



BARGE "EMS 517"

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 PORT	- 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	- 00-3/8	00-3/8
1 STBD	- 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	- 00-3/8	00-3/8
2 PORT	- 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	- 00-3/8	00-3/8
2 STBD	- 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	- 00-3/8	00-3/8
3 PORT	00-5/8	- 00-5/8	01-1/4	- 01-1/4	01-7/8	- 01-7/8	02-1/2	- 02-1/2	03-0/8	- 03-0/8	03-5/8	- 03-5/8
3 STBD	00-5/8	- 00-5/8	01-1/4	- 01-1/4	01-7/8	- 01-7/8	02-1/2	- 02-1/2	03-0/8	- 03-0/8	03-5/8	- 03-5/8

(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)

THE CORRECTION FOR 2'-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 4'-00 1/8"

LENGTH BETWEEN DRAFT MARKS: 238'-00"

April 23, 2020

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

<http://www.pmacorp.net>



BARGE "EMS 517"

1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08 1/4"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0
		1/4	5,176.20	1/4	4,843.41	1/4	4,508.03	1/4	4,153.54	1/4	3,790.99	1/4	3,428.44	1/4	3,065.89	1/4	2,703.35	1/4	2,340.71
		1/2	5,171.08	1/2	4,836.61	1/2	4,500.82	1/2	4,145.99	1/2	3,783.44	1/2	3,420.89	1/2	3,058.34	1/2	2,695.79	1/2	2,333.16
		3/4	5,165.96	3/4	4,829.81	3/4	4,493.61	3/4	4,138.43	3/4	3,775.89	3/4	3,413.34	3/4	3,050.79	3/4	2,688.24	3/4	2,325.60
1	1	1	5,160.85	1	4,823.01	1	4,486.40	1	4,130.88	1	3,768.33	1	3,405.78	1	3,043.24	1	2,680.69	1	2,318.04
		1/4	5,155.73	1/4	4,816.21	1/4	4,479.19	1/4	4,123.33	1/4	3,760.78	1/4	3,398.23	1/4	3,035.68	1/4	2,673.13	1/4	2,310.49
		1/2	5,149.39	1/2	4,809.38	1/2	4,471.94	1/2	4,115.78	1/2	3,753.23	1/2	3,390.68	1/2	3,028.13	1/2	2,665.58	1/2	2,302.93
		3/4	5,143.06	3/4	4,802.55	3/4	4,464.70	3/4	4,108.22	3/4	3,745.67	3/4	3,383.12	3/4	3,020.58	3/4	2,658.03	3/4	2,295.38
2	2	2	5,136.73	2	4,795.71	2	4,457.45	2	4,100.67	2	3,738.12	2	3,375.57	2	3,013.02	2	2,650.47	2	2,287.82
		1/4	5,130.39	1/4	4,788.88	1/4	4,450.21	1/4	4,093.12	1/4	3,730.57	1/4	3,368.02	1/4	3,005.47	1/4	2,642.92	1/4	2,280.27
		1/2	5,123.08	1/2	4,782.02	1/2	4,442.93	1/2	4,085.56	1/2	3,723.01	1/2	3,360.47	1/2	2,997.92	1/2	2,635.37	1/2	2,272.71
		3/4	5,115.76	3/4	4,775.16	3/4	4,435.66	3/4	4,078.01	3/4	3,715.46	3/4	3,352.91	3/4	2,990.36	3/4	2,627.81	3/4	2,265.15
3	3	3	5,108.44	3	4,768.30	3	4,428.39	3	4,070.46	3	3,707.91	3	3,345.36	3	2,982.81	3	2,620.26	3	2,257.60
		1/4	5,101.12	1/4	4,761.44	1/4	4,421.11	1/4	4,062.90	1/4	3,700.35	1/4	3,337.81	1/4	2,975.26	1/4	2,612.71	1/4	2,250.04
		1/2	5,093.67	1/2	4,754.54	1/2	4,413.81	1/2	4,055.35	1/2	3,692.80	1/2	3,330.25	1/2	2,967.70	1/2	2,605.16	1/2	2,242.49
		3/4	5,086.21	3/4	4,747.65	3/4	4,406.50	3/4	4,047.80	3/4	3,685.25	3/4	3,322.70	3/4	2,960.15	3/4	2,597.60	3/4	2,234.93
4	4	4	5,078.76	4	4,740.75	4	4,399.20	4	4,040.24	4	3,677.70	4	3,315.15	4	2,952.60	4	2,590.05	4	2,227.37
		1/4	5,071.30	1/4	4,733.86	1/4	4,391.89	1/4	4,032.69	1/4	3,670.14	1/4	3,307.59	1/4	2,945.04	1/4	2,582.50	1/4	2,219.82
		1/2	5,063.85	1/2	4,726.93	1/2	4,384.55	1/2	4,025.14	1/2	3,662.59	1/2	3,300.04	1/2	2,937.49	1/2	2,574.94	1/2	2,212.26
		3/4	5,056.39	3/4	4,720.00	3/4	4,377.21	3/4	4,017.59	3/4	3,655.04	3/4	3,292.49	3/4	2,929.94	3/4	2,567.39	3/4	2,204.71
5	5	5	5,048.94	5	4,713.07	5	4,369.88	5	4,010.03	5	3,647.48	5	3,284.93	5	2,922.39	5	2,559.83	5	2,197.15
		1/4	5,041.48	1/4	4,706.14	1/4	4,362.54	1/4	4,002.48	1/4	3,639.93	1/4	3,277.38	1/4	2,914.83	1/4	2,552.28	1/4	2,189.59
		1/2	5,034.03	1/2	4,699.19	1/2	4,355.16	1/2	3,994.93	1/2	3,632.38	1/2	3,269.83	1/2	2,907.28	1/2	2,544.72	1/2	2,182.04
		3/4	5,026.57	3/4	4,692.23	3/4	4,347.79	3/4	3,987.37	3/4	3,624.82	3/4	3,262.27	3/4	2,899.73	3/4	2,537.17	3/4	2,174.48
6	6	6	5,019.12	6	4,685.27	6	4,340.42	6	3,979.82	6	3,617.27	6	3,254.72	6	2,892.17	6	2,529.61	6	2,166.93
		1/4	5,011.66	1/4	4,678.31	1/4	4,333.05	1/4	3,972.27	1/4	3,609.72	1/4	3,247.17	1/4	2,884.62	1/4	2,522.05	1/4	2,159.37
		1/2	5,004.21	1/2	4,671.32	1/2	4,325.64	1/2	3,964.71	1/2	3,602.16	1/2	3,239.62	1/2	2,877.07	1/2	2,514.50	1/2	2,151.81
		3/4	4,996.75	3/4	4,664.32	3/4	4,318.24	3/4	3,957.16	3/4	3,594.61	3/4	3,232.06	3/4	2,869.51	3/4	2,506.94	3/4	2,144.26
7	7	7	4,989.30	7	4,657.33	7	4,310.84	7	3,949.61	7	3,587.06	7	3,224.51	7	2,861.96	7	2,499.39	7	2,136.70
		1/4	4,981.84	1/4	4,650.34	1/4	4,303.44	1/4	3,942.05	1/4	3,579.51	1/4	3,216.96	1/4	2,854.41	1/4	2,491.83	1/4	2,129.15
		1/2	4,974.44	1/2	4,643.29	1/2	4,296.00	1/2	3,934.50	1/2	3,571.95	1/2	3,209.40	1/2	2,846.85	1/2	2,484.27	1/2	2,121.59
		3/4	4,967.04	3/4	4,636.23	3/4	4,288.57	3/4	3,926.95	3/4	3,564.40	3/4	3,201.85	3/4	2,839.30	3/4	2,476.72	3/4	2,114.04
8	8	8	4,959.64	8	4,629.18	8	4,281.14	8	3,919.39	8	3,556.85	8	3,194.30	8	2,831.75	8	2,469.16	8	2,106.48
		1/4	4,952.24	1/4	4,622.13	1/4	4,273.71	1/4	3,911.84	1/4	3,549.29	1/4	3,186.74	1/4	2,824.20	1/4	2,461.61	1/4	2,098.92
		1/2	4,945.24	1/2	4,615.04	1/2	4,266.24	1/2	3,904.29	1/2	3,541.74	1/2	3,179.19	1/2	2,816.64	1/2	2,454.05	1/2	2,091.37
		3/4	4,938.25	3/4	4,607.96	3/4	4,258.78	3/4	3,896.74	3/4	3,534.19	3/4	3,171.64	3/4	2,809.09	3/4	2,446.49	3/4	2,083.81
9	9	9	4,931.26	9	4,600.87	9	4,251.32	9	3,889.18	9	3,526.63	9	3,164.08	9	2,801.54	9	2,438.94	9	2,076.26
		1/4	4,924.26	1/4	4,593.78	1/4	4,243.85	1/4	3,881.63	1/4	3,519.08	1/4	3,156.53	1/4	2,793.98	1/4	2,431.38	1/4	2,068.70
		1/2	4,917.56	1/2	4,586.67	1/2	4,236.35	1/2	3,874.08	1/2	3,511.53	1/2	3,148.98	1/2	2,786.43	1/2	2,423.83	1/2	2,061.14
		3/4	4,910.85	3/4	4,579.55	3/4	4,228.86	3/4	3,866.52	3/4	3,503.97	3/4	3,141.43	3/4	2,778.88	3/4	2,416.27	3/4	2,053.59
10	10	10	4,904.15	10	4,572.44	10	4,221.36	10	3,858.97	10	3,496.42	10	3,133.87	10	2,771.32	10	2,408.72	10	2,046.03
		1/4	4,897.44	1/4	4,565.32	1/4	4,213.86	1/4	3,851.42	1/4	3,488.87	1/4	3,126.32	1/4	2,763.77	1/4	2,401.16	1/4	2,038.48
		1/2	4,890.71	1/2	4,558.17	1/2	4,206.33	1/2	3,843.86	1/2	3,481.31	1/2	3,118.77	1/2	2,756.22	1/2	2,393.60	1/2	2,030.92
		3/4	4,883.97	3/4	4,551.03	3/4	4,198.80	3/4	3,836.31	3/4	3,473.76	3/4	3,111.21	3/4	2,748.66	3/4	2,386.05	3/4	2,023.36
11	11	11	4,877.23	11	4,543.88	11	4,191.27	11	3,828.76	11	3,466.21	11	3,103.66	11	2,741.11	11	2,378.49	11	2,015.81
		1/4	4,870.49	1/4	4,536.74	1/4	4,183.74	1/4	3,821.20	1/4	3,458.66	1/4	3,096.11	1/4	2,733.56	1/4	2,370.94	1/4	2,008.25
		1/2	4,863.72	1/2	4,529.56	1/2	4,176.19	1/2	3,813.65	1/2	3,451.10	1/2	3,088.55	1/2	2,726.00	1/2	2,363.38	1/2	2,000.70
		3/4	4,856.95	3/4	4,522.38	3/4	4,168.64	3/4	3,806.10	3/4	3,443.55	3/4	3,081.00	3/4	2,718.45	3/4	2,355.82	3/4	1,993.14

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" DIAMETER "HERMETIC" VALVE.
 GAUGE POINT: (HERMETIC) LOCATED 10'-06" OFF CENTERLINE AND 42'-03" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



BARGE "EMS 517"

1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08 1/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	1,985.59	0	1,622.90	0	1,260.22	0	897.97	0	535.35	0	198.03	0		0		0		0	
1/4	1,978.03	1/4	1,615.35	1/4	1,252.66	1/4	890.43	1/4	527.80	1/4	191.61	1/4		1/4		1/4		1/4	
1/2	1,970.47	1/2	1,607.79	1/2	1,245.11	1/2	882.88	1/2	520.25	1/2	185.28	1/2		1/2		1/2		1/2	
3/4	1,962.92	3/4	1,600.23	3/4	1,237.55	3/4	875.34	3/4	512.70	3/4	178.96	3/4		3/4		3/4		3/4	
1	1,955.36	1	1,592.68	1	1,230.00	1	867.79	1	505.15	1	172.64	1		1		1		1	
1/4	1,947.81	1/4	1,585.12	1/4	1,222.44	1/4	860.24	1/4	497.60	1/4	166.31	1/4		1/4		1/4		1/4	
1/2	1,940.25	1/2	1,577.57	1/2	1,214.88	1/2	852.69	1/2	490.09	1/2	160.07	1/2		1/2		1/2		1/2	
3/4	1,932.69	3/4	1,570.01	3/4	1,207.33	3/4	845.13	3/4	482.59	3/4	153.82	3/4		3/4		3/4		3/4	
2	1,925.14	2	1,562.45	2	1,199.77	2	837.58	2	475.09	2	147.58	2		2		2		2	
1/4	1,917.58	1/4	1,554.90	1/4	1,192.22	1/4	830.02	1/4	467.58	1/4	141.33	1/4		1/4		1/4		1/4	
1/2	1,910.03	1/2	1,547.34	1/2	1,184.66	1/2	822.47	1/2	460.17	1/2	135.06	1/2		1/2		1/2		1/2	
3/4	1,902.47	3/4	1,539.79	3/4	1,177.11	3/4	814.91	3/4	452.75	3/4	128.79	3/4		3/4		3/4		3/4	
3	1,894.91	3	1,532.23	3	1,169.55	3	807.36	3	445.34	3	122.53	3		3		3		3	
1/4	1,887.36	1/4	1,524.68	1/4	1,162.00	1/4	799.80	1/4	437.93	1/4	116.26	1/4		1/4		1/4		1/4	
1/2	1,879.80	1/2	1,517.12	1/2	1,154.46	1/2	792.24	1/2	430.61	1/2	110.09	1/2		1/2		1/2		1/2	
3/4	1,872.25	3/4	1,509.56	3/4	1,146.91	3/4	784.69	3/4	423.29	3/4	103.91	3/4		3/4		3/4		3/4	
4	1,864.69	4	1,502.01	4	1,139.37	4	777.13	4	415.97	4	97.74	4		4		4		4	
1/4	1,857.13	1/4	1,494.45	1/4	1,131.82	1/4	769.58	1/4	408.65	1/4	91.56	1/4		1/4		1/4		1/4	
1/2	1,849.58	1/2	1,486.90	1/2	1,124.28	1/2	762.02	1/2	401.42	1/2	85.56	1/2		1/2		1/2		1/2	
3/4	1,842.02	3/4	1,479.34	3/4	1,116.74	3/4	754.47	3/4	394.20	3/4	79.56	3/4		3/4		3/4		3/4	
5	1,834.47	5	1,471.78	5	1,109.19	5	746.91	5	386.97	5	73.56	5		5		5		5	
1/4	1,826.91	1/4	1,464.23	1/4	1,101.65	1/4	739.36	1/4	379.74	1/4	67.56	1/4		1/4		1/4		1/4	
1/2	1,819.36	1/2	1,456.67	1/2	1,094.11	1/2	731.80	1/2	372.63	1/2	62.37	1/2		1/2		1/2		1/2	
3/4	1,811.80	3/4	1,449.12	3/4	1,086.56	3/4	724.24	3/4	365.52	3/4	57.17	3/4		3/4		3/4		3/4	
6	1,804.24	6	1,441.56	6	1,079.02	6	716.69	6	358.41	6	51.97	6		6		6		6	
1/4	1,796.69	1/4	1,434.00	1/4	1,071.48	1/4	709.13	1/4	351.29	1/4	46.77	1/4		1/4		1/4		1/4	
1/2	1,789.13	1/2	1,426.45	1/2	1,063.93	1/2	701.58	1/2	344.40	1/2	42.93	1/2		1/2		1/2		1/2	
3/4	1,781.58	3/4	1,418.89	3/4	1,056.39	3/4	694.02	3/4	337.51	3/4	39.09	3/4		3/4		3/4		3/4	
7	1,774.02	7	1,411.34	7	1,048.84	7	686.47	7	330.63	7	35.24	7		7		7		7	
1/4	1,766.46	1/4	1,403.78	1/4	1,041.30	1/4	678.91	1/4	323.74	1/4	31.40	1/4		1/4		1/4		1/4	
1/2	1,758.91	1/2	1,396.22	1/2	1,033.76	1/2	671.35	1/2	316.94	1/2	28.71	1/2		1/2		1/2		1/2	
3/4	1,751.35	3/4	1,388.67	3/4	1,026.21	3/4	663.80	3/4	310.15	3/4	26.01	3/4		3/4		3/4		3/4	
8	1,743.80	8	1,381.11	8	1,018.67	8	656.24	8	303.35	8	23.32	8		8		8		8	
1/4	1,736.24	1/4	1,373.56	1/4	1,011.13	1/4	648.69	1/4	296.56	1/4	20.63	1/4		1/4		1/4		1/4	
1/2	1,728.68	1/2	1,366.00	1/2	1,003.58	1/2	641.13	1/2	289.86	1/2		1/2		1/2		1/2		1/2	
3/4	1,721.13	3/4	1,358.45	3/4	996.04	3/4	633.58	3/4	283.15	3/4		3/4		3/4		3/4		3/4	
9	1,713.57	9	1,350.89	9	988.49	9	626.02	9	276.45	9		9		9		9		9	
1/4	1,706.02	1/4	1,343.33	1/4	980.95	1/4	618.47	1/4	269.75	1/4		1/4		1/4		1/4		1/4	
1/2	1,698.46	1/2	1,335.78	1/2	973.41	1/2	610.91	1/2	263.15	1/2		1/2		1/2		1/2		1/2	
3/4	1,690.90	3/4	1,328.22	3/4	965.86	3/4	603.35	3/4	256.54	3/4		3/4		3/4		3/4		3/4	
10	1,683.35	10	1,320.67	10	958.32	10	595.80	10	249.93	10		10		10		10		10	
1/4	1,675.79	1/4	1,313.11	1/4	950.78	1/4	588.24	1/4	243.33	1/4		1/4		1/4		1/4		1/4	
1/2	1,668.24	1/2	1,305.55	1/2	943.23	1/2	580.69	1/2	236.82	1/2		1/2		1/2		1/2		1/2	
3/4	1,660.68	3/4	1,298.00	3/4	935.69	3/4	573.13	3/4	230.30	3/4		3/4		3/4		3/4		3/4	
11	1,653.13	11	1,290.44	11	928.14	11	565.58	11	223.79	11		11		11		11		11	
1/4	1,645.57	1/4	1,282.89	1/4	920.60	1/4	558.02	1/4	217.28	1/4		1/4		1/4		1/4		1/4	
1/2	1,638.01	1/2	1,275.33	1/2	913.06	1/2	550.47	1/2	210.86	1/2		1/2		1/2		1/2		1/2	
3/4	1,630.46	3/4	1,267.77	3/4	905.51	3/4	542.91	3/4	204.44	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 04/23/2020 CL
CALCULATED: 04/26/2020 CL
PRINTED: 04/28/2020 CL

PRECISION MEASUREMENT
& ANALYSIS, INC.

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



CANCELS AND SUPERCEDES
ALL PRIOR TO 04/2020



BARGE "EMS 517"

