429.98	1/4	4,072.70	1/4	3,714.58	1/4	3,356.24	1/4	2,997.90	1/4	2,639.56	1/4	2,281.14		
1/2	1/2	1/2	1/2	1/2	4,779.74	1/2	4,422.54	1/2	4,065.26	1/2	3,707.12	1/2	3,348.78	1/2	2,990.44	1/2	2,632.10	1/2	2,273.67		
3/4	3/4	3/4	3/4	3/4	4,772.37	3/4	4,415.09	3/4	4,057.81	3/4	3,699.65	3/4	3,341.31	3/4	2,982.97	3/4	2,624.63	3/4	2,266.21		
3	3	3	3	3	4,764.93	3	4,407.65	3	4,050.37	3	3,692.19	3	3,333.85	3	2,975.51	3	2,617.17	3	2,258.74		
1/4	1/4	1/4	1/4	1/4	4,757.48	1/4	4,400.21	1/4	4,042.93	1/4	3,684.72	1/4	3,326.38	1/4	2,968.04	1/4	2,609.70	1/4	2,251.27		
1/2	1/2	1/2	1/2	1/2	4,750.04	1/2	4,392.76	1/2	4,035.48	1/2	3,677.26	1/2	3,318.92	1/2	2,960.58	1/2	2,602.24	1/2	2,243.80		
3/4	3/4	3/4	3/4	3/4	4,742.60	3/4	4,385.32	3/4	4,028.04	3/4	3,669.79	3/4	3,311.45	3/4	2,953.11	3/4	2,594.77	3/4	2,236.34		
4	4	4	4	4	4,735.15	4	4,377.88	4	4,020.60	4	3,662.32	4	3,303.99	4	2,945.65	4	2,587.30	4	2,228.87		
1/4	1/4	1/4	1/4	1/4	4,727.71	1/4	4,370.43	1/4	4,013.15	1/4	3,654.86	1/4	3,296.52	1/4	2,938.18	1/4	2,579.84	1/4	2,221.40		
1/2	1/2	1/2	1/2	1/2	4,720.27	1/2	4,362.99	1/2	4,005.71	1/2	3,647.39	1/2	3,289.05	1/2	2,930.72	1/2	2,572.37	1/2	2,213.93		
3/4	3/4	3/4	3/4	3/4	4,712.82	3/4	4,355.55	3/4	3,998.27	3/4	3,639.93	3/4	3,281.59	3/4	2,923.25	3/4	2,564.90	3/4	2,206.47		
5	5	5	5	5	4,705.38	5	4,348.10	5	3,990.80	5	3,632.46	5	3,274.12	5	2,915.78	5	2,557.44	5	2,199.00		
1/4	1/4	1/4	1/4	1/4	4,697.94	1/4	4,340.66	1/4	3,983.34	1/4	3,625.00	1/4	3,266.66	1/4	2,908.32	1/4	2,549.97	1/4	2,191.53		
1/2	1/2	1/2	1/2	1/2	4,690.49	1/2	4,333.22	1/2	3,975.87	1/2	3,617.53	1/2	3,259.19	1/2	2,900.85	1/2	2,542.50	1/2	2,184.07		
3/4	3/4	3/4	3/4	3/4	5,024.93	3/4	4,683.05	3/4	4,325.77	3/4	3,968.41	3/4	3,610.07	3/4	2,893.39	3/4	2,535.03	3/4	2,176.60		
6	6	6	6	6	5,019.74	6	4,675.61	6	4,318.33	6	3,960.94	6	3,602.60	6	3,244.26	6	2,885.92	6	2,527.57	6	2,169.13
1/4	1/4	1/4	1/4	1/4	5,014.54	1/4	4,668.16	1/4	4,310.89	1/4	3,953.47	1/4	3,595.14	1/4	3,236.80	1/4	2,878.46	1/4	2,520.10	1/4	2,161.66
1/2	1/2	1/2	1/2	1/2	5,009.35	1/2	4,660.72	1/2	4,303.44	1/2	3,946.01	1/2	3,587.67	1/2	3,229.33	1/2	2,870.99	1/2	2,512.63	1/2	2,154.20
3/4	3/4	3/4	3/4	3/4	5,004.16	3/4	4,653.28	3/4	4,296.00	3/4	3,938.54	3/4	3,580.20	3/4	3,221.87	3/4	2,863.53	3/4	2,505.16	3/4	2,146.73
7	7	7	7	7	4,997.72	7	4,645.83	7	4,288.56	7	3,931.08	7	3,572.74	7	3,214.40	7	2,856.06	7	2,497.70	7	2,139.26
1/4	1/4	1/4	1/4	1/4	4,991.28	1/4	4,638.39	1/4	4,281.11	1/4	3,923.61	1/4	3,565.27	1/4	3,206.93	1/4	2,848.60	1/4	2,490.23	1/4	2,131.79
1/2	1/2	1/2	1/2	1/2	4,984.84	1/2	4,630.95	1/2	4,273.67	1/2	3,916.15	1/2	3,557.81	1/2	3,199.47	1/2	2,841.13	1/2	2,482.76	1/2	2,124.33
3/4	3/4	3/4	3/4	3/4	4,978.40	3/4	4,623.50	3/4	4,266.23	3/4	3,908.68	3/4	3,550.34	3/4	3,192.00	3/4	2,833.66	3/4	2,475.29	3/4	2,116.86
8	8	8	8	8	4,971.10	8	4,616.06	8	4,258.78	8	3,901.22	8	3,542.88	8	3,184.54	8	2,826.20	8	2,467.83	8	2,109.39
1/4	1/4	1/4	1/4	1/4	4,963.80	1/4	4,608.62	1/4	4,251.34	1/4	3,893.75	1/4	3,535.41	1/4	3,177.07	1/4	2,818.73	1/4	2,460.36	1/4	2,101.92
1/2	1/2	1/2	1/2	1/2	4,956.50	1/2	4,601.17	1/2	4,243.90	1/2	3,886.29	1/2	3,527.95	1/2	3,169.61	1/2	2,811.27	1/2	2,452.89	1/2	2,094.46
3/4	3/4	3/4	3/4	3/4	4,949.20	3/4	4,593.73	3/4	4,236.45	3/4	3,878.82	3/4	3,520.48	3/4	3,162.14	3/4	2,803.80	3/4	2,445.42	3/4	2,086.99
9	9	9	9	9	4,941.84	9	4,586.29	9	4,229.01	9	3,871.36	9	3,513.02	9	3,154.68	9	2,796.34	9	2,437.96	9	2,079.52
1/4	1/4	1/4	1/4	1/4	4,934.48	1/4	4,578.84	1/4	4,221.57	1/4	3,863.89	1/4	3,505.55	1/4	3,147.21	1/4	2,788.87	1/4	2,430.49	1/4	2,072.05
1/2	1/2	1/2	1/2	1/2	4,927.13	1/2	4,571.40	1/2	4,214.12	1/2	3,856.42	1/2	3,498.09	1/2	3,139.75	1/2	2,781.41	1/2	2,423.02	1/2	2,064.59
3/4	3/4	3/4	3/4	3/4	4,919.77	3/4	4,563.96	3/4	4,206.68	3/4	3,848.96	3/4	3,490.62	3/4	3,132.28	3/4	2,773.94	3/4	2,415.55	3/4	2,057.12
10	10	10	10	10	4,912.40	10	4,556.51	10	4,199.24	10	3,841.49	10	3,483.15	10	3,124.82	10	2,766.48	10	2,408.09	10	2,049.65
1/4	1/4	1/4	1/4	1/4	4,905.03	1/4	4,549.07	1/4	4,191.79	1/4	3,834.03	1/4	3,475.69	1/4	3,117.35	1/4	2,759.01	1/4	2,400.62	1/4	2,042.18
1/2	1/2	1/2	1/2	1/2	4,897.67	1/2	4,541.63	1/2	4,184.35	1/2	3,826.56	1/2	3,468.22	1/2	3,109.88	1/2	2,751.55	1/2	2,393.15	1/2	2,034.72
3/4	3/4	3/4	3/4	3/4	4,890.30	3/4	4,534.18	3/4	4,176.91	3/4	3,819.10	3/4	3,460.76	3/4	3,102.42	3/4	2,744.08	3/4	2,385.68	3/4	2,027.25
11	11	11	11	11	4,882.93	11	4,526.74	11	4,169.46	11	3,811.63	11	3,453.29	11	3,094.95	11	2,736.61	11	2,378.22	11	2,019.78
1/4	1/4	1/4	1/4	1/4	4,875.56	1/4	4,519.30	1/4	4,162.02	1/4	3,804.17	1/4	3,445.83	1/4	3,087.49	1/4	2,729.15	1/4	2,370.75	1/4	2,012.31
1/2	1/2	1/2	1/2	1/2	4,868.18	1/2	4,511.85	1/2	4,154.58	1/2	3,796.70	1/2	3,438.36	1/2	3,080.02	1/2	2,721.68	1/2	2,363.28	1/2	2,004.85
3/4	3/4	3/4	3/4	3/4	4,860.81	3/4	4,504.41	3/4	4,147.13	3/4	3,789.24	3/4	3,430.90	3/4	3,072.56	3/4	2,714.22	3/4	2,355.82	3/4	1,997.38

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 ULLAGE GAUGES TAKEN TO TOP LIP OF 2" HERMETIC VALVE
 GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 43'-09" FORWARD OF AFT BULKHEAD

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092
 Pearland, Texas 77588
<http://www.pmacorp.net>





BARGE "E2MS 310"

