



BARGE: E2MS 105

INNAGE TRIM TABLE

	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 CENTER	00-1/4	-00-1/4	00-1/2	-00-1/2	00-3/4	-00-3/4	01-0/8	-01-0/8	01-1/4	-01-1/4	01-1/2	-01-1/2
2 CENTER	-00-0/8	00-0/8	-00-1/8	00-1/8	-00-1/8	00-1/8	-00-1/4	00-1/4	-00-1/4	00-1/4	-00-1/4	00-1/4
3 CENTER	00-1/4	-00-1/4	00-3/8	-00-3/8	00-5/8	-00-5/8	00-3/4	-00-3/4	01-0/8	-01-0/8	01-1/8	-01-1/8

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

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

LENGTH BETWEEN DRAFT MARKS: 163'-09"

July 16, 2019

THE CORRECTION FOR 2'-00" TRIM DOWN BY STERN FOR 1 CENTER IS -00-1/2"
 FOR A MEASURED INNAGE GAUGE OF 4'-00" ON 1 CENTER, THE TRIM CORRECTED INNAGE IS 3'-11 1/2"



BARGE "E2MS 105"

1 CENTER INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-07 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	4.07	0	221.13	0	469.50	0	714.46	0	959.14	0	1,206.75	0	1,454.36	0	1,701.86	0	1,948.86	0	2,196.54
1/4	4.93	1/4	226.31	1/4	474.67	1/4	719.46	1/4	964.30	1/4	1,211.91	1/4	1,459.52	1/4	1,707.00	1/4	1,954.02	1/4	2,201.70
1/2	5.79	1/2	231.48	1/2	479.84	1/2	724.47	1/2	969.46	1/2	1,217.07	1/2	1,464.68	1/2	1,712.15	1/2	1,959.18	1/2	2,206.86
3/4	6.65	3/4	236.66	3/4	485.02	3/4	729.47	3/4	974.62	3/4	1,222.23	3/4	1,469.84	3/4	1,717.29	3/4	1,964.34	3/4	2,212.02
1	7.52	1	241.83	1	490.19	1	734.47	1	979.78	1	1,227.39	1	1,474.99	1	1,722.43	1	1,969.50	1	2,217.18
1 1/4	10.10	1 1/4	247.01	1 1/4	495.37	1 1/4	739.47	1 1/4	984.94	1 1/4	1,232.55	1 1/4	1,480.15	1 1/4	1,727.58	1 1/4	1,974.66	1 1/4	2,222.34
1 1/2	12.69	1 1/2	252.18	1 1/2	500.54	1 1/2	744.48	1 1/2	990.10	1 1/2	1,237.70	1 1/2	1,485.31	1 1/2	1,732.72	1 1/2	1,979.82	1 1/2	2,227.50
1 3/4	15.28	1 3/4	257.35	1 3/4	505.72	1 3/4	749.48	1 3/4	995.25	1 3/4	1,242.86	1 3/4	1,490.47	1 3/4	1,737.86	1 3/4	1,984.98	1 3/4	2,232.66
2	17.86	2	262.53	2	510.89	2	754.48	2	1,000.41	2	1,248.02	2	1,495.63	2	1,743.01	2	1,990.14	2	2,237.82
2 1/4	22.17	2 1/4	267.70	2 1/4	516.06	2 1/4	759.48	2 1/4	1,005.57	2 1/4	1,253.18	2 1/4	1,500.78	2 1/4	1,748.15	2 1/4	1,995.30	2 1/4	2,242.98
2 1/2	26.48	2 1/2	272.88	2 1/2	521.24	2 1/2	764.49	2 1/2	1,010.73	2 1/2	1,258.34	2 1/2	1,505.94	2 1/2	1,753.29	2 1/2	2,000.46	2 1/2	2,248.14
2 3/4	30.79	2 3/4	278.05	2 3/4	526.41	2 3/4	769.49	2 3/4	1,015.89	2 3/4	1,263.50	2 3/4	1,511.09	2 3/4	1,758.43	2 3/4	2,005.62	2 3/4	2,253.30
3	35.10	3	283.23	3	531.59	3	774.49	3	1,021.05	3	1,268.65	3	1,516.25	3	1,763.58	3	2,010.78	3	2,258.45
3 1/4	40.23	3 1/4	288.40	3 1/4	536.76	3 1/4	779.52	3 1/4	1,026.21	3 1/4	1,273.81	3 1/4	1,521.40	3 1/4	1,768.72	3 1/4	2,015.94	3 1/4	2,263.61
3 1/2	45.36	3 1/2	293.57	3 1/2	541.94	3 1/2	784.54	3 1/2	1,031.36	3 1/2	1,278.97	3 1/2	1,526.56	3 1/2	1,773.86	3 1/2	2,021.10	3 1/2	2,268.77
3 3/4	50.49	3 3/4	298.75	3 3/4	547.11	3 3/4	789.57	3 3/4	1,036.52	3 3/4	1,284.13	3 3/4	1,531.71	3 3/4	1,779.01	3 3/4	2,026.26	3 3/4	2,273.93
4	55.62	4	303.92	4	552.28	4	794.59	4	1,041.68	4	1,289.29	4	1,536.87	4	1,784.15	4	2,031.42	4	2,279.09
4 1/4	60.78	4 1/4	309.10	4 1/4	557.46	4 1/4	799.62	4 1/4	1,046.84	4 1/4	1,294.45	4 1/4	1,542.02	4 1/4	1,789.29	4 1/4	2,036.58	4 1/4	2,284.25
4 1/2	65.94	4 1/2	314.27	4 1/2	562.63	4 1/2	804.65	4 1/2	1,052.00	4 1/2	1,299.61	4 1/2	1,547.18	4 1/2	1,794.44	4 1/2	2,041.74	4 1/2	2,289.41
4 3/4	71.10	4 3/4	319.44	4 3/4	567.81	4 3/4	809.88	4 3/4	1,057.16	4 3/4	1,304.76	4 3/4	1,552.33	4 3/4	1,799.58	4 3/4	2,046.90	4 3/4	2,294.57
5	76.26	5	324.62	5	572.98	5	814.71	5	1,062.31	5	1,309.92	5	1,557.49	5	1,804.72	5	2,052.06	5	2,299.73
5 1/4	81.43	5 1/4	329.79	5 1/4	578.15	5 1/4	819.87	5 1/4	1,067.47	5 1/4	1,315.08	5 1/4	1,562.64	5 1/4	1,809.86	5 1/4	2,057.22	5 1/4	2,304.89
5 1/2	86.61	5 1/2	334.97	5 1/2	583.31	5 1/2	825.02	5 1/2	1,072.63	5 1/2	1,320.24	5 1/2	1,567.79	5 1/2	1,815.01	5 1/2	2,062.38	5 1/2	2,310.05
5 3/4	91.78	5 3/4	340.14	5 3/4	588.48	5 3/4	830.18	5 3/4	1,077.79	5 3/4	1,325.40	5 3/4	1,572.95	5 3/4	1,820.15	5 3/4	2,067.54	5 3/4	2,315.21
6	96.95	6	345.32	6	593.64	6	835.34	6	1,082.95	6	1,330.56	6	1,578.10	6	1,825.29	6	2,072.70	6	2,320.37
6 1/4	102.13	6 1/4	350.49	6 1/4	598.81	6 1/4	840.50	6 1/4	1,088.11	6 1/4	1,335.72	6 1/4	1,583.26	6 1/4	1,830.44	6 1/4	2,077.86	6 1/4	2,325.53
6 1/2	107.30	6 1/2	355.66	6 1/2	603.97	6 1/2	845.66	6 1/2	1,093.27	6 1/2	1,340.87	6 1/2	1,588.41	6 1/2	1,835.58	6 1/2	2,083.02	6 1/2	2,330.69
6 3/4	112.48	6 3/4	360.84	6 3/4	609.14	6 3/4	850.82	6 3/4	1,098.42	6 3/4	1,346.03	6 3/4	1,593.57	6 3/4	1,840.72	6 3/4	2,088.18	6 3/4	2,335.85
7	117.65	7	366.01	7	614.30	7	855.97	7	1,103.58	7	1,351.19	7	1,598.72	7	1,845.87	7	2,093.34	7	2,341.01
7 1/4	122.82	7 1/4	371.19	7 1/4	619.32	7 1/4	861.13	7 1/4	1,108.74	7 1/4	1,356.35	7 1/4	1,603.88	7 1/4	1,851.01	7 1/4	2,098.50	7 1/4	2,346.17
7 1/2	128.00	7 1/2	376.36	7 1/2	624.34	7 1/2	866.29	7 1/2	1,113.89	7 1/2	1,361.51	7 1/2	1,609.03	7 1/2	1,856.15	7 1/2	2,103.65	7 1/2	2,351.32
7 3/4	133.17	7 3/4	381.54	7 3/4	629.36	7 3/4	871.45	7 3/4	1,119.06	7 3/4	1,366.67	7 3/4	1,614.19	7 3/4	1,861.29	7 3/4	2,108.82	7 3/4	2,356.48
8	138.35	8	386.71	8	634.37	8	876.61	8	1,124.22	8	1,371.82	8	1,619.34	8	1,866.44	8	2,113.98	8	2,361.63
8 1/4	143.52	8 1/4	391.88	8 1/4	639.39	8 1/4	881.77	8 1/4	1,129.38	8 1/4	1,376.98	8 1/4	1,624.50	8 1/4	1,871.58	8 1/4	2,119.14	8 1/4	2,366.79
8 1/2	148.69	8 1/2	397.06	8 1/2	644.40	8 1/2	886.93	8 1/2	1,134.53	8 1/2	1,382.14	8 1/2	1,629.66	8 1/2	1,876.72	8 1/2	2,124.30	8 1/2	2,371.94
8 3/4	153.87	8 3/4	402.23	8 3/4	649.42	8 3/4	892.08	8 3/4	1,139.69	8 3/4	1,387.30	8 3/4	1,634.81	8 3/4	1,881.87	8 3/4	2,129.46	8 3/4	2,377.10
9	159.04	9	407.41	9	654.43	9	897.24	9	1,144.85	9	1,392.46	9	1,639.97	9	1,887.01	9	2,134.62	9	2,382.25
9 1/4	164.22	9 1/4	412.58	9 1/4	659.43	9 1/4	902.40	9 1/4	1,150.01	9 1/4	1,397.62	9 1/4	1,645.13	9 1/4	1,892.15	9 1/4	2,139.78	9 1/4	2,387.41
9 1/2	169.39	9 1/2	417.75	9 1/2	664.44	9 1/2	907.56	9 1/2	1,155.17	9 1/2	1,402.78	9 1/2	1,650.29	9 1/2	1,897.30	9 1/2	2,144.94	9 1/2	2,392.56
9 3/4	174.57	9 3/4	422.93	9 3/4	669.44	9 3/4	912.72	9 3/4	1,160.33	9 3/4	1,407.93	9 3/4	1,655.44	9 3/4	1,902.44	9 3/4	2,150.10	9 3/4	2,397.72
10	179.74	10	428.10	10	674.44	10	917.88	10	1,165.48	10	1,413.09	10	1,660.60	10	1,907.58	10	2,155.26	10	2,402.87
10 1/4	184.91	10 1/4	433.28	10 1/4	679.44	10 1/4	923.04	10 1/4	1,170.64	10 1/4	1,418.25	10 1/4	1,665.76	10 1/4	1,912.74	10 1/4	2,160.42	10 1/4	2,408.02
10 1/2	190.09	10 1/2	438.45	10 1/2	684.45	10 1/2	928.19	10 1/2	1,175.80	10 1/2	1,423.41	10 1/2	1,670.92	10 1/2	1,917.90	10 1/2	2,165.58	10 1/2	2,413.18
10 3/4	195.26	10 3/4	443.63	10 3/4	689.45	10 3/4	933.35	10 3/4	1,180.96	10 3/4	1,428.57	10 3/4	1,676.07	10 3/4	1,923.06	10 3/4	2,170.74	10 3/4	2,418.33
11	200.44	11	448.80	11	694.45	11	938.51	11	1,186.12	11	1,433.73	11	1,681.23	11	1,928.22	11	2,175.90	11	2,423.49
11 1/4	205.61	11 1/4	453.97	11 1/4	699.45	11 1/4	943.67	11 1/4	1,191.28	11 1/4	1,438.89	11 1/4	1,686.39	11 1/4	1,933.38	11 1/4	2,181.05	11 1/4	2,428.64
11 1/2	210.79	11 1/2	459.15	11 1/2	704.46	11 1/2	948.83	11 1/2	1,196.44	11 1/2	1,444.04	11 1/2	1,691.55	11 1/2	1,938.54	11 1/2	2,186.22	11 1/2	2,433.80
11 3/4	215.96	11 3/4	464.32	11 3/4	709.46	11 3/4	953.99	11 3/4	1,201.59	11 3/4	1,449.20	11 3/4	1,696.70	11 3/4	1,943.70	11 3/4	2,191.38	11 3/4	2,438.95

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 OF 2" HERMETIC VALVE.
GAUGE POINT: (HERMETIC) LOCATED ON CENTERLINE AND 23'-06" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
& ANALYSIS, INC.
P.O. Box 2632
Pearland, Texas 77668
<http://www.pmacorp.net>



BARGE "E2MS 105"