1 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08 3/4"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT
0		0		0	4,867.24	0	4,532.67	0	4,178.90	0	3,815.95	0	3,452.99	0	3,090.03	0	2,727.07	0	2,364.24
1/4		1/4		1/4	4,860.46	1/4	4,525.48	1/4	4,171.34	1/4	3,808.39	1/4	3,445.43	1/4	3,082.47	1/4	2,719.51	1/4	2,356.68
1/2		1/2		1/2	4,853.68	1/2	4,518.30	1/2	4,163.79	1/2	3,800.83	1/2	3,437.87	1/2	3,074.91	1/2	2,711.95	1/2	2,349.11
3/4		3/4	5,180.09	3/4	4,846.90	3/4	4,511.11	3/4	4,156.23	3/4	3,793.27	3/4	3,430.31	3/4	3,067.35	3/4	2,704.39	3/4	2,341.55
1		1	5,174.97	1	4,840.09	1	4,503.89	1	4,148.67	1	3,785.71	1	3,422.75	1	3,059.78	1	2,696.84	1	2,333.98
1/4		1/4	5,169.84	1/4	4,833.28	1/4	4,496.67	1/4	4,141.11	1/4	3,778.15	1/4	3,415.18	1/4	3,052.22	1/4	2,689.29	1/4	2,326.42
1/2		1/2	5,164.72	1/2	4,826.47	1/2	4,489.46	1/2	4,133.55	1/2	3,770.58	1/2	3,407.62	1/2	3,044.66	1/2	2,681.74	1/2	2,318.86
3/4		3/4	5,159.59	3/4	4,819.67	3/4	4,482.24	3/4	4,125.98	3/4	3,763.02	3/4	3,400.06	3/4	3,037.10	3/4	2,674.19	3/4	2,311.29
2		2	5,153.25	2	4,812.83	2	4,474.98	2	4,118.42	2	3,755.46	2	3,392.50	2	3,029.54	2	2,666.64	2	2,303.73
1/4		1/4	5,146.91	1/4	4,805.99	1/4	4,467.73	1/4	4,110.86	1/4	3,747.90	1/4	3,384.94	1/4	3,021.98	1/4	2,659.09	1/4	2,296.16
1/2		1/2	5,140.57	1/2	4,799.15	1/2	4,460.48	1/2	4,103.30	1/2	3,740.34	1/2	3,377.38	1/2	3,014.41	1/2	2,651.55	1/2	2,288.60
3/4		3/4	5,134.23	3/4	4,792.31	3/4	4,453.22	3/4	4,095.74	3/4	3,732.78	3/4	3,369.81	3/4	3,006.85	3/4	2,644.00	3/4	2,281.03
3		3	5,126.90	3	4,785.44	3	4,445.94	3	4,088.18	3	3,725.21	3	3,362.25	3	2,999.29	3	2,636.45	3	2,273.47
1/4		1/4	5,119.58	1/4	4,778.57	1/4	4,438.66	1/4	4,080.61	1/4	3,717.65	1/4	3,354.69	1/4	2,991.73	1/4	2,628.90	1/4	2,265.90
1/2		1/2	5,112.25	1/2	4,771.70	1/2	4,431.38	1/2	4,073.05	1/2	3,710.09	1/2	3,347.13	1/2	2,984.17	1/2	2,621.35	1/2	2,258.34
3/4		3/4	5,104.92	3/4	4,764.83	3/4	4,424.09	3/4	4,065.49	3/4	3,702.53	3/4	3,339.57	3/4	2,976.61	3/4	2,613.80	3/4	2,250.78
4		4	5,097.46	4	4,757.93	4	4,416.78	4	4,057.93	4	3,694.97	4	3,332.01	4	2,969.04	4	2,606.25	4	2,243.21
1/4		1/4	5,090.00	1/4	4,751.02	1/4	4,409.47	1/4	4,050.37	1/4	3,687.41	1/4	3,324.44	1/4	2,961.48	1/4	2,598.70	1/4	2,235.65
1/2		1/2	5,082.53	1/2	4,744.12	1/2	4,402.15	1/2	4,042.81	1/2	3,679.84	1/2	3,316.88	1/2	2,953.92	1/2	2,591.15	1/2	2,228.08
3/4		3/4	5,075.07	3/4	4,737.22	3/4	4,394.84	3/4	4,035.24	3/4	3,672.28	3/4	3,309.32	3/4	2,946.36	3/4	2,583.59	3/4	2,220.52
5		5	5,067.61	5	4,730.28	5	4,387.49	5	4,027.68	5	3,664.72	5	3,301.76	5	2,938.80	5	2,576.03	5	2,212.95
1/4		1/4	5,060.14	1/4	4,723.34	1/4	4,380.15	1/4	4,020.12	1/4	3,657.16	1/4	3,294.20	1/4	2,931.24	1/4	2,568.47	1/4	2,205.39
1/2		1/2	5,052.68	1/2	4,716.40	1/2	4,372.80	1/2	4,012.56	1/2	3,649.60	1/2	3,286.64	1/2	2,923.67	1/2	2,560.92	1/2	2,197.82
3/4		3/4	5,045.22	3/4	4,709.47	3/4	4,365.45	3/4	4,005.00	3/4	3,642.04	3/4	3,279.07	3/4	2,916.11	3/4	2,553.36	3/4	2,190.26
6		6	5,037.75	6	4,702.50	6	4,358.07	6	3,997.44	6	3,634.47	6	3,271.51	6	2,908.55	6	2,545.79	6	2,182.69
1/4		1/4	5,030.29	1/4	4,695.53	1/4	4,350.69	1/4	3,989.87	1/4	3,626.91	1/4	3,263.95	1/4	2,900.99	1/4	2,538.23	1/4	2,175.13
1/2		1/2	5,022.83	1/2	4,688.57	1/2	4,343.31	1/2	3,982.31	1/2	3,619.35	1/2	3,256.39	1/2	2,893.43	1/2	2,530.66	1/2	2,167.57
3/4		3/4	5,015.36	3/4	4,681.60	3/4	4,335.93	3/4	3,974.75	3/4	3,611.79	3/4	3,248.83	3/4	2,885.87	3/4	2,523.10	3/4	2,160.00
7		7	5,007.90	7	4,674.60	7	4,328.52	7	3,967.19	7	3,604.23	7	3,241.27	7	2,878.30	7	2,515.53	7	2,152.44
1/4		1/4	5,000.44	1/4	4,667.60	1/4	4,321.10	1/4	3,959.63	1/4	3,596.66	1/4	3,233.70	1/4	2,870.74	1/4	2,507.97	1/4	2,144.87
1/2		1/2	4,992.97	1/2	4,660.59	1/2	4,313.69	1/2	3,952.06	1/2	3,589.10	1/2	3,226.14	1/2	2,863.18	1/2	2,500.40	1/2	2,137.31
3/4		3/4	4,985.51	3/4	4,653.59	3/4	4,306.28	3/4	3,944.50	3/4	3,581.54	3/4	3,218.58	3/4	2,855.62	3/4	2,492.84	3/4	2,129.74
8		8	4,978.10	8	4,646.53	8	4,298.84	8	3,936.94	8	3,573.98	8	3,211.02	8	2,848.06	8	2,485.27	8	2,122.18
1/4		1/4	4,970.69	1/4	4,639.47	1/4	4,291.40	1/4	3,929.38	1/4	3,566.42	1/4	3,203.46	1/4	2,840.49	1/4	2,477.71	1/4	2,114.61
1/2		1/2	4,963.28	1/2	4,632.41	1/2	4,283.96	1/2	3,921.82	1/2	3,558.86	1/2	3,195.89	1/2	2,832.93	1/2	2,470.15	1/2	2,107.05
3/4		3/4	4,955.87	3/4	4,625.35	3/4	4,276.52	3/4	3,914.26	3/4	3,551.29	3/4	3,188.33	3/4	2,825.37	3/4	2,462.58	3/4	2,099.49
9		9	4,948.86	9	4,618.25	9	4,269.05	9	3,906.69	9	3,543.73	9	3,180.77	9	2,817.81	9	2,455.02	9	2,091.92
1/4		1/4	4,941.86	1/4	4,611.16	1/4	4,261.57	1/4	3,899.13	1/4	3,536.17	1/4	3,173.21	1/4	2,810.25	1/4	2,447.45	1/4	2,084.36
1/2		1/2	4,934.86	1/2	4,604.07	1/2	4,254.10	1/2	3,891.57	1/2	3,528.61	1/2	3,165.65	1/2	2,802.69	1/2	2,439.89	1/2	2,076.79
3/4		3/4	4,927.86	3/4	4,596.97	3/4	4,246.63	3/4	3,884.01	3/4	3,521.05	3/4	3,158.09	3/4	2,795.12	3/4	2,432.32	3/4	2,069.23
10		10	4,921.15	10	4,589.85	10	4,239.12	10	3,876.45	10	3,513.49	10	3,150.52	10	2,787.56	10	2,424.76	10	2,061.66
1/4		1/4	4,914.43	1/4	4,582.72	1/4	4,231.62	1/4	3,868.89	1/4	3,505.92	1/4	3,142.96	1/4	2,780.00	1/4	2,417.19	1/4	2,054.10
1/2		1/2	4,907.72	1/2	4,575.60	1/2	4,224.11	1/2	3,861.32	1/2	3,498.36	1/2	3,135.40	1/2	2,772.44	1/2	2,409.63	1/2	2,046.53
3/4		3/4	4,901.01	3/4	4,568.47	3/4	4,216.61	3/4	3,853.76	3/4	3,490.80	3/4	3,127.84	3/4	2,764.88	3/4	2,402.07	3/4	2,038.97
11		11	4,894.26	11	4,561.32	11	4,209.07	11	3,846.20	11	3,483.24	11	3,120.28	11	2,757.32	11	2,394.50	11	2,031.40
1/4		1/4	4,887.51	1/4	4,554.16	1/4	4,201.53	1/4	3,838.64	1/4	3,475.68	1/4	3,112.72	1/4	2,749.75	1/4	2,386.94	1/4	2,023.84
1/2		1/2	4,880.76	1/2	4,547.01	1/2	4,193.99	1/2	3,831.08	1/2	3,468.12	1/2	3,105.15	1/2	2,742.19	1/2	2,379.37	1/2	2,016.28
3/4		3/4	4,874.02	3/4	4,539.85	3/4	4,186.45	3/4	3,823.52	3/4	3,460.55	3/4	3,097.59	3/4	2,734.63	3/4	2,371.81	3/4	2,008.71

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" DIAMETER "HERMETIC" VALVE.
 GAUGE POINT: (HERMETIC) LOCATED 10'-06" OFF CENTERLINE AND 42'-03" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



BARGE "EMS 517"

1 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08 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	2,001.15	0	1,638.05	0	1,274.95	0	913.75	0	551.17	0	211.15	0		0		0		0	
1/4	1,993.58	1/4	1,630.49	1/4	1,267.39	1/4	906.24	1/4	543.60	1/4	204.73	1/4		1/4		1/4		1/4	
1/2	1,986.02	1/2	1,622.92	1/2	1,259.83	1/2	898.73	1/2	536.04	1/2	198.30	1/2		1/2		1/2		1/2	
3/4	1,978.45	3/4	1,615.36	3/4	1,252.26	3/4	891.21	3/4	528.47	3/4	191.87	3/4		3/4		3/4		3/4	
1	1,970.89	1	1,607.79	1	1,244.70	1	883.70	1	520.91	1	185.54	1		1		1		1	
1/4	1,963.32	1/4	1,600.23	1/4	1,237.13	1/4	876.19	1/4	513.36	1/4	179.21	1/4		1/4		1/4		1/4	
1/2	1,955.76	1/2	1,592.66	1/2	1,229.57	1/2	868.67	1/2	505.80	1/2	172.88	1/2		1/2		1/2		1/2	
3/4	1,948.20	3/4	1,585.10	3/4	1,222.00	3/4	861.16	3/4	498.24	3/4	166.55	3/4		3/4		3/4		3/4	
2	1,940.63	2	1,577.53	2	1,214.44	2	853.63	2	490.73	2	160.29	2		2		2		2	
1/4	1,933.07	1/4	1,569.97	1/4	1,206.88	1/4	846.10	1/4	483.21	1/4	154.04	1/4		1/4		1/4		1/4	
1/2	1,925.50	1/2	1,562.41	1/2	1,199.32	1/2	838.57	1/2	475.70	1/2	147.78	1/2		1/2		1/2		1/2	
3/4	1,917.94	3/4	1,554.84	3/4	1,191.77	3/4	831.04	3/4	468.19	3/4	141.53	3/4		3/4		3/4		3/4	
3	1,910.37	3	1,547.28	3	1,184.24	3	823.47	3	460.77	3	135.25	3		3		3		3	
1/4	1,902.81	1/4	1,539.71	1/4	1,176.72	1/4	815.91	1/4	453.34	1/4	128.97	1/4		1/4		1/4		1/4	
1/2	1,895.24	1/2	1,532.15	1/2	1,169.19	1/2	808.34	1/2	445.92	1/2	122.70	1/2		1/2		1/2		1/2	
3/4	1,887.68	3/4	1,524.58	3/4	1,161.67	3/4	800.78	3/4	438.50	3/4	116.42	3/4		3/4		3/4		3/4	
4	1,880.11	4	1,517.02	4	1,154.16	4	793.22	4	431.17	4	110.24	4		4		4		4	
1/4	1,872.55	1/4	1,509.45	1/4	1,146.65	1/4	785.65	1/4	423.84	1/4	104.06	1/4		1/4		1/4		1/4	
1/2	1,864.99	1/2	1,501.89	1/2	1,139.13	1/2	778.09	1/2	416.51	1/2	97.88	1/2		1/2		1/2		1/2	
3/4	1,857.42	3/4	1,494.33	3/4	1,131.62	3/4	770.52	3/4	409.19	3/4	91.69	3/4		3/4		3/4		3/4	
5	1,849.86	5	1,486.76	5	1,124.11	5	762.96	5	401.95	5	85.68	5		5		5		5	
1/4	1,842.29	1/4	1,479.20	1/4	1,116.60	1/4	755.40	1/4	394.72	1/4	79.68	1/4		1/4		1/4		1/4	
1/2	1,834.73	1/2	1,471.63	1/2	1,109.08	1/2	747.83	1/2	387.48	1/2	73.67	1/2		1/2		1/2		1/2	
3/4	1,827.16	3/4	1,464.07	3/4	1,101.57	3/4	740.27	3/4	380.25	3/4	67.66	3/4		3/4		3/4		3/4	
6	1,819.60	6	1,456.50	6	1,094.06	6	732.70	6	373.13	6	62.45	6		6		6		6	
1/4	1,812.03	1/4	1,448.94	1/4	1,086.54	1/4	725.14	1/4	366.01	1/4	57.25	1/4		1/4		1/4		1/4	
1/2	1,804.47	1/2	1,441.37	1/2	1,079.03	1/2	717.58	1/2	358.88	1/2	52.04	1/2		1/2		1/2		1/2	
3/4	1,796.91	3/4	1,433.81	3/4	1,071.52	3/4	710.01	3/4	351.76	3/4	46.84	3/4		3/4		3/4		3/4	
7	1,789.34	7	1,426.24	7	1,064.01	7	702.45	7	344.87	7	42.99	7		7		7		7	
1/4	1,781.78	1/4	1,418.68	1/4	1,056.49	1/4	694.88	1/4	337.97	1/4	39.14	1/4		1/4		1/4		1/4	
1/2	1,774.21	1/2	1,411.12	1/2	1,048.98	1/2	687.32	1/2	331.07	1/2	35.29	1/2		1/2		1/2		1/2	
3/4	1,766.65	3/4	1,403.55	3/4	1,041.47	3/4	679.76	3/4	324.17	3/4	31.44	3/4		3/4		3/4		3/4	
8	1,759.08	8	1,395.99	8	1,033.96	8	672.19	8	317.37	8	28.74	8		8		8		8	
1/4	1,751.52	1/4	1,388.42	1/4	1,026.44	1/4	664.63	1/4	310.56	1/4	26.04	1/4		1/4		1/4		1/4	
1/2	1,743.95	1/2	1,380.86	1/2	1,018.93	1/2	657.06	1/2	303.76	1/2	23.35	1/2		1/2		1/2		1/2	
3/4	1,736.39	3/4	1,373.29	3/4	1,011.42	3/4	649.50	3/4	296.96	3/4	20.65	3/4		3/4		3/4		3/4	
9	1,728.82	9	1,365.73	9	1,003.90	9	641.93	9	290.25	9		9		9		9		9	
1/4	1,721.26	1/4	1,358.16	1/4	996.39	1/4	634.37	1/4	283.54	1/4		1/4		1/4		1/4		1/4	
1/2	1,713.70	1/2	1,350.60	1/2	988.88	1/2	626.81	1/2	276.83	1/2		1/2		1/2		1/2		1/2	
3/4	1,706.13	3/4	1,343.04	3/4	981.37	3/4	619.24	3/4	270.12	3/4		3/4		3/4		3/4		3/4	
10	1,698.57	10	1,335.47	10	973.85	10	611.68	10	263.51	10		10		10		10		10	
1/4	1,691.00	1/4	1,327.91	1/4	966.34	1/4	604.11	1/4	256.89	1/4		1/4		1/4		1/4		1/4	
1/2	1,683.44	1/2	1,320.34	1/2	958.83	1/2	596.55	1/2	250.28	1/2		1/2		1/2		1/2		1/2	
3/4	1,675.87	3/4	1,312.78	3/4	951.32	3/4	588.99	3/4	243.66	3/4		3/4		3/4		3/4		3/4	
11	1,668.31	11	1,305.21	11	943.80	11	581.42	11	237.14	11		11		11		11		11	
1/4	1,660.74	1/4	1,297.65	1/4	936.29	1/4	573.86	1/4	230.62	1/4		1/4		1/4		1/4		1/4	
1/2	1,653.18	1/2	1,290.08	1/2	928.78	1/2	566.29	1/2	224.10	1/2		1/2		1/2		1/2		1/2	
3/4	1,645.62	3/4	1,282.52	3/4	921.27	3/4	558.73	3/4	217.58	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 04/23/2020 CL
CALCULATED: 04/26/2020 CL
PRINTED: 04/28/2020 CL

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



CANCELS AND SUPERCEDES
ALL PRIOR TO 04/2020



BARGE "EMS 517"

2 PORT ULLAGE 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.	
IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT
0		0		0	4,919.59	0	4,585.38	0	4,232.04	0	3,869.90	0	3,507.75	0	3,145.60	0	2,783.45	0	2,421.21
1/4		1/4		1/4	4,912.83	1/4	4,578.21	1/4	4,224.50	1/4	3,862.35	1/4	3,500.20	1/4	3,138.05	1/4	2,775.90	1/4	2,413.66
1/2		1/2	5,238.48	1/2	4,906.06	1/2	4,571.04	1/2	4,216.96	1/2	3,854.81	1/2	3,492.66	1/2	3,130.51	1/2	2,768.36	1/2	2,406.12
3/4		3/4	5,233.37	3/4	4,899.27	3/4	4,563.84	3/4	4,209.41	3/4	3,847.26	3/4	3,485.11	3/4	3,122.96	3/4	2,760.81	3/4	2,398.57
1		1	5,228.26	1	4,892.48	1	4,556.64	1	4,201.87	1	3,839.72	1	3,477.57	1	3,115.42	1	2,753.27	1	2,391.02
1/4		1/4	5,223.14	1/4	4,885.68	1/4	4,549.44	1/4	4,194.32	1/4	3,832.17	1/4	3,470.02	1/4	3,107.87	1/4	2,745.72	1/4	2,383.47
1/2		1/2	5,218.03	1/2	4,878.89	1/2	4,542.23	1/2	4,186.78	1/2	3,824.63	1/2	3,462.48	1/2	3,100.33	1/2	2,738.18	1/2	2,375.93
3/4		3/4	5,211.70	3/4	4,872.07	3/4	4,535.00	3/4	4,179.23	3/4	3,817.08	3/4	3,454.93	3/4	3,092.78	3/4	2,730.63	3/4	2,368.38
2		2	5,205.38	2	4,865.24	2	4,527.76	2	4,171.69	2	3,809.54	2	3,447.39	2	3,085.24	2	2,723.09	2	2,360.83
1/4		1/4	5,199.05	1/4	4,858.42	1/4	4,520.52	1/4	4,164.14	1/4	3,801.99	1/4	3,439.84	1/4	3,077.69	1/4	2,715.54	1/4	2,353.28
1/2		1/2	5,192.73	1/2	4,851.60	1/2	4,513.29	1/2	4,156.60	1/2	3,794.45	1/2	3,432.30	1/2	3,070.15	1/2	2,708.00	1/2	2,345.74
3/4		3/4	5,185.42	3/4	4,844.74	3/4	4,506.02	3/4	4,149.05	3/4	3,786.90	3/4	3,424.75	3/4	3,062.60	3/4	2,700.45	3/4	2,338.19
3		3	5,178.11	3	4,837.89	3	4,498.75	3	4,141.51	3	3,779.36	3	3,417.21	3	3,055.06	3	2,692.91	3	2,330.64
1/4		1/4	5,170.80	1/4	4,831.04	1/4	4,491.49	1/4	4,133.96	1/4	3,771.81	1/4	3,409.66	1/4	3,047.51	1/4	2,685.36	1/4	2,323.09
1/2		1/2	5,163.49	1/2	4,824.18	1/2	4,484.22	1/2	4,126.42	1/2	3,764.27	1/2	3,402.12	1/2	3,039.97	1/2	2,677.82	1/2	2,315.55
3/4		3/4	5,156.04	3/4	4,817.29	3/4	4,476.92	3/4	4,118.87	3/4	3,756.72	3/4	3,394.57	3/4	3,032.42	3/4	2,670.27	3/4	2,308.00
4		4	5,148.60	4	4,810.41	4	4,469.63	4	4,111.33	4	3,749.18	4	3,387.03	4	3,024.88	4	2,662.73	4	2,300.45
1/4		1/4	5,141.15	1/4	4,803.52	1/4	4,462.33	1/4	4,103.79	1/4	3,741.63	1/4	3,379.48	1/4	3,017.33	1/4	2,655.18	1/4	2,292.90
1/2		1/2	5,133.70	1/2	4,796.63	1/2	4,455.03	1/2	4,096.24	1/2	3,734.09	1/2	3,371.94	1/2	3,009.79	1/2	2,647.64	1/2	2,285.36
3/4		3/4	5,126.26	3/4	4,789.71	3/4	4,447.70	3/4	4,088.70	3/4	3,726.55	3/4	3,364.39	3/4	3,002.24	3/4	2,640.09	3/4	2,277.81
5		5	5,118.81	5	4,782.79	5	4,440.37	5	4,081.15	5	3,719.00	5	3,356.85	5	2,994.70	5	2,632.54	5	2,270.26
1/4		1/4	5,111.37	1/4	4,775.87	1/4	4,433.04	1/4	4,073.61	1/4	3,711.46	1/4	3,349.31	1/4	2,987.15	1/4	2,624.99	1/4	2,262.71
1/2		1/2	5,103.92	1/2	4,768.95	1/2	4,425.71	1/2	4,066.06	1/2	3,703.91	1/2	3,341.76	1/2	2,979.61	1/2	2,617.45	1/2	2,255.17
3/4		3/4	5,096.47	3/4	4,762.00	3/4	4,418.35	3/4	4,058.52	3/4	3,696.37	3/4	3,334.22	3/4	2,972.07	3/4	2,609.90	3/4	2,247.62
6		6	5,089.03	6	4,755.04	6	4,410.98	6	4,050.97	6	3,688.82	6	3,326.67	6	2,964.52	6	2,602.35	6	2,240.07
1/4		1/4	5,081.58	1/4	4,748.09	1/4	4,403.62	1/4	4,043.43	1/4	3,681.28	1/4	3,319.13	1/4	2,956.98	1/4	2,594.80	1/4	2,232.52
1/2		1/2	5,074.13	1/2	4,741.14	1/2	4,396.25	1/2	4,035.88	1/2	3,673.73	1/2	3,311.58	1/2	2,949.43	1/2	2,587.26	1/2	2,224.98
3/4		3/4	5,066.69	3/4	4,734.16	3/4	4,388.86	3/4	4,028.34	3/4	3,666.19	3/4	3,304.04	3/4	2,941.89	3/4	2,579.71	3/4	2,217.43
7		7	5,059.24	7	4,727.17	7	4,381.46	7	4,020.79	7	3,658.64	7	3,296.49	7	2,934.34	7	2,572.16	7	2,209.88
1/4		1/4	5,051.80	1/4	4,720.19	1/4	4,374.07	1/4	4,013.25	1/4	3,651.10	1/4	3,288.95	1/4	2,926.80	1/4	2,564.61	1/4	2,202.33
1/2		1/2	5,044.35	1/2	4,713.20	1/2	4,366.68	1/2	4,005.70	1/2	3,643.55	1/2	3,281.40	1/2	2,919.25	1/2	2,557.07	1/2	2,194.79
3/4		3/4	5,036.95	3/4	4,706.16	3/4	4,359.25	3/4	3,998.16	3/4	3,636.01	3/4	3,273.86	3/4	2,911.71	3/4	2,549.52	3/4	2,187.24
8		8	5,029.56	8	4,699.11	8	4,351.83	8	3,990.61	8	3,628.46	8	3,266.31	8	2,904.16	8	2,541.97	8	2,179.69
1/4		1/4	5,022.17	1/4	4,692.07	1/4	4,344.40	1/4	3,983.07	1/4	3,620.92	1/4	3,258.77	1/4	2,896.62	1/4	2,534.42	1/4	2,172.14
1/2		1/2	5,014.77	1/2	4,685.02	1/2	4,336.98	1/2	3,975.52	1/2	3,613.37	1/2	3,251.22	1/2	2,889.07	1/2	2,526.88	1/2	2,164.60
3/4		3/4	5,007.79	3/4	4,677.94	3/4	4,329.52	3/4	3,967.98	3/4	3,605.83	3/4	3,243.68	3/4	2,881.53	3/4	2,519.33	3/4	2,157.05
9		9	5,000.80	9	4,670.86	9	4,322.07	9	3,960.43	9	3,598.28	9	3,236.13	9	2,873.98	9	2,511.78	9	2,149.50
1/4		1/4	4,993.82	1/4	4,663.79	1/4	4,314.61	1/4	3,952.89	1/4	3,590.74	1/4	3,228.59	1/4	2,866.44	1/4	2,504.23	1/4	2,141.95
1/2		1/2	4,986.83	1/2	4,656.71	1/2	4,307.16	1/2	3,945.34	1/2	3,583.19	1/2	3,221.04	1/2	2,858.89	1/2	2,496.69	1/2	2,134.41
3/4		3/4	4,980.13	3/4	4,649.60	3/4	4,299.67	3/4	3,937.80	3/4	3,575.65	3/4	3,213.50	3/4	2,851.35	3/4	2,489.14	3/4	2,126.86
10		10	4,973.44	10	4,642.49	10	4,292.18	10	3,930.25	10	3,568.10	10	3,205.95	10	2,843.80	10	2,481.59	10	2,119.31
1/4		1/4	4,966.74	1/4	4,635.38	1/4	4,284.69	1/4	3,922.71	1/4	3,560.56	1/4	3,198.41	1/4	2,836.26	1/4	2,474.04	1/4	2,111.76
1/2		1/2	4,960.04	1/2	4,628.27	1/2	4,277.20	1/2	3,915.17	1/2	3,553.01	1/2	3,190.86	1/2	2,828.71	1/2	2,466.50	1/2	2,104.22
3/4		3/4	4,953.31	3/4	4,621.14	3/4	4,269.68	3/4	3,907.62	3/4	3,545.47	3/4	3,183.32	3/4	2,821.17	3/4	2,458.95	3/4	2,096.67
11		11	4,946.58	11	4,614.00	11	4,262.16	11	3,900.08	11	3,537.93	11	3,175.77	11	2,813.62	11	2,451.40	11	2,089.12
1/4		1/4	4,939.85	1/4	4,606.86	1/4	4,254.64	1/4	3,892.53	1/4	3,530.38	1/4	3,168.23	1/4	2,806.08	1/4	2,443.85	1/4	2,081.57
1/2		1/2	4,933.11	1/2	4,599.72	1/2	4,247.12	1/2	3,884.99	1/2	3,522.84	1/2	3,160.69	1/2	2,798.53	1/2	2,436.31	1/2	2,074.03
3/4		3/4	4,926.35	3/4	4,592.55	3/4	4,239.58	3/4	3,877.44	3/4	3,515.29	3/4	3,153.14	3/4	2,790.99	3/4	2,428.76	3/4	2,066.48