1 STBD

ULLAGE TABLE
HERMETIC

GAUGE HEIGHT 15'-08 3/4"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.	
IN		IN		IN		IN		IN		IN		IN		IN		IN		IN	
0	1,989.91	0	1,631.48	0	1,273.04	0	914.89	0	556.67	0	216.69	0		0		0		0	
1/4	1,982.45	1/4	1,624.01	1/4	1,265.57	1/4	907.44	1/4	549.20	1/4	210.14	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,974.98	1/2	1,616.54	1/2	1,258.11	1/2	899.99	1/2	541.74	1/2	203.59	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,967.51	3/4	1,609.08	3/4	1,250.64	3/4	892.53	3/4	534.27	3/4	197.05	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	1,960.04	1	1,601.61	1	1,243.17	1	885.08	1	526.80	1	190.59	1	1	1	1	1	1	1	1
1/4	1,952.58	1/4	1,594.14	1/4	1,235.71	1/4	877.63	1/4	519.33	1/4	184.13	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,945.11	1/2	1,586.67	1/2	1,228.24	1/2	870.17	1/2	511.87	1/2	177.67	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,937.64	3/4	1,579.21	3/4	1,220.77	3/4	862.72	3/4	504.40	3/4	171.21	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	1,930.17	2	1,571.74	2	1,213.30	2	855.27	2	496.98	2	164.84	2	2	2	2	2	2	2	2
1/4	1,922.71	1/4	1,564.27	1/4	1,205.84	1/4	847.81	1/4	489.55	1/4	158.47	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,915.24	1/2	1,556.80	1/2	1,198.37	1/2	840.36	1/2	482.13	1/2	152.09	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,907.77	3/4	1,549.34	3/4	1,190.90	3/4	832.91	3/4	474.71	3/4	145.72	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	1,900.30	3	1,541.87	3	1,183.43	3	825.45	3	467.37	3	139.44	3	3	3	3	3	3	3	3
1/4	1,892.84	1/4	1,534.40	1/4	1,175.97	1/4	818.00	1/4	460.03	1/4	133.16	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,885.37	1/2	1,526.93	1/2	1,168.50	1/2	810.55	1/2	452.70	1/2	126.87	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,877.90	3/4	1,519.47	3/4	1,161.03	3/4	803.10	3/4	445.36	3/4	120.59	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	1,870.43	4	1,512.00	4	1,153.56	4	795.63	4	438.11	4	114.39	4	4	4	4	4	4	4	4
1/4	1,862.97	1/4	1,504.53	1/4	1,146.10	1/4	788.16	1/4	430.86	1/4	108.20	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,855.50	1/2	1,497.06	1/2	1,138.63	1/2	780.69	1/2	423.62	1/2	102.00	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,848.03	3/4	1,489.60	3/4	1,131.16	3/4	773.23	3/4	416.37	3/4	95.81	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	1,840.56	5	1,482.13	5	1,123.69	5	765.76	5	409.21	5	89.71	5	5	5	5	5	5	5	5
1/4	1,833.10	1/4	1,474.66	1/4	1,116.23	1/4	758.29	1/4	402.05	1/4	83.61	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,825.63	1/2	1,467.19	1/2	1,108.76	1/2	750.82	1/2	394.89	1/2	77.51	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,818.16	3/4	1,459.73	3/4	1,101.29	3/4	743.36	3/4	387.73	3/4	71.41	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	1,810.70	6	1,452.26	6	1,093.83	6	735.89	6	380.65	6	65.43	6	6	6	6	6	6	6	6
1/4	1,803.23	1/4	1,444.79	1/4	1,086.37	1/4	728.42	1/4	373.58	1/4	59.45	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,795.76	1/2	1,437.33	1/2	1,078.91	1/2	720.95	1/2	366.51	1/2	53.46	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,788.29	3/4	1,429.86	3/4	1,071.44	3/4	713.49	3/4	359.43	3/4	47.48	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	1,780.83	7	1,422.39	7	1,063.98	7	706.02	7	352.45	7	42.48	7	7	7	7	7	7	7	7
1/4	1,773.36	1/4	1,414.92	1/4	1,056.52	1/4	698.55	1/4	345.46	1/4	37.48	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,765.89	1/2	1,407.46	1/2	1,049.06	1/2	691.08	1/2	338.48	1/2	32.48	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,758.42	3/4	1,399.99	3/4	1,041.60	3/4	683.62	3/4	331.49	3/4	27.48	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	1,750.96	8	1,392.52	8	1,034.14	8	676.15	8	324.60	8	24.44	8	8	8	8	8	8	8	8
1/4	1,743.49	1/4	1,385.05	1/4	1,026.69	1/4	668.68	1/4	317.70	1/4	21.39	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,736.02	1/2	1,377.59	1/2	1,019.24	1/2	661.21	1/2	310.80	1/2	18.35	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,728.55	3/4	1,370.12	3/4	1,011.78	3/4	653.75	3/4	303.90	3/4	15.30	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	1,721.09	9	1,362.65	9	1,004.33	9	646.28	9	297.09	9		9	9	9	9	9	9	9	9
1/4	1,713.62	1/4	1,355.18	1/4	996.88	1/4	638.81	1/4	290.28	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,706.15	1/2	1,347.72	1/2	989.43	1/2	631.35	1/2	283.47	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,698.68	3/4	1,340.25	3/4	981.97	3/4	623.88	3/4	276.66	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	1,691.22	10	1,332.78	10	974.52	10	616.41	10	269.94	10		10	10	10	10	10	10	10	10
1/4	1,683.75	1/4	1,325.31	1/4	967.07	1/4	608.94	1/4	263.22	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,676.28	1/2	1,317.85	1/2	959.61	1/2	601.48	1/2	256.50	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,668.81	3/4	1,310.38	3/4	952.16	3/4	594.01	3/4	249.77	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	1,661.35	11	1,302.91	11	944.71	11	586.54	11	243.14	11		11	11	11	11	11	11	11	11
1/4	1,653.88	1/4	1,295.44	1/4	937.25	1/4	579.07	1/4	236.50	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,646.41	1/2	1,287.98	1/2	929.80	1/2	571.61	1/2	229.87	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,638.94	3/4	1,280.51	3/4	922.35	3/4	564.14	3/4	223.24	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 07/10/2018 CL
CALCULATED: 07/11/2018 CL
PRINTED: 07/11/2018 CL

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 310"

2 PORT ULLAGE TABLE

HERMETIC GAUGE HEIGHT 15'-09"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	0	0	0	0	4,919.03	0	4,561.84	0	4,203.86	0	3,845.27	0	3,486.24	0	3,127.21	0	2,768.18	0	2,409.15
1/4	1/4	1/4	1/4	1/4	4,911.64	1/4	4,554.38	1/4	4,196.40	1/4	3,837.79	1/4	3,478.76	1/4	3,119.73	1/4	2,760.70	1/4	2,401.67
1/2	1/2	1/2	1/2	1/2	4,904.25	1/2	4,546.92	1/2	4,188.95	1/2	3,830.31	1/2	3,471.28	1/2	3,112.25	1/2	2,753.22	1/2	2,394.19
3/4	3/4	3/4	3/4	3/4	4,896.86	3/4	4,539.47	3/4	4,181.49	3/4	3,822.83	3/4	3,463.80	3/4	3,104.77	3/4	2,745.74	3/4	2,386.71
1	1	1	1	1	4,889.46	1	4,532.01	1	4,174.03	1	3,815.35	1	3,456.32	1	3,097.29	1	2,738.26	1	2,379.23
1/4	1/4	1/4	1/4	1/4	4,882.07	1/4	4,524.55	1/4	4,166.57	1/4	3,807.87	1/4	3,448.84	1/4	3,089.81	1/4	2,730.78	1/4	2,371.75
1/2	1/2	1/2	1/2	1/2	4,874.68	1/2	4,517.09	1/2	4,159.11	1/2	3,800.39	1/2	3,441.36	1/2	3,082.33	1/2	2,723.30	1/2	2,364.27
3/4	3/4	3/4	3/4	3/4	4,867.29	3/4	4,509.64	3/4	4,151.66	3/4	3,792.91	3/4	3,433.88	3/4	3,074.85	3/4	2,715.82	3/4	2,356.79
2	2	2	2	2	4,859.89	2	4,502.18	2	4,144.20	2	3,785.43	2	3,426.40	2	3,067.37	2	2,708.34	2	2,349.31
1/4	1/4	1/4	1/4	1/4	4,852.50	1/4	4,494.72	1/4	4,136.74	1/4	3,777.95	1/4	3,418.92	1/4	3,059.89	1/4	2,700.86	1/4	2,341.83
1/2	1/2	1/2	1/2	1/2	4,845.11	1/2	4,487.26	1/2	4,129.28	1/2	3,770.47	1/2	3,411.44	1/2	3,052.41	1/2	2,693.38	1/2	2,334.35
3/4	3/4	3/4	3/4	3/4	4,837.72	3/4	4,479.80	3/4	4,121.82	3/4	3,762.99	3/4	3,403.96	3/4	3,044.93	3/4	2,685.90	3/4	2,326.87
3	3	3	3	3	4,830.32	3	4,472.35	3	4,114.37	3	3,755.51	3	3,396.48	3	3,037.45	3	2,678.42	3	2,319.39
1/4	1/4	1/4	1/4	1/4	4,822.87	1/4	4,464.89	1/4	4,106.91	1/4	3,748.03	1/4	3,389.00	1/4	3,029.97	1/4	2,670.94	1/4	2,311.91
1/2	1/2	1/2	1/2	1/2	4,815.41	1/2	4,457.43	1/2	4,099.45	1/2	3,740.55	1/2	3,381.52	1/2	3,022.49	1/2	2,663.46	1/2	2,304.43
3/4	3/4	3/4	3/4	3/4	4,807.95	3/4	4,449.97	3/4	4,091.99	3/4	3,733.07	3/4	3,374.04	3/4	3,015.01	3/4	2,655.98	3/4	2,296.95
4	4	4	4	4	4,800.49	4	4,442.51	4	4,084.53	4	3,725.59	4	3,366.56	4	3,007.53	4	2,648.50	4	2,289.47
1/4	1/4	1/4	1/4	1/4	4,793.04	1/4	4,435.06	1/4	4,077.08	1/4	3,718.11	1/4	3,359.08	1/4	3,000.05	1/4	2,641.02	1/4	2,281.99
1/2	1/2	1/2	1/2	1/2	4,785.58	1/2	4,427.60	1/2	4,069.62	1/2	3,710.63	1/2	3,351.60	1/2	2,992.57	1/2	2,633.54	1/2	2,274.51
3/4	3/4	3/4	3/4	3/4	4,778.12	3/4	4,420.14	3/4	4,062.16	3/4	3,703.15	3/4	3,344.12	3/4	2,985.09	3/4	2,626.06	3/4	2,267.03
5	5	5	5	5	4,770.66	5	4,412.68	5	4,054.70	5	3,695.67	5	3,336.64	5	2,977.61	5	2,618.58	5	2,259.55
1/4	1/4	1/4	1/4	1/4	4,763.20	1/4	4,405.22	1/4	4,047.22	1/4	3,688.19	1/4	3,329.16	1/4	2,970.13	1/4	2,611.10	1/4	2,252.07
1/2	1/2	1/2	1/2	1/2	4,755.75	1/2	4,397.77	1/2	4,039.74	1/2	3,680.71	1/2	3,321.68	1/2	2,962.65	1/2	2,603.62	1/2	2,244.59
3/4	3/4	3/4	3/4	3/4	4,748.29	3/4	4,390.31	3/4	4,032.26	3/4	3,673.23	3/4	3,314.20	3/4	2,955.17	3/4	2,596.14	3/4	2,237.11
6	6	5,083.61	6	4,740.83	6	4,382.85	6	4,024.78	6	3,665.75	6	3,306.72	6	2,947.69	6	2,588.66	6	2,229.63	
1/4	1/4	5,078.40	1/4	4,733.37	1/4	4,375.39	1/4	4,017.30	1/4	3,658.27	1/4	3,299.24	1/4	2,940.21	1/4	2,581.18	1/4	2,222.15	
1/2	1/2	5,073.19	1/2	4,725.91	1/2	4,367.94	1/2	4,009.82	1/2	3,650.79	1/2	3,291.76	1/2	2,932.73	1/2	2,573.70	1/2	2,214.67	
3/4	3/4	5,067.98	3/4	4,718.46	3/4	4,360.48	3/4	4,002.34	3/4	3,643.31	3/4	3,284.28	3/4	2,925.25	3/4	2,566.22	3/4	2,207.19	
7	7	5,062.77	7	4,711.00	7	4,353.02	7	3,994.86	7	3,635.83	7	3,276.80	7	2,917.77	7	2,558.74	7	2,199.71	
1/4	1/4	5,056.32	1/4	4,703.54	1/4	4,345.56	1/4	3,987.39	1/4	3,628.35	1/4	3,269.32	1/4	2,910.29	1/4	2,551.26	1/4	2,192.23	
1/2	1/2	5,049.86	1/2	4,696.08	1/2	4,338.10	1/2	3,979.91	1/2	3,620.87	1/2	3,261.84	1/2	2,902.81	1/2	2,543.78	1/2	2,184.75	
3/4	3/4	5,043.40	3/4	4,688.62	3/4	4,330.65	3/4	3,972.43	3/4	3,613.40	3/4	3,254.36	3/4	2,895.33	3/4	2,536.30	3/4	2,177.27	
8	8	5,036.95	8	4,681.17	8	4,323.19	8	3,964.95	8	3,605.92	8	3,246.88	8	2,887.85	8	2,528.82	8	2,169.79	
1/4	1/4	5,029.63	1/4	4,673.71	1/4	4,315.73	1/4	3,957.47	1/4	3,598.44	1/4	3,239.41	1/4	2,880.37	1/4	2,521.34	1/4	2,162.31	
1/2	1/2	5,022.30	1/2	4,666.25	1/2	4,308.27	1/2	3,949.99	1/2	3,590.96	1/2	3,231.93	1/2	2,872.89	1/2	2,513.86	1/2	2,154.83	
3/4	3/4	5,014.98	3/4	4,658.79	3/4	4,300.81	3/4	3,942.51	3/4	3,583.48	3/4	3,224.45	3/4	2,865.42	3/4	2,506.38	3/4	2,147.35	
9	9	5,007.66	9	4,651.34	9	4,293.36	9	3,935.03	9	3,576.00	9	3,216.97	9	2,857.94	9	2,498.90	9	2,139.87	
1/4	1/4	5,000.28	1/4	4,643.88	1/4	4,285.90	1/4	3,927.55	1/4	3,568.52	1/4	3,209.49	1/4	2,850.46	1/4	2,491.43	1/4	2,132.39	
1/2	1/2	4,992.91	1/2	4,636.42	1/2	4,278.44	1/2	3,920.07	1/2	3,561.04	1/2	3,202.01	1/2	2,842.98	1/2	2,483.95	1/2	2,124.91	
3/4	3/4	4,985.53	3/4	4,628.96	3/4	4,270.98	3/4	3,912.59	3/4	3,553.56	3/4	3,194.53	3/4	2,835.50	3/4	2,476.47	3/4	2,117.44	
10	10	4,978.15	10	4,621.50	10	4,263.52	10	3,905.11	10	3,546.08	10	3,187.05	10	2,828.02	10	2,468.99	10	2,109.96	
1/4	1/4	4,970.76	1/4	4,614.05	1/4	4,256.07	1/4	3,897.63	1/4	3,538.60	1/4	3,179.57	1/4	2,820.54	1/4	2,461.51	1/4	2,102.48	
1/2	1/2	4,963.38	1/2	4,606.59	1/2	4,248.61	1/2	3,890.15	1/2	3,531.12	1/2	3,172.09	1/2	2,813.06	1/2	2,454.03	1/2	2,095.00	
3/4	3/4	4,955.99	3/4	4,599.13	3/4	4,241.15	3/4	3,882.67	3/4	3,523.64	3/4	3,164.61	3/4	2,805.58	3/4	2,446.55	3/4	2,087.52	
11	11	4,948.60	11	4,591.67	11	4,233.69	11	3,875.19	11	3,516.16	11	3,157.13	11	2,798.10	11	2,439.07	11	2,080.04	
1/4	1/4	4,941.21	1/4	4,584.21	1/4	4,226.23	1/4	3,867.71	1/4	3,508.68	1/4	3,149.65	1/4	2,790.62	1/4	2,431.59	1/4	2,072.56	
1/2	1/2	4,933.82	1/2	4,576.76	1/2	4,218.78	1/2	3,860.23	1/2	3,501.20	1/2	3,142.17	1/2	2,783.14	1/2	2,424.11	1/2	2,065.08	
3/4	3/4	4,926.42	3/4	4,569.30	3/4	4,211.32	3/4	3,852.75	3/4	3,493.72	3/4	3,134.69	3/4	2,775.66	3/4	2,416.63	3/4	2,057.60	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP LIP OF 2" HERMETIC VALVE
 GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 43'-06" FORWARD OF AFT BULKHEAD