1 CENTER INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-07 1/2"

	10 FT.	11 FT.	12 FT.	13 FT.	14 FT.	15 FT.	16 FT.	17 FT.	18 FT.	19 FT.
0	2,444.11	0	2,672.79	0	2,884.08	0	3,095.38	0	3,306.67	0
1/4	2,449.26	1/4	2,677.20	1/4	2,888.49	1/4	3,099.78	1/4	3,311.07	1/4
1/2	2,454.42	1/2	2,681.60	1/2	2,892.89	1/2	3,104.18	1/2	3,315.47	1/2
3/4	2,459.57	3/4	2,686.00	3/4	2,897.29	3/4	3,108.58	3/4	3,319.87	3/4
1	2,464.73	1	2,690.40	1	2,901.69	1	3,112.98	1	3,324.27	1
1 1/4	2,469.88	1 1/4	2,694.80	1 1/4	2,906.09	1 1/4	3,117.38	1 1/4	3,328.68	1 1/4
1 1/2	2,475.04	1 1/2	2,699.21	1 1/2	2,910.50	1 1/2	3,121.79	1 1/2	3,333.08	1 1/2
3/4	2,480.19	3/4	2,703.61	3/4	2,914.90	3/4	3,126.19	3/4	3,337.48	3/4
2	2,485.34	2	2,708.01	2	2,919.30	2	3,130.59	2	3,341.88	2
1 1/4	2,490.50	1 1/4	2,712.41	1 1/4	2,923.70	1 1/4	3,134.99	1 1/4	3,346.29	1 1/4
1 1/2	2,495.65	1 1/2	2,716.81	1 1/2	2,928.10	1 1/2	3,139.40	1 1/2	3,350.69	1 1/2
3/4	2,500.81	3/4	2,721.21	3/4	2,932.51	3/4	3,143.80	3/4	3,355.10	3/4
3	2,505.96	3	2,725.62	3	2,936.91	3	3,148.20	3	3,359.51	3
1 1/4	2,511.12	1 1/4	2,730.02	1 1/4	2,941.31	1 1/4	3,152.60	1 1/4	3,363.90	1 1/4
1 1/2	2,516.27	1 1/2	2,734.42	1 1/2	2,945.71	1 1/2	3,157.00	1 1/2	3,368.29	1 1/2
3/4	2,521.43	3/4	2,738.82	3/4	2,950.11	3/4	3,161.40	3/4	3,372.67	3/4
4	2,526.58	4	2,743.22	4	2,954.52	4	3,165.81	4	3,377.08	4
1 1/4	2,531.72	1 1/4	2,747.63	1 1/4	2,958.92	1 1/4	3,170.21	1 1/4	3,381.48	1 1/4
1 1/2	2,536.86	1 1/2	2,752.03	1 1/2	2,963.32	1 1/2	3,174.61	1 1/2	3,385.78	1 1/2
3/4	2,542.00	3/4	2,756.43	3/4	2,967.72	3/4	3,179.01	3/4	3,390.14	3/4
5	2,547.14	5	2,760.83	5	2,972.12	5	3,183.41	5	3,394.49	5
1 1/4	2,552.28	1 1/4	2,765.23	1 1/4	2,976.52	1 1/4	3,187.82	1 1/4	3,398.80	1 1/4
1 1/2	2,557.42	1 1/2	2,769.64	1 1/2	2,980.93	1 1/2	3,192.22	1 1/2	3,403.11	1 1/2
3/4	2,562.56	3/4	2,774.04	3/4	2,985.33	3/4	3,196.62	3/4	3,407.42	3/4
6	2,567.70	6	2,778.44	6	2,989.73	6	3,201.02	6	3,411.73	6
1 1/4	2,572.84	1 1/4	2,782.84	1 1/4	2,994.13	1 1/4	3,205.42	1 1/4	3,416.02	1 1/4
1 1/2	2,577.98	1 1/2	2,787.24	1 1/2	2,998.53	1 1/2	3,209.83	1 1/2	3,420.32	1 1/2
3/4	2,583.12	3/4	2,791.65	3/4	3,002.94	3/4	3,214.23	3/4	3,424.63	3/4
7	2,588.26	7	2,796.05	7	3,007.34	7	3,218.63	7	3,428.94	7
1 1/4	2,593.40	1 1/4	2,800.45	1 1/4	3,011.74	1 1/4	3,223.03	1 1/4	3,433.24	1 1/4
1 1/2	2,598.54	1 1/2	2,804.85	1 1/2	3,016.14	1 1/2	3,227.43	1 1/2	3,437.54	1 1/2
3/4	2,603.68	3/4	2,809.25	3/4	3,020.54	3/4	3,231.83	3/4	3,441.84	3/4
8	2,608.82	8	2,813.65	8	3,024.95	8	3,236.24	8	3,446.14	8
1 1/4	2,613.96	1 1/4	2,818.06	1 1/4	3,029.35	1 1/4	3,240.64	1 1/4	3,450.44	1 1/4
1 1/2	2,619.10	1 1/2	2,822.46	1 1/2	3,033.75	1 1/2	3,245.04	1 1/2	3,454.74	1 1/2
3/4	2,624.24	3/4	2,826.86	3/4	3,038.15	3/4	3,249.44	3/4	3,459.04	3/4
9	2,629.38	9	2,831.26	9	3,042.55	9	3,253.84	9	3,463.34	9
1 1/4	2,634.52	1 1/4	2,835.66	1 1/4	3,046.96	1 1/4	3,258.25	1 1/4	3,467.64	1 1/4
1 1/2	2,639.66	1 1/2	2,840.07	1 1/2	3,051.36	1 1/2	3,262.65	1 1/2	3,471.94	1 1/2
3/4	2,644.80	3/4	2,844.47	3/4	3,055.76	3/4	3,267.05	3/4	3,476.24	3/4
10	2,649.94	10	2,848.87	10	3,060.16	10	3,271.45	10	3,480.54	10
1 1/4	2,655.08	1 1/4	2,853.27	1 1/4	3,064.56	1 1/4	3,275.85	1 1/4	3,484.84	1 1/4
1 1/2	2,660.22	1 1/2	2,857.67	1 1/2	3,068.96	1 1/2	3,280.26	1 1/2	3,489.14	1 1/2
3/4	2,665.36	3/4	2,862.08	3/4	3,073.37	3/4	3,284.66	3/4	3,493.44	3/4
11	2,670.50	11	2,866.48	11	3,077.77	11	3,289.06	11	3,497.74	11
1 1/4	2,675.64	1 1/4	2,870.88	1 1/4	3,082.17	1 1/4	3,293.46	1 1/4	3,502.04	1 1/4
1 1/2	2,680.78	1 1/2	2,875.28	1 1/2	3,086.57	1 1/2	3,297.86	1 1/2	3,506.34	1 1/2
3/4	2,685.92	3/4	2,879.68	3/4	3,090.97	3/4	3,302.27	3/4	3,510.64	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 7/17/2019 JS
CALCULATED: 07/18/2019 CL
PRINTED: 07/18/2019 JS

CANCELS AND SUPERCEDES
ALL PRIOR TO 07/20/19

PRECISION MEASUREMENT
& ANALYSIS, INC.
P.O. Box 2032
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BARGE "E2MS 105"

2 CENTER INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08 1/2"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
0	0.73	0	240.37	0	514.57	0	785.35	0	1,056.14	0	1,330.35	0	1,604.56	0	1,878.77	0	2,152.98	0	2,427.19
1/4	1.68	1/4	246.09	1/4	520.29	1/4	790.90	1/4	1,061.86	1/4	1,336.07	1/4	1,610.28	1/4	1,884.49	1/4	2,158.69	1/4	2,432.90
1/2	2.63	1/2	251.80	1/2	526.00	1/2	796.44	1/2	1,067.57	1/2	1,341.78	1/2	1,615.99	1/2	1,890.20	1/2	2,164.41	1/2	2,438.62
3/4	3.58	3/4	257.51	3/4	531.71	3/4	801.98	3/4	1,073.28	3/4	1,347.49	3/4	1,621.70	3/4	1,895.91	3/4	2,170.12	3/4	2,444.33
1	4.53	1	263.22	1	537.42	1	807.52	1	1,078.99	1	1,353.20	1	1,627.41	1	1,901.62	1	2,175.83	1	2,450.04
1 1/4	7.39	1 1/4	268.94	1 1/4	543.14	1 1/4	813.06	1 1/4	1,084.71	1 1/4	1,358.92	1 1/4	1,633.13	1 1/4	1,907.34	1 1/4	2,181.55	1 1/4	2,455.76
1 1/2	10.24	1 1/2	274.65	1 1/2	548.85	1 1/2	818.60	1 1/2	1,090.42	1 1/2	1,364.63	1 1/2	1,638.84	1 1/2	1,913.05	1 1/2	2,187.26	1 1/2	2,461.47
1 3/4	13.10	1 3/4	280.36	1 3/4	554.56	1 3/4	824.14	1 3/4	1,096.13	1 3/4	1,370.34	1 3/4	1,644.55	1 3/4	1,918.76	1 3/4	2,192.97	1 3/4	2,467.18
2	15.96	2	286.07	2	560.27	2	829.68	2	1,101.85	2	1,376.06	2	1,650.26	2	1,924.47	2	2,198.68	2	2,472.89
2 1/4	20.71	2 1/4	291.79	2 1/4	565.99	2 1/4	835.22	2 1/4	1,107.56	2 1/4	1,381.77	2 1/4	1,655.98	2 1/4	1,930.19	2 1/4	2,204.40	2 1/4	2,478.61
2 1/2	25.47	2 1/2	297.50	2 1/2	571.70	2 1/2	840.78	2 1/2	1,113.27	2 1/2	1,387.48	2 1/2	1,661.69	2 1/2	1,935.90	2 1/2	2,210.11	2 1/2	2,484.32
2 3/4	30.23	2 3/4	303.21	2 3/4	577.41	2 3/4	846.30	2 3/4	1,118.98	2 3/4	1,393.19	2 3/4	1,667.40	2 3/4	1,941.61	2 3/4	2,215.82	2 3/4	2,490.03
3	34.99	3	308.92	3	583.12	3	851.84	3	1,124.70	3	1,398.91	3	1,673.12	3	1,947.33	3	2,221.53	3	2,495.74
3 1/4	40.65	3 1/4	314.64	3 1/4	588.84	3 1/4	857.38	3 1/4	1,130.41	3 1/4	1,404.62	3 1/4	1,678.83	3 1/4	1,953.04	3 1/4	2,227.25	3 1/4	2,501.46
3 1/2	46.31	3 1/2	320.35	3 1/2	594.55	3 1/2	862.92	3 1/2	1,136.12	3 1/2	1,410.33	3 1/2	1,684.54	3 1/2	1,958.75	3 1/2	2,232.96	3 1/2	2,507.17
3 3/4	51.97	3 3/4	326.06	3 3/4	600.26	3 3/4	868.47	3 3/4	1,141.83	3 3/4	1,416.04	3 3/4	1,690.25	3 3/4	1,964.46	3 3/4	2,238.67	3 3/4	2,512.88
4	57.64	4	331.77	4	605.97	4	874.01	4	1,147.55	4	1,421.76	4	1,695.97	4	1,970.18	4	2,244.39	4	2,518.60
4 1/4	63.34	4 1/4	337.49	4 1/4	611.69	4 1/4	879.55	4 1/4	1,153.26	4 1/4	1,427.47	4 1/4	1,701.68	4 1/4	1,975.89	4 1/4	2,250.10	4 1/4	2,524.31
4 1/2	69.03	4 1/2	343.20	4 1/2	617.40	4 1/2	885.10	4 1/2	1,158.97	4 1/2	1,433.18	4 1/2	1,707.39	4 1/2	1,981.60	4 1/2	2,255.81	4 1/2	2,530.02
4 3/4	74.73	4 3/4	348.91	4 3/4	623.11	4 3/4	890.64	4 3/4	1,164.69	4 3/4	1,438.89	4 3/4	1,713.10	4 3/4	1,987.31	4 3/4	2,261.52	4 3/4	2,535.73
5	80.43	5	354.62	5	628.82	5	896.19	5	1,170.40	5	1,444.61	5	1,718.62	5	1,993.03	5	2,267.24	5	2,541.45
5 1/4	86.14	5 1/4	360.34	5 1/4	634.54	5 1/4	901.90	5 1/4	1,176.11	5 1/4	1,450.32	5 1/4	1,724.53	5 1/4	1,998.74	5 1/4	2,272.95	5 1/4	2,547.16
5 1/2	91.85	5 1/2	366.05	5 1/2	640.25	5 1/2	907.61	5 1/2	1,181.82	5 1/2	1,456.03	5 1/2	1,730.24	5 1/2	2,004.45	5 1/2	2,278.66	5 1/2	2,552.87
5 3/4	97.56	5 3/4	371.76	5 3/4	645.96	5 3/4	913.33	5 3/4	1,187.54	5 3/4	1,461.75	5 3/4	1,735.95	5 3/4	2,010.16	5 3/4	2,284.37	5 3/4	2,558.58
6	103.27	6	377.47	6	651.67	6	919.04	6	1,193.25	6	1,467.46	6	1,741.67	6	2,015.88	6	2,290.09	6	2,564.30
6 1/4	108.99	6 1/4	383.19	6 1/4	657.39	6 1/4	924.75	6 1/4	1,198.96	6 1/4	1,473.17	6 1/4	1,747.38	6 1/4	2,021.59	6 1/4	2,295.80	6 1/4	2,570.01
6 1/2	114.70	6 1/2	388.90	6 1/2	663.10	6 1/2	930.46	6 1/2	1,204.67	6 1/2	1,478.88	6 1/2	1,753.09	6 1/2	2,027.30	6 1/2	2,301.51	6 1/2	2,575.72
6 3/4	120.41	6 3/4	394.61	6 3/4	668.81	6 3/4	936.18	6 3/4	1,210.39	6 3/4	1,484.60	6 3/4	1,758.81	6 3/4	2,033.02	6 3/4	2,307.23	6 3/4	2,581.43
7	126.12	7	400.32	7	674.52	7	941.89	7	1,216.10	7	1,490.31	7	1,764.52	7	2,038.73	7	2,312.94	7	2,587.15
7 1/4	131.84	7 1/4	406.04	7 1/4	680.07	7 1/4	947.60	7 1/4	1,221.81	7 1/4	1,496.02	7 1/4	1,770.23	7 1/4	2,044.44	7 1/4	2,318.65	7 1/4	2,592.86
7 1/2	137.55	7 1/2	411.75	7 1/2	685.61	7 1/2	953.32	7 1/2	1,227.52	7 1/2	1,501.73	7 1/2	1,775.94	7 1/2	2,050.15	7 1/2	2,324.36	7 1/2	2,598.57
7 3/4	143.26	7 3/4	417.46	7 3/4	691.15	7 3/4	959.03	7 3/4	1,233.24	7 3/4	1,507.45	7 3/4	1,781.66	7 3/4	2,055.87	7 3/4	2,330.08	7 3/4	2,604.29
8	148.97	8	423.17	8	696.70	8	964.74	8	1,238.95	8	1,513.16	8	1,787.37	8	2,061.58	8	2,335.79	8	2,610.00
8 1/4	154.69	8 1/4	428.89	8 1/4	702.24	8 1/4	970.45	8 1/4	1,244.66	8 1/4	1,518.87	8 1/4	1,793.08	8 1/4	2,067.29	8 1/4	2,341.50	8 1/4	2,615.71
8 1/2	160.40	8 1/2	434.60	8 1/2	707.79	8 1/2	976.17	8 1/2	1,250.38	8 1/2	1,524.59	8 1/2	1,798.79	8 1/2	2,073.00	8 1/2	2,347.21	8 1/2	2,621.42
8 3/4	166.11	8 3/4	440.31	8 3/4	713.33	8 3/4	981.88	8 3/4	1,256.09	8 3/4	1,530.30	8 3/4	1,804.51	8 3/4	2,078.72	8 3/4	2,352.93	8 3/4	2,627.14
9	171.82	9	446.02	9	718.87	9	987.59	9	1,261.80	9	1,536.01	9	1,810.22	9	2,084.43	9	2,358.64	9	2,632.85
9 1/4	177.54	9 1/4	451.74	9 1/4	724.41	9 1/4	993.30	9 1/4	1,267.51	9 1/4	1,541.72	9 1/4	1,815.93	9 1/4	2,090.14	9 1/4	2,364.35	9 1/4	2,638.56
9 1/2	183.25	9 1/2	457.45	9 1/2	729.95	9 1/2	999.02	9 1/2	1,273.23	9 1/2	1,547.44	9 1/2	1,821.65	9 1/2	2,095.86	9 1/2	2,370.06	9 1/2	2,644.27
9 3/4	188.96	9 3/4	463.16	9 3/4	735.49	9 3/4	1,004.73	9 3/4	1,278.94	9 3/4	1,553.15	9 3/4	1,827.36	9 3/4	2,101.57	9 3/4	2,375.78	9 3/4	2,649.99
10	194.67	10	468.87	10	741.03	10	1,010.44	10	1,284.65	10	1,558.86	10	1,833.07	10	2,107.29	10	2,381.49	10	2,655.70
10 1/4	200.39	10 1/4	474.59	10 1/4	746.57	10 1/4	1,016.15	10 1/4	1,290.36	10 1/4	1,564.57	10 1/4	1,838.78	10 1/4	2,112.99	10 1/4	2,387.20	10 1/4	2,661.41
10 1/2	206.10	10 1/2	480.30	10 1/2	752.11	10 1/2	1,021.87	10 1/2	1,296.08	10 1/2	1,570.29	10 1/2	1,844.50	10 1/2	2,118.71	10 1/2	2,392.92	10 1/2	2,667.13
10 3/4	211.81	10 3/4	486.01	10 3/4	757.65	10 3/4	1,027.58	10 3/4	1,301.79	10 3/4	1,576.00	10 3/4	1,850.21	10 3/4	2,124.42	10 3/4	2,398.63	10 3/4	2,672.84
11	217.52	11	491.72	11	763.19	11	1,033.29	11	1,307.50	11	1,581.71	11	1,855.92	11	2,130.13	11	2,404.34	11	2,678.56
11 1/4	223.24	11 1/4	497.44	11 1/4	768.73	11 1/4	1,039.01	11 1/4	1,313.22	11 1/4	1,587.42	11 1/4	1,861.63	11 1/4	2,135.84	11 1/4	2,410.05	11 1/4	2,684.28
11 1/2	228.95	11 1/2	503.15	11 1/2	774.27	11 1/2	1,044.72	11 1/2	1,318.93	11 1/2	1,593.14	11 1/2	1,867.35	11 1/2	2,141.56	11 1/2	2,415.77	11 1/2	2,689.99
11 3/4	234.66	11 3/4	508.86	11 3/4	779.81	11 3/4	1,050.43	11 3/4	1,324.64	11 3/4	1,598.85	11 3/4	1,873.06	11 3/4	2,147.27	11 3/4	2,421.48	11 3/4	2,695.69