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" DIAMETER "HERMETIC" VALVE.
 GAUGE POINT: (HERMETIC) LOCATED 10'-06" OFF CENTERLINE AND 42'-03" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



BARGE "EMS 517"

2 PORT ULLAGE 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	2,058.93	0	1,696.65	0	1,334.37	0	972.51	0	610.31	0	251.37	0		0		0		0	
1/4	2,051.38	1/4	1,689.10	1/4	1,326.82	1/4	964.98	1/4	602.76	1/4	243.97	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,043.84	1/2	1,681.56	1/2	1,319.28	1/2	957.44	1/2	595.44	1/2	236.57	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,036.29	3/4	1,674.01	3/4	1,311.73	3/4	949.90	3/4	587.67	3/4	229.17	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	2,028.74	1	1,666.46	1	1,304.18	1	942.36	1	580.12	1	221.77	1	1	1	1	1	1	1	1
1/4	2,021.19	1/4	1,658.91	1/4	1,296.63	1/4	934.83	1/4	572.57	1/4	214.37	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,013.65	1/2	1,651.37	1/2	1,289.09	1/2	927.29	1/2	565.02	1/2	206.97	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,006.10	3/4	1,643.82	3/4	1,281.54	3/4	919.74	3/4	557.48	3/4	199.55	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	1,998.55	2	1,636.27	2	1,273.99	2	912.19	2	549.93	2	192.14	2	2	2	2	2	2	2	2
1/4	1,991.00	1/4	1,628.72	1/4	1,266.44	1/4	904.65	1/4	542.38	1/4	184.72	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,983.46	1/2	1,621.18	1/2	1,258.90	1/2	897.10	1/2	534.83	1/2	177.31	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,975.91	3/4	1,613.63	3/4	1,251.35	3/4	889.55	3/4	527.29	3/4	169.77	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	1,968.36	3	1,606.08	3	1,243.80	3	882.01	3	519.74	3	162.24	3	3	3	3	3	3	3	3
1/4	1,960.81	1/4	1,598.53	1/4	1,236.26	1/4	874.46	1/4	512.19	1/4	154.71	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,953.27	1/2	1,590.99	1/2	1,228.71	1/2	866.91	1/2	504.65	1/2	147.18	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,945.72	3/4	1,583.44	3/4	1,221.18	3/4	859.36	3/4	497.10	3/4	139.64	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	1,938.17	4	1,575.89	4	1,213.64	4	851.82	4	489.55	4	132.11	4	4	4	4	4	4	4	4
1/4	1,930.62	1/4	1,568.34	1/4	1,206.11	1/4	844.27	1/4	482.00	1/4	124.58	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,923.08	1/2	1,560.80	1/2	1,198.57	1/2	836.72	1/2	474.46	1/2	117.05	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,915.53	3/4	1,553.25	3/4	1,191.04	3/4	829.18	3/4	466.91	3/4	109.59	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	1,907.98	5	1,545.70	5	1,183.50	5	821.63	5	459.36	5	102.14	5	5	5	5	5	5	5	5
1/4	1,900.43	1/4	1,538.15	1/4	1,175.96	1/4	814.08	1/4	451.82	1/4	94.68	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,892.89	1/2	1,530.61	1/2	1,168.43	1/2	806.53	1/2	444.27	1/2	87.23	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,885.34	3/4	1,523.06	3/4	1,160.89	3/4	798.99	3/4	436.74	3/4	80.48	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	1,877.79	6	1,515.51	6	1,153.36	6	791.44	6	429.21	6	73.74	6	6	6	6	6	6	6	6
1/4	1,870.24	1/4	1,507.96	1/4	1,145.82	1/4	783.89	1/4	421.68	1/4	66.99	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,862.70	1/2	1,500.42	1/2	1,138.29	1/2	776.35	1/2	414.15	1/2	60.25	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,855.15	3/4	1,492.87	3/4	1,130.75	3/4	768.80	3/4	406.75	3/4	54.76	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	1,847.60	7	1,485.32	7	1,123.22	7	761.25	7	399.35	7	49.27	7	7	7	7	7	7	7	7
1/4	1,840.05	1/4	1,477.77	1/4	1,115.68	1/4	753.70	1/4	391.95	1/4	43.78	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,832.51	1/2	1,470.23	1/2	1,108.15	1/2	746.16	1/2	384.55	1/2	38.30	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,824.96	3/4	1,462.68	3/4	1,100.61	3/4	738.61	3/4	377.15	3/4	34.07	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	1,817.41	8	1,455.13	8	1,093.08	8	731.06	8	369.75	8	29.83	8	8	8	8	8	8	8	8
1/4	1,809.86	1/4	1,447.58	1/4	1,085.54	1/4	723.51	1/4	362.36	1/4	25.60	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,802.32	1/2	1,440.04	1/2	1,078.01	1/2	715.97	1/2	354.96	1/2	21.37	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,794.77	3/4	1,432.49	3/4	1,070.47	3/4	708.42	3/4	347.56	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	1,787.22	9	1,424.94	9	1,062.93	9	700.87	9	340.16	9		9	9	9	9	9	9	9	9
1/4	1,779.67	1/4	1,417.39	1/4	1,055.40	1/4	693.33	1/4	332.76	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,772.13	1/2	1,409.85	1/2	1,047.86	1/2	685.78	1/2	325.36	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,764.58	3/4	1,402.30	3/4	1,040.33	3/4	678.23	3/4	317.96	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	1,757.03	10	1,394.75	10	1,032.79	10	670.68	10	310.56	10		10	10	10	10	10	10	10	10
1/4	1,749.48	1/4	1,387.20	1/4	1,025.26	1/4	663.14	1/4	303.16	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,741.94	1/2	1,379.66	1/2	1,017.72	1/2	655.59	1/2	295.76	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,734.39	3/4	1,372.11	3/4	1,010.19	3/4	648.04	3/4	288.36	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	1,726.84	11	1,364.56	11	1,002.65	11	640.50	11	280.96	11		11	11	11	11	11	11	11	11
1/4	1,719.29	1/4	1,357.01	1/4	995.12	1/4	632.95	1/4	273.56	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,711.75	1/2	1,349.47	1/2	987.58	1/2	625.40	1/2	266.16	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,704.20	3/4	1,341.92	3/4	980.05	3/4	617.85	3/4	258.77	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: 04/23/2020 CL
CALCULATED: 04/26/2020 CL
PRINTED: 04/28/2020 CL

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092
Pearland, Texas 77588

<http://www.pmacorp.net>

CANCELS AND SUPERCEDES
ALL PRIOR TO 04/2020



BARGE "EMS 517"

2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08 1/4"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT
0		0		0	4,881.02	0	4,547.37	0	4,194.67	0	3,833.57	0	3,472.48	0	3,111.38	0	2,750.32	0	2,390.80
1/4		1/4	5,205.73	1/4	4,874.27	1/4	4,540.22	1/4	4,187.15	1/4	3,826.05	1/4	3,464.95	1/4	3,103.85	1/4	2,742.81	1/4	2,383.28
1/2		1/2	5,200.63	1/2	4,867.50	1/2	4,533.04	1/2	4,179.63	1/2	3,818.53	1/2	3,457.43	1/2	3,096.33	1/2	2,735.39	1/2	2,375.75
3/4		3/4	5,195.53	3/4	4,860.73	3/4	4,525.85	3/4	4,172.11	3/4	3,811.01	3/4	3,449.91	3/4	3,088.81	3/4	2,727.97	3/4	2,368.23
1		1	5,190.44	1	4,853.95	1	4,518.67	1	4,164.58	1	3,803.48	1	3,442.38	1	3,081.28	1	2,720.56	1	2,360.70
1/4		1/4	5,185.34	1/4	4,847.18	1/4	4,511.49	1/4	4,157.06	1/4	3,795.96	1/4	3,434.86	1/4	3,073.76	1/4	2,713.14	1/4	2,353.18
1/2		1/2	5,179.03	1/2	4,840.38	1/2	4,504.27	1/2	4,149.54	1/2	3,788.44	1/2	3,427.34	1/2	3,066.24	1/2	2,705.72	1/2	2,345.65
3/4		3/4	5,172.73	3/4	4,833.57	3/4	4,497.06	3/4	4,142.01	3/4	3,780.91	3/4	3,419.82	3/4	3,058.72	3/4	2,698.31	3/4	2,338.12
2		2	5,166.42	2	4,826.77	2	4,489.84	2	4,134.49	2	3,773.39	2	3,412.29	2	3,051.19	2	2,690.89	2	2,330.60
1/4		1/4	5,160.11	1/4	4,819.96	1/4	4,482.63	1/4	4,126.97	1/4	3,765.87	1/4	3,404.77	1/4	3,043.67	1/4	2,683.47	1/4	2,323.07
1/2		1/2	5,152.82	1/2	4,813.13	1/2	4,475.38	1/2	4,119.45	1/2	3,758.35	1/2	3,397.25	1/2	3,036.15	1/2	2,676.06	1/2	2,315.55
3/4		3/4	5,145.54	3/4	4,806.30	3/4	4,468.14	3/4	4,111.92	3/4	3,750.82	3/4	3,389.72	3/4	3,028.62	3/4	2,668.64	3/4	2,308.02
3		3	5,138.25	3	4,799.46	3	4,460.89	3	4,104.40	3	3,743.30	3	3,382.20	3	3,021.10	3	2,661.22	3	2,300.50
1/4		1/4	5,130.96	1/4	4,792.63	1/4	4,453.65	1/4	4,096.88	1/4	3,735.78	1/4	3,374.68	1/4	3,013.58	1/4	2,653.81	1/4	2,292.97
1/2		1/2	5,123.54	1/2	4,785.76	1/2	4,446.37	1/2	4,089.35	1/2	3,728.25	1/2	3,367.16	1/2	3,006.06	1/2	2,646.38	1/2	2,285.44
3/4		3/4	5,116.11	3/4	4,778.89	3/4	4,439.09	3/4	4,081.83	3/4	3,720.73	3/4	3,359.63	3/4	2,998.53	3/4	2,638.95	3/4	2,277.92
4		4	5,108.69	4	4,772.02	4	4,431.82	4	4,074.31	4	3,713.21	4	3,352.11	4	2,991.01	4	2,631.52	4	2,270.39
1/4		1/4	5,101.26	1/4	4,765.16	1/4	4,424.54	1/4	4,066.78	1/4	3,705.69	1/4	3,344.59	1/4	2,983.49	1/4	2,624.09	1/4	2,262.87
1/2		1/2	5,093.84	1/2	4,758.25	1/2	4,417.23	1/2	4,059.26	1/2	3,698.16	1/2	3,337.06	1/2	2,975.96	1/2	2,616.57	1/2	2,255.34
3/4		3/4	5,086.41	3/4	4,751.35	3/4	4,409.92	3/4	4,051.74	3/4	3,690.64	3/4	3,329.54	3/4	2,968.44	3/4	2,609.04	3/4	2,247.82
5		5	5,078.99	5	4,744.45	5	4,402.61	5	4,044.22	5	3,683.12	5	3,322.02	5	2,960.92	5	2,601.52	5	2,240.29
1/4		1/4	5,071.56	1/4	4,737.55	1/4	4,395.30	1/4	4,036.69	1/4	3,675.59	1/4	3,314.49	1/4	2,953.40	1/4	2,594.00	1/4	2,232.76
1/2		1/2	5,064.14	1/2	4,730.62	1/2	4,387.96	1/2	4,029.17	1/2	3,668.07	1/2	3,306.97	1/2	2,945.87	1/2	2,586.47	1/2	2,225.24
3/4		3/4	5,056.71	3/4	4,723.69	3/4	4,380.62	3/4	4,021.65	3/4	3,660.55	3/4	3,299.45	3/4	2,938.35	3/4	2,578.95	3/4	2,217.71
6		6	5,049.29	6	4,716.76	6	4,373.27	6	4,014.12	6	3,653.03	6	3,291.93	6	2,930.83	6	2,571.42	6	2,210.19
1/4		1/4	5,041.86	1/4	4,709.83	1/4	4,365.93	1/4	4,006.60	1/4	3,645.50	1/4	3,284.40	1/4	2,923.30	1/4	2,563.90	1/4	2,202.66
1/2		1/2	5,034.44	1/2	4,702.86	1/2	4,358.56	1/2	3,999.08	1/2	3,637.98	1/2	3,276.88	1/2	2,915.78	1/2	2,556.37	1/2	2,195.14
3/4		3/4	5,027.01	3/4	4,695.90	3/4	4,351.19	3/4	3,991.56	3/4	3,630.46	3/4	3,269.36	3/4	2,908.26	3/4	2,548.84	3/4	2,187.61
7		7	5,019.59	7	4,688.93	7	4,343.81	7	3,984.03	7	3,622.93	7	3,261.83	7	2,900.74	7	2,541.32	7	2,180.08
1/4		1/4	5,012.16	1/4	4,681.96	1/4	4,336.44	1/4	3,976.51	1/4	3,615.41	1/4	3,254.31	1/4	2,893.21	1/4	2,533.79	1/4	2,172.56
1/2		1/2	5,004.79	1/2	4,674.94	1/2	4,329.04	1/2	3,968.99	1/2	3,607.89	1/2	3,246.79	1/2	2,885.69	1/2	2,526.27	1/2	2,165.03
3/4		3/4	4,997.42	3/4	4,667.92	3/4	4,321.63	3/4	3,961.46	3/4	3,600.36	3/4	3,239.27	3/4	2,878.17	3/4	2,518.74	3/4	2,157.51
8		8	4,990.05	8	4,660.89	8	4,314.23	8	3,953.94	8	3,592.84	8	3,231.74	8	2,870.64	8	2,511.22	8	2,149.98
1/4		1/4	4,982.67	1/4	4,653.87	1/4	4,306.83	1/4	3,946.42	1/4	3,585.32	1/4	3,224.22	1/4	2,863.12	1/4	2,503.69	1/4	2,142.46
1/2		1/2	4,975.71	1/2	4,646.81	1/2	4,299.39	1/2	3,938.90	1/2	3,577.80	1/2	3,216.70	1/2	2,855.60	1/2	2,496.16	1/2	2,134.93
3/4		3/4	4,968.74	3/4	4,639.75	3/4	4,291.96	3/4	3,931.37	3/4	3,570.27	3/4	3,209.17	3/4	2,848.08	3/4	2,488.64	3/4	2,127.40
9		9	4,961.78	9	4,632.69	9	4,284.53	9	3,923.85	9	3,562.75	9	3,201.65	9	2,840.55	9	2,481.11	9	2,119.88
1/4		1/4	4,954.81	1/4	4,625.64	1/4	4,277.09	1/4	3,916.33	1/4	3,555.23	1/4	3,194.13	1/4	2,833.03	1/4	2,473.59	1/4	2,112.35
1/2		1/2	4,948.14	1/2	4,618.55	1/2	4,269.63	1/2	3,908.80	1/2	3,547.70	1/2	3,186.61	1/2	2,825.51	1/2	2,466.06	1/2	2,104.83
3/4		3/4	4,941.46	3/4	4,611.46	3/4	4,262.16	3/4	3,901.28	3/4	3,540.18	3/4	3,179.08	3/4	2,817.98	3/4	2,458.54	3/4	2,097.30
10		10	4,934.78	10	4,604.37	10	4,254.69	10	3,893.76	10	3,532.66	10	3,171.56	10	2,810.46	10	2,451.01	10	2,089.78
1/4		1/4	4,928.10	1/4	4,597.28	1/4	4,247.22	1/4	3,886.24	1/4	3,525.14	1/4	3,164.04	1/4	2,802.94	1/4	2,443.48	1/4	2,082.25
1/2		1/2	4,921.39	1/2	4,590.17	1/2	4,239.72	1/2	3,878.71	1/2	3,517.61	1/2	3,156.51	1/2	2,795.41	1/2	2,435.96	1/2	2,074.73
3/4		3/4	4,914.67	3/4	4,583.05	3/4	4,232.22	3/4	3,871.19	3/4	3,510.09	3/4	3,148.99	3/4	2,787.89	3/4	2,428.43	3/4	2,067.20
11		11	4,907.96	11	4,575.93	11	4,224.73	11	3,863.67	11	3,502.57	11	3,141.47	11	2,780.37	11	2,420.91	11	2,059.67
1/4		1/4	4,901.25	1/4	4,568.81	1/4	4,217.23	1/4	3,856.14	1/4	3,495.04	1/4	3,133.95	1/4	2,772.85	1/4	2,413.38	1/4	2,052.15
1/2		1/2	4,894.51	1/2	4,561.66	1/2	4,209.71	1/2	3,848.62	1/2	3,487.52	1/2	3,126.42	1/2	2,765.34	1/2	2,405.86	1/2	2,044.62
3/4		3/4	4,887.76	3/4	4,554.52	3/4	4,202.19	3/4	3,841.10	3/4	3,480.00	3/4	3,118.90	3/4	2,757.83	3/4	2,398.33	3/4	2,037.10

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" DIAMETER "HERMETIC" VALVE.
 GAUGE POINT: (HERMETIC) LOCATED 10'-06" OFF CENTERLINE AND 42'-03" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



BARGE "EMS 517"

2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08 1/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,029.57	0	1,668.34	0	1,307.10	0	959.36	0	601.01	0	243.25	0		0		0		0	
1/4	2,022.05	1/4	1,660.81	1/4	1,299.58	1/4	952.18	1/4	593.48	1/4	235.88	1/4		1/4		1/4		1/4	
1/2	2,014.52	1/2	1,653.29	1/2	1,292.05	1/2	945.00	1/2	585.96	1/2	228.50	1/2		1/2		1/2		1/2	
3/4	2,006.99	3/4	1,645.76	3/4	1,284.53	3/4	937.81	3/4	578.43	3/4	221.12	3/4		3/4		3/4		3/4	
1	1,999.47	1	1,638.23	1	1,277.00	1	930.63	1	570.91	1	213.74	1		1		1		1	
1/4	1,991.94	1/4	1,630.71	1/4	1,269.48	1/4	923.44	1/4	563.38	1/4	206.36	1/4		1/4		1/4		1/4	
1/2	1,984.42	1/2	1,623.18	1/2	1,261.99	1/2	916.21	1/2	555.86	1/2	198.97	1/2		1/2		1/2		1/2	
3/4	1,976.89	3/4	1,615.66	3/4	1,254.51	3/4	908.97	3/4	548.33	3/4	191.57	3/4		3/4		3/4		3/4	
2	1,969.37	2	1,608.13	2	1,247.02	2	901.73	2	540.81	2	184.18	2		2		2		2	
1/4	1,961.84	1/4	1,600.61	1/4	1,239.54	1/4	894.50	1/4	533.28	1/4	176.79	1/4		1/4		1/4		1/4	
1/2	1,954.31	1/2	1,593.08	1/2	1,232.34	1/2	886.97	1/2	525.75	1/2	169.28	1/2		1/2		1/2		1/2	
3/4	1,946.79	3/4	1,585.55	3/4	1,225.15	3/4	879.45	3/4	518.23	3/4	161.76	3/4		3/4		3/4		3/4	
3	1,939.26	3	1,578.03	3	1,217.96	3	871.92	3	510.70	3	154.25	3		3		3		3	
1/4	1,931.74	1/4	1,570.50	1/4	1,210.76	1/4	864.40	1/4	503.18	1/4	146.74	1/4		1/4		1/4		1/4	
1/2	1,924.21	1/2	1,562.98	1/2	1,203.58	1/2	856.87	1/2	495.65	1/2	139.23	1/2		1/2		1/2		1/2	
3/4	1,916.69	3/4	1,555.45	3/4	1,196.40	3/4	849.35	3/4	488.13	3/4	131.72	3/4		3/4		3/4		3/4	
4	1,909.16	4	1,547.93	4	1,189.22	4	841.82	4	480.60	4	124.21	4		4		4		4	
1/4	1,901.63	1/4	1,540.40	1/4	1,182.03	1/4	834.30	1/4	473.08	1/4	116.70	1/4		1/4		1/4		1/4	
1/2	1,894.11	1/2	1,532.87	1/2	1,174.85	1/2	826.77	1/2	465.55	1/2	109.27	1/2		1/2		1/2		1/2	
3/4	1,886.58	3/4	1,525.35	3/4	1,167.67	3/4	819.25	3/4	458.03	3/4	101.84	3/4		3/4		3/4		3/4	
5	1,879.06	5	1,517.82	5	1,160.48	5	811.72	5	450.50	5	94.40	5		5		5		5	
1/4	1,871.53	1/4	1,510.30	1/4	1,153.30	1/4	804.19	1/4	442.98	1/4	86.97	1/4		1/4		1/4		1/4	
1/2	1,864.01	1/2	1,502.77	1/2	1,146.12	1/2	796.67	1/2	435.47	1/2	80.25	1/2		1/2		1/2		1/2	
3/4	1,856.48	3/4	1,495.25	3/4	1,138.94	3/4	789.14	3/4	427.96	3/4	73.52	3/4		3/4		3/4		3/4	
6	1,848.95	6	1,487.72	6	1,131.75	6	781.62	6	420.45	6	66.79	6		6		6		6	
1/4	1,841.43	1/4	1,480.19	1/4	1,124.57	1/4	774.09	1/4	412.95	1/4	60.07	1/4		1/4		1/4		1/4	
1/2	1,833.90	1/2	1,472.67	1/2	1,117.39	1/2	766.57	1/2	405.57	1/2	54.59	1/2		1/2		1/2		1/2	
3/4	1,826.38	3/4	1,465.14	3/4	1,110.20	3/4	759.04	3/4	398.19	3/4	49.12	3/4		3/4		3/4		3/4	
7	1,818.85	7	1,457.62	7	1,103.02	7	751.52	7	390.81	7	43.65	7		7		7		7	
1/4	1,811.33	1/4	1,450.09	1/4	1,095.84	1/4	743.99	1/4	383.44	1/4	38.18	1/4		1/4		1/4		1/4	
1/2	1,803.80	1/2	1,442.57	1/2	1,088.66	1/2	736.47	1/2	376.06	1/2	33.96	1/2		1/2		1/2		1/2	
3/4	1,796.27	3/4	1,435.04	3/4	1,081.47	3/4	728.94	3/4	368.68	3/4	29.74	3/4		3/4		3/4		3/4	
8	1,788.75	8	1,427.51	8	1,074.29	8	721.41	8	361.30	8	25.52	8		8		8		8	
1/4	1,781.22	1/4	1,419.99	1/4	1,067.11	1/4	713.89	1/4	353.92	1/4	21.31	1/4		1/4		1/4		1/4	
1/2	1,773.70	1/2	1,412.46	1/2	1,059.92	1/2	706.36	1/2	346.55	1/2		1/2		1/2		1/2		1/2	
3/4	1,766.17	3/4	1,404.94	3/4	1,052.74	3/4	698.84	3/4	339.17	3/4		3/4		3/4		3/4		3/4	
9	1,758.65	9	1,397.41	9	1,045.56	9	691.31	9	331.79	9		9		9		9		9	
1/4	1,751.12	1/4	1,389.89	1/4	1,038.37	1/4	683.79	1/4	324.41	1/4		1/4		1/4		1/4		1/4	
1/2	1,743.59	1/2	1,382.36	1/2	1,031.19	1/2	676.26	1/2	317.03	1/2		1/2		1/2		1/2		1/2	
3/4	1,736.07	3/4	1,374.84	3/4	1,024.01	3/4	668.74	3/4	309.66	3/4		3/4		3/4		3/4		3/4	
10	1,728.54	10	1,367.31	10	1,016.83	10	661.21	10	302.28	10		10		10		10		10	
1/4	1,721.02	1/4	1,359.78	1/4	1,009.64	1/4	653.69	1/4	294.90	1/4		1/4		1/4		1/4		1/4	
1/2	1,713.49	1/2	1,352.26	1/2	1,002.46	1/2	646.16	1/2	287.52	1/2		1/2		1/2		1/2		1/2	
3/4	1,705.97	3/4	1,344.73	3/4	995.28	3/4	638.64	3/4	280.14	3/4		3/4		3/4		3/4		3/4	
11	1,698.44	11	1,337.21	11	988.09	11	631.11	11	272.77	11		11		11		11		11	
1/4	1,690.91	1/4	1,329.68	1/4	980.91	1/4	623.58	1/4	265.39	1/4		1/4		1/4		1/4		1/4	
1/2	1,683.39	1/2	1,322.16	1/2	973.73	1/2	616.06	1/2	258.01	1/2		1/2		1/2		1/2		1/2	
3/4	1,675.86	3/4	1,314.63	3/4	966.55	3/4	608.53	3/4	250.63	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 04/23/2020 CL
CALCULATED: 04/26/2020 CL
PRINTED: 04/28/2020 CL