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



BARGE "E2MS 310"

2 PORT ULLAGE TABLE HERMETIC GAUGE HEIGHT 15'-09"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,050.12	0	1,691.09	0	1,332.06	0	981.46	0	628.47	0	269.44	0		0		0		0	
1/4	2,042.64	1/4	1,683.61	1/4	1,324.58	1/4	974.28	1/4	620.99	1/4	261.96	1/4		1/4		1/4		1/4	
1/2	2,035.16	1/2	1,676.13	1/2	1,317.10	1/2	967.11	1/2	613.51	1/2	254.48	1/2		1/2		1/2		1/2	
3/4	2,027.68	3/4	1,668.65	3/4	1,309.62	3/4	959.94	3/4	606.03	3/4	247.00	3/4		3/4		3/4		3/4	
1	2,020.20	1	1,661.17	1	1,302.14	1	952.76	1	598.55	1	239.52	1		1		1		1	
1/4	2,012.72	1/4	1,653.69	1/4	1,294.66	1/4	945.59	1/4	591.07	1/4	232.04	1/4		1/4		1/4		1/4	
1/2	2,005.24	1/2	1,646.21	1/2	1,287.18	1/2	938.42	1/2	583.59	1/2	224.56	1/2		1/2		1/2		1/2	
3/4	1,997.76	3/4	1,638.73	3/4	1,279.70	3/4	931.25	3/4	576.11	3/4	217.08	3/4		3/4		3/4		3/4	
2	1,990.28	2	1,631.25	2	1,272.22	2	924.07	2	568.63	2	209.60	2		2		2		2	
1/4	1,982.80	1/4	1,623.77	1/4	1,264.74	1/4	916.90	1/4	561.15	1/4	202.12	1/4		1/4		1/4		1/4	
1/2	1,975.32	1/2	1,616.29	1/2	1,257.26	1/2	909.73	1/2	553.67	1/2	194.64	1/2		1/2		1/2		1/2	
3/4	1,967.84	3/4	1,608.81	3/4	1,249.78	3/4	902.55	3/4	546.19	3/4	187.16	3/4		3/4		3/4		3/4	
3	1,960.36	3	1,601.33	3	1,242.30	3	895.38	3	538.71	3	179.68	3		3		3		3	
1/4	1,952.88	1/4	1,593.85	1/4	1,234.82	1/4	888.21	1/4	531.23	1/4	172.20	1/4		1/4		1/4		1/4	
1/2	1,945.40	1/2	1,586.37	1/2	1,227.34	1/2	881.04	1/2	523.75	1/2	164.72	1/2		1/2		1/2		1/2	
3/4	1,937.92	3/4	1,578.89	3/4	1,219.86	3/4	873.86	3/4	516.27	3/4	157.24	3/4		3/4		3/4		3/4	
4	1,930.44	4	1,571.41	4	1,212.38	4	866.69	4	508.79	4	149.76	4		4		4		4	
1/4	1,922.96	1/4	1,563.93	1/4	1,204.90	1/4	859.49	1/4	501.31	1/4	142.28	1/4		1/4		1/4		1/4	
1/2	1,915.48	1/2	1,556.45	1/2	1,197.42	1/2	852.30	1/2	493.83	1/2	134.80	1/2		1/2		1/2		1/2	
3/4	1,908.00	3/4	1,548.97	3/4	1,189.94	3/4	845.10	3/4	486.35	3/4	127.33	3/4		3/4		3/4		3/4	
5	1,900.52	5	1,541.49	5	1,182.46	5	837.90	5	478.87	5	119.85	5		5		5		5	
1/4	1,893.04	1/4	1,534.01	1/4	1,175.26	1/4	830.42	1/4	471.39	1/4	112.38	1/4		1/4		1/4		1/4	
1/2	1,885.56	1/2	1,526.53	1/2	1,168.07	1/2	822.94	1/2	463.91	1/2	104.91	1/2		1/2		1/2		1/2	
3/4	1,878.08	3/4	1,519.05	3/4	1,160.87	3/4	815.46	3/4	456.43	3/4	97.44	3/4		3/4		3/4		3/4	
6	1,870.60	6	1,511.57	6	1,153.67	6	807.98	6	448.95	6	89.97	6		6		6		6	
1/4	1,863.12	1/4	1,504.09	1/4	1,146.49	1/4	800.50	1/4	441.47	1/4	82.53	1/4		1/4		1/4		1/4	
1/2	1,855.64	1/2	1,496.61	1/2	1,139.31	1/2	793.02	1/2	433.99	1/2	75.08	1/2		1/2		1/2		1/2	
3/4	1,848.16	3/4	1,489.13	3/4	1,132.13	3/4	785.54	3/4	426.51	3/4	67.64	3/4		3/4		3/4		3/4	
7	1,840.68	7	1,481.65	7	1,124.95	7	778.06	7	419.03	7	60.20	7		7		7		7	
1/4	1,833.20	1/4	1,474.17	1/4	1,117.77	1/4	770.58	1/4	411.55	1/4	53.65	1/4		1/4		1/4		1/4	
1/2	1,825.72	1/2	1,466.69	1/2	1,110.58	1/2	763.10	1/2	404.07	1/2	47.11	1/2		1/2		1/2		1/2	
3/4	1,818.24	3/4	1,459.21	3/4	1,103.40	3/4	755.63	3/4	396.59	3/4	40.57	3/4		3/4		3/4		3/4	
8	1,810.76	8	1,451.73	8	1,096.22	8	748.15	8	389.11	8	34.02	8		8		8		8	
1/4	1,803.28	1/4	1,444.25	1/4	1,089.05	1/4	740.67	1/4	381.64	1/4	29.35	1/4		1/4		1/4		1/4	
1/2	1,795.80	1/2	1,436.77	1/2	1,081.88	1/2	733.19	1/2	374.16	1/2	24.67	1/2		1/2		1/2		1/2	
3/4	1,788.32	3/4	1,429.29	3/4	1,074.70	3/4	725.71	3/4	366.68	3/4	20.00	3/4		3/4		3/4		3/4	
9	1,780.84	9	1,421.81	9	1,067.53	9	718.23	9	359.20	9	15.32	9		9		9		9	
1/4	1,773.36	1/4	1,414.33	1/4	1,060.36	1/4	710.75	1/4	351.72	1/4		1/4		1/4		1/4		1/4	
1/2	1,765.88	1/2	1,406.85	1/2	1,053.19	1/2	703.27	1/2	344.24	1/2		1/2		1/2		1/2		1/2	
3/4	1,758.40	3/4	1,399.37	3/4	1,046.01	3/4	695.79	3/4	336.76	3/4		3/4		3/4		3/4		3/4	
10	1,750.92	10	1,391.89	10	1,038.84	10	688.31	10	329.28	10		10		10		10		10	
1/4	1,743.45	1/4	1,384.41	1/4	1,031.67	1/4	680.83	1/4	321.80	1/4		1/4		1/4		1/4		1/4	
1/2	1,735.97	1/2	1,376.93	1/2	1,024.49	1/2	673.35	1/2	314.32	1/2		1/2		1/2		1/2		1/2	
3/4	1,728.49	3/4	1,369.46	3/4	1,017.32	3/4	665.87	3/4	306.84	3/4		3/4		3/4		3/4		3/4	
11	1,721.01	11	1,361.98	11	1,010.15	11	658.39	11	299.36	11		11		11		11		11	
1/4	1,713.53	1/4	1,354.50	1/4	1,002.97	1/4	650.91	1/4	291.88	1/4		1/4		1/4		1/4		1/4	
1/2	1,706.05	1/2	1,347.02	1/2	995.80	1/2	643.43	1/2	284.40	1/2		1/2		1/2		1/2		1/2	
3/4	1,698.57	3/4	1,339.54	3/4	988.63	3/4	635.95	3/4	276.92	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 07/10/2018 CL
CALCULATED: 07/11/2018 CL
PRINTED: 07/11/2018 CL

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 310"