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 OF 2" HERMETIC VALVE.
GAUGE POINT: (HERMETIC) LOCATED ON CENTERLINE AND 30'-00" FORWARD OF AFT BULKHEAD.

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



BARGE "E2MS 105"

2 CENTER
INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08 1/2"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,701.40	0	2,975.61	0	3,249.82	0	3,524.03	0	3,798.24	0		0		0		0		0	
1/4	2,707.11	1/4	2,981.32	1/4	3,255.53	1/4	3,529.74	1/4	3,803.95	1/4		1/4		1/4		1/4		1/4	
1/2	2,712.83	1/2	2,987.04	1/2	3,261.25	1/2	3,535.45	1/2	3,809.67	1/2		1/2		1/2		1/2		1/2	
3/4	2,718.54	3/4	2,992.75	3/4	3,266.96	3/4	3,541.17	3/4	3,815.38	3/4		3/4		3/4		3/4		3/4	
1	2,724.25	1	2,998.46	1	3,272.67	1	3,546.88	1	3,821.09	1		1		1		1		1	
1 1/4	2,729.96	1 1/4	3,004.17	1 1/4	3,278.38	1 1/4	3,552.59	1 1/4	3,826.80	1 1/4		1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	2,735.68	1 1/2	3,009.89	1 1/2	3,284.10	1 1/2	3,558.31	1 1/2	3,832.52	1 1/2		1 1/2		1 1/2		1 1/2		1 1/2	
1 3/4	2,741.39	1 3/4	3,015.60	1 3/4	3,289.81	1 3/4	3,564.02	1 3/4	3,838.23	1 3/4		1 3/4		1 3/4		1 3/4		1 3/4	
2	2,747.10	2	3,021.31	2	3,295.52	2	3,569.73	2	3,843.94	2		2		2		2		2	
1 1/4	2,752.82	1 1/4	3,027.03	1 1/4	3,301.23	1 1/4	3,575.44	1 1/4	3,849.65	1 1/4		1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	2,758.53	1 1/2	3,032.74	1 1/2	3,306.95	1 1/2	3,581.16	1 1/2	3,855.36	1 1/2		1 1/2		1 1/2		1 1/2		1 1/2	
1 3/4	2,764.24	1 3/4	3,038.45	1 3/4	3,312.66	1 3/4	3,586.87	1 3/4	3,861.07	1 3/4		1 3/4		1 3/4		1 3/4		1 3/4	
3	2,769.95	3	3,044.16	3	3,318.37	3	3,592.58	3	3,866.78	3		3		3		3		3	
1 1/4	2,775.67	1 1/4	3,049.88	1 1/4	3,324.09	1 1/4	3,598.30	1 1/4	3,872.48	1 1/4		1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	2,781.38	1 1/2	3,055.59	1 1/2	3,329.80	1 1/2	3,604.01	1 1/2	3,878.18	1 1/2		1 1/2		1 1/2		1 1/2		1 1/2	
1 3/4	2,787.09	1 3/4	3,061.30	1 3/4	3,335.51	1 3/4	3,609.72	1 3/4	3,883.88	1 3/4		1 3/4		1 3/4		1 3/4		1 3/4	
4	2,792.80	4	3,067.01	4	3,341.22	4	3,615.43	4	3,889.58	4		4		4		4		4	
1 1/4	2,798.52	1 1/4	3,072.73	1 1/4	3,346.94	1 1/4	3,621.15	1 1/4	3,895.24	1 1/4		1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	2,804.23	1 1/2	3,078.44	1 1/2	3,352.65	1 1/2	3,626.86	1 1/2	3,900.90	1 1/2		1 1/2		1 1/2		1 1/2		1 1/2	
1 3/4	2,809.94	1 3/4	3,084.15	1 3/4	3,358.36	1 3/4	3,632.57	1 3/4	3,906.57	1 3/4		1 3/4		1 3/4		1 3/4		1 3/4	
5	2,815.65	5	3,089.87	5	3,364.07	5	3,638.28	5	3,912.23	5		5		5		5		5	
1 1/4	2,821.37	1 1/4	3,095.58	1 1/4	3,369.79	1 1/4	3,644.00	1 1/4	3,917.95	1 1/4		1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	2,827.08	1 1/2	3,101.29	1 1/2	3,375.50	1 1/2	3,649.71	1 1/2	3,923.71	1 1/2		1 1/2		1 1/2		1 1/2		1 1/2	
1 3/4	2,832.79	1 3/4	3,107.00	1 3/4	3,381.21	1 3/4	3,655.42	1 3/4	3,929.50	1 3/4		1 3/4		1 3/4		1 3/4		1 3/4	
6	2,838.51	6	3,112.72	6	3,386.93	6	3,661.14	6	3,935.26	6		6		6		6		6	
1 1/4	2,844.22	1 1/4	3,118.43	1 1/4	3,392.64	1 1/4	3,666.85	1 1/4	3,941.12	1 1/4		1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	2,849.93	1 1/2	3,124.14	1 1/2	3,398.35	1 1/2	3,672.56	1 1/2	3,946.97	1 1/2		1 1/2		1 1/2		1 1/2		1 1/2	
1 3/4	2,855.64	1 3/4	3,129.85	1 3/4	3,404.06	1 3/4	3,678.27	1 3/4	3,952.83	1 3/4		1 3/4		1 3/4		1 3/4		1 3/4	
7	2,861.36	7	3,135.57	7	3,409.78	7	3,683.99	7	3,958.68	7		7		7		7		7	
1 1/4	2,867.07	1 1/4	3,141.28	1 1/4	3,415.49	1 1/4	3,689.70	1 1/4	3,964.53	1 1/4		1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	2,872.78	1 1/2	3,146.99	1 1/2	3,421.20	1 1/2	3,695.41	1 1/2	3,970.39	1 1/2		1 1/2		1 1/2		1 1/2		1 1/2	
1 3/4	2,878.50	1 3/4	3,152.70	1 3/4	3,426.91	1 3/4	3,701.12	1 3/4	3,976.24	1 3/4		1 3/4		1 3/4		1 3/4		1 3/4	
8	2,884.21	8	3,158.42	8	3,432.63	8	3,706.84	8	3,982.09	8		8		8		8		8	
1 1/4	2,889.92	1 1/4	3,164.13	1 1/4	3,438.34	1 1/4	3,712.55	1 1/4	3,987.94	1 1/4		1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	2,895.63	1 1/2	3,169.84	1 1/2	3,444.05	1 1/2	3,718.26	1 1/2	3,993.79	1 1/2		1 1/2		1 1/2		1 1/2		1 1/2	
1 3/4	2,901.35	1 3/4	3,175.55	1 3/4	3,449.77	1 3/4	3,723.97	1 3/4	3,999.64	1 3/4		1 3/4		1 3/4		1 3/4		1 3/4	
9	2,907.06	9	3,181.27	9	3,455.48	9	3,729.69	9	4,005.49	9		9		9		9		9	
1 1/4	2,912.77	1 1/4	3,186.98	1 1/4	3,461.19	1 1/4	3,735.40	1 1/4	4,011.34	1 1/4		1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	2,918.48	1 1/2	3,192.69	1 1/2	3,466.90	1 1/2	3,741.11	1 1/2	4,017.19	1 1/2		1 1/2		1 1/2		1 1/2		1 1/2	
1 3/4	2,924.20	1 3/4	3,198.41	1 3/4	3,472.62	1 3/4	3,746.83	1 3/4	4,023.04	1 3/4		1 3/4		1 3/4		1 3/4		1 3/4	
10	2,929.91	10	3,204.12	10	3,478.33	10	3,752.54	10	4,028.89	10		10		10		10		10	
1 1/4	2,935.62	1 1/4	3,209.83	1 1/4	3,484.04	1 1/4	3,758.25	1 1/4	4,034.74	1 1/4		1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	2,941.33	1 1/2	3,215.54	1 1/2	3,489.75	1 1/2	3,763.96	1 1/2	4,040.59	1 1/2		1 1/2		1 1/2		1 1/2		1 1/2	
1 3/4	2,947.05	1 3/4	3,221.26	1 3/4	3,495.47	1 3/4	3,769.68	1 3/4	4,046.44	1 3/4		1 3/4		1 3/4		1 3/4		1 3/4	
11	2,952.76	11	3,226.97	11	3,501.18	11	3,775.39	11	4,052.29	11		11		11		11		11	
1 1/4	2,958.47	1 1/4	3,232.68	1 1/4	3,506.89	1 1/4	3,781.10	1 1/4	4,058.14	1 1/4		1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	2,964.19	1 1/2	3,238.40	1 1/2	3,512.60	1 1/2	3,786.81	1 1/2	4,063.99	1 1/2		1 1/2		1 1/2		1 1/2		1 1/2	
1 3/4	2,969.90	1 3/4	3,244.11	1 3/4	3,518.32	1 3/4	3,792.53	1 3/4	4,069.84	1 3/4		1 3/4		1 3/4		1 3/4		1 3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 7/17/2019 JS
CALCULATED: 07/18/2019 CL
PRINTED: 07/18/2019 JS

CANCELS AND SUPERCEDES
ALL PRIOR TO 07/2019

PRECISION MEASUREMENT
& ANALYSIS, INC.
P.O. Box 2092
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BARGE "E2MS 105"