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092
Pearland, Texas 77588

<http://www.pmacorp.net>



CANCELS AND SUPERCEDES
ALL PRIOR TO 04/2020



BARGE "EMS 517"

3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-09 1/4"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT
0		0		0	4,250.55	0	4,084.87	0	3,900.49	0	3,706.27	0	3,510.71	0	3,154.89	0	2,794.85	0	2,434.13
1/4		1/4		1/4	4,247.30	1/4	4,081.23	1/4	3,896.47	1/4	3,702.22	1/4	3,506.24	1/4	3,147.42	1/4	2,787.34	1/4	2,426.61
1/2		1/2		1/2	4,244.02	1/2	4,077.55	1/2	3,892.42	1/2	3,698.17	1/2	3,498.75	1/2	3,139.92	1/2	2,779.83	1/2	2,419.10
3/4		3/4		3/4	4,240.74	3/4	4,073.88	3/4	3,888.38	3/4	3,694.13	3/4	3,491.27	3/4	3,132.42	3/4	2,772.31	3/4	2,411.58
1		1		1	4,237.46	1	4,070.21	1	3,884.34	1	3,690.08	1	3,483.79	1	3,124.92	1	2,764.79	1	2,404.07
1/4		1/4	4,400.55	1/4	4,234.17	1/4	4,066.53	1/4	3,880.30	1/4	3,686.03	1/4	3,476.30	1/4	3,117.42	1/4	2,757.28	1/4	2,396.55
1/2		1/2	4,398.89	1/2	4,230.86	1/2	4,062.83	1/2	3,876.25	1/2	3,681.98	1/2	3,468.82	1/2	3,109.91	1/2	2,749.76	1/2	2,389.03
3/4		3/4	4,397.23	3/4	4,227.55	3/4	4,059.12	3/4	3,872.20	3/4	3,677.94	3/4	3,461.34	3/4	3,102.41	3/4	2,742.25	3/4	2,381.52
2		2	4,395.58	2	4,224.23	2	4,055.41	2	3,868.15	2	3,673.89	2	3,453.86	2	3,094.91	2	2,734.73	2	2,374.00
1/4		1/4	4,393.92	1/4	4,220.92	1/4	4,051.71	1/4	3,864.11	1/4	3,669.84	1/4	3,446.37	1/4	3,087.41	1/4	2,727.22	1/4	2,366.49
1/2		1/2	4,391.04	1/2	4,217.58	1/2	4,047.97	1/2	3,860.06	1/2	3,665.79	1/2	3,438.89	1/2	3,079.91	1/2	2,719.71	1/2	2,358.97
3/4		3/4	4,388.16	3/4	4,214.23	3/4	4,044.23	3/4	3,856.01	3/4	3,661.75	3/4	3,431.41	3/4	3,072.41	3/4	2,712.19	3/4	2,351.46
3		3	4,385.28	3	4,210.89	3	4,040.49	3	3,851.97	3	3,657.70	3	3,423.92	3	3,064.90	3	2,704.68	3	2,343.94
1/4		1/4	4,382.40	1/4	4,207.55	1/4	4,036.75	1/4	3,847.92	1/4	3,653.65	1/4	3,416.44	1/4	3,057.40	1/4	2,697.16	1/4	2,336.42
1/2		1/2	4,378.54	1/2	4,204.18	1/2	4,032.98	1/2	3,843.87	1/2	3,649.61	1/2	3,408.96	1/2	3,049.90	1/2	2,689.65	1/2	2,328.91
3/4		3/4	4,374.68	3/4	4,200.80	3/4	4,029.21	3/4	3,839.82	3/4	3,645.56	3/4	3,401.48	3/4	3,042.40	3/4	2,682.13	3/4	2,321.39
4		4	4,370.82	4	4,197.43	4	4,025.44	4	3,835.78	4	3,641.51	4	3,393.99	4	3,034.90	4	2,674.62	4	2,313.88
1/4		1/4	4,366.96	1/4	4,194.06	1/4	4,021.67	1/4	3,831.73	1/4	3,637.46	1/4	3,386.51	1/4	3,027.40	1/4	2,667.11	1/4	2,306.36
1/2		1/2	4,362.97	1/2	4,190.65	1/2	4,017.87	1/2	3,827.68	1/2	3,633.42	1/2	3,379.03	1/2	3,019.90	1/2	2,659.59	1/2	2,298.85
3/4		3/4	4,358.97	3/4	4,187.24	3/4	4,014.07	3/4	3,823.64	3/4	3,629.37	3/4	3,371.54	3/4	3,012.39	3/4	2,652.08	3/4	2,291.33
5		5	4,354.98	5	4,183.83	5	4,010.27	5	3,819.59	5	3,625.32	5	3,364.06	5	3,004.89	5	2,644.56	5	2,283.81
1/4		1/4	4,350.99	1/4	4,180.43	1/4	4,006.47	1/4	3,815.54	1/4	3,621.28	1/4	3,356.58	1/4	2,997.39	1/4	2,637.05	1/4	2,276.30
1/2		1/2	4,346.99	1/2	4,176.99	1/2	4,002.63	1/2	3,811.49	1/2	3,617.23	1/2	3,349.10	1/2	2,989.89	1/2	2,629.53	1/2	2,268.78
3/4		3/4	4,343.00	3/4	4,173.54	3/4	3,998.80	3/4	3,807.45	3/4	3,613.18	3/4	3,341.62	3/4	2,982.39	3/4	2,622.02	3/4	2,261.27
6		6	4,339.00	6	4,170.10	6	3,994.96	6	3,803.40	6	3,609.13	6	3,334.14	6	2,974.89	6	2,614.50	6	2,253.75
1/4		1/4	4,335.01	1/4	4,166.66	1/4	3,991.13	1/4	3,799.35	1/4	3,605.09	1/4	3,326.66	1/4	2,967.39	1/4	2,606.99	1/4	2,246.24
1/2		1/2	4,331.01	1/2	4,163.19	1/2	3,987.26	1/2	3,795.31	1/2	3,601.04	1/2	3,319.19	1/2	2,959.88	1/2	2,599.47	1/2	2,238.72
3/4		3/4	4,327.02	3/4	4,159.72	3/4	3,983.39	3/4	3,791.26	3/4	3,596.99	3/4	3,311.72	3/4	2,952.38	3/4	2,591.96	3/4	2,231.20
7		7	4,323.03	7	4,156.25	7	3,979.53	7	3,787.21	7	3,592.95	7	3,304.25	7	2,944.88	7	2,584.44	7	2,223.69
1/4		1/4	4,319.03	1/4	4,152.78	1/4	3,975.66	1/4	3,783.16	1/4	3,588.90	1/4	3,296.79	1/4	2,937.38	1/4	2,576.93	1/4	2,216.17
1/2		1/2	4,315.04	1/2	4,149.28	1/2	3,971.76	1/2	3,779.12	1/2	3,584.85	1/2	3,289.32	1/2	2,929.88	1/2	2,569.41	1/2	2,208.66
3/4		3/4	4,311.04	3/4	4,145.78	3/4	3,967.86	3/4	3,775.07	3/4	3,580.80	3/4	3,281.85	3/4	2,922.38	3/4	2,561.90	3/4	2,201.14
8		8	4,307.05	8	4,142.27	8	3,963.97	8	3,771.02	8	3,576.76	8	3,274.38	8	2,914.87	8	2,554.38	8	2,193.63
1/4		1/4	4,303.06	1/4	4,138.77	1/4	3,960.07	1/4	3,766.97	1/4	3,572.71	1/4	3,266.92	1/4	2,907.37	1/4	2,546.86	1/4	2,186.11
1/2		1/2	4,299.11	1/2	4,135.22	1/2	3,956.14	1/2	3,762.93	1/2	3,568.66	1/2	3,259.45	1/2	2,899.87	1/2	2,539.35	1/2	2,178.59
3/4		3/4	4,295.17	3/4	4,131.67	3/4	3,952.21	3/4	3,758.88	3/4	3,564.61	3/4	3,251.98	3/4	2,892.37	3/4	2,531.83	3/4	2,171.08
9		9	4,291.23	9	4,128.12	9	3,948.29	9	3,754.83	9	3,560.57	9	3,244.51	9	2,884.87	9	2,524.32	9	2,163.56
1/4		1/4	4,287.29	1/4	4,124.58	1/4	3,944.36	1/4	3,750.79	1/4	3,556.52	1/4	3,237.05	1/4	2,877.37	1/4	2,516.80	1/4	2,156.05
1/2		1/2	4,283.76	1/2	4,120.99	1/2	3,940.40	1/2	3,746.74	1/2	3,552.47	1/2	3,229.58	1/2	2,869.87	1/2	2,509.29	1/2	2,148.53
3/4		3/4	4,280.23	3/4	4,117.41	3/4	3,936.44	3/4	3,742.69	3/4	3,548.43	3/4	3,222.11	3/4	2,862.36	3/4	2,501.77	3/4	2,141.02
10		10	4,276.70	10	4,113.83	10	3,932.49	10	3,738.64	10	3,544.38	10	3,214.65	10	2,854.86	10	2,494.25	10	2,133.50
1/4		1/4	4,273.17	1/4	4,110.24	1/4	3,928.53	1/4	3,734.60	1/4	3,540.33	1/4	3,207.18	1/4	2,847.36	1/4	2,486.74	1/4	2,125.98
1/2		1/2	4,269.95	1/2	4,106.63	1/2	3,924.54	1/2	3,730.55	1/2	3,536.28	1/2	3,199.71	1/2	2,839.86	1/2	2,479.22	1/2	2,118.47
3/4		3/4	4,266.73	3/4	4,103.02	3/4	3,920.54	3/4	3,726.50	3/4	3,532.24	3/4	3,192.24	3/4	2,832.36	3/4	2,471.71	3/4	2,110.95
11		11	4,263.52	11	4,099.41	11	3,916.55	11	3,722.46	11	3,528.19	11	3,184.78	11	2,824.86	11	2,464.19	11	2,103.44
1/4		1/4	4,260.30	1/4	4,095.79	1/4	3,912.56	1/4	3,718.41	1/4	3,524.14	1/4	3,177.31	1/4	2,817.36	1/4	2,456.68	1/4	2,095.92
1/2		1/2	4,257.05	1/2	4,092.15	1/2	3,908.54	1/2	3,714.36	1/2	3,519.67	1/2	3,169.84	1/2	2,809.85	1/2	2,449.16	1/2	2,088.41
3/4		3/4	4,253.80	3/4	4,088.51	3/4	3,904.51	3/4	3,710.31	3/4	3,515.19	3/4	3,162.37	3/4	2,802.35	3/4	2,441.64	3/4	2,080.89

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" DIAMETER "HERMETIC" VALVE.
 GAUGE POINT: (HERMETIC) LOCATED 10'-06" OFF CENTERLINE AND 55'-03" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



BARGE "EMS 517"

3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-09 1/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,073.37	0	1,712.54	0	1,351.70	0	991.13	0	630.41	0	272.47	0		0		0		0	
1/4	2,065.86	1/4	1,705.02	1/4	1,344.18	1/4	983.62	1/4	622.89	1/4	265.10	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,058.34	1/2	1,697.51	1/2	1,336.67	1/2	976.12	1/2	615.37	1/2	257.73	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,050.83	3/4	1,689.99	3/4	1,329.15	3/4	968.61	3/4	607.86	3/4	250.36	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	2,043.31	1	1,682.47	1	1,321.63	1	961.10	1	600.34	1	242.99	1	1	1	1	1	1	1	1
1/4	2,035.79	1/4	1,674.95	1/4	1,314.11	1/4	953.59	1/4	592.82	1/4	235.62	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,028.28	1/2	1,667.44	1/2	1,306.60	1/2	946.08	1/2	585.31	1/2	228.25	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,020.76	3/4	1,659.92	3/4	1,299.08	3/4	938.58	3/4	577.79	3/4	220.88	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	2,013.24	2	1,652.40	2	1,291.56	2	931.07	2	570.27	2	213.51	2	2	2	2	2	2	2	2
1/4	2,005.72	1/4	1,644.88	1/4	1,284.04	1/4	923.56	1/4	562.75	1/4	206.14	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,998.21	1/2	1,637.37	1/2	1,276.53	1/2	916.05	1/2	555.24	1/2	198.76	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,990.69	3/4	1,629.85	3/4	1,269.01	3/4	908.53	3/4	547.72	3/4	191.37	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	1,983.17	3	1,622.33	3	1,261.49	3	901.02	3	540.20	3	183.99	3	3	3	3	3	3	3	3
1/4	1,975.65	1/4	1,614.81	1/4	1,253.97	1/4	893.51	1/4	532.69	1/4	176.60	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,968.14	1/2	1,607.30	1/2	1,246.46	1/2	885.99	1/2	525.17	1/2	169.10	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,960.62	3/4	1,599.78	3/4	1,238.94	3/4	878.48	3/4	517.65	3/4	161.60	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	1,953.10	4	1,592.26	4	1,231.42	4	870.96	4	510.13	4	154.09	4	4	4	4	4	4	4	4
1/4	1,945.58	1/4	1,584.74	1/4	1,223.90	1/4	863.44	1/4	502.62	1/4	146.59	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,938.07	1/2	1,577.23	1/2	1,216.39	1/2	855.92	1/2	495.10	1/2	139.09	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,930.55	3/4	1,569.71	3/4	1,208.88	3/4	848.41	3/4	487.58	3/4	131.59	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	1,923.03	5	1,562.19	5	1,201.36	5	840.89	5	480.06	5	124.08	5	5	5	5	5	5	5	5
1/4	1,915.51	1/4	1,554.67	1/4	1,193.85	1/4	833.37	1/4	472.55	1/4	116.58	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,908.00	1/2	1,547.16	1/2	1,186.34	1/2	825.86	1/2	465.03	1/2	109.16	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,900.48	3/4	1,539.64	3/4	1,178.83	3/4	818.34	3/4	457.51	3/4	101.73	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	1,892.96	6	1,532.12	6	1,171.32	6	810.82	6	450.00	6	94.31	6	6	6	6	6	6	6	6
1/4	1,885.44	1/4	1,524.60	1/4	1,163.82	1/4	803.30	1/4	442.48	1/4	86.88	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,877.93	1/2	1,517.09	1/2	1,156.31	1/2	795.79	1/2	434.98	1/2	80.17	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,870.41	3/4	1,509.57	3/4	1,148.80	3/4	788.27	3/4	427.48	3/4	73.45	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	1,862.89	7	1,502.05	7	1,141.29	7	780.75	7	419.98	7	66.73	7	7	7	7	7	7	7	7
1/4	1,855.37	1/4	1,494.53	1/4	1,133.78	1/4	773.24	1/4	412.48	1/4	60.01	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,847.86	1/2	1,487.02	1/2	1,126.28	1/2	765.72	1/2	405.11	1/2	54.54	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,840.34	3/4	1,479.50	3/4	1,118.77	3/4	758.20	3/4	397.75	3/4	49.08	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	1,832.82	8	1,471.98	8	1,111.26	8	750.68	8	390.38	8	43.61	8	8	8	8	8	8	8	8
1/4	1,825.30	1/4	1,464.46	1/4	1,103.75	1/4	743.17	1/4	383.01	1/4	38.14	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,817.79	1/2	1,456.95	1/2	1,096.24	1/2	735.65	1/2	375.64	1/2	33.93	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,810.27	3/4	1,449.43	3/4	1,088.74	3/4	728.13	3/4	368.27	3/4	29.72	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	1,802.75	9	1,441.91	9	1,081.23	9	720.62	9	360.90	9	25.50	9	9	9	9	9	9	9	9
1/4	1,795.23	1/4	1,434.39	1/4	1,073.72	1/4	713.10	1/4	353.53	1/4	21.29	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,787.72	1/2	1,426.88	1/2	1,066.21	1/2	705.58	1/2	346.16	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,780.20	3/4	1,419.36	3/4	1,058.70	3/4	698.06	3/4	338.79	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	1,772.68	10	1,411.84	10	1,051.20	10	690.55	10	331.42	10	10	10	10	10	10	10	10	10	10
1/4	1,765.16	1/4	1,404.32	1/4	1,043.69	1/4	683.03	1/4	324.05	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,757.65	1/2	1,396.81	1/2	1,036.18	1/2	675.51	1/2	316.68	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,750.13	3/4	1,389.29	3/4	1,028.67	3/4	667.99	3/4	309.31	3/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
11	1,742.61	11	1,381.77	11	1,021.16	11	660.48	11	301.94	11	11	11	11	11	11	11	11	11	11
1/4	1,735.09	1/4	1,374.25	1/4	1,013.66	1/4	652.96	1/4	294.58	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,727.58	1/2	1,366.74	1/2	1,006.15	1/2	645.44	1/2	287.21	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,720.06	3/4	1,359.22	3/4	998.64	3/4	637.93	3/4	279.84	3/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 04/23/2020 CL
CALCULATED: 04/26/2020 CL
PRINTED: 04/28/2020 CL

PRECISION MEASUREMENT
& ANALYSIS, INC.