2 STBD ULLAGE TABLE

HERMETIC GAUGE HEIGHT 15'-09 1/4"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.		
0	0	0	0	0	4,941.46	0	4,584.40	0	4,226.39	0	3,867.78	0	3,508.72	0	3,149.66	0	2,790.60	0	2,431.48		
1/4	1/4	1/4	1/4	1/4	4,934.08	1/4	4,576.94	1/4	4,218.93	1/4	3,860.30	1/4	3,501.24	1/4	3,142.18	1/4	2,783.12	1/4	2,424.00		
1/2	1/2	1/2	1/2	1/2	4,926.69	1/2	4,569.49	1/2	4,211.47	1/2	3,852.82	1/2	3,493.76	1/2	3,134.70	1/2	2,775.64	1/2	2,416.52		
3/4	3/4	3/4	3/4	3/4	4,919.31	3/4	4,562.03	3/4	4,204.01	3/4	3,845.34	3/4	3,486.28	3/4	3,127.22	3/4	2,768.16	3/4	2,409.03		
1	1	1	1	1	4,911.92	1	4,554.57	1	4,196.55	1	3,837.86	1	3,478.80	1	3,119.74	1	2,760.68	1	2,401.55		
1/4	1/4	1/4	1/4	1/4	4,904.54	1/4	4,547.11	1/4	4,189.09	1/4	3,830.38	1/4	3,471.32	1/4	3,112.26	1/4	2,753.20	1/4	2,394.07		
1/2	1/2	1/2	1/2	1/2	4,897.15	1/2	4,539.65	1/2	4,181.63	1/2	3,822.90	1/2	3,463.84	1/2	3,104.78	1/2	2,745.72	1/2	2,386.59		
3/4	3/4	3/4	3/4	3/4	4,889.77	3/4	4,532.19	3/4	4,174.17	3/4	3,815.42	3/4	3,456.36	3/4	3,097.30	3/4	2,738.24	3/4	2,379.10		
2	2	2	2	2	4,882.38	2	4,524.73	2	4,166.72	2	3,807.94	2	3,448.88	2	3,089.82	2	2,730.76	2	2,371.62		
1/4	1/4	1/4	1/4	1/4	4,875.00	1/4	4,517.27	1/4	4,159.26	1/4	3,800.46	1/4	3,441.40	1/4	3,082.34	1/4	2,723.28	1/4	2,364.14		
1/2	1/2	1/2	1/2	1/2	4,867.61	1/2	4,509.82	1/2	4,151.80	1/2	3,792.98	1/2	3,433.92	1/2	3,074.86	1/2	2,715.80	1/2	2,356.66		
3/4	3/4	3/4	3/4	3/4	4,860.23	3/4	4,502.36	3/4	4,144.34	3/4	3,785.50	3/4	3,426.44	3/4	3,067.38	3/4	2,708.32	3/4	2,349.17		
3	3	3	3	3	4,852.84	3	4,494.90	3	4,136.88	3	3,778.02	3	3,418.96	3	3,059.90	3	2,700.84	3	2,341.69		
1/4	1/4	1/4	1/4	1/4	4,845.46	1/4	4,487.44	1/4	4,129.42	1/4	3,770.54	1/4	3,411.48	1/4	3,052.42	1/4	2,693.36	1/4	2,334.21		
1/2	1/2	1/2	1/2	1/2	4,838.00	1/2	4,479.98	1/2	4,121.96	1/2	3,763.06	1/2	3,404.00	1/2	3,044.94	1/2	2,685.88	1/2	2,326.73		
3/4	3/4	3/4	3/4	3/4	4,830.54	3/4	4,472.52	3/4	4,114.50	3/4	3,755.58	3/4	3,396.52	3/4	3,037.46	3/4	2,678.40	3/4	2,319.24		
4	4	4	4	4	4,823.08	4	4,465.06	4	4,107.05	4	3,748.10	4	3,389.04	4	3,029.98	4	2,670.92	4	2,311.76		
1/4	1/4	1/4	1/4	1/4	4,815.62	1/4	4,457.61	1/4	4,099.59	1/4	3,740.62	1/4	3,381.56	1/4	3,022.50	1/4	2,663.44	1/4	2,304.28		
1/2	1/2	1/2	1/2	1/2	4,808.16	1/2	4,450.15	1/2	4,092.13	1/2	3,733.13	1/2	3,374.08	1/2	3,015.02	1/2	2,655.96	1/2	2,296.80		
3/4	3/4	3/4	3/4	3/4	4,800.71	3/4	4,442.69	3/4	4,084.67	3/4	3,725.65	3/4	3,366.60	3/4	3,007.54	3/4	2,648.47	3/4	2,289.31		
5	5	5	5	5	4,793.25	5	4,435.23	5	4,077.21	5	3,718.17	5	3,359.11	5	3,000.06	5	2,640.99	5	2,281.83		
1/4	1/4	1/4	1/4	1/4	4,785.79	1/4	4,427.77	1/4	4,069.75	1/4	3,710.69	1/4	3,351.63	1/4	2,992.58	1/4	2,633.51	1/4	2,274.35		
1/2	1/2	1/2	1/2	1/2	4,778.33	1/2	4,420.31	1/2	4,062.27	1/2	3,703.21	1/2	3,344.15	1/2	2,985.09	1/2	2,626.03	1/2	2,266.87		
3/4	3/4	3/4	3/4	3/4	4,770.87	3/4	4,412.85	3/4	4,054.79	3/4	3,695.73	3/4	3,336.67	3/4	2,977.61	3/4	2,618.54	3/4	2,259.38		
6	6	6	6	6	4,763.41	6	4,405.39	6	4,047.31	6	3,688.25	6	3,329.19	6	2,970.13	6	2,611.06	6	2,251.90		
1/4	1/4	1/4	1/4	1/4	5,098.55	1/4	4,755.95	1/4	4,397.94	1/4	4,039.83	1/4	3,680.77	1/4	3,321.71	1/4	2,962.65	1/4	2,603.58	1/4	2,244.42
1/2	1/2	1/2	1/2	1/2	5,093.34	1/2	4,748.49	1/2	4,390.48	1/2	4,032.35	1/2	3,673.29	1/2	3,314.23	1/2	2,955.17	1/2	2,596.10	1/2	2,236.94
3/4	3/4	3/4	3/4	3/4	5,088.14	3/4	4,741.04	3/4	4,383.02	3/4	4,024.87	3/4	3,665.81	3/4	3,306.75	3/4	2,947.69	3/4	2,588.61	3/4	2,229.45
7	7	7	7	7	5,082.93	7	4,735.58	7	4,375.56	7	4,017.39	7	3,658.33	7	3,299.27	7	2,940.21	7	2,581.13	7	2,221.97
1/4	1/4	1/4	1/4	1/4	5,077.73	1/4	4,726.12	1/4	4,368.10	1/4	4,009.91	1/4	3,650.85	1/4	3,291.79	1/4	2,932.73	1/4	2,573.65	1/4	2,214.49
1/2	1/2	1/2	1/2	1/2	5,071.28	1/2	4,718.66	1/2	4,360.64	1/2	4,002.43	1/2	3,643.37	1/2	3,284.31	1/2	2,925.25	1/2	2,566.17	1/2	2,207.01
3/4	3/4	3/4	3/4	3/4	5,064.82	3/4	4,711.20	3/4	4,353.18	3/4	3,994.95	3/4	3,635.89	3/4	3,276.83	3/4	2,917.77	3/4	2,558.68	3/4	2,199.52
8	8	8	8	8	5,058.37	8	4,703.74	8	4,345.72	8	3,987.47	8	3,628.41	8	3,269.35	8	2,910.29	8	2,551.20	8	2,192.04
1/4	1/4	1/4	1/4	1/4	5,051.92	1/4	4,696.28	1/4	4,338.27	1/4	3,979.99	1/4	3,620.93	1/4	3,261.87	1/4	2,902.81	1/4	2,543.72	1/4	2,184.56
1/2	1/2	1/2	1/2	1/2	5,044.60	1/2	4,688.82	1/2	4,330.81	1/2	3,972.51	1/2	3,613.45	1/2	3,254.39	1/2	2,895.33	1/2	2,536.24	1/2	2,177.08
3/4	3/4	3/4	3/4	3/4	5,037.29	3/4	4,681.37	3/4	4,323.35	3/4	3,965.03	3/4	3,605.97	3/4	3,246.91	3/4	2,887.85	3/4	2,528.75	3/4	2,169.59
9	9	9	9	9	5,029.97	9	4,673.91	9	4,315.89	9	3,957.55	9	3,598.49	9	3,239.43	9	2,880.37	9	2,521.27	9	2,162.11
1/4	1/4	1/4	1/4	1/4	5,022.66	1/4	4,666.45	1/4	4,308.43	1/4	3,950.07	1/4	3,591.01	1/4	3,231.95	1/4	2,872.89	1/4	2,513.79	1/4	2,154.63
1/2	1/2	1/2	1/2	1/2	5,015.28	1/2	4,658.99	1/2	4,300.97	1/2	3,942.59	1/2	3,583.53	1/2	3,224.47	1/2	2,865.41	1/2	2,506.31	1/2	2,147.15
3/4	3/4	3/4	3/4	3/4	5,007.91	3/4	4,651.53	3/4	4,293.51	3/4	3,935.11	3/4	3,576.05	3/4	3,216.99	3/4	2,857.93	3/4	2,498.82	3/4	2,139.66
10	10	10	10	10	5,000.54	10	4,644.07	10	4,286.06	10	3,927.63	10	3,568.57	10	3,209.51	10	2,850.45	10	2,491.34	10	2,132.18
1/4	1/4	1/4	1/4	1/4	4,993.17	1/4	4,636.61	1/4	4,278.60	1/4	3,920.14	1/4	3,561.09	1/4	3,202.03	1/4	2,842.97	1/4	2,483.86	1/4	2,124.70
1/2	1/2	1/2	1/2	1/2	4,985.78	1/2	4,629.16	1/2	4,271.14	1/2	3,912.66	1/2	3,553.61	1/2	3,194.55	1/2	2,835.49	1/2	2,476.38	1/2	2,117.22
3/4	3/4	3/4	3/4	3/4	4,978.39	3/4	4,621.70	3/4	4,263.68	3/4	3,905.18	3/4	3,546.12	3/4	3,187.07	3/4	2,828.01	3/4	2,468.89	3/4	2,109.73
11	11	11	11	11	4,971.01	11	4,614.24	11	4,256.22	11	3,897.70	11	3,538.64	11	3,179.59	11	2,820.53	11	2,461.41	11	2,102.25
1/4	1/4	1/4	1/4	1/4	4,963.62	1/4	4,606.78	1/4	4,248.76	1/4	3,890.22	1/4	3,531.16	1/4	3,172.10	1/4	2,813.05	1/4	2,453.93	1/4	2,094.77
1/2	1/2	1/2	1/2	1/2	4,956.24	1/2	4,599.32	1/2	4,241.30	1/2	3,882.74	1/2	3,523.68	1/2	3,164.62	1/2	2,805.57	1/2	2,446.45	1/2	2,087.29
3/4	3/4	3/4	3/4	3/4	4,948.85	3/4	4,591.86	3/4	4,233.84	3/4	3,875.26	3/4	3,516.20	3/4	3,157.14	3/4	2,798.08	3/4	2,438.96	3/4	2,079.80

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP LIP OF 2" HERMETIC VALVE
 GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 43'-06" FORWARD OF AFT BULKHEAD

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



BARGE "E2MS 310"

2 STBD

ULLAGE TABLE HERMETIC

GAUGE HEIGHT 15'-09 1/4"