3 CENTER INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-07 3/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	0.73	0	215.38	0	460.98	0	706.35	0	951.71	0	1,197.32	0	1,442.94	0	1,688.55	0	1,934.16	0	2,179.77
1/4	1.58	1/4	220.50	1/4	466.10	1/4	711.45	1/4	956.83	1/4	1,202.44	1/4	1,448.05	1/4	1,693.66	1/4	1,939.27	1/4	2,184.89
1/2	2.43	1/2	225.61	1/2	471.21	1/2	716.55	1/2	961.95	1/2	1,207.56	1/2	1,453.17	1/2	1,698.78	1/2	1,944.39	1/2	2,190.00
3/4	3.28	3/4	230.73	3/4	476.33	3/4	721.66	3/4	967.06	3/4	1,212.67	3/4	1,458.29	3/4	1,703.90	3/4	1,949.51	3/4	2,195.12
1	4.14	1	235.85	1	481.45	1	726.76	1	972.18	1	1,217.79	1	1,463.40	1	1,709.01	1	1,954.63	1	2,200.24
1 1/4	6.69	1 1/4	240.96	1 1/4	486.56	1 1/4	731.86	1 1/4	977.30	1 1/4	1,222.91	1 1/4	1,468.52	1 1/4	1,714.13	1 1/4	1,959.74	1 1/4	2,205.35
1 1/2	9.25	1 1/2	246.08	1 1/2	491.68	1 1/2	736.97	1 1/2	982.41	1 1/2	1,228.03	1 1/2	1,473.64	1 1/2	1,719.25	1 1/2	1,964.86	1 1/2	2,210.47
1 3/4	11.81	1 3/4	251.20	1 3/4	496.80	1 3/4	742.07	1 3/4	987.53	1 3/4	1,233.14	1 3/4	1,478.75	1 3/4	1,724.36	1 3/4	1,969.98	1 3/4	2,215.59
2	14.37	2	256.31	2	501.91	2	747.18	2	992.65	2	1,238.26	2	1,483.87	2	1,729.48	2	1,975.09	2	2,220.70
2 1/4	18.63	2 1/4	261.43	2 1/4	507.03	2 1/4	752.28	2 1/4	997.77	2 1/4	1,243.38	2 1/4	1,488.99	2 1/4	1,734.60	2 1/4	1,980.21	2 1/4	2,225.82
2 1/2	22.89	2 1/2	266.55	2 1/2	512.15	2 1/2	757.38	2 1/2	1,002.88	2 1/2	1,248.49	2 1/2	1,494.10	2 1/2	1,739.72	2 1/2	1,985.33	2 1/2	2,230.94
2 3/4	27.15	2 3/4	271.66	2 3/4	517.27	2 3/4	762.49	2 3/4	1,008.00	2 3/4	1,253.61	2 3/4	1,499.22	2 3/4	1,744.83	2 3/4	1,990.44	2 3/4	2,236.05
3	31.41	3	276.78	3	522.38	3	767.59	3	1,013.12	3	1,258.73	3	1,504.34	3	1,749.95	3	1,995.56	3	2,241.17
3 1/4	36.49	3 1/4	281.90	3 1/4	527.50	3 1/4	772.69	3 1/4	1,018.23	3 1/4	1,263.84	3 1/4	1,509.46	3 1/4	1,755.07	3 1/4	2,000.68	3 1/4	2,246.29
3 1/2	41.56	3 1/2	287.01	3 1/2	532.62	3 1/2	777.80	3 1/2	1,023.35	3 1/2	1,268.96	3 1/2	1,514.57	3 1/2	1,760.18	3 1/2	2,005.79	3 1/2	2,251.41
3 3/4	46.63	3 3/4	292.13	3 3/4	537.73	3 3/4	782.90	3 3/4	1,028.47	3 3/4	1,274.08	3 3/4	1,519.69	3 3/4	1,765.30	3 3/4	2,010.91	3 3/4	2,256.52
4	51.70	4	297.25	4	542.85	4	788.01	4	1,033.58	4	1,279.19	4	1,524.81	4	1,770.42	4	2,016.03	4	2,261.64
4 1/4	56.81	4 1/4	302.36	4 1/4	547.97	4 1/4	793.11	4 1/4	1,038.70	4 1/4	1,284.31	4 1/4	1,529.92	4 1/4	1,775.53	4 1/4	2,021.15	4 1/4	2,266.76
4 1/2	61.91	4 1/2	307.48	4 1/2	553.08	4 1/2	798.22	4 1/2	1,043.82	4 1/2	1,289.43	4 1/2	1,535.04	4 1/2	1,780.65	4 1/2	2,026.26	4 1/2	2,271.87
4 3/4	67.01	4 3/4	312.60	4 3/4	558.20	4 3/4	803.33	4 3/4	1,048.93	4 3/4	1,294.55	4 3/4	1,540.16	4 3/4	1,785.77	4 3/4	2,031.38	4 3/4	2,276.99
5	72.12	5	317.71	5	563.32	5	808.44	5	1,054.05	5	1,299.66	5	1,545.27	5	1,790.88	5	2,036.50	5	2,282.11
5 1/4	77.23	5 1/4	322.83	5 1/4	568.43	5 1/4	813.56	5 1/4	1,059.17	5 1/4	1,304.78	5 1/4	1,550.39	5 1/4	1,796.00	5 1/4	2,041.61	5 1/4	2,287.22
5 1/2	82.35	5 1/2	327.95	5 1/2	573.55	5 1/2	818.67	5 1/2	1,064.28	5 1/2	1,309.90	5 1/2	1,555.51	5 1/2	1,801.12	5 1/2	2,046.73	5 1/2	2,292.34
5 3/4	87.46	5 3/4	333.06	5 3/4	578.67	5 3/4	823.79	5 3/4	1,069.40	5 3/4	1,315.01	5 3/4	1,560.62	5 3/4	1,806.24	5 3/4	2,051.85	5 3/4	2,297.46
6	92.58	6	338.18	6	583.78	6	828.91	6	1,074.52	6	1,320.13	6	1,565.74	6	1,811.35	6	2,056.96	6	2,302.57
6 1/4	97.70	6 1/4	343.30	6 1/4	588.90	6 1/4	834.02	6 1/4	1,079.64	6 1/4	1,325.25	6 1/4	1,570.86	6 1/4	1,816.47	6 1/4	2,062.08	6 1/4	2,307.69
6 1/2	102.81	6 1/2	348.41	6 1/2	594.02	6 1/2	839.14	6 1/2	1,084.75	6 1/2	1,330.36	6 1/2	1,575.97	6 1/2	1,821.59	6 1/2	2,067.20	6 1/2	2,312.81
6 3/4	107.93	6 3/4	353.53	6 3/4	599.13	6 3/4	844.26	6 3/4	1,089.87	6 3/4	1,335.48	6 3/4	1,581.09	6 3/4	1,826.70	6 3/4	2,072.31	6 3/4	2,317.93
7	113.05	7	358.65	7	604.25	7	849.38	7	1,094.99	7	1,340.60	7	1,586.21	7	1,831.82	7	2,077.43	7	2,323.04
7 1/4	118.16	7 1/4	363.76	7 1/4	609.36	7 1/4	854.49	7 1/4	1,100.10	7 1/4	1,345.71	7 1/4	1,591.33	7 1/4	1,836.94	7 1/4	2,082.55	7 1/4	2,328.16
7 1/2	123.28	7 1/2	368.88	7 1/2	614.47	7 1/2	859.61	7 1/2	1,105.22	7 1/2	1,350.83	7 1/2	1,596.44	7 1/2	1,842.05	7 1/2	2,087.66	7 1/2	2,333.28
7 3/4	128.40	7 3/4	374.00	7 3/4	619.58	7 3/4	864.73	7 3/4	1,110.34	7 3/4	1,355.95	7 3/4	1,601.56	7 3/4	1,847.17	7 3/4	2,092.78	7 3/4	2,338.39
8	133.51	8	379.11	8	624.69	8	869.84	8	1,115.45	8	1,361.07	8	1,606.68	8	1,852.29	8	2,097.90	8	2,343.51
8 1/4	138.63	8 1/4	384.23	8 1/4	629.79	8 1/4	874.96	8 1/4	1,120.57	8 1/4	1,366.18	8 1/4	1,611.79	8 1/4	1,857.40	8 1/4	2,103.02	8 1/4	2,348.63
8 1/2	143.75	8 1/2	389.35	8 1/2	634.89	8 1/2	880.08	8 1/2	1,125.69	8 1/2	1,371.30	8 1/2	1,616.91	8 1/2	1,862.52	8 1/2	2,108.13	8 1/2	2,353.74
8 3/4	148.86	8 3/4	394.46	8 3/4	640.00	8 3/4	885.19	8 3/4	1,130.80	8 3/4	1,376.42	8 3/4	1,622.03	8 3/4	1,867.64	8 3/4	2,113.25	8 3/4	2,358.86
9	153.98	9	399.58	9	645.10	9	890.31	9	1,135.92	9	1,381.53	9	1,627.14	9	1,872.76	9	2,118.37	9	2,363.98
9 1/4	159.10	9 1/4	404.70	9 1/4	650.21	9 1/4	895.43	9 1/4	1,141.04	9 1/4	1,386.65	9 1/4	1,632.26	9 1/4	1,877.87	9 1/4	2,123.48	9 1/4	2,369.09
9 1/2	164.21	9 1/2	409.81	9 1/2	655.31	9 1/2	900.54	9 1/2	1,146.16	9 1/2	1,391.77	9 1/2	1,637.38	9 1/2	1,882.99	9 1/2	2,128.60	9 1/2	2,374.21
9 3/4	169.33	9 3/4	414.93	9 3/4	660.41	9 3/4	905.66	9 3/4	1,151.27	9 3/4	1,396.88	9 3/4	1,642.49	9 3/4	1,888.11	9 3/4	2,133.72	9 3/4	2,379.33
10	174.45	10	420.05	10	665.52	10	910.78	10	1,156.39	10	1,402.00	10	1,647.61	10	1,893.22	10	2,138.83	10	2,384.45
10 1/4	179.56	10 1/4	425.16	10 1/4	670.62	10 1/4	915.89	10 1/4	1,161.51	10 1/4	1,407.12	10 1/4	1,652.73	10 1/4	1,898.34	10 1/4	2,143.95	10 1/4	2,389.56
10 1/2	184.68	10 1/2	430.28	10 1/2	675.72	10 1/2	921.01	10 1/2	1,166.62	10 1/2	1,412.23	10 1/2	1,657.85	10 1/2	1,903.46	10 1/2	2,149.07	10 1/2	2,394.68
10 3/4	189.80	10 3/4	435.40	10 3/4	680.83	10 3/4	926.13	10 3/4	1,171.74	10 3/4	1,417.35	10 3/4	1,662.96	10 3/4	1,908.57	10 3/4	2,154.18	10 3/4	2,399.80
11	194.91	11	440.51	11	685.93	11	931.25	11	1,176.86	11	1,422.47	11	1,668.08	11	1,913.69	11	2,159.30	11	2,404.91
11 1/4	200.03	11 1/4	445.63	11 1/4	691.04	11 1/4	936.36	11 1/4	1,181.97	11 1/4	1,427.58	11 1/4	1,673.20	11 1/4	1,918.81	11 1/4	2,164.42	11 1/4	2,410.03
11 1/2	205.15	11 1/2	450.75	11 1/2	696.14	11 1/2	941.48	11 1/2	1,187.09	11 1/2	1,432.70	11 1/2	1,678.31	11 1/2	1,923.92	11 1/2	2,169.54	11 1/2	2,415.15
11 3/4	210.26	11 3/4	455.86	11 3/4	701.24	11 3/4	946.60	11 3/4	1,192.21	11 3/4	1,437.82	11 3/4	1,683.43	11 3/4	1,929.04	11 3/4	2,174.65	11 3/4	2,420.26

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 IMBAGE GAUGES TAKEN TO TOP OF 2" HERMETIC VALVE.
GAUGE POINT: (HERMETIC) LOCATED ON CENTERLINE AND 24'-00" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
& ANALYSIS, INC.
P.O. Box 2092
Pearland, Texas 77568
http://www.pma-corp.net



BARGE "E2MS 105"