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



CANCELS AND SUPERCEDES
ALL PRIOR TO 04/2020



BARGE "EMS 517"

3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08 3/4"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.			
IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT		
0		0		0	4,205.11	0	4,039.73	0	3,855.72	0	3,662.62	0	3,464.36	0	3,107.03	0	2,748.65	0	2,391.12		
1/4		1/4		1/4	4,201.85	1/4	4,036.08	1/4	3,851.70	1/4	3,658.59	1/4	3,456.90	1/4	3,099.56	1/4	2,741.17	1/4	2,383.64		
1/2		1/2		1/2	4,198.59	1/2	4,032.43	1/2	3,847.68	1/2	3,654.57	1/2	3,449.45	1/2	3,092.09	1/2	2,733.70	1/2	2,376.16		
3/4		3/4		3/4	4,195.33	3/4	4,028.78	3/4	3,843.66	3/4	3,650.55	3/4	3,442.00	3/4	3,084.62	3/4	2,726.23	3/4	2,368.67		
1		1		1	4,192.04	1	4,025.09	1	3,839.64	1	3,646.52	1	3,434.55	1	3,077.15	1	2,718.86	1	2,361.19		
1/4		1/4		1/4	4,357.34	1/4	4,188.75	1/4	4,021.41	1/4	3,835.62	1/4	3,642.50	1/4	3,427.10	1/4	3,069.69	1/4	2,711.48	1/4	2,353.70
1/2		1/2		1/2	4,355.70	1/2	4,185.46	1/2	4,017.73	1/2	3,831.59	1/2	3,638.48	1/2	3,419.65	1/2	3,062.22	1/2	2,704.10	1/2	2,346.22
3/4		3/4		3/4	4,354.06	3/4	4,182.17	3/4	4,014.04	3/4	3,827.57	3/4	3,634.45	3/4	3,412.20	3/4	3,054.75	3/4	2,696.73	3/4	2,338.73
2		2		2	4,351.20	2	4,178.85	2	4,010.32	2	3,823.55	2	3,630.43	2	3,404.74	2	3,047.29	2	2,689.35	2	2,331.25
1/4		1/4		1/4	4,348.35	1/4	4,175.52	1/4	4,006.61	1/4	3,819.52	1/4	3,626.41	1/4	3,397.29	1/4	3,039.82	1/4	2,681.97	1/4	2,323.77
1/2		1/2		1/2	4,345.49	1/2	4,172.20	1/2	4,002.89	1/2	3,815.50	1/2	3,622.38	1/2	3,389.84	1/2	3,032.36	1/2	2,674.60	1/2	2,316.28
3/4		3/4		3/4	4,342.63	3/4	4,168.88	3/4	3,999.17	3/4	3,811.48	3/4	3,618.36	3/4	3,382.39	3/4	3,024.90	3/4	2,667.22	3/4	2,308.80
3		3		3	4,338.79	3	4,165.53	3	3,995.43	3	3,807.45	3	3,614.34	3	3,374.94	3	3,017.44	3	2,659.84	3	2,301.31
1/4		1/4		1/4	4,334.96	1/4	4,162.18	1/4	3,991.68	1/4	3,803.43	1/4	3,610.31	1/4	3,367.49	1/4	3,009.97	1/4	2,652.47	1/4	2,293.83
1/2		1/2		1/2	4,331.12	1/2	4,158.83	1/2	3,987.93	1/2	3,799.41	1/2	3,606.29	1/2	3,360.04	1/2	3,002.51	1/2	2,645.09	1/2	2,286.34
3/4		3/4		3/4	4,327.29	3/4	4,155.48	3/4	3,984.19	3/4	3,795.38	3/4	3,602.27	3/4	3,352.58	3/4	2,995.05	3/4	2,637.72	3/4	2,278.86
4		4		4	4,323.32	4	4,152.09	4	3,980.41	4	3,791.36	4	3,598.24	4	3,345.13	4	2,987.59	4	2,630.33	4	2,271.38
1/4		1/4		1/4	4,319.35	1/4	4,148.71	1/4	3,976.63	1/4	3,787.34	1/4	3,594.22	1/4	3,337.68	1/4	2,980.12	1/4	2,622.94	1/4	2,263.89
1/2		1/2		1/2	4,315.38	1/2	4,145.32	1/2	3,972.86	1/2	3,783.31	1/2	3,590.20	1/2	3,330.23	1/2	2,972.66	1/2	2,615.55	1/2	2,256.41
3/4		3/4		3/4	4,311.41	3/4	4,141.94	3/4	3,969.08	3/4	3,779.29	3/4	3,586.17	3/4	3,322.78	3/4	2,965.20	3/4	2,608.16	3/4	2,248.92
5		5		5	4,307.44	5	4,138.52	5	3,965.27	5	3,775.27	5	3,582.15	5	3,315.33	5	2,957.74	5	2,600.68	5	2,241.44
1/4		1/4		1/4	4,303.47	1/4	4,135.10	1/4	3,961.46	1/4	3,771.25	1/4	3,578.13	1/4	3,307.88	1/4	2,950.27	1/4	2,593.19	1/4	2,233.96
1/2		1/2		1/2	4,299.50	1/2	4,131.69	1/2	3,957.65	1/2	3,767.22	1/2	3,574.10	1/2	3,300.43	1/2	2,942.81	1/2	2,585.71	1/2	2,226.47
3/4		3/4		3/4	4,295.53	3/4	4,128.27	3/4	3,953.84	3/4	3,763.20	3/4	3,570.08	3/4	3,292.98	3/4	2,935.35	3/4	2,578.23	3/4	2,218.99
6		6		6	4,291.55	6	4,124.82	6	3,949.99	6	3,759.18	6	3,566.06	6	3,285.54	6	2,927.89	6	2,570.74	6	2,211.50
1/4		1/4		1/4	4,287.58	1/4	4,121.37	1/4	3,946.15	1/4	3,755.15	1/4	3,562.03	1/4	3,278.11	1/4	2,920.42	1/4	2,563.26	1/4	2,204.02
1/2		1/2		1/2	4,283.61	1/2	4,117.92	1/2	3,942.30	1/2	3,751.13	1/2	3,558.01	1/2	3,270.67	1/2	2,912.96	1/2	2,555.78	1/2	2,196.53
3/4		3/4		3/4	4,279.64	3/4	4,114.48	3/4	3,938.46	3/4	3,747.11	3/4	3,553.99	3/4	3,263.24	3/4	2,905.50	3/4	2,548.29	3/4	2,189.05
7		7		7	4,275.67	7	4,111.00	7	3,934.59	7	3,743.08	7	3,549.96	7	3,255.80	7	2,898.03	7	2,540.81	7	2,181.57
1/4		1/4		1/4	4,271.70	1/4	4,107.52	1/4	3,930.71	1/4	3,739.06	1/4	3,545.94	1/4	3,248.37	1/4	2,890.57	1/4	2,533.32	1/4	2,174.08
1/2		1/2		1/2	4,267.73	1/2	4,104.04	1/2	3,926.84	1/2	3,735.04	1/2	3,541.92	1/2	3,240.93	1/2	2,883.11	1/2	2,525.84	1/2	2,166.60
3/4		3/4		3/4	4,263.76	3/4	4,100.56	3/4	3,922.97	3/4	3,731.01	3/4	3,537.89	3/4	3,233.49	3/4	2,875.64	3/4	2,518.35	3/4	2,159.11
8		8		8	4,259.84	8	4,097.03	8	3,919.06	8	3,726.99	8	3,533.87	8	3,226.06	8	2,868.17	8	2,510.87	8	2,151.63
1/4		1/4		1/4	4,255.93	1/4	4,093.50	1/4	3,915.16	1/4	3,722.97	1/4	3,529.85	1/4	3,218.62	1/4	2,860.70	1/4	2,503.39	1/4	2,144.14
1/2		1/2		1/2	4,252.01	1/2	4,089.98	1/2	3,911.25	1/2	3,718.94	1/2	3,525.82	1/2	3,211.19	1/2	2,853.23	1/2	2,495.90	1/2	2,136.66
3/4		3/4		3/4	4,248.09	3/4	4,086.45	3/4	3,907.35	3/4	3,714.92	3/4	3,521.80	3/4	3,203.75	3/4	2,845.76	3/4	2,488.42	3/4	2,129.18
9		9		9	4,244.58	9	4,082.89	9	3,903.42	9	3,710.90	9	3,517.78	9	3,196.32	9	2,838.29	9	2,480.93	9	2,121.69
1/4		1/4		1/4	4,241.07	1/4	4,079.33	1/4	3,899.48	1/4	3,706.87	1/4	3,513.75	1/4	3,188.88	1/4	2,830.82	1/4	2,473.45	1/4	2,114.21
1/2		1/2		1/2	4,237.57	1/2	4,075.77	1/2	3,895.55	1/2	3,702.85	1/2	3,509.73	1/2	3,181.44	1/2	2,823.35	1/2	2,465.97	1/2	2,106.72
3/4		3/4		3/4	4,234.06	3/4	4,072.21	3/4	3,891.61	3/4	3,698.83	3/4	3,505.71	3/4	3,174.01	3/4	2,815.88	3/4	2,458.48	3/4	2,099.24
10		10		10	4,230.86	10	4,068.62	10	3,887.65	10	3,694.80	10	3,501.68	10	3,166.57	10	2,808.41	10	2,451.00	10	2,091.76
1/4		1/4		1/4	4,227.67	1/4	4,065.03	1/4	3,883.68	1/4	3,690.78	1/4	3,497.66	1/4	3,159.14	1/4	2,800.94	1/4	2,443.51	1/4	2,084.27
1/2		1/2		1/2	4,224.48	1/2	4,061.44	1/2	3,879.71	1/2	3,686.76	1/2	3,493.64	1/2	3,151.70	1/2	2,793.47	1/2	2,436.03	1/2	2,076.79
3/4		3/4		3/4	4,221.28	3/4	4,057.85	3/4	3,875.74	3/4	3,682.73	3/4	3,489.61	3/4	3,144.26	3/4	2,786.00	3/4	2,428.54	3/4	2,069.30
11		11		11	4,218.06	11	4,054.23	11	3,871.74	11	3,678.71	11	3,485.16	11	3,136.82	11	2,778.53	11	2,421.06	11	2,061.82
1/4		1/4		1/4	4,214.83	1/4	4,050.62	1/4	3,867.74	1/4	3,674.69	1/4	3,480.71	1/4	3,129.38	1/4	2,771.06	1/4	2,413.58	1/4	2,054.33
1/2		1/2		1/2	4,211.60	1/2	4,047.00	1/2	3,863.74	1/2	3,670.66	1/2	3,476.26	1/2	3,121.94	1/2	2,763.59	1/2	2,406.09	1/2	2,046.85
3/4		3/4		3/4	4,208.37	3/4	4,043.38	3/4	3,859.74	3/4	3,666.64	3/4	3,471.81	3/4	3,114.50	3/4	2,756.12	3/4	2,398.61	3/4	2,039.37

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" DIAMETER "HERMETIC" VALVE.
 GAUGE POINT: (HERMETIC) LOCATED 10'-06" OFF CENTERLINE AND 55'-03" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



BARGE "EMS 517"

3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08 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	2,031.88	0	1,672.56	0	1,314.56	0	965.27	0	613.01	0	256.76	0		0		0		0	
1/4	2,024.40	1/4	1,665.07	1/4	1,307.14	1/4	958.12	1/4	605.52	1/4	249.42	1/4		1/4		1/4		1/4	
1/2	2,016.91	1/2	1,657.59	1/2	1,299.71	1/2	950.97	1/2	598.03	1/2	242.08	1/2		1/2		1/2		1/2	
3/4	2,009.43	3/4	1,650.10	3/4	1,292.29	3/4	943.82	3/4	590.54	3/4	234.73	3/4		3/4		3/4		3/4	
1	2,001.94	1	1,642.62	1	1,284.86	1	936.67	1	583.05	1	227.39	1		1		1		1	
1/4	1,994.46	1/4	1,635.13	1/4	1,277.44	1/4	929.52	1/4	575.57	1/4	220.05	1/4		1/4		1/4		1/4	
1/2	1,986.97	1/2	1,627.64	1/2	1,270.02	1/2	922.37	1/2	568.08	1/2	212.71	1/2		1/2		1/2		1/2	
3/4	1,979.49	3/4	1,620.16	3/4	1,262.59	3/4	915.22	3/4	560.59	3/4	205.37	3/4		3/4		3/4		3/4	
2	1,972.00	2	1,612.67	2	1,255.17	2	908.06	2	553.10	2	198.02	2		2		2		2	
1/4	1,964.51	1/4	1,605.19	1/4	1,247.75	1/4	900.90	1/4	545.61	1/4	190.66	1/4		1/4		1/4		1/4	
1/2	1,957.03	1/2	1,597.70	1/2	1,240.32	1/2	893.75	1/2	538.13	1/2	183.30	1/2		1/2		1/2		1/2	
3/4	1,949.54	3/4	1,590.21	3/4	1,232.90	3/4	886.59	3/4	530.64	3/4	175.94	3/4		3/4		3/4		3/4	
3	1,942.06	3	1,582.73	3	1,225.50	3	879.42	3	523.15	3	168.47	3		3		3		3	
1/4	1,934.57	1/4	1,575.24	1/4	1,218.09	1/4	872.24	1/4	515.66	1/4	161.00	1/4		1/4		1/4		1/4	
1/2	1,927.08	1/2	1,567.76	1/2	1,210.68	1/2	865.06	1/2	508.17	1/2	153.52	1/2		1/2		1/2		1/2	
3/4	1,919.60	3/4	1,560.27	3/4	1,203.27	3/4	857.89	3/4	500.69	3/4	146.05	3/4		3/4		3/4		3/4	
4	1,912.11	4	1,552.78	4	1,195.86	4	850.71	4	493.20	4	138.57	4		4		4		4	
1/4	1,904.63	1/4	1,545.30	1/4	1,188.46	1/4	843.53	1/4	485.71	1/4	131.09	1/4		1/4		1/4		1/4	
1/2	1,897.14	1/2	1,537.81	1/2	1,181.05	1/2	836.35	1/2	478.22	1/2	123.61	1/2		1/2		1/2		1/2	
3/4	1,889.65	3/4	1,530.33	3/4	1,173.64	3/4	829.17	3/4	470.73	3/4	116.14	3/4		3/4		3/4		3/4	
5	1,882.17	5	1,522.84	5	1,166.24	5	821.93	5	463.25	5	108.74	5		5		5		5	
1/4	1,874.68	1/4	1,515.35	1/4	1,158.84	1/4	814.69	1/4	455.76	1/4	101.35	1/4		1/4		1/4		1/4	
1/2	1,867.20	1/2	1,507.87	1/2	1,151.44	1/2	807.45	1/2	448.27	1/2	93.95	1/2		1/2		1/2		1/2	
3/4	1,859.71	3/4	1,500.38	3/4	1,144.04	3/4	800.21	3/4	440.78	3/4	86.56	3/4		3/4		3/4		3/4	
6	1,852.22	6	1,492.90	6	1,136.89	6	792.72	6	433.31	6	79.87	6		6		6		6	
1/4	1,844.74	1/4	1,485.43	1/4	1,129.74	1/4	785.23	1/4	425.84	1/4	73.19	1/4		1/4		1/4		1/4	
1/2	1,837.25	1/2	1,477.95	1/2	1,122.59	1/2	777.74	1/2	418.38	1/2	66.51	1/2		1/2		1/2		1/2	
3/4	1,829.77	3/4	1,470.47	3/4	1,115.44	3/4	770.25	3/4	410.91	3/4	59.83	3/4		3/4		3/4		3/4	
7	1,822.28	7	1,463.04	7	1,108.29	7	762.77	7	403.57	7	54.38	7		7		7		7	
1/4	1,814.79	1/4	1,455.62	1/4	1,101.14	1/4	755.28	1/4	396.23	1/4	48.94	1/4		1/4		1/4		1/4	
1/2	1,807.31	1/2	1,448.20	1/2	1,093.99	1/2	747.79	1/2	388.89	1/2	43.50	1/2		1/2		1/2		1/2	
3/4	1,799.82	3/4	1,440.77	3/4	1,086.84	3/4	740.30	3/4	381.54	3/4	38.05	3/4		3/4		3/4		3/4	
8	1,792.34	8	1,433.35	8	1,079.69	8	732.81	8	374.20	8	33.85	8		8		8		8	
1/4	1,784.85	1/4	1,425.92	1/4	1,072.54	1/4	725.33	1/4	366.86	1/4	29.64	1/4		1/4		1/4		1/4	
1/2	1,777.36	1/2	1,418.50	1/2	1,065.39	1/2	717.84	1/2	359.52	1/2	25.44	1/2		1/2		1/2		1/2	
3/4	1,769.88	3/4	1,411.08	3/4	1,058.23	3/4	710.35	3/4	352.18	3/4	21.24	3/4		3/4		3/4		3/4	
9	1,762.39	9	1,403.65	9	1,051.08	9	702.86	9	344.84	9		9		9		9		9	
1/4	1,754.91	1/4	1,396.23	1/4	1,043.93	1/4	695.37	1/4	337.50	1/4		1/4		1/4		1/4		1/4	
1/2	1,747.42	1/2	1,388.80	1/2	1,036.78	1/2	687.89	1/2	330.16	1/2		1/2		1/2		1/2		1/2	
3/4	1,739.93	3/4	1,381.38	3/4	1,029.63	3/4	680.40	3/4	322.82	3/4		3/4		3/4		3/4		3/4	
10	1,732.45	10	1,373.95	10	1,022.48	10	672.91	10	315.48	10		10		10		10		10	
1/4	1,724.96	1/4	1,366.53	1/4	1,015.33	1/4	665.42	1/4	308.14	1/4		1/4		1/4		1/4		1/4	
1/2	1,717.48	1/2	1,359.11	1/2	1,008.18	1/2	657.93	1/2	300.80	1/2		1/2		1/2		1/2		1/2	
3/4	1,709.99	3/4	1,351.68	3/4	1,001.03	3/4	650.45	3/4	293.46	3/4		3/4		3/4		3/4		3/4	
11	1,702.50	11	1,344.26	11	993.88	11	642.96	11	286.12	11		11		11		11		11	
1/4	1,695.02	1/4	1,336.83	1/4	986.73	1/4	635.47	1/4	278.78	1/4		1/4		1/4		1/4		1/4	
1/2	1,687.53	1/2	1,329.41	1/2	979.58	1/2	627.98	1/2	271.44	1/2		1/2		1/2		1/2		1/2	
3/4	1,680.05	3/4	1,321.98	3/4	972.42	3/4	620.49	3/4	264.10	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 04/23/2020 CL
CALCULATED: 04/26/2020 CL
PRINTED: 04/28/2020 CL

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092
Pearland, Texas 77588

<http://www.pmacorp.net>



CANCELS AND SUPERCEDES
ALL PRIOR TO 04/2020



BARGE "EMS 517"

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 PORT	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	00-3/8	- 00-3/8
1 STBD	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	00-3/8	- 00-3/8
2 PORT	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	00-3/8	- 00-3/8
2 STBD	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	00-3/8	- 00-3/8
3 PORT	- 00-5/8	00-5/8	- 01-1/4	01-1/4	- 01-7/8	01-7/8	- 02-1/2	02-1/2	- 03-0/8	03-0/8	- 03-5/8	03-5/8
3 STBD	- 00-5/8	00-5/8	- 01-1/4	01-1/4	- 01-7/8	01-7/8	- 02-1/2	02-1/2	- 03-0/8	03-0/8	- 03-5/8	03-5/8

(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)

THE CORRECTION FOR 2'-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 3'-11 7/8"

LENGTH BETWEEN DRAFT MARKS: 238'-00"

April 23, 2020

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092
Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "EMS 517"

1 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08 1/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	20.63	0	296.56	0	648.69	0	1,011.12	0	1,373.56	0	1,736.24	0	2,098.92	0	2,461.61	0	2,824.19	0	3,186.74
1/4	23.32	1/4	303.35	1/4	656.24	1/4	1,018.67	1/4	1,381.11	1/4	1,743.80	1/4	2,106.48	1/4	2,469.16	1/4	2,831.75	1/4	3,194.30
1/2	26.01	1/2	310.15	1/2	663.80	1/2	1,026.21	1/2	1,388.67	1/2	1,751.35	1/2	2,114.03	1/2	2,476.72	1/2	2,839.30	1/2	3,201.85
3/4	28.70	3/4	316.94	3/4	671.35	3/4	1,033.76	3/4	1,396.22	3/4	1,758.91	3/4	2,121.59	3/4	2,484.27	3/4	2,846.85	3/4	3,209.40
1	31.40	1	323.74	1	678.91	1	1,041.30	1	1,403.78	1	1,766.46	1	2,129.15	1	2,491.83	1	2,854.41	1	3,216.96
1/4	35.24	1/4	330.62	1/4	686.47	1/4	1,048.84	1/4	1,411.34	1/4	1,774.02	1/4	2,136.70	1/4	2,499.39	1/4	2,861.96	1/4	3,224.51
1/2	39.08	1/2	337.51	1/2	694.02	1/2	1,056.39	1/2	1,418.89	1/2	1,781.57	1/2	2,144.26	1/2	2,506.94	1/2	2,869.51	1/2	3,232.06
3/4	42.93	3/4	344.40	3/4	701.58	3/4	1,063.93	3/4	1,426.45	3/4	1,789.13	3/4	2,151.81	3/4	2,514.50	3/4	2,877.07	3/4	3,239.61
2	46.77	2	351.29	2	709.13	2	1,071.47	2	1,434.00	2	1,796.69	2	2,159.37	2	2,522.05	2	2,884.62	2	3,247.17
1/4	51.97	1/4	358.41	1/4	716.69	1/4	1,079.02	1/4	1,441.56	1/4	1,804.24	1/4	2,166.93	1/4	2,529.61	1/4	2,892.17	1/4	3,254.72
1/2	57.17	1/2	365.52	1/2	724.24	1/2	1,086.56	1/2	1,449.12	1/2	1,811.80	1/2	2,174.48	1/2	2,537.16	1/2	2,899.73	1/2	3,262.27
3/4	62.36	3/4	372.63	3/4	731.80	3/4	1,094.11	3/4	1,456.67	3/4	1,819.35	3/4	2,182.04	3/4	2,544.72	3/4	2,907.28	3/4	3,269.83
3	67.56	3	379.74	3	739.35	3	1,101.65	3	1,464.23	3	1,826.91	3	2,189.59	3	2,552.28	3	2,914.83	3	3,277.38
1/4	73.56	1/4	386.97	1/4	746.91	1/4	1,109.19	1/4	1,471.78	1/4	1,834.47	1/4	2,197.15	1/4	2,559.83	1/4	2,922.38	1/4	3,284.93
1/2	79.56	1/2	394.19	1/2	754.47	1/2	1,116.74	1/2	1,479.34	1/2	1,842.02	1/2	2,204.71	1/2	2,567.39	1/2	2,929.94	1/2	3,292.49
3/4	85.56	3/4	401.42	3/4	762.02	3/4	1,124.28	3/4	1,486.89	3/4	1,849.58	3/4	2,212.26	3/4	2,574.94	3/4	2,937.49	3/4	3,300.04
4	91.56	4	408.65	4	769.58	4	1,131.82	4	1,494.45	4	1,857.13	4	2,219.82	4	2,582.50	4	2,945.04	4	3,307.59
1/4	97.74	1/4	415.97	1/4	777.13	1/4	1,139.37	1/4	1,502.01	1/4	1,864.69	1/4	2,227.37	1/4	2,590.05	1/4	2,952.60	1/4	3,315.15
1/2	103.91	1/2	423.29	1/2	784.69	1/2	1,146.91	1/2	1,509.56	1/2	1,872.25	1/2	2,234.93	1/2	2,597.60	1/2	2,960.15	1/2	3,322.70
3/4	110.08	3/4	430.61	3/4	792.24	3/4	1,154.45	3/4	1,517.12	3/4	1,879.80	3/4	2,242.48	3/4	2,605.15	3/4	2,967.70	3/4	3,330.25
5	116.26	5	437.93	5	799.80	5	1,162.00	5	1,524.67	5	1,887.36	5	2,250.04	5	2,612.71	5	2,975.26	5	3,337.81
1/4	122.53	1/4	445.34	1/4	807.35	1/4	1,169.55	1/4	1,532.23	1/4	1,894.91	1/4	2,257.60	1/4	2,620.26	1/4	2,982.81	1/4	3,345.36
1/2	128.79	1/2	452.75	1/2	814.91	1/2	1,177.11	1/2	1,539.79	1/2	1,902.47	1/2	2,265.15	1/2	2,627.81	1/2	2,990.36	1/2	3,352.91
3/4	135.06	3/4	460.17	3/4	822.47	3/4	1,184.66	3/4	1,547.34	3/4	1,910.03	3/4	2,272.71	3/4	2,635.37	3/4	2,997.92	3/4	3,360.46
6	141.33	6	467.58	6	830.02	6	1,192.21	6	1,554.90	6	1,917.58	6	2,280.26	6	2,642.92	6	3,005.47	6	3,368.02
1/4	147.57	1/4	475.09	1/4	837.58	1/4	1,199.77	1/4	1,562.45	1/4	1,925.14	1/4	2,287.82	1/4	2,650.47	1/4	3,013.02	1/4	3,375.57
1/2	153.82	1/2	482.59	1/2	845.13	1/2	1,207.33	1/2	1,570.01	1/2	1,932.69	1/2	2,295.38	1/2	2,658.03	1/2	3,020.57	1/2	3,383.12
3/4	160.07	3/4	490.09	3/4	852.69	3/4	1,214.88	3/4	1,577.57	3/4	1,940.25	3/4	2,302.93	3/4	2,665.58	3/4	3,028.13	3/4	3,390.68
7	166.31	7	497.60	7	860.24	7	1,222.44	7	1,585.12	7	1,947.80	7	2,310.49	7	2,673.13	7	3,035.68	7	3,398.23
1/4	172.64	1/4	505.15	1/4	867.79	1/4	1,229.99	1/4	1,592.68	1/4	1,955.36	1/4	2,318.04	1/4	2,680.69	1/4	3,043.23	1/4	3,405.78
1/2	178.96	1/2	512.70	1/2	875.33	1/2	1,237.55	1/2	1,600.23	1/2	1,962.92	1/2	2,325.60	1/2	2,688.24	1/2	3,050.79	1/2	3,413.34
3/4	185.28	3/4	520.25	3/4	882.88	3/4	1,245.11	3/4	1,607.79	3/4	1,970.47	3/4	2,333.16	3/4	2,695.79	3/4	3,058.34	3/4	3,420.89
8	191.61	8	527.80	8	890.43	8	1,252.66	8	1,615.35	8	1,978.03	8	2,340.71	8	2,703.34	8	3,065.89	8	3,428.44
1/4	198.02	1/4	535.35	1/4	897.97	1/4	1,260.22	1/4	1,622.90	1/4	1,985.58	1/4	2,348.27	1/4	2,710.90	1/4	3,073.45	1/4	3,436.00
1/2	204.44	1/2	542.91	1/2	905.51	1/2	1,267.77	1/2	1,630.46	1/2	1,993.14	1/2	2,355.82	1/2	2,718.45	1/2	3,081.00	1/2	3,443.55
3/4	210.86	3/4	550.46	3/4	913.06	3/4	1,275.33	3/4	1,638.01	3/4	2,000.70	3/4	2,363.38	3/4	2,726.00	3/4	3,088.55	3/4	3,451.10
9	217.28	9	558.02	9	920.60	9	1,282.89	9	1,645.57	9	2,008.25	9	2,370.94	9	2,733.56	9	3,096.11	9	3,458.65
1/4	223.79	1/4	565.58	1/4	928.14	1/4	1,290.44	1/4	1,653.12	1/4	2,015.81	1/4	2,378.49	1/4	2,741.11	1/4	3,103.66	1/4	3,466.21
1/2	230.30	1/2	573.13	1/2	935.69	1/2	1,298.00	1/2	1,660.68	1/2	2,023.36	1/2	2,386.05	1/2	2,748.66	1/2	3,111.21	1/2	3,473.76
3/4	236.81	3/4	580.69	3/4	943.23	3/4	1,305.55	3/4	1,668.24	3/4	2,030.92	3/4	2,393.60	3/4	2,756.22	3/4	3,118.77	3/4	3,481.31
10	243.33	10	588.24	10	950.78	10	1,313.11	10	1,675.79	10	2,038.48	10	2,401.16	10	2,763.77	10	3,126.32	10	3,488.87
1/4	249.93	1/4	595.80	1/4	958.32	1/4	1,320.66	1/4	1,683.35	1/4	2,046.03	1/4	2,408.71	1/4	2,771.32	1/4	3,133.87	1/4	3,496.42
1/2	256.54	1/2	603.35	1/2	965.86	1/2	1,328.22	1/2	1,690.90	1/2	2,053.59	1/2	2,416.27	1/2	2,778.88	1/2	3,141.42	1/2	3,503.97
3/4	263.15	3/4	610.91	3/4	973.41	3/4	1,335.78	3/4	1,698.46	3/4	2,061.14	3/4	2,423.83	3/4	2,786.43	3/4	3,148.98	3/4	3,511.53
11	269.75	11	618.46	11	980.95	11	1,343.33	11	1,706.02	11	2,068.70	11	2,431.38	11	2,793.98	11	3,156.53	11	3,519.08
1/4	276.45	1/4	626.02	1/4	988.49	1/4	1,350.89	1/4	1,713.57	1/4	2,076.25	1/4	2,438.94	1/4	2,801.53	1/4	3,164.08	1/4	3,526.63
1/2	283.15	1/2	633.58	1/2	996.04	1/2	1,358.44	1/2	1,721.13	1/2	2,083.81	1/2	2,446.49	1/2	2,809.09	1/2	3,171.64	1/2	3,534.19
3/4	289.85	3/4	641.13	3/4	1,003.58	3/4	1,366.00	3/4	1,728.68	3/4	2,091.37	3/4	2,454.05	3/4	2,816.64	3/4	3,179.19	3/4	3,541.74