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	2,072.32	0	1,713.16	0	1,354.00	0	995.10	0	636.18	0	277.02	0		0		0		0	
1/4	2,064.84	1/4	1,705.68	1/4	1,346.52	1/4	987.63	1/4	628.70	1/4	269.54	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,057.36	1/2	1,698.20	1/2	1,339.04	1/2	980.16	1/2	621.21	1/2	262.05	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,049.87	3/4	1,690.71	3/4	1,331.55	3/4	972.69	3/4	613.73	3/4	254.57	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	2,042.39	1	1,683.23	1	1,324.07	1	965.22	1	606.25	1	247.09	1	1	1	1	1	1	1	1
1/4	2,034.91	1/4	1,675.75	1/4	1,316.59	1/4	957.76	1/4	598.77	1/4	239.61	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,027.43	1/2	1,668.27	1/2	1,309.11	1/2	950.29	1/2	591.28	1/2	232.12	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,019.94	3/4	1,660.78	3/4	1,301.62	3/4	942.82	3/4	583.80	3/4	224.64	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	2,012.46	2	1,653.30	2	1,294.14	2	935.35	2	576.32	2	217.16	2	2	2	2	2	2	2	2
1/4	2,004.98	1/4	1,645.82	1/4	1,286.66	1/4	927.88	1/4	568.84	1/4	209.68	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,997.50	1/2	1,638.34	1/2	1,279.18	1/2	920.41	1/2	561.35	1/2	202.19	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,990.01	3/4	1,630.85	3/4	1,271.69	3/4	912.95	3/4	553.87	3/4	194.71	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	1,982.53	3	1,623.37	3	1,264.21	3	905.48	3	546.39	3	187.23	3	3	3	3	3	3	3	3
1/4	1,975.05	1/4	1,615.89	1/4	1,256.73	1/4	898.01	1/4	538.91	1/4	179.75	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,967.57	1/2	1,608.41	1/2	1,249.25	1/2	890.54	1/2	531.42	1/2	172.26	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,960.08	3/4	1,600.92	3/4	1,241.76	3/4	883.07	3/4	523.94	3/4	164.78	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	1,952.60	4	1,593.44	4	1,234.28	4	875.60	4	516.46	4	157.30	4	4	4	4	4	4	4	4
1/4	1,945.12	1/4	1,585.96	1/4	1,226.80	1/4	868.14	1/4	508.98	1/4	149.82	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,937.64	1/2	1,578.48	1/2	1,219.32	1/2	860.65	1/2	501.49	1/2	142.33	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,930.15	3/4	1,570.99	3/4	1,211.83	3/4	853.17	3/4	494.01	3/4	134.85	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	1,922.67	5	1,563.51	5	1,204.35	5	845.69	5	486.53	5	127.37	5	5	5	5	5	5	5	5
1/4	1,915.19	1/4	1,556.03	1/4	1,196.87	1/4	838.21	1/4	479.05	1/4	119.89	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,907.71	1/2	1,548.55	1/2	1,189.39	1/2	830.72	1/2	471.56	1/2	112.42	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,900.22	3/4	1,541.06	3/4	1,181.90	3/4	823.24	3/4	464.08	3/4	104.95	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	1,892.74	6	1,533.58	6	1,174.42	6	815.76	6	456.60	6	97.48	6	6	6	6	6	6	6	6
1/4	1,885.26	1/4	1,526.10	1/4	1,166.94	1/4	808.28	1/4	449.12	1/4	90.00	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,877.78	1/2	1,518.62	1/2	1,159.46	1/2	800.79	1/2	441.63	1/2	82.56	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,870.29	3/4	1,511.13	3/4	1,151.98	3/4	793.31	3/4	434.15	3/4	75.11	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	1,862.81	7	1,503.65	7	1,144.51	7	785.83	7	426.67	7	67.67	7	7	7	7	7	7	7	7
1/4	1,855.33	1/4	1,496.17	1/4	1,137.03	1/4	778.35	1/4	419.19	1/4	60.22	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,847.85	1/2	1,488.69	1/2	1,129.55	1/2	770.86	1/2	411.70	1/2	53.67	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,840.36	3/4	1,481.20	3/4	1,122.08	3/4	763.38	3/4	404.22	3/4	47.13	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	1,832.88	8	1,473.72	8	1,114.60	8	755.90	8	396.74	8	40.58	8	8	8	8	8	8	8	8
1/4	1,825.40	1/4	1,466.24	1/4	1,107.12	1/4	748.42	1/4	389.26	1/4	34.04	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,817.92	1/2	1,458.76	1/2	1,099.65	1/2	740.93	1/2	381.77	1/2	29.36	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,810.43	3/4	1,451.27	3/4	1,092.18	3/4	733.45	3/4	374.29	3/4	24.68	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	1,802.95	9	1,443.79	9	1,084.72	9	725.97	9	366.81	9	20.01	9	9	9	9	9	9	9	9
1/4	1,795.47	1/4	1,436.31	1/4	1,077.25	1/4	718.49	1/4	359.33	1/4	15.33	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,787.99	1/2	1,428.83	1/2	1,069.78	1/2	711.00	1/2	351.84	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,780.50	3/4	1,421.34	3/4	1,062.31	3/4	703.52	3/4	344.36	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	1,773.02	10	1,413.86	10	1,054.84	10	696.04	10	336.88	10		10	10	10	10	10	10	10	10
1/4	1,765.54	1/4	1,406.38	1/4	1,047.38	1/4	688.56	1/4	329.40	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,758.06	1/2	1,398.90	1/2	1,039.91	1/2	681.07	1/2	321.91	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,750.57	3/4	1,391.41	3/4	1,032.44	3/4	673.59	3/4	314.43	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	1,743.09	11	1,383.93	11	1,024.97	11	666.11	11	306.95	11		11	11	11	11	11	11	11	11
1/4	1,735.61	1/4	1,376.45	1/4	1,017.50	1/4	658.63	1/4	299.47	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,728.13	1/2	1,368.97	1/2	1,010.03	1/2	651.14	1/2	291.98	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,720.64	3/4	1,361.48	3/4	1,002.57	3/4	643.66	3/4	284.50	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 07/10/2018 CL
CALCULATED: 07/11/2018 CL
PRINTED: 07/11/2018 CL

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 310"

3 PORT ULLAGE TABLE

HERMETIC GAUGE HEIGHT 15'-09"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	0	0	0	0	4,352.81	0	4,134.33	0	3,915.33	0	3,695.97	0	3,461.50	0	3,109.85	0	2,753.26	0	2,396.61
1/4	1/4	1/4	1/4	1/4	4,348.29	1/4	4,129.77	1/4	3,910.77	1/4	3,691.39	1/4	3,454.82	1/4	3,102.42	1/4	2,745.83	1/4	2,389.17
1/2	1/2	1/2	1/2	1/2	4,343.77	1/2	4,125.21	1/2	3,906.20	1/2	3,686.82	1/2	3,448.14	1/2	3,094.99	1/2	2,738.41	1/2	2,381.73
3/4	3/4	3/4	3/4	3/4	4,339.25	3/4	4,120.65	3/4	3,901.64	3/4	3,682.24	3/4	3,441.46	3/4	3,087.56	3/4	2,730.98	3/4	2,374.29
1	1	1	1	1	4,334.73	1	4,116.08	1	3,897.08	1	3,677.66	1	3,434.77	1	3,080.13	1	2,723.55	1	2,366.85
1/4	1/4	1/4	1/4	1/4	4,330.21	1/4	4,111.52	1/4	3,892.52	1/4	3,673.09	1/4	3,427.61	1/4	3,072.70	1/4	2,716.12	1/4	2,359.41
1/2	1/2	1/2	1/2	1/2	4,325.70	1/2	4,106.96	1/2	3,887.95	1/2	3,668.51	1/2	3,420.45	1/2	3,065.27	1/2	2,708.69	1/2	2,351.97
3/4	3/4	3/4	3/4	3/4	4,321.18	3/4	4,102.40	3/4	3,883.39	3/4	3,663.94	3/4	3,413.29	3/4	3,057.84	3/4	2,701.26	3/4	2,344.53
2	2	2	2	2	4,316.66	2	4,097.83	2	3,878.83	2	3,659.36	2	3,406.13	2	3,050.41	2	2,693.83	2	2,337.09
1/4	1/4	1/4	1/4	1/4	4,312.14	1/4	4,093.27	1/4	3,874.27	1/4	3,654.79	1/4	3,398.75	1/4	3,042.99	1/4	2,686.40	1/4	2,329.65
1/2	1/2	1/2	1/2	1/2	4,307.62	1/2	4,088.71	1/2	3,869.70	1/2	3,650.21	1/2	3,391.36	1/2	3,035.56	1/2	2,678.97	1/2	2,322.21
3/4	3/4	3/4	3/4	3/4	4,303.11	3/4	4,084.15	3/4	3,865.14	3/4	3,645.64	3/4	3,383.97	3/4	3,028.13	3/4	2,671.55	3/4	2,314.78
3	3	3	3	3	4,298.59	3	4,079.58	3	3,860.58	3	3,641.06	3	3,376.59	3	3,020.70	3	2,664.12	3	2,307.34
1/4	1/4	1/4	1/4	1/4	4,294.03	1/4	4,075.02	1/4	3,856.02	1/4	3,636.49	1/4	3,369.19	1/4	3,013.27	1/4	2,656.69	1/4	2,299.90
1/2	1/2	1/2	1/2	1/2	4,289.46	1/2	4,070.46	1/2	3,851.45	1/2	3,631.91	1/2	3,361.79	1/2	3,005.84	1/2	2,649.26	1/2	2,292.46
3/4	3/4	3/4	3/4	3/4	4,284.90	3/4	4,065.90	3/4	3,846.89	3/4	3,627.34	3/4	3,354.40	3/4	2,998.41	3/4	2,641.83	3/4	2,285.02
4	4	4	4	4	4,280.34	4	4,061.33	4	3,842.33	4	3,622.76	4	3,347.00	4	2,990.98	4	2,634.40	4	2,277.58
1/4	1/4	1/4	1/4	1/4	4,275.77	1/4	4,056.77	1/4	3,837.77	1/4	3,618.18	1/4	3,339.60	1/4	2,983.56	1/4	2,626.97	1/4	2,270.15
1/2	1/2	1/2	1/2	1/2	4,271.21	1/2	4,052.21	1/2	3,833.20	1/2	3,613.61	1/2	3,332.20	1/2	2,976.13	1/2	2,619.54	1/2	2,262.71
3/4	3/4	3/4	3/4	3/4	4,266.65	3/4	4,047.64	3/4	3,828.64	3/4	3,609.03	3/4	3,324.80	3/4	2,968.70	3/4	2,612.11	3/4	2,255.28
5	5	5	5	5	4,262.09	5	4,043.08	5	3,824.08	5	3,604.46	5	3,317.40	5	2,961.27	5	2,604.68	5	2,247.85
1/4	1/4	1/4	1/4	1/4	4,257.52	1/4	4,038.52	1/4	3,819.50	1/4	3,599.88	1/4	3,310.00	1/4	2,953.84	1/4	2,597.25	1/4	2,240.41
1/2	1/2	1/2	1/2	1/2	4,252.96	1/2	4,033.96	1/2	3,814.93	1/2	3,595.31	1/2	3,302.60	1/2	2,946.41	1/2	2,589.82	1/2	2,232.98
3/4	3/4	3/4	3/4	3/4	4,248.40	3/4	4,029.39	3/4	3,810.35	3/4	3,590.73	3/4	3,295.20	3/4	2,938.98	3/4	2,582.39	3/4	2,225.55
6	6	4,453.42	6	4,243.84	6	4,024.83	6	3,805.78	6	3,586.16	6	3,287.80	6	2,931.55	6	2,574.96	6	2,218.11	
1/4	1/4	4,450.24	1/4	4,239.27	1/4	4,020.27	1/4	3,801.20	1/4	3,581.58	1/4	3,280.40	1/4	2,924.13	1/4	2,567.53	1/4	2,210.68	
1/2	1/2	4,447.05	1/2	4,234.71	1/2	4,015.71	1/2	3,796.63	1/2	3,577.01	1/2	3,273.00	1/2	2,916.70	1/2	2,560.10	1/2	2,203.24	
3/4	3/4	4,443.87	3/4	4,230.15	3/4	4,011.14	3/4	3,792.05	3/4	3,572.43	3/4	3,265.60	3/4	2,909.27	3/4	2,552.67	3/4	2,195.81	
7	7	4,440.68	7	4,225.59	7	4,006.58	7	3,787.47	7	3,567.86	7	3,258.20	7	2,901.84	7	2,545.24	7	2,188.38	
1/4	1/4	4,436.74	1/4	4,221.02	1/4	4,002.02	1/4	3,782.90	1/4	3,563.28	1/4	3,250.80	1/4	2,894.41	1/4	2,537.81	1/4	2,180.94	
1/2	1/2	4,432.79	1/2	4,216.46	1/2	3,997.46	1/2	3,778.32	1/2	3,558.70	1/2	3,243.39	1/2	2,886.98	1/2	2,530.38	1/2	2,173.51	
3/4	3/4	4,428.84	3/4	4,211.90	3/4	3,992.89	3/4	3,773.75	3/4	3,554.13	3/4	3,235.99	3/4	2,879.55	3/4	2,522.95	3/4	2,166.08	
8	8	4,424.90	8	4,207.34	8	3,988.33	8	3,769.17	8	3,549.55	8	3,228.59	8	2,872.12	8	2,515.52	8	2,158.64	
1/4	1/4	4,420.42	1/4	4,202.77	1/4	3,983.77	1/4	3,764.60	1/4	3,544.74	1/4	3,221.19	1/4	2,864.69	1/4	2,508.09	1/4	2,151.21	
1/2	1/2	4,415.95	1/2	4,198.21	1/2	3,979.21	1/2	3,760.02	1/2	3,539.92	1/2	3,213.79	1/2	2,857.27	1/2	2,500.66	1/2	2,143.78	
3/4	3/4	4,411.47	3/4	4,193.65	3/4	3,974.64	3/4	3,755.45	3/4	3,535.11	3/4	3,206.39	3/4	2,849.84	3/4	2,493.23	3/4	2,136.34	
9	9	4,407.00	9	4,189.09	9	3,970.08	9	3,750.87	9	3,530.29	9	3,198.99	9	2,842.41	9	2,485.80	9	2,128.91	
1/4	1/4	4,402.49	1/4	4,184.52	1/4	3,965.52	1/4	3,746.30	1/4	3,525.04	1/4	3,191.56	1/4	2,834.98	1/4	2,478.37	1/4	2,121.48	
1/2	1/2	4,397.98	1/2	4,179.96	1/2	3,960.96	1/2	3,741.72	1/2	3,519.78	1/2	3,184.13	1/2	2,827.55	1/2	2,470.94	1/2	2,114.04	
3/4	3/4	4,393.47	3/4	4,175.40	3/4	3,956.39	3/4	3,737.14	3/4	3,514.52	3/4	3,176.70	3/4	2,820.12	3/4	2,463.51	3/4	2,106.61	
10	10	4,388.96	10	4,170.84	10	3,951.83	10	3,732.57	10	3,509.26	10	3,169.28	10	2,812.69	10	2,456.08	10	2,099.18	
1/4	1/4	4,384.44	1/4	4,166.27	1/4	3,947.27	1/4	3,727.99	1/4	3,503.53	1/4	3,161.85	1/4	2,805.26	1/4	2,448.65	1/4	2,091.76	
1/2	1/2	4,379.92	1/2	4,161.71	1/2	3,942.71	1/2	3,723.42	1/2	3,497.79	1/2	3,154.42	1/2	2,797.84	1/2	2,441.22	1/2	2,084.35	
3/4	3/4	4,375.40	3/4	4,157.15	3/4	3,938.14	3/4	3,718.84	3/4	3,492.05	3/4	3,146.99	3/4	2,790.41	3/4	2,433.79	3/4	2,076.94	
11	11	4,370.88	11	4,152.58	11	3,933.58	11	3,714.27	11	3,486.32	11	3,139.56	11	2,782.98	11	2,426.36	11	2,069.52	
1/4	1/4	4,366.36	1/4	4,148.02	1/4	3,929.02	1/4	3,709.69	1/4	3,480.11	1/4	3,132.13	1/4	2,775.55	1/4	2,418.92	1/4	2,062.11	
1/2	1/2	4,361.84	1/2	4,143.46	1/2	3,924.45	1/2	3,705.12	1/2	3,473.91	1/2	3,124.70	1/2	2,768.12	1/2	2,411.48	1/2	2,054.70	
3/4	3/4	4,357.32	3/4	4,138.90	3/4	3,919.89	3/4	3,700.54	3/4	3,467.70	3/4	3,117.27	3/4	2,760.69	3/4	2,404.04	3/4	2,047.28	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP LIP OF 2" HERMETIC VALVE
 GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 42'-06" FORWARD OF AFT BULKHEAD