3 CENTER
INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-07 3/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,425.38	0	2,670.99	0	2,916.60	0	3,162.21	0	3,407.82	0	0	0	0	0	0	0	0	0	0
1/4	2,430.60	1/4	2,676.11	1/4	2,921.72	1/4	3,167.33	1/4	3,412.94	1/4									
1/2	2,435.81	1/2	2,681.23	1/2	2,926.84	1/2	3,172.45	1/2	3,418.06	1/2									
3/4	2,440.73	3/4	2,686.34	3/4	2,931.95	3/4	3,177.56	3/4	3,423.18	3/4									
1	2,445.85	1	2,691.46	1	2,937.07	1	3,182.68	1	3,428.29	1									
1 1/4	2,450.96	1 1/4	2,696.58	1 1/4	2,942.19	1 1/4	3,187.80	1 1/4	3,433.41	1 1/4									
1 1/2	2,456.08	1 1/2	2,701.69	1 1/2	2,947.30	1 1/2	3,192.92	1 1/2	3,438.53	1 1/2									
1 3/4	2,461.20	1 3/4	2,706.81	1 3/4	2,952.42	1 3/4	3,198.03	1 3/4	3,443.64	1 3/4									
2	2,466.32	2	2,711.93	2	2,957.54	2	3,203.15	2	3,448.76	2									
2 1/4	2,471.43	2 1/4	2,717.04	2 1/4	2,962.65	2 1/4	3,208.27	2 1/4	3,453.88	2 1/4									
2 1/2	2,476.55	2 1/2	2,722.16	2 1/2	2,967.77	2 1/2	3,213.38	2 1/2	3,459.00	2 1/2									
2 3/4	2,481.67	2 3/4	2,727.28	2 3/4	2,972.89	2 3/4	3,218.50	2 3/4	3,464.13	2 3/4									
3	2,486.78	3	2,732.39	3	2,978.01	3	3,223.62	3	3,469.25	3									
3 1/4	2,491.90	3 1/4	2,737.51	3 1/4	2,983.12	3 1/4	3,228.73	3 1/4	3,474.35	3 1/4									
3 1/2	2,497.02	3 1/2	2,742.63	3 1/2	2,988.24	3 1/2	3,233.85	3 1/2	3,479.46	3 1/2									
3 3/4	2,502.13	3 3/4	2,747.74	3 3/4	2,993.36	3 3/4	3,238.97	3 3/4	3,484.56	3 3/4									
4	2,507.25	4	2,752.86	4	2,998.47	4	3,244.08	4	3,489.67	4									
4 1/4	2,512.37	4 1/4	2,757.98	4 1/4	3,003.59	4 1/4	3,249.20	4 1/4	3,494.74	4 1/4									
4 1/2	2,517.48	4 1/2	2,763.10	4 1/2	3,008.71	4 1/2	3,254.32	4 1/2	3,499.81	4 1/2									
4 3/4	2,522.60	4 3/4	2,768.21	4 3/4	3,013.82	4 3/4	3,259.43	4 3/4	3,504.88	4 3/4									
5	2,527.72	5	2,773.33	5	3,018.94	5	3,264.55	5	3,509.96	5									
5 1/4	2,532.84	5 1/4	2,778.45	5 1/4	3,024.06	5 1/4	3,269.67	5 1/4	3,514.22	5 1/4									
5 1/2	2,537.95	5 1/2	2,783.56	5 1/2	3,029.17	5 1/2	3,274.79	5 1/2	3,518.48	5 1/2									
5 3/4	2,543.07	5 3/4	2,788.68	5 3/4	3,034.29	5 3/4	3,279.90	5 3/4	3,522.74	5 3/4									
6	2,548.19	6	2,793.80	6	3,039.41	6	3,285.02	6	3,527.00	6									
6 1/4	2,553.30	6 1/4	2,798.91	6 1/4	3,044.53	6 1/4	3,290.14	6 1/4	3,529.66	6 1/4									
6 1/2	2,558.42	6 1/2	2,804.03	6 1/2	3,049.64	6 1/2	3,295.25	6 1/2	3,532.12	6 1/2									
6 3/4	2,563.54	6 3/4	2,809.15	6 3/4	3,054.76	6 3/4	3,300.37	6 3/4	3,534.68	6 3/4									
7	2,568.65	7	2,814.26	7	3,059.88	7	3,305.49	7	3,537.23	7									
7 1/4	2,573.77	7 1/4	2,819.38	7 1/4	3,064.99	7 1/4	3,310.60	7 1/4	3,538.88	7 1/4									
7 1/2	2,578.89	7 1/2	2,824.50	7 1/2	3,070.11	7 1/2	3,315.72	7 1/2	3,538.94	7 1/2									
7 3/4	2,584.00	7 3/4	2,829.62	7 3/4	3,075.23	7 3/4	3,320.84	7 3/4	3,539.79	7 3/4									
8	2,589.12	8	2,834.73	8	3,080.34	8	3,325.95	8	3,540.64	8									
8 1/4	2,594.24	8 1/4	2,839.85	8 1/4	3,085.46	8 1/4	3,331.07	8 1/4		8 1/4									
8 1/2	2,599.35	8 1/2	2,844.97	8 1/2	3,090.58	8 1/2	3,336.19	8 1/2		8 1/2									
8 3/4	2,604.47	8 3/4	2,850.08	8 3/4	3,095.69	8 3/4	3,341.31	8 3/4		8 3/4									
9	2,609.59	9	2,855.20	9	3,100.81	9	3,346.42	9		9									
9 1/4	2,614.71	9 1/4	2,860.32	9 1/4	3,105.93	9 1/4	3,351.54	9 1/4		9 1/4									
9 1/2	2,619.82	9 1/2	2,865.43	9 1/2	3,111.04	9 1/2	3,356.66	9 1/2		9 1/2									
9 3/4	2,624.94	9 3/4	2,870.55	9 3/4	3,116.16	9 3/4	3,361.77	9 3/4		9 3/4									
10	2,630.06	10	2,875.67	10	3,121.28	10	3,366.89	10		10									
10 1/4	2,635.17	10 1/4	2,880.78	10 1/4	3,126.40	10 1/4	3,372.01	10 1/4		10 1/4									
10 1/2	2,640.29	10 1/2	2,885.90	10 1/2	3,131.51	10 1/2	3,377.12	10 1/2		10 1/2									
10 3/4	2,645.41	10 3/4	2,891.02	10 3/4	3,136.63	10 3/4	3,382.24	10 3/4		10 3/4									
11	2,650.52	11	2,896.14	11	3,141.75	11	3,387.36	11		11									
11 1/4	2,655.64	11 1/4	2,901.25	11 1/4	3,146.88	11 1/4	3,392.47	11 1/4		11 1/4									
11 1/2	2,660.76	11 1/2	2,906.37	11 1/2	3,151.98	11 1/2	3,397.59	11 1/2		11 1/2									
11 3/4	2,665.87	11 3/4	2,911.49	11 3/4	3,157.10	11 3/4	3,402.71	11 3/4		11 3/4									

STRAPPED: 7/17/2019 JS
CALCULATED: 07/18/2019 CL
PRINTED: 07/18/2019 JS

CANCELS AND SUPERCEDES
ALL PRIOR TO 07/2019

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT
& ANALYSIS, INC.
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Pearland, Texas 77588
http://www.omaco.net



BARGE: E2MS 105

ULLAGE TRIM TABLE

	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 CENTER	- 00-1/4	00-1/4	- 00-1/2	00-1/2	- 00-3/4	00-3/4	- 01-0/8	01-0/8	- 01-1/4	01-1/4	- 01-1/2	01-1/2
2 CENTER	00-0/8	- 00-0/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/4	- 00-1/4	00-1/4	- 00-1/4	00-1/4	- 00-1/4
3 CENTER	- 00-1/4	00-1/4	- 00-3/8	00-3/8	- 00-5/8	00-5/8	- 00-3/4	00-3/4	- 01-0/8	01-0/8	- 01-1/8	01-1/8

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

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

LENGTH BETWEEN DRAFT MARKS: 163'-09"

July 16, 2019

THE CORRECTION FOR 2'-00" TRIM DOWN BY STERN FOR 1 CENTER IS 00-1/2"
 FOR A MEASURED ULLAGE GAUGE OF 4'-00" ON 1 CENTER, THE TRIM CORRECTED ULLAGE IS 4'-00 1/2"



BARGE "E2MS 105"

1 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-07 1/2"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
0	0	3,423.80	0	3,227.43	0	3,016.14	0	2,804.85	0	2,593.90	0	2,351.32	0	2,103.66	0	1,856.15	0	1,609.03	
1/4	1/4	3,422.94	1/4	3,223.03	1/4	3,011.74	1/4	2,800.45	1/4	2,589.54	1/4	2,346.17	1/4	2,098.50	1/4	1,851.01	1/4	1,603.88	
1/2	1/2	3,422.08	1/2	3,218.63	1/2	3,007.34	1/2	2,796.05	1/2	2,585.17	1/2	2,341.01	1/2	2,093.34	1/2	1,845.86	1/2	1,598.72	
3/4	3/4	3,419.49	3/4	3,214.23	3/4	3,002.94	3/4	2,791.64	3/4	2,580.80	3/4	2,335.85	3/4	2,088.18	3/4	1,840.72	3/4	1,593.57	
1	1	3,416.90	1	3,209.82	1	2,998.53	1	2,787.24	1	2,576.43	1	2,330.69	1	2,083.02	1	1,835.58	1	1,588.41	
1 1/4	1 1/4	3,414.32	1 1/4	3,205.42	1 1/4	2,994.13	1 1/4	2,782.84	1 1/4	2,572.07	1 1/4	2,325.53	1 1/4	2,077.86	1 1/4	1,830.44	1 1/4	1,583.26	
1 1/2	1 1/2	3,411.73	1 1/2	3,201.02	1 1/2	2,989.73	1 1/2	2,778.44	1 1/2	2,567.70	1 1/2	2,320.37	1 1/2	2,072.70	1 1/2	1,825.29	1 1/2	1,578.10	
1 3/4	1 3/4	3,407.42	1 3/4	3,196.62	1 3/4	2,985.33	1 3/4	2,774.04	1 3/4	2,562.66	1 3/4	2,315.21	1 3/4	2,067.54	1 3/4	1,820.15	1 3/4	1,572.95	
2	2	3,403.11	2	3,192.22	2	2,980.93	2	2,769.63	2	2,557.42	2	2,310.05	2	2,062.36	2	1,815.01	2	1,567.79	
2 1/4	2 1/4	3,398.80	2 1/4	3,187.82	2 1/4	2,976.52	2 1/4	2,765.23	2 1/4	2,552.28	2 1/4	2,304.89	2 1/4	2,057.22	2 1/4	1,809.86	2 1/4	1,562.64	
2 1/2	2 1/2	3,394.49	2 1/2	3,183.41	2 1/2	2,972.12	2 1/2	2,760.83	2 1/2	2,547.14	2 1/2	2,299.73	2 1/2	2,052.26	2 1/2	1,804.72	2 1/2	1,557.48	
2 3/4	2 3/4	3,390.13	2 3/4	3,179.01	2 3/4	2,967.72	2 3/4	2,756.43	2 3/4	2,542.00	2 3/4	2,294.57	2 3/4	2,046.80	2 3/4	1,799.58	2 3/4	1,552.33	
3	3	3,385.78	3	3,174.61	3	2,963.32	3	2,752.03	3	2,536.86	3	2,289.41	3	2,041.74	3	1,794.43	3	1,547.18	
3 1/4	3 1/4	3,381.42	3 1/4	3,170.21	3 1/4	2,958.92	3 1/4	2,747.63	3 1/4	2,531.72	3 1/4	2,284.25	3 1/4	2,036.58	3 1/4	1,789.29	3 1/4	1,542.02	
3 1/2	3 1/2	3,377.06	3 1/2	3,165.81	3 1/2	2,954.51	3 1/2	2,743.22	3 1/2	2,526.58	3 1/2	2,279.09	3 1/2	2,031.42	3 1/2	1,784.15	3 1/2	1,536.87	
3 3/4	3 3/4	3,372.67	3 3/4	3,161.40	3 3/4	2,950.11	3 3/4	2,738.82	3 3/4	2,521.43	3 3/4	2,273.93	3 3/4	2,026.26	3 3/4	1,779.01	3 3/4	1,531.71	
4	4	3,368.28	4	3,157.00	4	2,945.71	4	2,734.42	4	2,516.27	4	2,268.77	4	2,021.10	4	1,773.86	4	1,526.56	
4 1/4	4 1/4	3,363.90	4 1/4	3,152.60	4 1/4	2,941.31	4 1/4	2,730.02	4 1/4	2,511.12	4 1/4	2,263.61	4 1/4	2,016.94	4 1/4	1,768.72	4 1/4	1,521.40	
4 1/2	4 1/2	3,359.51	4 1/2	3,148.20	4 1/2	2,936.91	4 1/2	2,725.62	4 1/2	2,505.96	4 1/2	2,258.45	4 1/2	2,010.78	4 1/2	1,763.50	4 1/2	1,516.25	
4 3/4	4 3/4	3,355.10	4 3/4	3,143.80	4 3/4	2,932.50	4 3/4	2,721.21	4 3/4	2,500.81	4 3/4	2,253.29	4 3/4	2,005.62	4 3/4	1,758.43	4 3/4	1,511.09	
5	5	3,350.69	5	3,139.39	5	2,928.10	5	2,716.81	5	2,495.65	5	2,246.13	5	2,000.46	5	1,753.29	5	1,505.94	
5 1/4	5 1/4	3,346.29	5 1/4	3,134.99	5 1/4	2,923.70	5 1/4	2,712.41	5 1/4	2,490.50	5 1/4	2,242.97	5 1/4	1,995.30	5 1/4	1,748.15	5 1/4	1,500.78	
5 1/2	5 1/2	3,341.88	5 1/2	3,130.59	5 1/2	2,919.30	5 1/2	2,708.01	5 1/2	2,485.34	5 1/2	2,237.81	5 1/2	1,990.14	5 1/2	1,743.00	5 1/2	1,496.63	
5 3/4	5 3/4	3,337.48	5 3/4	3,126.19	5 3/4	2,914.90	5 3/4	2,703.61	5 3/4	2,480.19	5 3/4	2,232.65	5 3/4	1,984.98	5 3/4	1,737.86	5 3/4	1,491.47	
6	6	3,333.08	6	3,121.79	6	2,910.50	6	2,699.20	6	2,475.03	6	2,227.49	6	1,979.82	6	1,732.72	6	1,486.31	
6 1/4	6 1/4	3,328.68	6 1/4	3,117.38	6 1/4	2,906.09	6 1/4	2,694.80	6 1/4	2,469.88	6 1/4	2,222.33	6 1/4	1,974.66	6 1/4	1,727.58	6 1/4	1,481.15	
6 1/2	6 1/2	3,324.27	6 1/2	3,112.98	6 1/2	2,901.69	6 1/2	2,690.40	6 1/2	2,464.73	6 1/2	2,217.17	6 1/2	1,969.50	6 1/2	1,722.43	6 1/2	1,474.99	
6 3/4	6 3/4	3,319.87	6 3/4	3,108.58	6 3/4	2,897.29	6 3/4	2,686.00	6 3/4	2,459.57	6 3/4	2,212.01	6 3/4	1,964.34	6 3/4	1,717.29	6 3/4	1,469.84	
7	7	3,315.47	7	3,104.18	7	2,892.89	7	2,681.60	7	2,454.42	7	2,206.86	7	1,959.18	7	1,712.15	7	1,464.68	
7 1/4	7 1/4	3,311.07	7 1/4	3,099.78	7 1/4	2,888.49	7 1/4	2,677.19	7 1/4	2,449.26	7 1/4	2,201.70	7 1/4	1,954.02	7 1/4	1,707.00	7 1/4	1,459.52	
7 1/2	7 1/2	3,306.67	7 1/2	3,095.38	7 1/2	2,884.08	7 1/2	2,672.79	7 1/2	2,444.11	7 1/2	2,196.54	7 1/2	1,948.86	7 1/2	1,701.86	7 1/2	1,454.36	
7 3/4	7 3/4	3,302.26	7 3/4	3,090.97	7 3/4	2,879.68	7 3/4	2,668.39	7 3/4	2,436.95	7 3/4	2,191.38	7 3/4	1,943.70	7 3/4	1,696.70	7 3/4	1,449.20	
8	8	3,297.86	8	3,086.57	8	2,875.28	8	2,663.99	8	2,433.80	8	2,186.22	8	1,938.54	8	1,691.55	8	1,444.04	
8 1/4	8 1/4	3,293.46	8 1/4	3,082.17	8 1/4	2,870.88	8 1/4	2,659.59	8 1/4	2,428.64	8 1/4	2,181.06	8 1/4	1,933.38	8 1/4	1,686.39	8 1/4	1,438.88	
8 1/2	8 1/2	3,289.06	8 1/2	3,077.77	8 1/2	2,866.48	8 1/2	2,655.19	8 1/2	2,423.49	8 1/2	2,175.90	8 1/2	1,928.22	8 1/2	1,681.23	8 1/2	1,433.73	
8 3/4	8 3/4	3,284.66	8 3/4	3,073.37	8 3/4	2,862.07	8 3/4	2,650.78	8 3/4	2,418.33	8 3/4	2,170.74	8 3/4	1,923.06	8 3/4	1,676.07	8 3/4	1,428.57	
9	9	3,280.26	9	3,068.96	9	2,857.67	9	2,646.38	9	2,413.18	9	2,165.58	9	1,917.90	9	1,670.92	9	1,423.41	
9 1/4	9 1/4	3,275.85	9 1/4	3,064.56	9 1/4	2,853.27	9 1/4	2,641.99	9 1/4	2,408.02	9 1/4	2,160.42	9 1/4	1,912.74	9 1/4	1,665.76	9 1/4	1,418.25	
9 1/2	9 1/2	3,271.45	9 1/2	3,060.16	9 1/2	2,848.87	9 1/2	2,637.58	9 1/2	2,402.87	9 1/2	2,155.26	9 1/2	1,907.58	9 1/2	1,660.60	9 1/2	1,413.09	
9 3/4	9 3/4	3,267.05	9 3/4	3,055.76	9 3/4	2,844.47	9 3/4	2,633.21	9 3/4	2,397.71	9 3/4	2,150.10	9 3/4	1,902.44	9 3/4	1,655.44	9 3/4	1,407.93	
10	10	3,262.65	10	3,051.36	10	2,840.07	10	2,628.84	10	2,392.56	10	2,144.94	10	1,897.29	10	1,650.29	10	1,402.78	
10 1/4	10 1/4	3,258.25	10 1/4	3,046.96	10 1/4	2,835.66	10 1/4	2,624.44	10 1/4	2,387.40	10 1/4	2,139.78	10 1/4	1,892.15	10 1/4	1,645.13	10 1/4	1,397.62	
10 1/2	10 1/2	3,253.84	10 1/2	3,042.55	10 1/2	2,831.26	10 1/2	2,620.01	10 1/2	2,382.25	10 1/2	2,134.62	10 1/2	1,887.01	10 1/2	1,639.97	10 1/2	1,392.46	
10 3/4	10 3/4	3,249.44	10 3/4	3,038.15	10 3/4	2,826.86	10 3/4	2,615.74	10 3/4	2,377.10	10 3/4	2,129.48	10 3/4	1,881.87	10 3/4	1,634.81	10 3/4	1,387.30	
11	11	3,245.04	11	3,033.75	11	2,822.46	11	2,611.37	11	2,371.94	11	2,124.30	11	1,876.72	11	1,629.66	11	1,382.14	
11 1/4	11 1/4	3,240.64	11 1/4	3,029.35	11 1/4	2,818.06	11 1/4	2,607.01	11 1/4	2,366.79	11 1/4	2,119.14	11 1/4	1,871.58	11 1/4	1,624.50	11 1/4	1,376.98	
11 1/2	11 1/2	3,236.24	11 1/2	3,024.94	11 1/2	2,813.65	11 1/2	2,602.64	11 1/2	2,361.63	11 1/2	2,113.98	11 1/2	1,866.44	11 1/2	1,619.34	11 1/2	1,371.82	
11 3/4	11 3/4	3,231.83	11 3/4	3,020.54	11 3/4	2,809.25	11 3/4	2,598.27	11 3/4	2,356.48	11 3/4	2,108.82	11 3/4	1,861.29	11 3/4	1,614.19	11 3/4	1,366.67	