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" DIAMETER "HERMETIC" VALVE.
 GAUGE POINT: (HERMETIC) LOCATED 10'-06" OFF CENTERLINE AND 42'-03" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



BARGE "EMS 517"

1 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08 1/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	3,549.29	0	3,911.84	0	4,273.70	0	4,622.13	0	4,952.23	0		0		0		0		0	
1/4	3,556.84	1/4	3,919.39	1/4	4,281.14	1/4	4,629.18	1/4	4,959.64	1/4		1/4		1/4		1/4		1/4	
1/2	3,564.40	1/2	3,926.95	1/2	4,288.57	1/2	4,636.23	1/2	4,967.04	1/2		1/2		1/2		1/2		1/2	
3/4	3,571.95	3/4	3,934.50	3/4	4,296.00	3/4	4,643.28	3/4	4,974.44	3/4		3/4		3/4		3/4		3/4	
1	3,579.50	1	3,942.05	1	4,303.44	1	4,650.34	1	4,981.84	1		1		1		1		1	
1/4	3,587.06	1/4	3,949.61	1/4	4,310.84	1/4	4,657.33	1/4	4,989.30	1/4		1/4		1/4		1/4		1/4	
1/2	3,594.61	1/2	3,957.16	1/2	4,318.24	1/2	4,664.32	1/2	4,996.75	1/2		1/2		1/2		1/2		1/2	
3/4	3,602.16	3/4	3,964.71	3/4	4,325.64	3/4	4,671.32	3/4	5,004.21	3/4		3/4		3/4		3/4		3/4	
2	3,609.72	2	3,972.27	2	4,333.05	2	4,678.31	2	5,011.66	2		2		2		2		2	
1/4	3,617.27	1/4	3,979.82	1/4	4,340.42	1/4	4,685.27	1/4	5,019.12	1/4		1/4		1/4		1/4		1/4	
1/2	3,624.82	1/2	3,987.37	1/2	4,347.79	1/2	4,692.23	1/2	5,026.57	1/2		1/2		1/2		1/2		1/2	
3/4	3,632.38	3/4	3,994.92	3/4	4,355.16	3/4	4,699.18	3/4	5,034.03	3/4		3/4		3/4		3/4		3/4	
3	3,639.93	3	4,002.48	3	4,362.54	3	4,706.14	3	5,041.48	3		3		3		3		3	
1/4	3,647.48	1/4	4,010.03	1/4	4,369.87	1/4	4,713.07	1/4	5,048.94	1/4		1/4		1/4		1/4		1/4	
1/2	3,655.04	1/2	4,017.58	1/2	4,377.21	1/2	4,720.00	1/2	5,056.39	1/2		1/2		1/2		1/2		1/2	
3/4	3,662.59	3/4	4,025.14	3/4	4,384.55	3/4	4,726.93	3/4	5,063.85	3/4		3/4		3/4		3/4		3/4	
4	3,670.14	4	4,032.69	4	4,391.89	4	4,733.86	4	5,071.30	4		4		4		4		4	
1/4	3,677.69	1/4	4,040.24	1/4	4,399.20	1/4	4,740.75	1/4	5,078.76	1/4		1/4		1/4		1/4		1/4	
1/2	3,685.25	1/2	4,047.80	1/2	4,406.50	1/2	4,747.65	1/2	5,086.21	1/2		1/2		1/2		1/2		1/2	
3/4	3,692.80	3/4	4,055.35	3/4	4,413.81	3/4	4,754.54	3/4	5,093.67	3/4		3/4		3/4		3/4		3/4	
5	3,700.35	5	4,062.90	5	4,421.11	5	4,761.44	5	5,101.12	5		5		5		5		5	
1/4	3,707.91	1/4	4,070.46	1/4	4,428.38	1/4	4,768.30	1/4	5,108.44	1/4		1/4		1/4		1/4		1/4	
1/2	3,715.46	1/2	4,078.01	1/2	4,435.66	1/2	4,775.16	1/2	5,115.76	1/2		1/2		1/2		1/2		1/2	
3/4	3,723.01	3/4	4,085.56	3/4	4,442.93	3/4	4,782.02	3/4	5,123.08	3/4		3/4		3/4		3/4		3/4	
6	3,730.57	6	4,093.12	6	4,450.21	6	4,788.88	6	5,130.39	6		6		6		6		6	
1/4	3,738.12	1/4	4,100.67	1/4	4,457.45	1/4	4,795.71	1/4	5,136.73	1/4		1/4		1/4		1/4		1/4	
1/2	3,745.67	1/2	4,108.22	1/2	4,464.70	1/2	4,802.54	1/2	5,143.06	1/2		1/2		1/2		1/2		1/2	
3/4	3,753.23	3/4	4,115.77	3/4	4,471.94	3/4	4,809.37	3/4	5,149.39	3/4		3/4		3/4		3/4		3/4	
7	3,760.78	7	4,123.33	7	4,479.18	7	4,816.21	7	5,155.73	7		7		7		7		7	
1/4	3,768.33	1/4	4,130.88	1/4	4,486.40	1/4	4,823.01	1/4	5,160.84	1/4		1/4		1/4		1/4		1/4	
1/2	3,775.88	1/2	4,138.43	1/2	4,493.61	1/2	4,829.81	1/2	5,165.96	1/2		1/2		1/2		1/2		1/2	
3/4	3,783.44	3/4	4,145.99	3/4	4,500.82	3/4	4,836.61	3/4	5,171.08	3/4		3/4		3/4		3/4		3/4	
8	3,790.99	8	4,153.54	8	4,508.03	8	4,843.41	8	5,176.20	8		8		8		8		8	
1/4	3,798.54	1/4	4,161.09	1/4	4,515.20	1/4	4,850.18	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,806.10	1/2	4,168.64	1/2	4,522.38	1/2	4,856.95	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,813.65	3/4	4,176.19	3/4	4,529.56	3/4	4,863.72	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,821.20	9	4,183.74	9	4,536.74	9	4,870.49	9		9		9		9		9		9	
1/4	3,828.76	1/4	4,191.27	1/4	4,543.88	1/4	4,877.23	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,836.31	1/2	4,198.80	1/2	4,551.03	1/2	4,883.97	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,843.86	3/4	4,206.33	3/4	4,558.17	3/4	4,890.70	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,851.42	10	4,213.86	10	4,565.32	10	4,897.44	10		10		10		10		10		10	
1/4	3,858.97	1/4	4,221.36	1/4	4,572.44	1/4	4,904.15	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,866.52	1/2	4,228.86	1/2	4,579.55	1/2	4,910.85	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,874.08	3/4	4,236.35	3/4	4,586.67	3/4	4,917.56	3/4		3/4		3/4		3/4		3/4		3/4	
11	3,881.63	11	4,243.85	11	4,593.78	11	4,924.26	11		11		11		11		11		11	
1/4	3,889.18	1/4	4,251.31	1/4	4,600.87	1/4	4,931.26	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,896.73	1/2	4,258.78	1/2	4,607.96	1/2	4,938.25	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,904.29	3/4	4,266.24	3/4	4,615.04	3/4	4,945.24	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 04/23/2020 CL
CALCULATED: 04/26/2020 CL
PRINTED: 04/28/2020 CL

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092
Pearland, Texas 77588

<http://www.pmacorp.net>

CANCELS AND SUPERCEDES
ALL PRIOR TO 04/2020



BARGE "EMS 517"

1 STBD INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08 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	20.65	0	296.96	0	649.50	0	1,011.42	0	1,373.30	0	1,736.39	0	2,099.49	0	2,462.58	0	2,825.37	0	3,188.34
1/4	23.35	1/4	303.76	1/4	657.06	1/4	1,018.93	1/4	1,380.86	1/4	1,743.96	1/4	2,107.05	1/4	2,470.15	1/4	2,832.94	1/4	3,195.90
1/2	26.05	1/2	310.57	1/2	664.63	1/2	1,026.45	1/2	1,388.42	1/2	1,751.52	1/2	2,114.62	1/2	2,477.71	1/2	2,840.50	1/2	3,203.46
3/4	28.74	3/4	317.37	3/4	672.19	3/4	1,033.96	3/4	1,395.99	3/4	1,759.08	3/4	2,122.18	3/4	2,485.28	3/4	2,848.06	3/4	3,211.02
1	31.44	1	324.17	1	679.76	1	1,041.47	1	1,403.55	1	1,766.65	1	2,129.75	1	2,492.84	1	2,855.62	1	3,218.58
1/4	35.29	1/4	331.07	1/4	687.32	1/4	1,048.98	1/4	1,411.12	1/4	1,774.21	1/4	2,137.31	1/4	2,500.41	1/4	2,863.18	1/4	3,226.14
1/2	39.14	1/2	337.97	1/2	694.89	1/2	1,056.50	1/2	1,418.68	1/2	1,781.78	1/2	2,144.87	1/2	2,507.97	1/2	2,870.74	1/2	3,233.71
3/4	42.99	3/4	344.87	3/4	702.45	3/4	1,064.01	3/4	1,426.25	3/4	1,789.34	3/4	2,152.44	3/4	2,515.53	3/4	2,878.31	3/4	3,241.27
2	46.84	2	351.77	2	710.01	2	1,071.52	2	1,433.81	2	1,796.91	2	2,160.00	2	2,523.10	2	2,885.87	2	3,248.83
1/4	52.04	1/4	358.89	1/4	717.58	1/4	1,079.03	1/4	1,441.38	1/4	1,804.47	1/4	2,167.57	1/4	2,530.66	1/4	2,893.43	1/4	3,256.39
1/2	57.25	1/2	366.01	1/2	725.14	1/2	1,086.55	1/2	1,448.94	1/2	1,812.04	1/2	2,175.13	1/2	2,538.23	1/2	2,900.99	1/2	3,263.95
3/4	62.45	3/4	373.13	3/4	732.71	3/4	1,094.06	3/4	1,456.50	3/4	1,819.60	3/4	2,182.70	3/4	2,545.79	3/4	2,908.55	3/4	3,271.51
3	67.66	3	380.25	3	740.27	3	1,101.57	3	1,464.07	3	1,827.17	3	2,190.26	3	2,553.36	3	2,916.11	3	3,279.08
1/4	73.67	1/4	387.48	1/4	747.83	1/4	1,109.08	1/4	1,471.63	1/4	1,834.73	1/4	2,197.83	1/4	2,560.92	1/4	2,923.68	1/4	3,286.64
1/2	79.68	1/2	394.72	1/2	755.40	1/2	1,116.60	1/2	1,479.20	1/2	1,842.29	1/2	2,205.39	1/2	2,568.48	1/2	2,931.24	1/2	3,294.20
3/4	85.69	3/4	401.95	3/4	762.96	3/4	1,124.11	3/4	1,486.76	3/4	1,849.86	3/4	2,212.95	3/4	2,576.04	3/4	2,938.80	3/4	3,301.76
4	91.70	4	409.19	4	770.53	4	1,131.62	4	1,494.33	4	1,857.42	4	2,220.52	4	2,583.60	4	2,946.36	4	3,309.32
1/4	97.88	1/4	416.52	1/4	778.09	1/4	1,139.14	1/4	1,501.89	1/4	1,864.99	1/4	2,228.08	1/4	2,591.15	1/4	2,953.92	1/4	3,316.88
1/2	104.06	1/2	423.84	1/2	785.65	1/2	1,146.65	1/2	1,509.46	1/2	1,872.55	1/2	2,235.65	1/2	2,598.70	1/2	2,961.48	1/2	3,324.45
3/4	110.24	3/4	431.17	3/4	793.22	3/4	1,154.16	3/4	1,517.02	3/4	1,880.12	3/4	2,243.21	3/4	2,606.25	3/4	2,969.05	3/4	3,332.01
5	116.42	5	438.50	5	800.78	5	1,161.67	5	1,524.59	5	1,887.68	5	2,250.78	5	2,613.80	5	2,976.61	5	3,339.57
1/4	122.70	1/4	445.92	1/4	808.35	1/4	1,169.20	1/4	1,532.15	1/4	1,895.25	1/4	2,258.34	1/4	2,621.35	1/4	2,984.17	1/4	3,347.13
1/2	128.98	1/2	453.35	1/2	815.91	1/2	1,176.72	1/2	1,539.71	1/2	1,902.81	1/2	2,265.91	1/2	2,628.90	1/2	2,991.73	1/2	3,354.69
3/4	135.25	3/4	460.77	3/4	823.48	3/4	1,184.24	3/4	1,547.28	3/4	1,910.37	3/4	2,273.47	3/4	2,636.45	3/4	2,999.29	3/4	3,362.25
6	141.53	6	468.19	6	831.04	6	1,191.77	6	1,554.84	6	1,917.94	6	2,281.04	6	2,644.00	6	3,006.85	6	3,369.82
1/4	147.78	1/4	475.70	1/4	838.57	1/4	1,199.33	1/4	1,562.41	1/4	1,925.50	1/4	2,288.60	1/4	2,651.55	1/4	3,014.42	1/4	3,377.38
1/2	154.04	1/2	483.22	1/2	846.10	1/2	1,206.89	1/2	1,569.97	1/2	1,933.07	1/2	2,296.16	1/2	2,659.10	1/2	3,021.98	1/2	3,384.94
3/4	160.29	3/4	490.73	3/4	853.63	3/4	1,214.45	3/4	1,577.54	3/4	1,940.63	3/4	2,303.73	3/4	2,666.65	3/4	3,029.54	3/4	3,392.50
7	166.55	7	498.24	7	861.16	7	1,222.01	7	1,585.10	7	1,948.20	7	2,311.29	7	2,674.20	7	3,037.10	7	3,400.06
1/4	172.88	1/4	505.80	1/4	868.67	1/4	1,229.57	1/4	1,592.67	1/4	1,955.76	1/4	2,318.86	1/4	2,681.74	1/4	3,044.66	1/4	3,407.62
1/2	179.21	1/2	513.36	1/2	876.19	1/2	1,237.13	1/2	1,600.23	1/2	1,963.33	1/2	2,326.42	1/2	2,689.29	1/2	3,052.22	1/2	3,415.19
3/4	185.54	3/4	520.92	3/4	883.70	3/4	1,244.70	3/4	1,607.79	3/4	1,970.89	3/4	2,333.99	3/4	2,696.84	3/4	3,059.79	3/4	3,422.75
8	191.88	8	528.48	8	891.22	8	1,252.26	8	1,615.36	8	1,978.46	8	2,341.55	8	2,704.39	8	3,067.35	8	3,430.31
1/4	198.30	1/4	536.04	1/4	898.73	1/4	1,259.83	1/4	1,622.92	1/4	1,986.02	1/4	2,349.12	1/4	2,711.95	1/4	3,074.91	1/4	3,437.87
1/2	204.73	1/2	543.60	1/2	906.24	1/2	1,267.39	1/2	1,630.49	1/2	1,993.58	1/2	2,356.68	1/2	2,719.51	1/2	3,082.47	1/2	3,445.43
3/4	211.15	3/4	551.17	3/4	913.75	3/4	1,274.96	3/4	1,638.05	3/4	2,001.15	3/4	2,364.24	3/4	2,727.07	3/4	3,090.03	3/4	3,452.99
9	217.58	9	558.73	9	921.27	9	1,282.52	9	1,645.62	9	2,008.71	9	2,371.81	9	2,734.63	9	3,097.59	9	3,460.56
1/4	224.10	1/4	566.30	1/4	928.78	1/4	1,290.09	1/4	1,653.18	1/4	2,016.28	1/4	2,379.37	1/4	2,742.19	1/4	3,105.16	1/4	3,468.12
1/2	230.62	1/2	573.86	1/2	936.29	1/2	1,297.65	1/2	1,660.75	1/2	2,023.84	1/2	2,386.94	1/2	2,749.76	1/2	3,112.72	1/2	3,475.68
3/4	237.14	3/4	581.42	3/4	943.81	3/4	1,305.21	3/4	1,668.31	3/4	2,031.41	3/4	2,394.50	3/4	2,757.32	3/4	3,120.28	3/4	3,483.24
10	243.66	10	588.99	10	951.32	10	1,312.78	10	1,675.88	10	2,038.97	10	2,402.07	10	2,764.88	10	3,127.84	10	3,490.80
1/4	250.28	1/4	596.55	1/4	958.83	1/4	1,320.34	1/4	1,683.44	1/4	2,046.54	1/4	2,409.63	1/4	2,772.44	1/4	3,135.40	1/4	3,498.36
1/2	256.89	1/2	604.12	1/2	966.34	1/2	1,327.91	1/2	1,691.00	1/2	2,054.10	1/2	2,417.20	1/2	2,780.00	1/2	3,142.97	1/2	3,505.93
3/4	263.51	3/4	611.68	3/4	973.86	3/4	1,335.47	3/4	1,698.57	3/4	2,061.66	3/4	2,424.76	3/4	2,787.57	3/4	3,150.53	3/4	3,513.49
11	270.12	11	619.24	11	981.37	11	1,343.04	11	1,706.13	11	2,069.23	11	2,432.33	11	2,795.13	11	3,158.09	11	3,521.05
1/4	276.83	1/4	626.81	1/4	988.88	1/4	1,350.60	1/4	1,713.70	1/4	2,076.79	1/4	2,439.89	1/4	2,802.69	1/4	3,165.65	1/4	3,528.61
1/2	283.54	1/2	634.37	1/2	996.39	1/2	1,358.17	1/2	1,721.26	1/2	2,084.36	1/2	2,447.45	1/2	2,810.25	1/2	3,173.21	1/2	3,536.17
3/4	290.25	3/4	641.94	3/4	1,003.91	3/4	1,365.73	3/4	1,728.83	3/4	2,091.92	3/4	2,455.02	3/4	2,817.81	3/4	3,180.77	3/4	3,543.74

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" DIAMETER "HERMETIC" VALVE.
 GAUGE POINT: (HERMETIC) LOCATED 10'-06" OFF CENTERLINE AND 42'-03" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



BARGE "EMS 517"