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092
 Pearland, Texas 77588
<http://www.pmacorp.net>



BARGE "E2MS 310"

3 PORT ULLAGE TABLE HERMETIC GAUGE HEIGHT 15'-09"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,039.87	0	1,683.55	0	1,326.58	0	976.87	0	625.75	0	268.49	0		0		0		0	
1/4	2,032.45	1/4	1,676.11	1/4	1,319.14	1/4	969.72	1/4	618.31	1/4	261.04	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,025.03	1/2	1,668.68	1/2	1,311.71	1/2	962.58	1/2	610.87	1/2	253.59	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,017.61	3/4	1,661.24	3/4	1,304.27	3/4	955.43	3/4	603.43	3/4	246.13	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	2,010.19	1	1,653.80	1	1,296.83	1	948.29	1	595.98	1	238.68	1	1	1	1	1	1	1	1
1/4	2,002.77	1/4	1,646.37	1/4	1,289.39	1/4	941.14	1/4	588.54	1/4	231.23	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,995.35	1/2	1,638.93	1/2	1,281.96	1/2	934.00	1/2	581.10	1/2	223.77	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,987.93	3/4	1,631.49	3/4	1,274.52	3/4	926.85	3/4	573.66	3/4	216.32	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	1,980.50	2	1,624.06	2	1,267.08	2	919.71	2	566.22	2	208.87	2	2	2	2	2	2	2	2
1/4	1,973.08	1/4	1,616.62	1/4	1,259.65	1/4	912.56	1/4	558.77	1/4	201.41	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,965.66	1/2	1,609.18	1/2	1,252.21	1/2	905.42	1/2	551.33	1/2	193.96	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,958.24	3/4	1,601.74	3/4	1,244.77	3/4	898.27	3/4	543.89	3/4	186.51	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	1,950.82	3	1,594.31	3	1,237.34	3	891.12	3	536.45	3	179.05	3	3	3	3	3	3	3	3
1/4	1,943.40	1/4	1,586.87	1/4	1,229.90	1/4	883.98	1/4	529.01	1/4	171.60	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,935.98	1/2	1,579.43	1/2	1,222.46	1/2	876.83	1/2	521.56	1/2	164.14	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,928.56	3/4	1,572.00	3/4	1,215.03	3/4	869.69	3/4	514.12	3/4	156.69	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	1,921.14	4	1,564.56	4	1,207.59	4	862.54	4	506.68	4	149.24	4	4	4	4	4	4	4	4
1/4	1,913.72	1/4	1,557.12	1/4	1,200.15	1/4	855.38	1/4	499.24	1/4	141.79	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,906.30	1/2	1,549.69	1/2	1,192.71	1/2	848.21	1/2	491.80	1/2	134.33	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,898.88	3/4	1,542.25	3/4	1,185.28	3/4	841.04	3/4	484.36	3/4	126.88	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	1,891.46	5	1,534.81	5	1,177.84	5	833.87	5	476.91	5	119.43	5	5	5	5	5	5	5	5
1/4	1,884.04	1/4	1,527.38	1/4	1,170.61	1/4	826.49	1/4	469.47	1/4	111.99	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,876.62	1/2	1,519.94	1/2	1,163.38	1/2	819.11	1/2	462.03	1/2	104.54	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,869.20	3/4	1,512.50	3/4	1,156.15	3/4	811.74	3/4	454.59	3/4	97.10	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	1,861.78	6	1,505.06	6	1,148.92	6	804.36	6	447.15	6	89.66	6	6	6	6	6	6	6	6
1/4	1,854.35	1/4	1,497.63	1/4	1,141.71	1/4	796.92	1/4	439.70	1/4	82.24	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,846.93	1/2	1,490.19	1/2	1,134.49	1/2	789.47	1/2	432.26	1/2	74.82	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,839.51	3/4	1,482.75	3/4	1,127.27	3/4	782.03	3/4	424.82	3/4	67.41	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	1,832.09	7	1,475.32	7	1,120.06	7	774.59	7	417.38	7	59.99	7	7	7	7	7	7	7	7
1/4	1,824.67	1/4	1,467.88	1/4	1,112.84	1/4	767.15	1/4	409.94	1/4	53.47	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,817.25	1/2	1,460.44	1/2	1,105.63	1/2	759.71	1/2	402.49	1/2	46.95	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,809.83	3/4	1,453.01	3/4	1,098.41	3/4	752.26	3/4	395.05	3/4	40.43	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	1,802.41	8	1,445.57	8	1,091.20	8	744.82	8	387.61	8	33.91	8	8	8	8	8	8	8	8
1/4	1,794.99	1/4	1,438.13	1/4	1,084.05	1/4	737.38	1/4	380.17	1/4	29.25	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,787.57	1/2	1,430.70	1/2	1,076.91	1/2	729.94	1/2	372.73	1/2	24.59	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,780.15	3/4	1,423.26	3/4	1,069.76	3/4	722.50	3/4	365.28	3/4	19.93	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	1,772.73	9	1,415.82	9	1,062.61	9	715.05	9	357.84	9	15.27	9	9	9	9	9	9	9	9
1/4	1,765.31	1/4	1,408.38	1/4	1,055.47	1/4	707.61	1/4	350.40	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,757.89	1/2	1,400.95	1/2	1,048.32	1/2	700.17	1/2	342.96	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,750.47	3/4	1,393.51	3/4	1,041.18	3/4	692.73	3/4	335.52	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	1,743.05	10	1,386.07	10	1,034.03	10	685.29	10	328.08	10		10	10	10	10	10	10	10	10
1/4	1,735.61	1/4	1,378.64	1/4	1,026.89	1/4	677.84	1/4	320.63	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,728.17	1/2	1,371.20	1/2	1,019.74	1/2	670.40	1/2	313.19	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,720.73	3/4	1,363.76	3/4	1,012.60	3/4	662.96	3/4	305.75	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	1,713.30	11	1,356.33	11	1,005.45	11	655.52	11	298.31	11		11	11	11	11	11	11	11	11
1/4	1,705.86	1/4	1,348.89	1/4	998.31	1/4	648.08	1/4	290.85	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,698.42	1/2	1,341.45	1/2	991.16	1/2	640.64	1/2	283.40	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,690.99	3/4	1,334.02	3/4	984.01	3/4	633.19	3/4	275.95	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 07/10/2018 CL
CALCULATED: 07/11/2018 CL
PRINTED: 07/11/2018 CL

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 310"