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 OF 2" HERMETIC VALVE.
GAUGE POINT: (HERMETIC) LOCATED ON CENTERLINE AND 23'-06" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
& ANALYSIS, INC.
P.O. Box 2092
Pearland, Texas 77668
<http://www.pmacorp.net>



BARGE "E2MS 105"

1 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-07 1/2"

	10 FT.	11 FT.	12 FT.	13 FT.	14 FT.	15 FT.	16 FT.	17 FT.	18 FT.	19 FT.
0	1,361.51	1,113.90	866.29	624.34	376.36	128.00				
1/4	1,356.35	1,108.74	861.13	619.32	371.19	122.82				
1/2	1,351.19	1,103.58	855.97	614.30	366.01	117.65				
3/4	1,346.03	1,098.42	850.82	609.14	360.84	112.47				
1	1,340.87	1,093.27	845.66	603.97	355.66	107.30				
1 1/4	1,335.71	1,088.11	840.50	598.81	350.49	102.13				
1 1/2	1,330.56	1,082.95	835.34	593.64	345.31	96.95				
3/4	1,325.40	1,077.79	830.18	588.48	340.14	91.78				
2	1,320.24	1,072.63	825.02	583.31	334.97	86.61				
1 1/4	1,315.08	1,067.47	819.86	578.15	329.79	81.43				
1 1/2	1,309.92	1,062.31	814.71	572.98	324.62	76.26				
3/4	1,304.76	1,057.16	809.58	567.81	319.44	71.10				
3	1,299.61	1,052.00	804.65	562.63	314.27	65.94				
1 1/4	1,294.45	1,046.84	799.52	557.46	309.10	60.78				
1 1/2	1,289.29	1,041.68	794.39	552.28	303.92	55.62				
3/4	1,284.13	1,036.52	789.57	547.11	298.75	50.48				
4	1,278.97	1,031.36	784.54	541.93	293.57	45.36				
1 1/4	1,273.81	1,026.20	779.52	536.76	288.40	40.23				
1 1/2	1,268.65	1,021.05	774.49	531.59	283.22	35.10				
3/4	1,263.50	1,016.89	769.49	526.41	278.05	30.79				
6	1,258.34	1,010.73	764.49	521.24	272.88	26.48				
1 1/4	1,253.18	1,005.57	759.48	516.06	267.70	22.17				
1 1/2	1,248.02	1,000.41	754.48	510.89	262.53	17.86				
3/4	1,242.86	995.25	749.48	505.72	257.35	15.28				
8	1,237.70	990.10	744.48	500.54	252.18	12.69				
1 1/4	1,232.54	984.94	739.47	495.37	247.01	10.10				
1 1/2	1,227.39	979.78	734.47	490.19	241.83	7.52				
3/4	1,222.23	974.62	729.47	485.02	236.66	6.65				
7	1,217.07	969.46	724.47	479.84	231.48	5.79				
1 1/4	1,211.91	964.30	719.46	474.67	226.31	4.93				
1 1/2	1,206.75	959.14	714.46	469.50	221.13	4.07				
3/4	1,201.59	953.99	709.46	464.32	215.96					
8	1,196.44	948.83	704.46	459.15	210.79					
1 1/4	1,191.28	943.67	699.45	453.97	205.61					
1 1/2	1,186.12	938.51	694.45	448.80	200.44					
3/4	1,180.96	933.35	689.45	443.62	195.26					
9	1,175.80	928.19	684.45	438.45	190.09					
1 1/4	1,170.64	923.03	679.44	433.28	184.91					
1 1/2	1,165.48	917.88	674.44	428.10	179.74					
3/4	1,160.33	912.72	669.44	422.93	174.57					
10	1,155.17	907.56	664.44	417.76	169.39					
1 1/4	1,150.01	902.40	659.43	412.58	164.22					
1 1/2	1,144.85	897.24	654.43	407.41	159.04					
3/4	1,139.69	892.08	649.42	402.23	153.87					
11	1,134.53	886.93	644.40	397.06	148.69					
1 1/4	1,129.37	881.77	639.39	391.88	143.52					
1 1/2	1,124.22	876.61	634.37	386.71	138.35					
3/4	1,119.06	871.45	629.36	381.53	133.17					

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 7/17/2019 JS
CALCULATED: 07/18/2019 CL
PRINTED: 07/18/2019 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 07/2019

PRECISION MEASUREMENT
& ANALYSIS, INC.
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BARGE "E2MS 105"