1 STBD INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08 3/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	3,551.30	0	3,914.26	0	4,276.52	0	4,625.35	0	4,955.87	0		0		0		0		0	
1/4	3,558.86	1/4	3,921.82	1/4	4,283.96	1/4	4,632.41	1/4	4,963.28	1/4		1/4		1/4		1/4		1/4	
1/2	3,566.42	1/2	3,929.38	1/2	4,291.40	1/2	4,639.47	1/2	4,970.69	1/2		1/2		1/2		1/2		1/2	
3/4	3,573.98	3/4	3,936.94	3/4	4,298.84	3/4	4,646.53	3/4	4,978.10	3/4		3/4		3/4		3/4		3/4	
1	3,581.54	1	3,944.51	1	4,306.28	1	4,653.59	1	4,985.51	1		1		1		1		1	
1/4	3,589.11	1/4	3,952.07	1/4	4,313.70	1/4	4,660.60	1/4	4,992.97	1/4		1/4		1/4		1/4		1/4	
1/2	3,596.67	1/2	3,959.63	1/2	4,321.11	1/2	4,667.60	1/2	5,000.44	1/2		1/2		1/2		1/2		1/2	
3/4	3,604.23	3/4	3,967.19	3/4	4,328.52	3/4	4,674.60	3/4	5,007.90	3/4		3/4		3/4		3/4		3/4	
2	3,611.79	2	3,974.75	2	4,335.93	2	4,681.60	2	5,015.36	2		2		2		2		2	
1/4	3,619.35	1/4	3,982.31	1/4	4,343.31	1/4	4,688.57	1/4	5,022.83	1/4		1/4		1/4		1/4		1/4	
1/2	3,626.91	1/2	3,989.88	1/2	4,350.69	1/2	4,695.53	1/2	5,030.29	1/2		1/2		1/2		1/2		1/2	
3/4	3,634.48	3/4	3,997.44	3/4	4,358.07	3/4	4,702.50	3/4	5,037.76	3/4		3/4		3/4		3/4		3/4	
3	3,642.04	3	4,005.00	3	4,365.45	3	4,709.47	3	5,045.22	3		3		3		3		3	
1/4	3,649.60	1/4	4,012.56	1/4	4,372.80	1/4	4,716.41	1/4	5,052.68	1/4		1/4		1/4		1/4		1/4	
1/2	3,657.16	1/2	4,020.12	1/2	4,380.15	1/2	4,723.34	1/2	5,060.15	1/2		1/2		1/2		1/2		1/2	
3/4	3,664.72	3/4	4,027.68	3/4	4,027.68	3/4	4,730.28	3/4	5,067.61	3/4		3/4		3/4		3/4		3/4	
4	3,672.28	4	4,035.25	4	4,394.84	4	4,737.22	4	5,075.07	4		4		4		4		4	
1/4	3,679.85	1/4	4,042.81	1/4	4,402.16	1/4	4,744.12	1/4	5,082.54	1/4		1/4		1/4		1/4		1/4	
1/2	3,687.41	1/2	4,050.37	1/2	4,409.47	1/2	4,751.03	1/2	5,090.00	1/2		1/2		1/2		1/2		1/2	
3/4	3,694.97	3/4	4,057.93	3/4	4,416.78	3/4	4,757.93	3/4	5,097.46	3/4		3/4		3/4		3/4		3/4	
5	3,702.53	5	4,065.49	5	4,424.10	5	4,764.83	5	5,104.93	5		5		5		5		5	
1/4	3,710.09	1/4	4,073.05	1/4	4,431.38	1/4	4,771.70	1/4	5,112.25	1/4		1/4		1/4		1/4		1/4	
1/2	3,717.65	1/2	4,080.62	1/2	4,438.66	1/2	4,778.57	1/2	5,119.58	1/2		1/2		1/2		1/2		1/2	
3/4	3,725.22	3/4	4,088.18	3/4	4,445.94	3/4	4,785.44	3/4	5,126.91	3/4		3/4		3/4		3/4		3/4	
6	3,732.78	6	4,095.74	6	4,453.23	6	4,792.31	6	5,134.23	6		6		6		6		6	
1/4	3,740.34	1/4	4,103.30	1/4	4,460.48	1/4	4,799.15	1/4	5,140.57	1/4		1/4		1/4		1/4		1/4	
1/2	3,747.90	1/2	4,110.86	1/2	4,467.73	1/2	4,805.99	1/2	5,146.91	1/2		1/2		1/2		1/2		1/2	
3/4	3,755.46	3/4	4,118.42	3/4	4,474.99	3/4	4,812.83	3/4	5,153.25	3/4		3/4		3/4		3/4		3/4	
7	3,763.02	7	4,125.99	7	4,482.24	7	4,819.67	7	5,159.60	7		7		7		7		7	
1/4	3,770.59	1/4	4,133.55	1/4	4,489.46	1/4	4,826.48	1/4	5,164.72	1/4		1/4		1/4		1/4		1/4	
1/2	3,778.15	1/2	4,141.11	1/2	4,496.68	1/2	4,833.29	1/2	5,169.84	1/2		1/2		1/2		1/2		1/2	
3/4	3,785.71	3/4	4,148.67	3/4	4,503.90	3/4	4,840.09	3/4	5,174.97	3/4		3/4		3/4		3/4		3/4	
8	3,793.27	8	4,156.23	8	4,511.12	8	4,846.90	8	5,180.09	8		8		8		8		8	
1/4	3,800.83	1/4	4,163.79	1/4	4,518.30	1/4	4,853.68	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,808.39	1/2	4,171.34	1/2	4,525.49	1/2	4,860.46	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,815.96	3/4	4,178.90	3/4	4,532.67	3/4	4,867.24	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,823.52	9	4,186.46	9	4,539.86	9	4,874.02	9		9		9		9		9		9	
1/4	3,831.08	1/4	4,193.99	1/4	4,547.01	1/4	4,880.77	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,838.64	1/2	4,201.53	1/2	4,554.17	1/2	4,887.51	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,846.20	3/4	4,209.07	3/4	4,561.32	3/4	4,894.26	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,853.76	10	4,216.61	10	4,568.48	10	4,901.01	10		10		10		10		10		10	
1/4	3,861.33	1/4	4,224.11	1/4	4,575.60	1/4	4,907.72	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,868.89	1/2	4,231.62	1/2	4,582.72	1/2	4,914.44	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,876.45	3/4	4,239.13	3/4	4,589.85	3/4	4,921.15	3/4		3/4		3/4		3/4		3/4		3/4	
11	3,884.01	11	4,246.63	11	4,596.97	11	4,927.86	11		11		11		11		11		11	
1/4	3,891.57	1/4	4,254.10	1/4	4,604.07	1/4	4,934.86	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,899.14	1/2	4,261.58	1/2	4,611.16	1/2	4,941.87	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,906.70	3/4	4,269.05	3/4	4,618.26	3/4	4,948.87	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 04/23/2020 CL
CALCULATED: 04/26/2020 CL
PRINTED: 04/28/2020 CL

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

CANCELS AND SUPERCEDES
ALL PRIOR TO 04/2020



BARGE "EMS 517"

2 PORT INNAGE 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	21.37	0	354.95	0	715.96	0	1,078.00	0	1,440.03	0	1,802.31	0	2,164.59	0	2,526.87	0	2,889.07	0	3,251.22
1/4	25.60	1/4	362.35	1/4	723.51	1/4	1,085.54	1/4	1,447.58	1/4	1,809.86	1/4	2,172.14	1/4	2,534.42	1/4	2,896.61	1/4	3,258.76
1/2	29.83	1/2	369.75	1/2	731.06	1/2	1,093.07	1/2	1,455.13	1/2	1,817.41	1/2	2,179.69	1/2	2,541.97	1/2	2,904.16	1/2	3,266.31
3/4	34.06	3/4	377.15	3/4	738.60	3/4	1,100.61	3/4	1,462.67	3/4	1,824.95	3/4	2,187.23	3/4	2,549.51	3/4	2,911.70	3/4	3,273.85
1	38.29	1	384.55	1	746.15	1	1,108.14	1	1,470.22	1	1,832.50	1	2,194.78	1	2,557.06	1	2,919.25	1	3,281.40
1/4	43.78	1/4	391.95	1/4	753.70	1/4	1,115.68	1/4	1,477.77	1/4	1,840.05	1/4	2,202.33	1/4	2,564.61	1/4	2,926.79	1/4	3,288.94
1/2	49.27	1/2	399.35	1/2	761.25	1/2	1,123.21	1/2	1,485.32	1/2	1,847.60	1/2	2,209.88	1/2	2,572.16	1/2	2,934.34	1/2	3,296.49
3/4	54.75	3/4	406.75	3/4	768.79	3/4	1,130.75	3/4	1,492.86	3/4	1,855.14	3/4	2,217.42	3/4	2,579.70	3/4	2,941.88	3/4	3,304.03
2	60.24	2	414.15	2	776.34	2	1,138.28	2	1,500.41	2	1,862.69	2	2,224.97	2	2,587.25	2	2,949.43	2	3,311.58
1/4	66.99	1/4	421.68	1/4	783.89	1/4	1,145.82	1/4	1,507.96	1/4	1,870.24	1/4	2,232.52	1/4	2,594.80	1/4	2,956.97	1/4	3,319.12
1/2	73.73	1/2	429.21	1/2	791.44	1/2	1,153.35	1/2	1,515.51	1/2	1,877.79	1/2	2,240.07	1/2	2,602.35	1/2	2,964.52	1/2	3,326.67
3/4	80.48	3/4	436.73	3/4	798.98	3/4	1,160.89	3/4	1,523.05	3/4	1,885.33	3/4	2,247.61	3/4	2,609.89	3/4	2,972.06	3/4	3,334.21
3	87.23	3	444.26	3	806.53	3	1,168.42	3	1,530.60	3	1,892.88	3	2,255.16	3	2,617.44	3	2,979.61	3	3,341.76
1/4	94.68	1/4	451.81	1/4	814.08	1/4	1,175.96	1/4	1,538.15	1/4	1,900.43	1/4	2,262.71	1/4	2,624.99	1/4	2,987.15	1/4	3,349.30
1/2	102.13	1/2	459.36	1/2	821.62	1/2	1,183.50	1/2	1,545.70	1/2	1,907.98	1/2	2,270.26	1/2	2,632.54	1/2	2,994.70	1/2	3,356.85
3/4	109.59	3/4	466.91	3/4	829.17	3/4	1,191.03	3/4	1,553.24	3/4	1,915.52	3/4	2,277.80	3/4	2,640.09	3/4	3,002.24	3/4	3,364.39
4	117.04	4	474.45	4	836.72	4	1,198.57	4	1,560.79	4	1,923.07	4	2,285.35	4	2,647.63	4	3,009.78	4	3,371.94
1/4	124.57	1/4	482.00	1/4	844.27	1/4	1,206.10	1/4	1,568.34	1/4	1,930.62	1/4	2,292.90	1/4	2,655.18	1/4	3,017.33	1/4	3,379.48
1/2	132.11	1/2	489.55	1/2	851.81	1/2	1,213.64	1/2	1,575.89	1/2	1,938.17	1/2	2,300.45	1/2	2,662.72	1/2	3,024.87	1/2	3,387.02
3/4	139.64	3/4	497.09	3/4	859.36	3/4	1,221.17	3/4	1,583.43	3/4	1,945.71	3/4	2,307.99	3/4	2,670.27	3/4	3,032.42	3/4	3,394.57
5	147.17	5	504.64	5	866.91	5	1,228.71	5	1,590.98	5	1,953.26	5	2,315.54	5	2,677.81	5	3,039.96	5	3,402.11
1/4	154.70	1/4	512.19	1/4	874.45	1/4	1,236.25	1/4	1,598.53	1/4	1,960.81	1/4	2,323.09	1/4	2,685.36	1/4	3,047.51	1/4	3,409.66
1/2	162.24	1/2	519.74	1/2	882.00	1/2	1,243.80	1/2	1,606.08	1/2	1,968.36	1/2	2,330.64	1/2	2,692.90	1/2	3,055.05	1/2	3,417.20
3/4	169.77	3/4	527.28	3/4	889.55	3/4	1,251.34	3/4	1,613.62	3/4	1,975.90	3/4	2,338.18	3/4	2,700.45	3/4	3,062.60	3/4	3,424.75
6	177.30	6	534.83	6	897.10	6	1,258.89	6	1,621.17	6	1,983.45	6	2,345.73	6	2,707.99	6	3,070.14	6	3,432.29
1/4	184.72	1/4	542.38	1/4	904.64	1/4	1,266.44	1/4	1,628.72	1/4	1,991.00	1/4	2,353.28	1/4	2,715.54	1/4	3,077.69	1/4	3,439.84
1/2	192.13	1/2	549.92	1/2	912.19	1/2	1,273.99	1/2	1,636.27	1/2	1,998.55	1/2	2,360.83	1/2	2,723.08	1/2	3,085.23	1/2	3,447.38
3/4	199.55	3/4	557.47	3/4	919.74	3/4	1,281.53	3/4	1,643.81	3/4	2,006.09	3/4	2,368.37	3/4	2,730.63	3/4	3,092.78	3/4	3,454.93
7	206.97	7	565.02	7	927.28	7	1,289.08	7	1,651.36	7	2,013.64	7	2,375.92	7	2,738.17	7	3,100.32	7	3,462.47
1/4	214.37	1/4	572.57	1/4	934.82	1/4	1,296.63	1/4	1,658.91	1/4	2,021.19	1/4	2,383.47	1/4	2,745.72	1/4	3,107.87	1/4	3,470.02
1/2	221.76	1/2	580.11	1/2	942.36	1/2	1,304.18	1/2	1,666.46	1/2	2,028.74	1/2	2,391.02	1/2	2,753.26	1/2	3,115.41	1/2	3,477.56
3/4	229.16	3/4	587.66	3/4	949.90	3/4	1,311.72	3/4	1,674.00	3/4	2,036.28	3/4	2,398.56	3/4	2,760.81	3/4	3,122.96	3/4	3,485.11
8	236.56	8	595.21	8	957.44	8	1,319.27	8	1,681.55	8	2,043.83	8	2,406.11	8	2,768.35	8	3,130.50	8	3,492.65
1/4	243.96	1/4	602.76	1/4	964.97	1/4	1,326.82	1/4	1,689.10	1/4	2,051.38	1/4	2,413.66	1/4	2,775.90	1/4	3,138.05	1/4	3,500.20
1/2	251.36	1/2	610.30	1/2	972.51	1/2	1,334.37	1/2	1,696.65	1/2	2,058.93	1/2	2,421.21	1/2	2,783.44	1/2	3,145.59	1/2	3,507.74
3/4	258.76	3/4	617.85	3/4	980.04	3/4	1,341.91	3/4	1,704.19	3/4	2,066.47	3/4	2,428.75	3/4	2,790.99	3/4	3,153.14	3/4	3,515.29
9	266.16	9	625.40	9	987.58	9	1,349.46	9	1,711.74	9	2,074.02	9	2,436.30	9	2,798.53	9	3,160.68	9	3,522.83
1/4	273.56	1/4	632.94	1/4	995.11	1/4	1,357.01	1/4	1,719.29	1/4	2,081.57	1/4	2,443.85	1/4	2,806.08	1/4	3,168.23	1/4	3,530.38
1/2	280.96	1/2	640.49	1/2	1,002.65	1/2	1,364.56	1/2	1,726.84	1/2	2,089.12	1/2	2,451.40	1/2	2,813.62	1/2	3,175.77	1/2	3,537.92
3/4	288.36	3/4	648.04	3/4	1,010.18	3/4	1,372.10	3/4	1,734.38	3/4	2,096.66	3/4	2,458.94	3/4	2,821.16	3/4	3,183.32	3/4	3,545.47
10	295.76	10	655.59	10	1,017.72	10	1,379.65	10	1,741.93	10	2,104.21	10	2,466.49	10	2,828.71	10	3,190.86	10	3,553.01
1/4	303.16	1/4	663.13	1/4	1,025.25	1/4	1,387.20	1/4	1,749.48	1/4	2,111.76	1/4	2,474.04	1/4	2,836.25	1/4	3,198.40	1/4	3,560.56
1/2	310.56	1/2	670.68	1/2	1,032.79	1/2	1,394.75	1/2	1,757.03	1/2	2,119.31	1/2	2,481.59	1/2	2,843.80	1/2	3,205.95	1/2	3,568.10
3/4	317.96	3/4	678.23	3/4	1,040.32	3/4	1,402.29	3/4	1,764.57	3/4	2,126.85	3/4	2,489.13	3/4	2,851.34	3/4	3,213.49	3/4	3,575.64
11	325.35	11	685.77	11	1,047.86	11	1,409.84	11	1,772.12	11	2,134.40	11	2,496.68	11	2,858.89	11	3,221.04	11	3,583.19
1/4	332.75	1/4	693.32	1/4	1,055.40	1/4	1,417.39	1/4	1,779.67	1/4	2,141.95	1/4	2,504.23	1/4	2,866.43	1/4	3,228.58	1/4	3,590.73
1/2	340.15	1/2	700.87	1/2	1,062.93	1/2	1,424.94	1/2	1,787.22	1/2	2,149.50	1/2	2,511.78	1/2	2,873.98	1/2	3,236.13	1/2	3,598.28
3/4	347.55	3/4	708.42	3/4	1,070.47	3/4	1,432.48	3/4	1,794.76	3/4	2,157.04	3/4	2,519.32	3/4	2,881.52	3/4	3,243.67	3/4	3,605.82

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" DIAMETER "HERMETIC" VALVE.
 GAUGE POINT: (HERMETIC) LOCATED 10'-06" OFF CENTERLINE AND 42'-03" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



BARGE "EMS 517"

2 PORT 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	3,613.37	0	3,975.52	0	4,336.97	0	4,685.02	0	5,014.77	0		0		0		0		0	
1/4	3,620.91	1/4	3,983.06	1/4	4,344.40	1/4	4,692.06	1/4	5,022.16	1/4		1/4		1/4		1/4		1/4	
1/2	3,628.46	1/2	3,990.61	1/2	4,351.82	1/2	4,699.11	1/2	5,029.56	1/2		1/2		1/2		1/2		1/2	
3/4	3,636.00	3/4	3,998.15	3/4	4,359.25	3/4	4,706.15	3/4	5,036.95	3/4		3/4		3/4		3/4		3/4	
1	3,643.55	1	4,005.70	1	4,366.67	1	4,713.20	1	5,044.34	1		1		1		1		1	
1/4	3,651.09	1/4	4,013.24	1/4	4,374.07	1/4	4,720.18	1/4	5,051.79	1/4		1/4		1/4		1/4		1/4	
1/2	3,658.64	1/2	4,020.79	1/2	4,381.46	1/2	4,727.17	1/2	5,059.24	1/2		1/2		1/2		1/2		1/2	
3/4	3,666.18	3/4	4,028.33	3/4	4,388.85	3/4	4,734.15	3/4	5,066.68	3/4		3/4		3/4		3/4		3/4	
2	3,673.73	2	4,035.88	2	4,396.25	2	4,741.14	2	5,074.13	2		2		2		2		2	
1/4	3,681.27	1/4	4,043.42	1/4	4,403.61	1/4	4,748.09	1/4	5,081.58	1/4		1/4		1/4		1/4		1/4	
1/2	3,688.82	1/2	4,050.97	1/2	4,410.98	1/2	4,755.04	1/2	5,089.02	1/2		1/2		1/2		1/2		1/2	
3/4	3,696.36	3/4	4,058.51	3/4	4,418.34	3/4	4,761.99	3/4	5,096.47	3/4		3/4		3/4		3/4		3/4	
3	3,703.91	3	4,066.06	3	4,425.71	3	4,768.94	3	5,103.91	3		3		3		3		3	
1/4	3,711.45	1/4	4,073.60	1/4	4,433.04	1/4	4,775.86	1/4	5,111.36	1/4		1/4		1/4		1/4		1/4	
1/2	3,719.00	1/2	4,081.15	1/2	4,440.37	1/2	4,782.78	1/2	5,118.81	1/2		1/2		1/2		1/2		1/2	
3/4	3,726.54	3/4	4,088.69	3/4	4,447.70	3/4	4,789.71	3/4	5,126.25	3/4		3/4		3/4		3/4		3/4	
4	3,734.09	4	4,096.24	4	4,455.03	4	4,796.63	4	5,133.70	4		4		4		4		4	
1/4	3,741.63	1/4	4,103.78	1/4	4,462.33	1/4	4,803.51	1/4	5,141.15	1/4		1/4		1/4		1/4		1/4	
1/2	3,749.18	1/2	4,111.33	1/2	4,469.62	1/2	4,810.40	1/2	5,148.59	1/2		1/2		1/2		1/2		1/2	
3/4	3,756.72	3/4	4,118.87	3/4	4,476.92	3/4	4,817.29	3/4	5,156.04	3/4		3/4		3/4		3/4		3/4	
5	3,764.26	5	4,126.42	5	4,484.22	5	4,824.18	5	5,163.49	5		5		5		5		5	
1/4	3,771.81	1/4	4,133.96	1/4	4,491.48	1/4	4,831.03	1/4	5,170.79	1/4		1/4		1/4		1/4		1/4	
1/2	3,779.35	1/2	4,141.50	1/2	4,498.75	1/2	4,837.89	1/2	5,178.10	1/2		1/2		1/2		1/2		1/2	
3/4	3,786.90	3/4	4,149.05	3/4	4,506.02	3/4	4,844.74	3/4	5,185.41	3/4		3/4		3/4		3/4		3/4	
6	3,794.44	6	4,156.59	6	4,513.28	6	4,851.59	6	5,192.72	6		6		6		6		6	
1/4	3,801.99	1/4	4,164.14	1/4	4,520.52	1/4	4,858.42	1/4	5,199.05	1/4		1/4		1/4		1/4		1/4	
1/2	3,809.53	1/2	4,171.68	1/2	4,527.76	1/2	4,865.24	1/2	5,205.37	1/2		1/2		1/2		1/2		1/2	
3/4	3,817.08	3/4	4,179.23	3/4	4,534.99	3/4	4,872.06	3/4	5,211.70	3/4		3/4		3/4		3/4		3/4	
7	3,824.62	7	4,186.77	7	4,542.23	7	4,878.89	7	5,218.03	7		7		7		7		7	
1/4	3,832.17	1/4	4,194.32	1/4	4,549.43	1/4	4,885.68	1/4	5,223.14	1/4		1/4		1/4		1/4		1/4	
1/2	3,839.71	1/2	4,201.86	1/2	4,556.63	1/2	4,892.47	1/2	5,228.25	1/2		1/2		1/2		1/2		1/2	
3/4	3,847.26	3/4	4,209.41	3/4	4,563.84	3/4	4,899.26	3/4	5,233.36	3/4		3/4		3/4		3/4		3/4	
8	3,854.80	8	4,216.95	8	4,571.04	8	4,906.06	8	5,238.48	8		8		8		8		8	
1/4	3,862.35	1/4	4,224.49	1/4	4,578.21	1/4	4,912.82	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,869.89	1/2	4,232.03	1/2	4,585.38	1/2	4,919.58	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,877.44	3/4	4,239.57	3/4	4,592.55	3/4	4,926.35	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,884.98	9	4,247.11	9	4,599.72	9	4,933.11	9		9		9		9		9		9	
1/4	3,892.53	1/4	4,254.63	1/4	4,606.86	1/4	4,939.84	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,900.07	1/2	4,262.15	1/2	4,613.99	1/2	4,946.57	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,907.62	3/4	4,269.67	3/4	4,621.13	3/4	4,953.30	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,915.16	10	4,277.20	10	4,628.27	10	4,960.04	10		10		10		10		10		10	
1/4	3,922.71	1/4	4,284.69	1/4	4,635.38	1/4	4,966.73	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,930.25	1/2	4,292.17	1/2	4,642.49	1/2	4,973.43	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,937.80	3/4	4,299.66	3/4	4,649.60	3/4	4,980.13	3/4		3/4		3/4		3/4		3/4		3/4	
11	3,945.34	11	4,307.15	11	4,656.70	11	4,986.83	11		11		11		11		11		11	
1/4	3,952.88	1/4	4,314.61	1/4	4,663.78	1/4	4,993.81	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,960.43	1/2	4,322.06	1/2	4,670.86	1/2	5,000.80	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,967.97	3/4	4,329.52	3/4	4,677.94	3/4	5,007.78	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 04/23/2020 CL
CALCULATED: 04/26/2020 CL
PRINTED: 04/28/2020 CL