3 STBD ULLAGE TABLE

HERMETIC GAUGE HEIGHT 15'-08 1/2"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	0	0	0	0	4,366.44	0	4,147.73	0	3,928.57	0	3,709.03	0	3,470.12	0	3,116.08	0	2,758.60	0	2,401.04
1/4	1/4	1/4	1/4	1/4	4,361.92	1/4	4,143.17	1/4	3,924.00	1/4	3,704.45	1/4	3,463.42	1/4	3,108.63	1/4	2,751.15	1/4	2,393.58
1/2	1/2	1/2	1/2	1/2	4,357.40	1/2	4,138.60	1/2	3,919.44	1/2	3,699.87	1/2	3,456.72	1/2	3,101.18	1/2	2,743.70	1/2	2,386.12
3/4	3/4	3/4	3/4	3/4	4,352.88	3/4	4,134.03	3/4	3,914.87	3/4	3,695.29	3/4	3,449.54	3/4	3,093.74	3/4	2,736.26	3/4	2,378.66
1	1	1	1	1	4,348.36	1	4,129.47	1	3,910.30	1	3,690.71	1	3,442.36	1	3,086.29	1	2,728.81	1	2,371.21
1/4	1/4	1/4	1/4	1/4	4,343.84	1/4	4,124.90	1/4	3,905.74	1/4	3,686.13	1/4	3,435.18	1/4	3,078.84	1/4	2,721.36	1/4	2,363.75
1/2	1/2	1/2	1/2	1/2	4,339.32	1/2	4,120.34	1/2	3,901.17	1/2	3,681.56	1/2	3,428.00	1/2	3,071.39	1/2	2,713.91	1/2	2,356.29
3/4	3/4	3/4	3/4	3/4	4,334.80	3/4	4,115.77	3/4	3,896.61	3/4	3,676.98	3/4	3,420.60	3/4	3,063.95	3/4	2,706.47	3/4	2,348.83
2	2	2	2	2	4,330.28	2	4,111.20	2	3,892.04	2	3,672.40	2	3,413.19	2	3,056.50	2	2,699.02	2	2,341.38
1/4	1/4	1/4	1/4	1/4	4,325.76	1/4	4,106.64	1/4	3,887.48	1/4	3,667.82	1/4	3,405.79	1/4	3,049.05	1/4	2,691.57	1/4	2,333.92
1/2	1/2	1/2	1/2	1/2	4,321.24	1/2	4,102.07	1/2	3,882.91	1/2	3,663.24	1/2	3,398.38	1/2	3,041.60	1/2	2,684.12	1/2	2,326.46
3/4	3/4	3/4	3/4	3/4	4,316.67	3/4	4,097.51	3/4	3,878.34	3/4	3,658.66	3/4	3,390.97	3/4	3,034.16	3/4	2,676.68	3/4	2,319.00
3	3	3	3	3	4,312.10	3	4,092.94	3	3,873.78	3	3,654.08	3	3,383.55	3	3,026.71	3	2,669.23	3	2,311.54
1/4	1/4	1/4	1/4	1/4	4,307.54	1/4	4,088.37	1/4	3,869.21	1/4	3,649.51	1/4	3,376.14	1/4	3,019.26	1/4	2,661.78	1/4	2,304.09
1/2	1/2	1/2	1/2	1/2	4,302.97	1/2	4,083.81	1/2	3,864.65	1/2	3,644.93	1/2	3,368.72	1/2	3,011.81	1/2	2,654.33	1/2	2,296.63
3/4	3/4	3/4	3/4	3/4	4,298.41	3/4	4,079.24	3/4	3,860.08	3/4	3,640.35	3/4	3,361.30	3/4	3,004.37	3/4	2,646.89	3/4	2,289.17
4	4	4	4	4	4,293.84	4	4,074.68	4	3,855.51	4	3,635.77	4	3,353.88	4	2,996.92	4	2,639.44	4	2,281.71
1/4	1/4	1/4	1/4	1/4	4,289.27	1/4	4,070.11	1/4	3,850.95	1/4	3,631.19	1/4	3,346.47	1/4	2,989.47	1/4	2,631.99	1/4	2,274.25
1/2	1/2	1/2	1/2	1/2	4,284.71	1/2	4,065.55	1/2	3,846.38	1/2	3,626.61	1/2	3,339.05	1/2	2,982.02	1/2	2,624.54	1/2	2,266.80
3/4	3/4	3/4	3/4	3/4	4,280.14	3/4	4,060.98	3/4	3,841.80	3/4	3,622.04	3/4	3,331.63	3/4	2,974.58	3/4	2,617.09	3/4	2,259.34
5	5	5	5	5	4,275.58	5	4,056.41	5	3,837.22	5	3,617.46	5	3,324.21	5	2,967.13	5	2,609.64	5	2,251.88
1/4	1/4	1/4	1/4	1/4	4,271.01	1/4	4,051.85	1/4	3,832.65	1/4	3,612.88	1/4	3,316.79	1/4	2,959.68	1/4	2,602.20	1/4	2,244.42
1/2	1/2	1/2	1/2	1/2	4,476.15	1/2	4,266.44	1/2	4,047.28	1/2	3,828.07	1/2	3,608.30	1/2	3,309.37	1/2	2,952.23	1/2	2,594.75
3/4	3/4	3/4	3/4	3/4	4,472.97	3/4	4,261.88	3/4	4,042.72	3/4	3,823.49	3/4	3,603.72	3/4	3,301.95	3/4	2,944.79	3/4	2,587.30
6	6	6	6	6	4,469.78	6	4,257.31	6	4,038.15	6	3,818.91	6	3,599.14	6	3,294.53	6	2,937.34	6	2,579.85
1/4	1/4	1/4	1/4	1/4	4,466.60	1/4	4,252.75	1/4	4,033.58	1/4	3,814.33	1/4	3,594.56	1/4	3,287.11	1/4	2,929.89	1/4	2,572.40
1/2	1/2	1/2	1/2	1/2	4,463.41	1/2	4,248.18	1/2	4,029.02	1/2	3,809.75	1/2	3,589.99	1/2	3,279.70	1/2	2,922.44	1/2	2,564.96
3/4	3/4	3/4	3/4	3/4	4,459.46	3/4	4,243.62	3/4	4,024.45	3/4	3,805.18	3/4	3,585.41	3/4	3,272.28	3/4	2,915.00	3/4	2,557.51
7	7	7	7	7	4,455.51	7	4,239.05	7	4,019.89	7	3,800.60	7	3,580.83	7	3,264.86	7	2,907.55	7	2,550.06
1/4	1/4	1/4	1/4	1/4	4,451.56	1/4	4,234.48	1/4	4,015.32	1/4	3,796.02	1/4	3,576.25	1/4	3,257.44	1/4	2,900.10	1/4	2,542.61
1/2	1/2	1/2	1/2	1/2	4,447.61	1/2	4,229.92	1/2	4,010.75	1/2	3,791.44	1/2	3,571.67	1/2	3,250.02	1/2	2,892.65	1/2	2,535.16
3/4	3/4	3/4	3/4	3/4	4,443.13	3/4	4,225.35	3/4	4,006.19	3/4	3,786.86	3/4	3,566.85	3/4	3,242.60	3/4	2,885.21	3/4	2,527.71
8	8	8	8	8	4,438.65	8	4,220.79	8	4,001.62	8	3,782.28	8	3,562.04	8	3,235.18	8	2,877.76	8	2,520.27
1/4	1/4	1/4	1/4	1/4	4,434.18	1/4	4,216.22	1/4	3,997.06	1/4	3,777.70	1/4	3,557.22	1/4	3,227.76	1/4	2,870.31	1/4	2,512.82
1/2	1/2	1/2	1/2	1/2	4,429.70	1/2	4,211.65	1/2	3,992.49	1/2	3,773.13	1/2	3,552.40	1/2	3,220.34	1/2	2,862.86	1/2	2,505.37
3/4	3/4	3/4	3/4	3/4	4,425.18	3/4	4,207.09	3/4	3,987.92	3/4	3,768.55	3/4	3,547.14	3/4	3,212.90	3/4	2,855.42	3/4	2,497.92
9	9	9	9	9	4,420.67	9	4,202.52	9	3,983.36	9	3,763.97	9	3,541.88	9	3,205.45	9	2,847.97	9	2,490.47
1/4	1/4	1/4	1/4	1/4	4,416.16	1/4	4,197.96	1/4	3,978.79	1/4	3,759.39	1/4	3,536.62	1/4	3,198.00	1/4	2,840.52	1/4	2,483.03
1/2	1/2	1/2	1/2	1/2	4,411.65	1/2	4,193.39	1/2	3,974.23	1/2	3,754.81	1/2	3,531.36	1/2	3,190.55	1/2	2,833.07	1/2	2,475.58
3/4	3/4	3/4	3/4	3/4	4,407.13	3/4	4,188.82	3/4	3,969.66	3/4	3,750.23	3/4	3,525.62	3/4	3,183.11	3/4	2,825.63	3/4	2,468.13
10	10	10	10	10	4,402.61	10	4,184.26	10	3,965.10	10	3,745.65	10	3,519.88	10	3,175.66	10	2,818.18	10	2,460.68
1/4	1/4	1/4	1/4	1/4	4,398.09	1/4	4,179.69	1/4	3,960.53	1/4	3,741.08	1/4	3,514.14	1/4	3,168.21	1/4	2,810.73	1/4	2,453.23
1/2	1/2	1/2	1/2	1/2	4,393.57	1/2	4,175.13	1/2	3,955.96	1/2	3,736.50	1/2	3,508.40	1/2	3,160.76	1/2	2,803.28	1/2	2,445.78
3/4	3/4	3/4	3/4	3/4	4,389.04	3/4	4,170.56	3/4	3,951.40	3/4	3,731.92	3/4	3,502.18	3/4	3,153.32	3/4	2,795.84	3/4	2,438.33
11	11	11	11	11	4,384.52	11	4,165.99	11	3,946.83	11	3,727.34	11	3,495.96	11	3,145.87	11	2,788.39	11	2,430.87
1/4	1/4	1/4	1/4	1/4	4,380.00	1/4	4,161.43	1/4	3,942.27	1/4	3,722.76	1/4	3,489.74	1/4	3,138.42	1/4	2,780.94	1/4	2,423.41
1/2	1/2	1/2	1/2	1/2	4,375.48	1/2	4,156.86	1/2	3,937.70	1/2	3,718.18	1/2	3,483.52	1/2	3,130.97	1/2	2,773.49	1/2	2,415.95
3/4	3/4	3/4	3/4	3/4	4,370.96	3/4	4,152.30	3/4	3,933.13	3/4	3,713.61	3/4	3,476.82	3/4	3,123.53	3/4	2,766.05	3/4	2,408.50

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP LIP OF 2" HERMETIC VALVE
 GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 42'-06" FORWARD OF AFT BULKHEAD

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



BARGE "E2MS 310"