2 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-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				3,718.27	0	3,444.06	0	3,169.85	0	2,895.64	0	2,621.43	0	2,347.22	0	2,073.01	0	1,798.80
1/4	1/4				3,712.65	1/4	3,438.34	1/4	3,164.13	1/4	2,889.92	1/4	2,615.71	1/4	2,341.50	1/4	2,067.29	1/4	1,793.09
1/2	1/2	3,946.49			3,706.84	1/2	3,432.63	1/2	3,158.42	1/2	2,884.21	1/2	2,610.00	1/2	2,335.79	1/2	2,061.58	1/2	1,787.37
3/4	3/4	3,945.54	3/4		3,701.13	3/4	3,426.92	3/4	3,152.71	3/4	2,878.50	3/4	2,604.29	3/4	2,330.08	3/4	2,055.87	3/4	1,781.66
1	1	3,944.59	1		3,695.41	1	3,421.20	1	3,147.00	1	2,872.79	1	2,598.58	1	2,324.37	1	2,050.16	1	1,775.95
1 1/4	1 1/4	3,943.64	1 1/4		3,689.70	1 1/4	3,415.49	1 1/4	3,141.28	1 1/4	2,867.07	1 1/4	2,592.86	1 1/4	2,318.65	1 1/4	2,044.44	1 1/4	1,770.23
1 1/2	1 1/2	3,942.69	1 1/2		3,683.99	1 1/2	3,409.78	1 1/2	3,135.57	1 1/2	2,851.36	1 1/2	2,577.15	1 1/2	2,312.94	1 1/2	2,038.73	1 1/2	1,764.52
1 3/4	1 3/4	3,939.83	1 3/4		3,678.28	1 3/4	3,404.07	1 3/4	3,129.85	1 3/4	2,855.65	1 3/4	2,581.44	1 3/4	2,307.23	1 3/4	2,033.02	1 3/4	1,758.81
2	2	3,936.98	2		3,672.56	2	3,398.35	2	3,124.14	2	2,849.93	2	2,575.72	2	2,301.52	2	2,027.31	2	1,753.10
2 1/4	2 1/4	3,934.12	2 1/4		3,666.85	2 1/4	3,392.64	2 1/4	3,118.43	2 1/4	2,844.22	2 1/4	2,570.01	2 1/4	2,295.80	2 1/4	2,021.59	2 1/4	1,747.38
2 1/2	2 1/2	3,931.26	2 1/2		3,661.14	2 1/2	3,386.93	2 1/2	3,112.72	2 1/2	2,838.51	2 1/2	2,564.30	2 1/2	2,290.09	2 1/2	2,015.88	2 1/2	1,741.67
2 3/4	2 3/4	3,926.51	2 3/4		3,655.43	2 3/4	3,381.22	2 3/4	3,107.01	2 3/4	2,832.80	2 3/4	2,558.59	2 3/4	2,284.38	2 3/4	2,010.17	2 3/4	1,735.96
3	3	3,921.75	3		3,649.71	3	3,375.50	3	3,101.29	3	2,827.08	3	2,552.87	3	2,278.66	3	2,004.45	3	1,730.25
3 1/4	3 1/4	3,916.99	3 1/4		3,644.00	3 1/4	3,369.79	3 1/4	3,095.58	3 1/4	2,821.37	3 1/4	2,547.16	3 1/4	2,272.95	3 1/4	1,998.74	3 1/4	1,724.53
3 1/2	3 1/2	3,912.23	3 1/2		3,638.29	3 1/2	3,364.08	3 1/2	3,089.87	3 1/2	2,815.66	3 1/2	2,541.45	3 1/2	2,267.24	3 1/2	1,993.03	3 1/2	1,718.82
3 3/4	3 3/4	3,906.57	3 3/4		3,632.57	3 3/4	3,358.36	3 3/4	3,084.16	3 3/4	2,809.95	3 3/4	2,535.74	3 3/4	2,261.53	3 3/4	1,987.32	3 3/4	1,713.11
4	4	3,900.91	4		3,626.86	4	3,352.65	4	3,078.44	4	2,804.23	4	2,530.02	4	2,255.81	4	1,981.60	4	1,707.39
4 1/4	4 1/4	3,895.24	4 1/4		3,621.15	4 1/4	3,346.94	4 1/4	3,072.73	4 1/4	2,798.52	4 1/4	2,524.31	4 1/4	2,250.10	4 1/4	1,975.89	4 1/4	1,701.68
4 1/2	4 1/2	3,889.58	4 1/2		3,615.44	4 1/2	3,341.23	4 1/2	3,067.02	4 1/2	2,792.81	4 1/2	2,518.60	4 1/2	2,244.39	4 1/2	1,970.18	4 1/2	1,695.97
4 3/4	4 3/4	3,883.88	4 3/4		3,609.72	4 3/4	3,335.51	4 3/4	3,061.30	4 3/4	2,787.09	4 3/4	2,512.89	4 3/4	2,238.68	4 3/4	1,964.47	4 3/4	1,690.26
5	5	3,878.18	5		3,604.01	5	3,329.80	5	3,055.59	5	2,781.38	5	2,507.17	5	2,232.96	5	1,958.75	5	1,684.54
5 1/4	5 1/4	3,872.48	5 1/4		3,598.30	5 1/4	3,324.09	5 1/4	3,049.88	5 1/4	2,775.67	5 1/4	2,501.46	5 1/4	2,227.25	5 1/4	1,953.04	5 1/4	1,678.83
5 1/2	5 1/2	3,866.79	5 1/2		3,592.59	5 1/2	3,318.38	5 1/2	3,044.17	5 1/2	2,769.96	5 1/2	2,495.75	5 1/2	2,221.54	5 1/2	1,947.33	5 1/2	1,673.12
5 3/4	5 3/4	3,861.08	5 3/4		3,586.87	5 3/4	3,312.66	5 3/4	3,038.45	5 3/4	2,764.24	5 3/4	2,490.03	5 3/4	2,215.82	5 3/4	1,941.62	5 3/4	1,667.41
6	6	3,855.37	6		3,581.16	6	3,306.95	6	3,032.74	6	2,758.53	6	2,484.32	6	2,210.11	6	1,935.90	6	1,661.69
6 1/4	6 1/4	3,849.66	6 1/4		3,575.45	6 1/4	3,301.24	6 1/4	3,027.03	6 1/4	2,752.82	6 1/4	2,478.61	6 1/4	2,204.40	6 1/4	1,930.19	6 1/4	1,655.98
6 1/2	6 1/2	3,843.94	6 1/2		3,569.73	6 1/2	3,295.53	6 1/2	3,021.32	6 1/2	2,747.11	6 1/2	2,472.90	6 1/2	2,198.69	6 1/2	1,924.48	6 1/2	1,650.27
6 3/4	6 3/4	3,838.23	6 3/4		3,564.02	6 3/4	3,289.81	6 3/4	3,015.60	6 3/4	2,741.39	6 3/4	2,467.18	6 3/4	2,192.97	6 3/4	1,918.76	6 3/4	1,644.55
7	7	3,832.52	7		3,558.31	7	3,284.10	7	3,009.89	7	2,735.68	7	2,461.47	7	2,187.26	7	1,913.05	7	1,638.84
7 1/4	7 1/4	3,826.81	7 1/4		3,552.60	7 1/4	3,278.39	7 1/4	3,004.18	7 1/4	2,729.97	7 1/4	2,455.76	7 1/4	2,181.55	7 1/4	1,907.34	7 1/4	1,633.13
7 1/2	7 1/2	3,821.09	7 1/2		3,546.88	7 1/2	3,272.67	7 1/2	2,998.46	7 1/2	2,724.26	7 1/2	2,450.05	7 1/2	2,175.84	7 1/2	1,901.63	7 1/2	1,627.42
7 3/4	7 3/4	3,815.38	7 3/4		3,541.17	7 3/4	3,266.95	7 3/4	2,992.75	7 3/4	2,718.54	7 3/4	2,444.33	7 3/4	2,170.12	7 3/4	1,895.91	7 3/4	1,621.70
8	8	3,809.67	8		3,535.46	8	3,261.25	8	2,987.04	8	2,712.83	8	2,438.62	8	2,164.41	8	1,890.20	8	1,615.99
8 1/4	8 1/4	3,803.96	8 1/4		3,529.75	8 1/4	3,255.54	8 1/4	2,981.33	8 1/4	2,707.12	8 1/4	2,432.91	8 1/4	2,158.70	8 1/4	1,884.49	8 1/4	1,610.28
8 1/2	8 1/2	3,798.24	8 1/2		3,524.03	8 1/2	3,249.82	8 1/2	2,975.61	8 1/2	2,701.40	8 1/2	2,427.19	8 1/2	2,152.99	8 1/2	1,878.78	8 1/2	1,604.57
8 3/4	8 3/4	3,792.53	8 3/4		3,518.32	8 3/4	3,244.11	8 3/4	2,969.90	8 3/4	2,695.69	8 3/4	2,421.48	8 3/4	2,147.27	8 3/4	1,873.06	8 3/4	1,598.85
9	9	3,786.82	9		3,512.61	9	3,238.40	9	2,964.19	9	2,689.98	9	2,415.77	9	2,141.56	9	1,867.35	9	1,593.14
9 1/4	9 1/4	3,781.10	9 1/4		3,506.90	9 1/4	3,232.69	9 1/4	2,958.48	9 1/4	2,684.27	9 1/4	2,410.06	9 1/4	2,135.85	9 1/4	1,861.64	9 1/4	1,587.43
9 1/2	9 1/2	3,775.39	9 1/2		3,501.18	9 1/2	3,228.97	9 1/2	2,952.76	9 1/2	2,678.55	9 1/2	2,404.34	9 1/2	2,130.13	9 1/2	1,855.92	9 1/2	1,581.72
9 3/4	9 3/4	3,769.68	9 3/4		3,495.47	9 3/4	3,221.26	9 3/4	2,947.05	9 3/4	2,672.84	9 3/4	2,398.63	9 3/4	2,124.42	9 3/4	1,850.21	9 3/4	1,576.00
10	10	3,763.97	10		3,489.76	10	3,215.55	10	2,941.34	10	2,667.13	10	2,392.92	10	2,118.71	10	1,844.50	10	1,570.29
10 1/4	10 1/4	3,758.25	10 1/4		3,484.04	10 1/4	3,209.83	10 1/4	2,935.63	10 1/4	2,661.42	10 1/4	2,387.21	10 1/4	2,113.00	10 1/4	1,838.79	10 1/4	1,564.58
10 1/2	10 1/2	3,752.54	10 1/2		3,478.33	10 1/2	3,204.12	10 1/2	2,929.91	10 1/2	2,655.70	10 1/2	2,381.49	10 1/2	2,107.28	10 1/2	1,833.07	10 1/2	1,558.86
10 3/4	10 3/4	3,746.83	10 3/4		3,472.62	10 3/4	3,198.41	10 3/4	2,924.20	10 3/4	2,649.99	10 3/4	2,375.78	10 3/4	2,101.57	10 3/4	1,827.36	10 3/4	1,553.15
11	11	3,741.12	11		3,466.91	11	3,192.70	11	2,918.49	11	2,644.28	11	2,370.07	11	2,095.86	11	1,821.65	11	1,547.44
11 1/4	11 1/4	3,735.40	11 1/4		3,461.19	11 1/4	3,186.98	11 1/4	2,912.77	11 1/4	2,638.56	11 1/4	2,364.36	11 1/4	2,090.15	11 1/4	1,815.94	11 1/4	1,541.73
11 1/2	11 1/2	3,729.69	11 1/2		3,455.48	11 1/2	3,181.27	11 1/2	2,907.06	11 1/2	2,632.85	11 1/2	2,358.64	11 1/2	2,084.43	11 1/2	1,810.22	11 1/2	1,536.01
11 3/4	11 3/4	3,723.98	11 3/4		3,449.77	11 3/4	3,175.56	11 3/4	2,901.35	11 3/4	2,627.14	11 3/4	2,352.93	11 3/4	2,078.72	11 3/4	1,804.51	11 3/4	1,530.30

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP OF 2" HERMETIC VALVE.
 GAUGE POINT: (HERMETIC) LOCATED ON CENTERLINE AND 30'-00" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
 & ANALYSIS, INC.
 P.O. Box 2092
 Pearland, Texas 77668
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BARGE "E2MS 105"

2 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08 1/2"

	10 FT.	11 FT.	12 FT.	13 FT.	14 FT.	15 FT.	16 FT.	17 FT.	18 FT.	19 FT.
0	1,524.59	1,250.38	976.17	707.79	434.60	160.40				
1/4	1,518.88	1,244.67	970.46	702.25	428.89	154.69				
1/2	1,513.16	1,238.95	964.74	696.71	423.18	148.98				
3/4	1,507.45	1,233.24	959.03	691.16	417.46	143.26				
1	1,501.74	1,227.53	953.32	685.62	411.75	137.55				
1 1/4	1,496.02	1,221.82	947.61	680.07	406.04	131.84				
1 1/2	1,490.31	1,216.10	941.89	674.53	400.33	126.13				
1 3/4	1,484.60	1,210.39	936.18	668.81	394.61	120.41				
2	1,478.89	1,204.68	930.47	663.10	388.90	114.70				
2 1/4	1,473.17	1,198.96	924.75	657.39	383.19	108.99				
2 1/2	1,467.46	1,193.25	919.04	651.68	377.48	103.28				
2 3/4	1,461.75	1,187.54	913.33	645.96	371.76	97.56				
3	1,456.04	1,181.83	907.62	640.25	366.05	91.85				
3 1/4	1,450.32	1,176.11	901.90	634.54	360.34	86.14				
3 1/2	1,444.61	1,170.40	896.19	628.83	354.63	80.43				
3 3/4	1,438.90	1,164.69	890.65	623.11	348.91	74.73				
4	1,433.18	1,158.98	885.10	617.40	343.20	69.04				
4 1/4	1,427.47	1,153.26	879.55	611.69	337.49	63.34				
4 1/2	1,421.76	1,147.55	874.01	606.00	331.78	57.64				
4 3/4	1,416.05	1,141.84	868.47	600.26	326.06	51.98				
5	1,410.33	1,136.12	862.93	594.55	320.35	46.31				
5 1/4	1,404.62	1,130.41	857.39	588.84	314.64	40.65				
5 1/2	1,398.91	1,124.70	851.85	583.13	308.93	34.99				
5 3/4	1,393.20	1,118.99	846.31	577.41	303.21	30.23				
6	1,387.48	1,113.27	840.76	571.70	297.50	25.47				
6 1/4	1,381.77	1,107.56	835.22	566.00	291.79	20.72				
6 1/2	1,376.06	1,101.85	829.68	560.28	286.08	15.96				
6 3/4	1,370.35	1,096.14	824.14	554.56	280.36	11.20				
7	1,364.63	1,090.42	818.60	548.85	274.65	10.25				
7 1/4	1,358.92	1,084.71	813.06	543.14	268.94	7.39				
7 1/2	1,353.21	1,079.00	807.52	537.43	263.23	4.54				
7 3/4	1,347.49	1,073.28	801.98	531.71	257.51	3.58				
8	1,341.78	1,067.57	796.44	526.00	251.80	2.63				
8 1/4	1,336.07	1,061.86	790.90	520.29	246.09	1.68				
8 1/2	1,330.36	1,056.16	785.36	514.58	240.38	0.73				
8 3/4	1,324.64	1,050.43	779.82	508.86	234.66					
9	1,318.93	1,044.72	774.28	503.15	228.95					
9 1/4	1,313.22	1,039.01	768.74	497.44	223.24					
9 1/2	1,307.51	1,033.30	763.20	491.73	217.53					
9 3/4	1,301.79	1,027.58	757.65	486.01	211.81					
10	1,296.08	1,021.87	752.11	480.30	206.10					
10 1/4	1,290.37	1,016.16	746.57	474.59	200.39					
10 1/2	1,284.65	1,010.45	741.03	468.88	194.68					
10 3/4	1,278.94	1,004.73	735.49	463.16	188.96					
11	1,273.23	999.02	729.95	457.45	183.25					
11 1/4	1,267.52	993.31	724.41	451.74	177.54					
11 1/2	1,261.80	987.59	718.87	446.03	171.83					
11 3/4	1,256.09	981.88	713.33	440.31	166.11					

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 7/17/2019 JS
CALCULATED: 07/18/2019 CL
PRINTED: 07/18/2019 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 07/2019

PRECISION MEASUREMENT
& ANALYSIS, INC.
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Pearland, Texas 77588
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BARGE "E2MS 105"

2 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-07 3/4"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
0	0	3,539.79	0	3,320.84	0	3,075.23	0	2,829.62	0	2,584.00	0	2,338.39	0	2,092.78	0	1,847.17	0	1,601.56	
1/4	1/4	3,538.94	1/4	3,315.72	1/4	3,070.11	1/4	2,824.50	1/4	2,578.89	1/4	2,333.28	1/4	2,087.67	1/4	1,842.06	1/4	1,596.44	
1/2	1/2	3,538.09	1/2	3,310.60	1/2	3,064.99	1/2	2,819.38	1/2	2,573.77	1/2	2,328.16	1/2	2,082.55	1/2	1,836.94	1/2	1,591.33	
3/4	3/4	3,537.23	3/4	3,305.49	3/4	3,059.88	3/4	2,814.26	3/4	2,568.65	3/4	2,323.04	3/4	2,077.43	3/4	1,831.82	3/4	1,586.21	
1	1	3,534.68	1	3,300.37	1	3,054.76	1	2,809.15	1	2,563.54	1	2,317.93	1	2,072.31	1	1,826.70	1	1,581.09	
1 1/4	1 1/4	3,532.12	1 1/4	3,295.25	1 1/4	3,049.84	1 1/4	2,804.03	1 1/4	2,558.42	1 1/4	2,312.81	1 1/4	2,067.20	1 1/4	1,821.59	1 1/4	1,576.98	
1 1/2	1 1/2	3,529.56	1 1/2	3,290.14	1 1/2	3,044.53	1 1/2	2,798.91	1 1/2	2,553.30	1 1/2	2,307.69	1 1/2	2,062.08	1 1/2	1,816.47	1 1/2	1,572.86	
1 3/4	1 3/4	3,527.00	1 3/4	3,285.02	1 3/4	3,039.41	1 3/4	2,793.80	1 3/4	2,548.19	1 3/4	2,302.57	1 3/4	2,056.96	1 3/4	1,811.35	1 3/4	1,568.74	
2	2	3,522.74	2	3,279.90	2	3,034.29	2	2,788.68	2	2,543.07	2	2,297.46	2	2,051.85	2	1,806.24	2	1,564.62	
2 1/4	2 1/4	3,518.48	2 1/4	3,274.79	2 1/4	3,029.17	2 1/4	2,783.56	2 1/4	2,537.95	2 1/4	2,292.34	2 1/4	2,046.73	2 1/4	1,801.12	2 1/4	1,560.51	
2 1/2	2 1/2	3,514.22	2 1/2	3,269.67	2 1/2	3,024.06	2 1/2	2,778.45	2 1/2	2,532.84	2 1/2	2,287.22	2 1/2	2,041.61	2 1/2	1,796.00	2 1/2	1,556.39	
2 3/4	2 3/4	3,509.96	2 3/4	3,264.55	2 3/4	3,018.94	2 3/4	2,773.33	2 3/4	2,527.72	2 3/4	2,282.11	2 3/4	2,036.50	2 3/4	1,790.88	2 3/4	1,552.27	
3	3	3,504.88	3	3,259.44	3	3,013.82	3	2,768.21	3	2,522.60	3	2,276.99	3	2,031.38	3	1,785.77	3	1,548.16	
3 1/4	3 1/4	3,499.81	3 1/4	3,254.32	3 1/4	3,008.71	3 1/4	2,763.10	3 1/4	2,517.48	3 1/4	2,271.87	3 1/4	2,026.26	3 1/4	1,780.65	3 1/4	1,544.04	
3 1/2	3 1/2	3,494.74	3 1/2	3,249.20	3 1/2	3,003.59	3 1/2	2,757.98	3 1/2	2,512.37	3 1/2	2,266.76	3 1/2	2,021.16	3 1/2	1,775.53	3 1/2	1,539.92	
3 3/4	3 3/4	3,489.67	3 3/4	3,244.08	3 3/4	2,998.47	3 3/4	2,752.86	3 3/4	2,507.25	3 3/4	2,261.64	3 3/4	2,016.03	3 3/4	1,770.42	3 3/4	1,535.81	
4	4	3,484.55	4	3,238.97	4	2,993.35	4	2,747.75	4	2,502.13	4	2,256.52	4	2,010.91	4	1,765.30	4	1,531.69	
4 1/4	4 1/4	3,479.46	4 1/4	3,233.85	4 1/4	2,988.24	4 1/4	2,742.63	4 1/4	2,497.02	4 1/4	2,251.41	4 1/4	2,005.79	4 1/4	1,760.18	4 1/4	1,527.57	
4 1/2	4 1/2	3,474.35	4 1/2	3,228.73	4 1/2	2,983.12	4 1/2	2,737.51	4 1/2	2,491.90	4 1/2	2,246.29	4 1/2	2,000.68	4 1/2	1,755.07	4 1/2	1,523.46	
4 3/4	4 3/4	3,469.25	4 3/4	3,223.62	4 3/4	2,978.01	4 3/4	2,732.39	4 3/4	2,486.78	4 3/4	2,241.17	4 3/4	1,995.56	4 3/4	1,749.95	4 3/4	1,519.34	
5	5	3,464.13	5	3,218.50	5	2,972.89	5	2,727.28	5	2,481.67	5	2,236.06	5	1,990.44	5	1,744.83	5	1,495.22	
5 1/4	5 1/4	3,459.00	5 1/4	3,213.38	5 1/4	2,967.77	5 1/4	2,722.16	5 1/4	2,476.55	5 1/4	2,230.94	5 1/4	1,985.33	5 1/4	1,739.72	5 1/4	1,491.10	
5 1/2	5 1/2	3,453.88	5 1/2	3,208.27	5 1/2	2,962.65	5 1/2	2,717.04	5 1/2	2,471.43	5 1/2	2,225.82	5 1/2	1,980.21	5 1/2	1,734.60	5 1/2	1,486.99	
5 3/4	5 3/4	3,448.76	5 3/4	3,203.15	5 3/4	2,957.54	5 3/4	2,711.93	5 3/4	2,466.32	5 3/4	2,220.70	5 3/4	1,975.09	5 3/4	1,729.48	5 3/4	1,483.87	
6	6	3,443.64	6	3,198.03	6	2,952.42	6	2,706.81	6	2,461.20	6	2,215.59	6	1,969.98	6	1,724.37	6	1,479.76	
6 1/4	6 1/4	3,438.53	6 1/4	3,192.92	6 1/4	2,947.30	6 1/4	2,701.69	6 1/4	2,456.08	6 1/4	2,210.47	6 1/4	1,964.86	6 1/4	1,719.25	6 1/4	1,475.64	
6 1/2	6 1/2	3,433.41	6 1/2	3,187.80	6 1/2	2,942.19	6 1/2	2,696.58	6 1/2	2,450.96	6 1/2	2,205.35	6 1/2	1,959.74	6 1/2	1,714.13	6 1/2	1,471.52	
6 3/4	6 3/4	3,428.29	6 3/4	3,182.68	6 3/4	2,937.07	6 3/4	2,691.46	6 3/4	2,445.85	6 3/4	2,200.24	6 3/4	1,954.63	6 3/4	1,709.01	6 3/4	1,467.40	
7	7	3,423.18	7	3,177.56	7	2,931.95	7	2,686.34	7	2,440.73	7	2,195.12	7	1,949.81	7	1,703.89	7	1,463.29	
7 1/4	7 1/4	3,418.06	7 1/4	3,172.45	7 1/4	2,926.84	7 1/4	2,681.23	7 1/4	2,435.61	7 1/4	2,190.00	7 1/4	1,944.39	7 1/4	1,698.78	7 1/4	1,459.17	
7 1/2	7 1/2	3,412.94	7 1/2	3,167.33	7 1/2	2,921.72	7 1/2	2,676.11	7 1/2	2,430.50	7 1/2	2,184.89	7 1/2	1,939.27	7 1/2	1,693.66	7 1/2	1,455.05	
7 3/4	7 3/4	3,407.83	7 3/4	3,162.21	7 3/4	2,916.60	7 3/4	2,670.99	7 3/4	2,425.38	7 3/4	2,179.77	7 3/4	1,934.16	7 3/4	1,688.55	7 3/4	1,450.94	
8	8	3,402.71	8	3,157.10	8	2,911.49	8	2,665.87	8	2,420.26	8	2,174.65	8	1,929.04	8	1,683.43	8	1,446.82	
8 1/4	8 1/4	3,397.59	8 1/4	3,151.98	8 1/4	2,906.37	8 1/4	2,660.76	8 1/4	2,415.15	8 1/4	2,169.54	8 1/4	1,923.92	8 1/4	1,678.31	8 1/4	1,442.70	
8 1/2	8 1/2	3,392.47	8 1/2	3,146.86	8 1/2	2,901.25	8 1/2	2,655.64	8 1/2	2,410.03	8 1/2	2,164.42	8 1/2	1,918.81	8 1/2	1,673.20	8 1/2	1,438.59	
8 3/4	8 3/4	3,387.35	8 3/4	3,141.75	8 3/4	2,896.14	8 3/4	2,650.52	8 3/4	2,404.91	8 3/4	2,159.30	8 3/4	1,913.69	8 3/4	1,668.08	8 3/4	1,434.47	
9	9	3,382.24	9	3,136.63	9	2,891.02	9	2,645.41	9	2,399.80	9	2,154.18	9	1,908.57	9	1,662.96	9	1,430.35	
9 1/4	9 1/4	3,377.12	9 1/4	3,131.51	9 1/4	2,885.90	9 1/4	2,640.29	9 1/4	2,394.68	9 1/4	2,149.07	9 1/4	1,903.46	9 1/4	1,657.85	9 1/4	1,426.23	
9 1/2	9 1/2	3,372.01	9 1/2	3,126.40	9 1/2	2,880.78	9 1/2	2,635.17	9 1/2	2,389.56	9 1/2	2,143.95	9 1/2	1,898.34	9 1/2	1,652.73	9 1/2	1,422.11	
9 3/4	9 3/4	3,366.89	9 3/4	3,121.28	9 3/4	2,875.67	9 3/4	2,630.06	9 3/4	2,384.45	9 3/4	2,138.83	9 3/4	1,893.22	9 3/4	1,647.61	9 3/4	1,417.99	
10	10	3,361.77	10	3,116.16	10	2,870.55	10	2,624.94	10	2,379.33	10	2,133.72	10	1,888.11	10	1,642.49	10	1,398.88	
10 1/4	10 1/4	3,356.66	10 1/4	3,111.05	10 1/4	2,865.43	10 1/4	2,619.82	10 1/4	2,374.21	10 1/4	2,128.60	10 1/4	1,882.99	10 1/4	1,637.38	10 1/4	1,394.76	
10 1/2	10 1/2	3,351.54	10 1/2	3,105.93	10 1/2	2,860.32	10 1/2	2,614.71	10 1/2	2,369.09	10 1/2	2,123.48	10 1/2	1,877.87	10 1/2	1,632.26	10 1/2	1,390.65	
10 3/4	10 3/4	3,346.42	10 3/4	3,100.81	10 3/4	2,855.20	10 3/4	2,609.59	10 3/4	2,363.98	10 3/4	2,118.37	10 3/4	1,872.76	10 3/4	1,627.14	10 3/4	1,386.53	
11	11	3,341.31	11	3,095.69	11	2,850.08	11	2,604.47	11	2,358.86	11	2,113.25	11	1,867.64	11	1,622.03	11	1,382.42	
11 1/4	11 1/4	3,336.19	11 1/4	3,090.58	11 1/4	2,844.97	11 1/4	2,599.36	11 1/4	2,353.74	11 1/4	2,108.13	11 1/4	1,862.52	11 1/4	1,616.91	11 1/4	1,378.30	
11 1/2	11 1/2	3,331.07	11 1/2	3,085.46	11 1/2	2,839.85	11 1/2	2,594.24	11 1/2	2,348.63	11 1/2	2,103.02	11 1/2	1,857.40	11 1/2	1,611.79	11 1/2	1,374.18	
11 3/4	11 3/4	3,325.95	11 3/4	3,080.34	11 3/4	2,834.73	11 3/4	2,589.12	11 3/4	2,343.51	11 3/4	2,097.90	11 3/4	1,852.29	11 3/4	1,606.68	11 3/4	1,370.07	

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 OF 2" HERMETIC VALVE.
GAUGE POINT: (HERMETIC) LOCATED ON CENTERLINE AND 24'-00" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT
& ANALYSIS, INC.
P.O. Box 2092
Pearland, Texas 77688
http://www.pmacorp.net



BARGE "E2MS 105"

3 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-07 3/4"

	10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.		
IN	0	1/4	1/2	3/4	1	1 1/4	1 1/2	1 3/4	2	2 1/4	2 1/2	2 3/4	3	3 1/4	3 1/2	3 3/4	4	4 1/4	4 1/2	4 3/4	
0	1,355.95																				
1/4	1,350.83	1,110.34			864.73			619.58		374.00		128.40									
1/2	1,345.71	1,100.10	854.49		609.36			599.13		353.53		107.93									
3/4	1,340.60	1,094.99	849.38		604.25			599.13		353.53		107.93									
1	1,335.48	1,089.87	844.26		604.25			599.13		353.53		107.93									
1 1/4	1,330.36	1,084.75	839.14		604.25			599.13		353.53		107.93									
1 1/2	1,325.25	1,079.64	834.02		604.25			599.13		353.53		107.93									
1 3/4	1,320.13	1,074.52	828.91		604.25			599.13		353.53		107.93									
2	1,315.01	1,069.40	823.79		604.25			599.13		353.53		107.93									
2 1/4	1,309.90	1,064.29	818.67		604.25			599.13		353.53		107.93									
2 1/2	1,304.78	1,059.17	813.55		604.25			599.13		353.53		107.93									
2 3/4	1,299.66	1,054.05	808.44		604.25			599.13		353.53		107.93									
3	1,294.55	1,048.93	803.33		604.25			599.13		353.53		107.93									
3 1/4	1,289.43	1,043.82	798.22		604.25			599.13		353.53		107.93									
3 1/2	1,284.31	1,038.70	793.11		604.25			599.13		353.53		107.93									
3 3/4	1,279.19	1,033.58	788.01		604.25			599.13		353.53		107.93									
4	1,274.08	1,028.47	782.90		604.25			599.13		353.53		107.93									
4 1/4	1,268.96	1,023.35	777.80		604.25			599.13		353.53		107.93									
4 1/2	1,263.84	1,018.23	772.69		604.25			599.13		353.53		107.93									
4 3/4	1,258.73	1,013.12	767.59		604.25			599.13		353.53		107.93									
5	1,253.61	1,008.00	762.49		604.25			599.13		353.53		107.93									
5 1/4	1,248.49	1,002.88	757.38		604.25			599.13		353.53		107.93									
5 1/2	1,243.38	997.77	752.28		604.25			599.13		353.53		107.93									
5 3/4	1,238.26	992.65	747.18		604.25			599.13		353.53		107.93									
6	1,233.14	987.53	742.07		604.25			599.13		353.53		107.93									
6 1/4	1,228.03	982.41	736.97		604.25			599.13		353.53		107.93									
6 1/2	1,222.91	977.30	731.86		604.25			599.13		353.53		107.93									
6 3/4	1,217.79	972.18	726.76		604.25			599.13		353.53		107.93									
7	1,212.68	967.07	721.66		604.25			599.13		353.53		107.93									
7 1/4	1,207.56	961.95	716.55		604.25			599.13		353.53		107.93									
7 1/2	1,202.44	956.83	711.45		604.25			599.13		353.53		107.93									
7 3/4	1,197.32	951.71	706.35		604.25			599.13		353.53		107.93									
8	1,192.21	946.60	701.24		604.25			599.13		353.53		107.93									
8 1/4	1,187.09	941.48	696.14		604.25			599.13		353.53		107.93									
8 1/2	1,181.97	936.36	691.04		604.25			599.13		353.53		107.93									
8 3/4	1,176.86	931.25	685.93		604.25			599.13		353.53		107.93									
9	1,171.74	926.13	680.83		604.25			599.13		353.53		107.93									
9 1/4	1,166.62	921.01	675.72		604.25			599.13		353.53		107.93									
9 1/2	1,161.51	915.89	670.62		604.25			599.13		353.53		107.93									
9 3/4	1,156.39	910.78	665.52		604.25			599.13		353.53		107.93									
10	1,151.27	905.66	660.41		604.25			599.13		353.53		107.93									
10 1/4	1,146.16	900.54	655.31		604.25			599.13		353.53		107.93									
10 1/2	1,141.04	895.43	650.21		604.25			599.13		353.53		107.93									
10 3/4	1,135.92	890.31	645.10		604.25			599.13		353.53		107.93									
11	1,130.80	885.19	640.00		604.25			599.13		353.53		107.93									
11 1/4	1,125.69	880.08	634.89		604.25			599.13		353.53		107.93									
11 1/2	1,120.57	874.96	629.79		604.25			599.13		353.53		107.93									
11 3/4	1,115.45	869.84	624.69		604.25			599.13		353.53		107.93									

STRAPPED: 7/17/2019 JS
CALCULATED: 07/18/2019 CL
PRINTED: 07/18/2019 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 07/2019

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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