3 STBD

ULLAGE TABLE
HERMETIC

GAUGE HEIGHT 15'-08 1/2"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,043.06	0	1,685.09	0	1,327.11	0	969.45	0	611.69	0	253.72	0		0		0		0	
1/4	2,035.61	1/4	1,677.63	1/4	1,319.66	1/4	962.01	1/4	604.23	1/4	246.27	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,028.15	1/2	1,670.17	1/2	1,312.20	1/2	954.56	1/2	596.77	1/2	238.81	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,020.69	3/4	1,662.72	3/4	1,304.74	3/4	947.12	3/4	589.32	3/4	231.35	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	2,013.23	1	1,655.26	1	1,297.28	1	939.68	1	581.86	1	223.89	1	1	1	1	1	1	1	1
1/4	2,005.77	1/4	1,647.80	1/4	1,289.83	1/4	932.23	1/4	574.40	1/4	216.44	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,998.32	1/2	1,640.34	1/2	1,282.37	1/2	924.79	1/2	566.94	1/2	208.98	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,990.86	3/4	1,632.88	3/4	1,274.91	3/4	917.35	3/4	559.49	3/4	201.52	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	1,983.40	2	1,625.43	2	1,267.45	2	909.91	2	552.03	2	194.06	2	2	2	2	2	2	2	2
1/4	1,975.94	1/4	1,617.97	1/4	1,259.99	1/4	902.46	1/4	544.57	1/4	186.61	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,968.49	1/2	1,610.51	1/2	1,252.54	1/2	895.02	1/2	537.11	1/2	179.15	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,961.03	3/4	1,603.05	3/4	1,245.08	3/4	887.58	3/4	529.65	3/4	171.69	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	1,953.57	3	1,595.60	3	1,237.62	3	880.13	3	522.20	3	164.23	3	3	3	3	3	3	3	3
1/4	1,946.11	1/4	1,588.14	1/4	1,230.16	1/4	872.69	1/4	514.74	1/4	156.77	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,938.65	1/2	1,580.68	1/2	1,222.71	1/2	865.25	1/2	507.28	1/2	149.32	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,931.20	3/4	1,573.22	3/4	1,215.25	3/4	857.79	3/4	499.82	3/4	141.86	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	1,923.74	4	1,565.76	4	1,207.79	4	850.33	4	492.37	4	134.40	4	4	4	4	4	4	4	4
1/4	1,916.28	1/4	1,558.31	1/4	1,200.33	1/4	842.87	1/4	484.91	1/4	126.95	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,908.82	1/2	1,550.85	1/2	1,192.87	1/2	835.42	1/2	477.45	1/2	119.49	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,901.36	3/4	1,543.39	3/4	1,185.42	3/4	827.96	3/4	469.99	3/4	112.05	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	1,893.91	5	1,535.93	5	1,177.96	5	820.50	5	462.54	5	104.60	5	5	5	5	5	5	5	5
1/4	1,886.45	1/4	1,528.47	1/4	1,170.50	1/4	813.04	1/4	455.08	1/4	97.15	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,878.99	1/2	1,521.02	1/2	1,163.04	1/2	805.59	1/2	447.62	1/2	89.70	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,871.53	3/4	1,513.56	3/4	1,155.59	3/4	798.13	3/4	440.16	3/4	82.28	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	1,864.08	6	1,506.10	6	1,148.14	6	790.67	6	432.71	6	74.86	6	6	6	6	6	6	6	6
1/4	1,856.62	1/4	1,498.64	1/4	1,140.69	1/4	783.21	1/4	425.25	1/4	67.44	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,849.16	1/2	1,491.19	1/2	1,133.23	1/2	775.76	1/2	417.79	1/2	60.02	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,841.70	3/4	1,483.73	3/4	1,125.78	3/4	768.30	3/4	410.33	3/4	53.50	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	1,834.24	7	1,476.27	7	1,118.33	7	760.84	7	402.88	7	46.97	7	7	7	7	7	7	7	7
1/4	1,826.79	1/4	1,468.81	1/4	1,110.88	1/4	753.38	1/4	395.42	1/4	40.45	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,819.33	1/2	1,461.35	1/2	1,103.43	1/2	745.93	1/2	387.96	1/2	33.92	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,811.87	3/4	1,453.90	3/4	1,095.98	3/4	738.47	3/4	380.50	3/4	29.26	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	1,804.41	8	1,446.44	8	1,088.54	8	731.01	8	373.05	8	24.60	8	8	8	8	8	8	8	8
1/4	1,796.96	1/4	1,438.98	1/4	1,081.10	1/4	723.55	1/4	365.59	1/4	19.94	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,789.50	1/2	1,431.52	1/2	1,073.65	1/2	716.09	1/2	358.13	1/2	15.28	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,782.04	3/4	1,424.07	3/4	1,066.21	3/4	708.64	3/4	350.67	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	1,774.58	9	1,416.61	9	1,058.77	9	701.18	9	343.21	9		9	9	9	9	9	9	9	9
1/4	1,767.12	1/4	1,409.15	1/4	1,051.32	1/4	693.72	1/4	335.76	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,759.67	1/2	1,401.69	1/2	1,043.88	1/2	686.26	1/2	328.30	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,752.21	3/4	1,394.23	3/4	1,036.44	3/4	678.81	3/4	320.84	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	1,744.75	10	1,386.78	10	1,028.99	10	671.35	10	313.38	10		10	10	10	10	10	10	10	10
1/4	1,737.29	1/4	1,379.32	1/4	1,021.55	1/4	663.89	1/4	305.93	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,729.84	1/2	1,371.86	1/2	1,014.11	1/2	656.43	1/2	298.47	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,722.38	3/4	1,364.40	3/4	1,006.67	3/4	648.98	3/4	291.01	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	1,714.92	11	1,356.95	11	999.22	11	641.52	11	283.55	11		11	11	11	11	11	11	11	11
1/4	1,707.46	1/4	1,349.49	1/4	991.78	1/4	634.06	1/4	276.10	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,700.00	1/2	1,342.03	1/2	984.34	1/2	626.60	1/2	268.64	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,692.55	3/4	1,334.57	3/4	976.89	3/4	619.15	3/4	261.18	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 07/10/2018 CL
CALCULATED: 07/11/2018 CL
PRINTED: 07/11/2018 CL

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 310"

FUEL TANK INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GUAGE HEIGHT 4'-06"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	0	0	100	0	257	0	412	0		0		0		0		0		0	
1/4	1	1/4	103	1/4	260	1/4	415	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	1	1/2	106	1/2	263	1/2	417	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2	3/4	109	3/4	267	3/4	420	3/4		3/4		3/4		3/4		3/4		3/4	
1	3	1	112	1	270	1	423	1		1		1		1		1		1	
1/4	4	1/4	115	1/4	273	1/4	426	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	5	1/2	119	1/2	277	1/2	429	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	6	3/4	122	3/4	280	3/4	431	3/4		3/4		3/4		3/4		3/4		3/4	
2	7	2	125	2	284	2	434	2		2		2		2		2		2	
1/4	9	1/4	128	1/4	287	1/4	437	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	10	1/2	131	1/2	290	1/2	440	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	12	3/4	134	3/4	294	3/4	442	3/4		3/4		3/4		3/4		3/4		3/4	
3	13	3	137	3	297	3	445	3		3		3		3		3		3	
1/4	15	1/4	140	1/4	300	1/4	447	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	17	1/2	144	1/2	304	1/2	450	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	19	3/4	147	3/4	307	3/4	452	3/4		3/4		3/4		3/4		3/4		3/4	
4	20	4	150	4	311	4	455	4		4		4		4		4		4	
1/4	22	1/4	153	1/4	314	1/4	457	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	24	1/2	156	1/2	317	1/2	460	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	26	3/4	160	3/4	320	3/4	462	3/4		3/4		3/4		3/4		3/4		3/4	
5	28	5	163	5	324	5	465	5		5		5		5		5		5	
1/4	31	1/4	166	1/4	327	1/4	467	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	33	1/2	169	1/2	330	1/2	469	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	35	3/4	173	3/4	334	3/4	471	3/4		3/4		3/4		3/4		3/4		3/4	
6	37	6	176	6	337	6	474	6		6		6		6		6		6	
1/4	39	1/4	179	1/4	340	1/4	476	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	42	1/2	183	1/2	343	1/2	478	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	44	3/4	186	3/4	347	3/4	480	3/4		3/4		3/4		3/4		3/4		3/4	
7	46	7	189	7	350	7	482	7		7		7		7		7		7	
1/4	49	1/4	192	1/4	353	1/4	484	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	51	1/2	196	1/2	356	1/2	486	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	54	3/4	199	3/4	360	3/4	488	3/4		3/4		3/4		3/4		3/4		3/4	
8	56	8	202	8	363	8	489	8		8		8		8		8		8	
1/4	59	1/4	206	1/4	366	1/4	491	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	62	1/2	209	1/2	369	1/2	493	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	64	3/4	213	3/4	372	3/4	494	3/4		3/4		3/4		3/4		3/4		3/4	
9	67	9	216	9	375	9	496	9		9		9		9		9		9	
1/4	69	1/4	219	1/4	379	1/4	497	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	72	1/2	223	1/2	382	1/2	499	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	75	3/4	226	3/4	385	3/4	500	3/4		3/4		3/4		3/4		3/4		3/4	
10	78	10	229	10	388	10	502	10		10		10		10		10		10	
1/4	80	1/4	233	1/4	391	1/4	502	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	83	1/2	236	1/2	394	1/2	502	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	86	3/4	240	3/4	397	3/4	502	3/4		3/4		3/4		3/4		3/4		3/4	
11	89	11	243	11	400	11	502	11		11		11		11		11		11	
1/4	92	1/4	246	1/4	403	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	95	1/2	250	1/2	406	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	98	3/4	253	3/4	409	3/4		3/4		3/4		3/4		3/4		3/4		3/4	

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 AT GAUGE POINT
CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN AT 2" DIAMETER STANDPIPE

STRAPPED: 07/10/2018 CL
CALCULATED: 07/11/2018 CL
PRINTED: 07/11/2018 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 07/2018

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



BARGE "E2MS 310"

SLOP TANK INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 5'-08 1/2"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	0	0	433	0	1,021	0	1,641	0	2,206	0		0		0		0		0	
1/4	5	1/4	444	1/4	1,034	1/4	1,653	1/4	2,216	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	11	1/2	456	1/2	1,047	1/2	1,666	1/2	2,227	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	16	3/4	467	3/4	1,060	3/4	1,678	3/4	2,237	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	21	1	479	1	1,073	1	1,691	1	2,247	1		1		1		1		1	
1/4	28	1/4	490	1/4	1,086	1/4	1,703	1/4	2,257	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	35	1/2	502	1/2	1,099	1/2	1,716	1/2	2,267	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	41	3/4	513	3/4	1,111	3/4	1,729	3/4	2,277	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	48	2	525	2	1,124	2	1,741	2	2,287	2		2		2		2		2	
1/4	56	1/4	537	1/4	1,137	1/4	1,753	1/4	2,297	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	63	1/2	549	1/2	1,150	1/2	1,766	1/2	2,306	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	71	3/4	560	3/4	1,163	3/4	1,778	3/4	2,316	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	78	3	572	3	1,176	3	1,791	3	2,326	3		3		3		3		3	
1/4	86	1/4	584	1/4	1,189	1/4	1,803	1/4	2,335	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	95	1/2	596	1/2	1,202	1/2	1,815	1/2	2,344	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	103	3/4	608	3/4	1,215	3/4	1,827	3/4	2,353	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	111	4	620	4	1,228	4	1,840	4	2,362	4		4		4		4		4	
1/4	120	1/4	632	1/4	1,241	1/4	1,852	1/4	2,371	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	128	1/2	644	1/2	1,254	1/2	1,864	1/2	2,380	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	137	3/4	656	3/4	1,267	3/4	1,876	3/4	2,389	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	146	5	669	5	1,280	5	1,888	5	2,397	5		5		5		5		5	
1/4	155	1/4	681	1/4	1,293	1/4	1,900	1/4	2,406	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	164	1/2	693	1/2	1,306	1/2	1,912	1/2	2,414	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	173	3/4	705	3/4	1,319	3/4	1,924	3/4	2,422	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	183	6	718	6	1,332	6	1,936	6	2,430	6		6		6		6		6	
1/4	192	1/4	730	1/4	1,345	1/4	1,948	1/4	2,438	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	202	1/2	742	1/2	1,358	1/2	1,960	1/2	2,445	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	211	3/4	755	3/4	1,371	3/4	1,971	3/4	2,453	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	221	7	767	7	1,384	7	1,983	7	2,460	7		7		7		7		7	
1/4	231	1/4	780	1/4	1,397	1/4	1,995	1/4	2,467	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	241	1/2	792	1/2	1,410	1/2	2,006	1/2	2,473	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	251	3/4	805	3/4	1,423	3/4	2,018	3/4	2,480	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	261	8	817	8	1,436	8	2,030	8	2,487	8		8		8		8		8	
1/4	271	1/4	830	1/4	1,449	1/4	2,041	1/4	2,492	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	282	1/2	843	1/2	1,461	1/2	2,052	1/2	2,498	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	292	3/4	855	3/4	1,474	3/4	2,064	3/4	2,503	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	302	9	868	9	1,487	9	2,075	9	2,508	9		9		9		9		9	
1/4	313	1/4	880	1/4	1,500	1/4	2,086	1/4		1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	324	1/2	893	1/2	1,513	1/2	2,098	1/2		1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	334	3/4	906	3/4	1,526	3/4	2,109	3/4		3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	345	10	919	10	1,539	10	2,120	10		10		10		10		10		10	
1/4	356	1/4	931	1/4	1,551	1/4	2,131	1/4		1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	367	1/2	944	1/2	1,564	1/2	2,142	1/2		1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	378	3/4	957	3/4	1,577	3/4	2,153	3/4		3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	388	11	970	11	1,590	11	2,163	11		11		11		11		11		11	
1/4	400	1/4	983	1/4	1,602	1/4	2,174	1/4		1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	411	1/2	995	1/2	1,615	1/2	2,185	1/2		1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	422	3/4	1,008	3/4	1,628	3/4	2,195	3/4		3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4

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