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092
Pearland, Texas 77588

<http://www.pmacorp.net>



CANCELS AND SUPERCEDES
ALL PRIOR TO 04/2020



BARGE "EMS 517"

2 STBD INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08 1/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	21.31	0	353.93	0	713.89	0	1,067.11	0	1,419.99	0	1,781.22	0	2,142.46	0	2,503.69	0	2,863.12	0	3,224.22
1/4	25.52	1/4	361.30	1/4	721.42	1/4	1,074.29	1/4	1,427.52	1/4	1,788.75	1/4	2,149.98	1/4	2,511.22	1/4	2,870.65	1/4	3,231.74
1/2	29.74	1/2	368.68	1/2	728.94	1/2	1,081.47	1/2	1,435.04	1/2	1,796.28	1/2	2,157.51	1/2	2,518.74	1/2	2,878.17	1/2	3,239.27
3/4	33.96	3/4	376.06	3/4	736.47	3/4	1,088.66	3/4	1,442.57	3/4	1,803.80	3/4	2,165.04	3/4	2,526.27	3/4	2,885.69	3/4	3,246.79
1	38.18	1	383.44	1	743.99	1	1,095.84	1	1,450.09	1	1,811.33	1	2,172.56	1	2,533.79	1	2,893.21	1	3,254.31
1/4	43.65	1/4	390.82	1/4	751.52	1/4	1,103.02	1/4	1,457.62	1/4	1,818.85	1/4	2,180.09	1/4	2,541.32	1/4	2,900.74	1/4	3,261.84
1/2	49.12	1/2	398.19	1/2	759.04	1/2	1,110.21	1/2	1,465.15	1/2	1,826.38	1/2	2,187.61	1/2	2,548.85	1/2	2,908.26	1/2	3,269.36
3/4	54.60	3/4	405.57	3/4	766.57	3/4	1,117.39	3/4	1,472.67	3/4	1,833.90	3/4	2,195.14	3/4	2,556.37	3/4	2,915.78	3/4	3,276.88
2	60.07	2	412.95	2	774.09	2	1,124.57	2	1,480.20	2	1,841.43	2	2,202.66	2	2,563.90	2	2,923.31	2	3,284.41
1/4	66.79	1/4	420.46	1/4	781.62	1/4	1,131.75	1/4	1,487.72	1/4	1,848.96	1/4	2,210.19	1/4	2,571.42	1/4	2,930.83	1/4	3,291.93
1/2	73.52	1/2	427.96	1/2	789.15	1/2	1,138.94	1/2	1,495.25	1/2	1,856.48	1/2	2,217.72	1/2	2,578.95	1/2	2,938.35	1/2	3,299.45
3/4	80.25	3/4	435.47	3/4	796.67	3/4	1,146.12	3/4	1,502.77	3/4	1,864.01	3/4	2,225.24	3/4	2,586.47	3/4	2,945.87	3/4	3,306.97
3	86.97	3	442.98	3	804.20	3	1,153.30	3	1,510.30	3	1,871.53	3	2,232.77	3	2,594.00	3	2,953.40	3	3,314.50
1/4	94.41	1/4	450.50	1/4	811.72	1/4	1,160.49	1/4	1,517.83	1/4	1,879.06	1/4	2,240.29	1/4	2,601.52	1/4	2,960.92	1/4	3,322.02
1/2	101.84	1/2	458.03	1/2	819.25	1/2	1,167.67	1/2	1,525.35	1/2	1,886.58	1/2	2,247.82	1/2	2,609.05	1/2	2,968.44	1/2	3,329.54
3/4	109.27	3/4	465.55	3/4	826.77	3/4	1,174.85	3/4	1,532.88	3/4	1,894.11	3/4	2,255.34	3/4	2,616.57	3/4	2,975.97	3/4	3,337.07
4	116.70	4	473.08	4	834.30	4	1,182.03	4	1,540.40	4	1,901.64	4	2,262.87	4	2,624.09	4	2,983.49	4	3,344.59
1/4	124.21	1/4	480.60	1/4	841.82	1/4	1,189.22	1/4	1,547.93	1/4	1,909.16	1/4	2,270.40	1/4	2,631.52	1/4	2,991.01	1/4	3,352.11
1/2	131.72	1/2	488.13	1/2	849.35	1/2	1,196.40	1/2	1,555.45	1/2	1,916.69	1/2	2,277.92	1/2	2,638.95	1/2	2,998.54	1/2	3,359.63
3/4	139.23	3/4	495.65	3/4	856.87	3/4	1,203.58	3/4	1,562.98	3/4	1,924.21	3/4	2,285.45	3/4	2,646.38	3/4	3,006.06	3/4	3,367.16
5	146.75	5	503.18	5	864.40	5	1,210.77	5	1,570.51	5	1,931.74	5	2,292.97	5	2,653.81	5	3,013.58	5	3,374.68
1/4	154.26	1/4	510.71	1/4	871.92	1/4	1,217.96	1/4	1,578.03	1/4	1,939.26	1/4	2,300.50	1/4	2,661.23	1/4	3,021.10	1/4	3,382.20
1/2	161.77	1/2	518.23	1/2	879.45	1/2	1,225.15	1/2	1,585.56	1/2	1,946.79	1/2	2,308.02	1/2	2,668.64	1/2	3,028.63	1/2	3,389.73
3/4	169.28	3/4	525.76	3/4	886.98	3/4	1,232.35	3/4	1,593.08	3/4	1,954.32	3/4	2,315.55	3/4	2,676.06	3/4	3,036.15	3/4	3,397.25
6	176.79	6	533.28	6	894.50	6	1,239.54	6	1,600.61	6	1,961.84	6	2,323.08	6	2,683.48	6	3,043.67	6	3,404.77
1/4	184.18	1/4	540.81	1/4	901.74	1/4	1,247.02	1/4	1,608.13	1/4	1,969.37	1/4	2,330.60	1/4	2,690.89	1/4	3,051.20	1/4	3,412.29
1/2	191.58	1/2	548.33	1/2	908.97	1/2	1,254.51	1/2	1,615.66	1/2	1,976.89	1/2	2,338.13	1/2	2,698.31	1/2	3,058.72	1/2	3,419.82
3/4	198.97	3/4	555.86	3/4	916.21	3/4	1,261.99	3/4	1,623.19	3/4	1,984.42	3/4	2,345.65	3/4	2,705.73	3/4	3,066.24	3/4	3,427.34
7	206.37	7	563.38	7	923.44	7	1,269.48	7	1,630.71	7	1,991.94	7	2,353.18	7	2,713.14	7	3,073.76	7	3,434.86
1/4	213.74	1/4	570.91	1/4	930.63	1/4	1,277.00	1/4	1,638.24	1/4	1,999.47	1/4	2,360.70	1/4	2,720.56	1/4	3,081.29	1/4	3,442.39
1/2	221.12	1/2	578.43	1/2	937.81	1/2	1,284.53	1/2	1,645.76	1/2	2,007.00	1/2	2,368.23	1/2	2,727.98	1/2	3,088.81	1/2	3,449.91
3/4	228.50	3/4	585.96	3/4	945.00	3/4	1,292.05	3/4	1,653.29	3/4	2,014.52	3/4	2,375.76	3/4	2,735.39	3/4	3,096.33	3/4	3,457.43
8	235.88	8	593.49	8	952.18	8	1,299.58	8	1,660.81	8	2,022.05	8	2,383.28	8	2,742.81	8	3,103.86	8	3,464.95
1/4	243.26	1/4	601.01	1/4	959.36	1/4	1,307.11	1/4	1,668.34	1/4	2,029.57	1/4	2,390.81	1/4	2,750.32	1/4	3,111.38	1/4	3,472.48
1/2	250.63	1/2	608.54	1/2	966.55	1/2	1,314.63	1/2	1,675.87	1/2	2,037.10	1/2	2,398.33	1/2	2,757.83	1/2	3,118.90	1/2	3,480.00
3/4	258.01	3/4	616.06	3/4	973.73	3/4	1,322.16	3/4	1,683.39	3/4	2,044.62	3/4	2,405.86	3/4	2,765.34	3/4	3,126.42	3/4	3,487.52
9	265.39	9	623.59	9	980.91	9	1,329.68	9	1,690.92	9	2,052.15	9	2,413.38	9	2,772.85	9	3,133.95	9	3,495.05
1/4	272.77	1/4	631.11	1/4	988.10	1/4	1,337.21	1/4	1,698.44	1/4	2,059.68	1/4	2,420.91	1/4	2,780.37	1/4	3,141.47	1/4	3,502.57
1/2	280.15	1/2	638.64	1/2	995.28	1/2	1,344.73	1/2	1,705.97	1/2	2,067.20	1/2	2,428.44	1/2	2,787.89	1/2	3,148.99	1/2	3,510.09
3/4	287.52	3/4	646.16	3/4	1,002.46	3/4	1,352.26	3/4	1,713.49	3/4	2,074.73	3/4	2,435.96	3/4	2,795.42	3/4	3,156.52	3/4	3,517.62
10	294.90	10	653.69	10	1,009.65	10	1,359.79	10	1,721.02	10	2,082.25	10	2,443.49	10	2,802.94	10	3,164.04	10	3,525.14
1/4	302.28	1/4	661.21	1/4	1,016.83	1/4	1,367.31	1/4	1,728.54	1/4	2,089.78	1/4	2,451.01	1/4	2,810.46	1/4	3,171.56	1/4	3,532.66
1/2	309.66	1/2	668.74	1/2	1,024.01	1/2	1,374.84	1/2	1,736.07	1/2	2,097.30	1/2	2,458.54	1/2	2,817.99	1/2	3,179.08	1/2	3,540.18
3/4	317.04	3/4	676.26	3/4	1,031.19	3/4	1,382.36	3/4	1,743.60	3/4	2,104.83	3/4	2,466.06	3/4	2,825.51	3/4	3,186.61	3/4	3,547.71
11	324.41	11	683.79	11	1,038.38	11	1,389.89	11	1,751.12	11	2,112.36	11	2,473.59	11	2,833.03	11	3,194.13	11	3,555.23
1/4	331.79	1/4	691.32	1/4	1,045.56	1/4	1,397.41	1/4	1,758.65	1/4	2,119.88	1/4	2,481.11	1/4	2,840.55	1/4	3,201.65	1/4	3,562.75
1/2	339.17	1/2	698.84	1/2	1,052.74	1/2	1,404.94	1/2	1,766.17	1/2	2,127.41	1/2	2,488.64	1/2	2,848.08	1/2	3,209.18	1/2	3,570.28
3/4	346.55	3/4	706.37	3/4	1,059.93	3/4	1,412.47	3/4	1,773.70	3/4	2,134.93	3/4	2,496.17	3/4	2,855.60	3/4	3,216.70	3/4	3,577.80

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" DIAMETER "HERMETIC" VALVE.
 GAUGE POINT: (HERMETIC) LOCATED 10'-06" OFF CENTERLINE AND 42'-03" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



BARGE "EMS 517"

2 STBD INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08 1/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	3,585.32	0	3,946.42	0	4,306.83	0	4,653.87	0	4,982.68	0		0		0		0		0	
1/4	3,592.84	1/4	3,953.94	1/4	4,314.23	1/4	4,660.89	1/4	4,990.05	1/4		1/4		1/4		1/4		1/4	
1/2	3,600.37	1/2	3,961.47	1/2	4,321.64	1/2	4,667.92	1/2	4,997.42	1/2		1/2		1/2		1/2		1/2	
3/4	3,607.89	3/4	3,968.99	3/4	4,329.04	3/4	4,674.94	3/4	5,004.79	3/4		3/4		3/4		3/4		3/4	
1	3,615.41	1	3,976.51	1	4,336.44	1	4,681.97	1	5,012.17	1		1		1		1		1	
1/4	3,622.94	1/4	3,984.03	1/4	4,343.81	1/4	4,688.93	1/4	5,019.59	1/4		1/4		1/4		1/4		1/4	
1/2	3,630.46	1/2	3,991.56	1/2	4,351.19	1/2	4,695.90	1/2	5,027.02	1/2		1/2		1/2		1/2		1/2	
3/4	3,637.98	3/4	3,999.08	3/4	4,358.56	3/4	4,702.86	3/4	5,034.44	3/4		3/4		3/4		3/4		3/4	
2	3,645.50	2	4,006.60	2	4,365.93	2	4,709.83	2	5,041.87	2		2		2		2		2	
1/4	3,653.03	1/4	4,014.13	1/4	4,373.28	1/4	4,716.76	1/4	5,049.29	1/4		1/4		1/4		1/4		1/4	
1/2	3,660.55	1/2	4,021.65	1/2	4,380.62	1/2	4,723.69	1/2	5,056.72	1/2		1/2		1/2		1/2		1/2	
3/4	3,668.07	3/4	4,029.17	3/4	4,387.96	3/4	4,730.62	3/4	5,064.14	3/4		3/4		3/4		3/4		3/4	
3	3,675.60	3	4,036.70	3	4,395.31	3	4,737.55	3	5,071.56	3		3		3		3		3	
1/4	3,683.12	1/4	4,044.22	1/4	4,402.62	1/4	4,744.45	1/4	5,078.99	1/4		1/4		1/4		1/4		1/4	
1/2	3,690.64	1/2	4,051.74	1/2	4,409.93	1/2	4,751.36	1/2	5,086.41	1/2		1/2		1/2		1/2		1/2	
3/4	3,698.16	3/4	4,059.26	3/4	4,417.24	3/4	4,758.26	3/4	5,093.84	3/4		3/4		3/4		3/4		3/4	
4	3,705.69	4	4,066.79	4	4,424.54	4	4,765.16	4	5,101.26	4		4		4		4		4	
1/4	3,713.21	1/4	4,074.31	1/4	4,431.82	1/4	4,772.03	1/4	5,108.69	1/4		1/4		1/4		1/4		1/4	
1/2	3,720.73	1/2	4,081.83	1/2	4,439.10	1/2	4,778.89	1/2	5,116.11	1/2		1/2		1/2		1/2		1/2	
3/4	3,728.26	3/4	4,089.36	3/4	4,446.37	3/4	4,785.76	3/4	5,123.54	3/4		3/4		3/4		3/4		3/4	
5	3,735.78	5	4,096.88	5	4,453.65	5	4,792.63	5	5,130.96	5		5		5		5		5	
1/4	3,743.30	1/4	4,104.40	1/4	4,460.89	1/4	4,799.46	1/4	5,138.25	1/4		1/4		1/4		1/4		1/4	
1/2	3,750.83	1/2	4,111.92	1/2	4,468.14	1/2	4,806.30	1/2	5,145.54	1/2		1/2		1/2		1/2		1/2	
3/4	3,758.35	3/4	4,119.45	3/4	4,475.38	3/4	4,813.13	3/4	5,152.83	3/4		3/4		3/4		3/4		3/4	
6	3,765.87	6	4,126.97	6	4,482.63	6	4,819.97	6	5,160.11	6		6		6		6		6	
1/4	3,773.39	1/4	4,134.49	1/4	4,489.85	1/4	4,826.77	1/4	5,166.42	1/4		1/4		1/4		1/4		1/4	
1/2	3,780.92	1/2	4,142.02	1/2	4,497.06	1/2	4,833.57	1/2	5,172.73	1/2		1/2		1/2		1/2		1/2	
3/4	3,788.44	3/4	4,149.54	3/4	4,504.28	3/4	4,840.38	3/4	5,179.03	3/4		3/4		3/4		3/4		3/4	
7	3,795.96	7	4,157.06	7	4,511.49	7	4,847.18	7	5,185.34	7		7		7		7		7	
1/4	3,803.49	1/4	4,164.58	1/4	4,518.67	1/4	4,853.95	1/4	5,190.44	1/4		1/4		1/4		1/4		1/4	
1/2	3,811.01	1/2	4,172.11	1/2	4,525.86	1/2	4,860.73	1/2	5,195.54	1/2		1/2		1/2		1/2		1/2	
3/4	3,818.53	3/4	4,179.63	3/4	4,533.04	3/4	4,867.50	3/4	5,200.63	3/4		3/4		3/4		3/4		3/4	
8	3,826.05	8	4,187.15	8	4,540.22	8	4,874.28	8	5,205.73	8		8		8		8		8	
1/4	3,833.58	1/4	4,194.67	1/4	4,547.37	1/4	4,881.02	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,841.10	1/2	4,202.19	1/2	4,554.52	1/2	4,887.76	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,848.62	3/4	4,209.71	3/4	4,561.67	3/4	4,894.51	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,856.15	9	4,217.23	9	4,568.81	9	4,901.25	9		9		9		9		9		9	
1/4	3,863.67	1/4	4,224.73	1/4	4,575.93	1/4	4,907.96	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,871.19	1/2	4,232.23	1/2	4,583.05	1/2	4,914.68	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,878.71	3/4	4,239.73	3/4	4,590.17	3/4	4,921.39	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,886.24	10	4,247.23	10	4,597.29	10	4,928.10	10		10		10		10		10		10	
1/4	3,893.76	1/4	4,254.69	1/4	4,604.37	1/4	4,934.78	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,901.28	1/2	4,262.16	1/2	4,611.46	1/2	4,941.46	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,908.81	3/4	4,269.63	3/4	4,618.55	3/4	4,948.14	3/4		3/4		3/4		3/4		3/4		3/4	
11	3,916.33	11	4,277.10	11	4,625.64	11	4,954.82	11		11		11		11		11		11	
1/4	3,923.85	1/4	4,284.53	1/4	4,632.70	1/4	4,961.78	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,931.37	1/2	4,291.96	1/2	4,639.75	1/2	4,968.75	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,938.90	3/4	4,299.40	3/4	4,646.81	3/4	4,975.71	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 04/23/2020 CL
CALCULATED: 04/26/2020 CL
PRINTED: 04/28/2020 CL

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092
Pearland, Texas 77588

<http://www.pmacorp.net>

CANCELS AND SUPERCEDES
ALL PRIOR TO 04/2020



BARGE "EMS 517"

3 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-09 1/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	21.29	0	353.53	0	713.10	0	1,073.72	0	1,434.39	0	1,795.23	0	2,156.05	0	2,516.80	0	2,877.37	0	3,237.05
1/4	25.50	1/4	360.90	1/4	720.61	1/4	1,081.23	1/4	1,441.91	1/4	1,802.75	1/4	2,163.56	1/4	2,524.31	1/4	2,884.87	1/4	3,244.51
1/2	29.71	1/2	368.27	1/2	728.13	1/2	1,088.73	1/2	1,449.43	1/2	1,810.27	1/2	2,171.08	1/2	2,531.83	1/2	2,892.37	1/2	3,251.98
3/4	33.93	3/4	375.64	3/4	735.65	3/4	1,096.24	3/4	1,456.94	3/4	1,817.78	3/4	2,178.59	3/4	2,539.35	3/4	2,899.87	3/4	3,259.45
1	38.14	1	383.00	1	743.16	1	1,103.75	1	1,464.46	1	1,825.30	1	2,186.11	1	2,546.86	1	2,907.37	1	3,266.91
1/4	43.61	1/4	390.37	1/4	750.68	1/4	1,111.26	1/4	1,471.98	1/4	1,832.82	1/4	2,193.62	1/4	2,554.38	1/4	2,914.87	1/4	3,274.38
1/2	49.07	1/2	397.74	1/2	758.20	1/2	1,118.77	1/2	1,479.50	1/2	1,840.34	1/2	2,201.14	1/2	2,561.89	1/2	2,922.37	1/2	3,281.85
3/4	54.54	3/4	405.11	3/4	765.72	3/4	1,126.27	3/4	1,487.01	3/4	1,847.85	3/4	2,208.66	3/4	2,569.41	3/4	2,929.88	3/4	3,289.32
2	60.01	2	412.48	2	773.23	2	1,133.78	2	1,494.53	2	1,855.37	2	2,216.17	2	2,576.92	2	2,937.38	2	3,296.78
1/4	66.72	1/4	419.98	1/4	780.75	1/4	1,141.29	1/4	1,502.05	1/4	1,862.89	1/4	2,223.69	1/4	2,584.44	1/4	2,944.88	1/4	3,304.25
1/2	73.44	1/2	427.48	1/2	788.27	1/2	1,148.80	1/2	1,509.57	1/2	1,870.41	1/2	2,231.20	1/2	2,591.96	1/2	2,952.38	1/2	3,311.72
3/4	80.16	3/4	434.98	3/4	795.79	3/4	1,156.31	3/4	1,517.08	3/4	1,877.92	3/4	2,238.72	3/4	2,599.47	3/4	2,959.88	3/4	3,319.19
3	86.88	3	442.48	3	803.30	3	1,163.81	3	1,524.60	3	1,885.44	3	2,246.23	3	2,606.99	3	2,967.38	3	3,326.65
1/4	94.31	1/4	449.99	1/4	810.82	1/4	1,171.32	1/4	1,532.12	1/4	1,892.96	1/4	2,253.75	1/4	2,614.50	1/4	2,974.88	1/4	3,334.13
1/2	101.73	1/2	457.51	1/2	818.34	1/2	1,178.83	1/2	1,539.64	1/2	1,900.48	1/2	2,261.27	1/2	2,622.02	1/2	2,982.39	1/2	3,341.61
3/4	109.15	3/4	465.03	3/4	825.85	3/4	1,186.34	3/4	1,547.15	3/4	1,907.99	3/4	2,268.78	3/4	2,629.53	3/4	2,989.89	3/4	3,349.10
4	116.58	4	472.55	4	833.37	4	1,193.85	4	1,554.67	4	1,915.51	4	2,276.30	4	2,637.05	4	2,997.39	4	3,356.58
1/4	124.08	1/4	480.06	1/4	840.89	1/4	1,201.36	1/4	1,562.19	1/4	1,923.03	1/4	2,283.81	1/4	2,644.56	1/4	3,004.89	1/4	3,364.06
1/2	131.58	1/2	487.58	1/2	848.41	1/2	1,208.87	1/2	1,569.71	1/2	1,930.55	1/2	2,291.33	1/2	2,652.08	1/2	3,012.39	1/2	3,371.54
3/4	139.09	3/4	495.10	3/4	855.92	3/4	1,216.39	3/4	1,577.22	3/4	1,938.06	3/4	2,298.84	3/4	2,659.59	3/4	3,019.89	3/4	3,379.03
5	146.59	5	502.61	5	863.44	5	1,223.90	5	1,584.74	5	1,945.58	5	2,306.36	5	2,667.10	5	3,027.40	5	3,386.51
1/4	154.09	1/4	510.13	1/4	870.96	1/4	1,231.42	1/4	1,592.26	1/4	1,953.10	1/4	2,313.88	1/4	2,674.62	1/4	3,034.90	1/4	3,393.99
1/2	161.59	1/2	517.65	1/2	878.47	1/2	1,238.94	1/2	1,599.78	1/2	1,960.62	1/2	2,321.39	1/2	2,682.13	1/2	3,042.40	1/2	3,401.47
3/4	169.10	3/4	525.17	3/4	885.99	3/4	1,246.45	3/4	1,607.29	3/4	1,968.13	3/4	2,328.91	3/4	2,689.65	3/4	3,049.90	3/4	3,408.96
6	176.60	6	532.68	6	893.51	6	1,253.97	6	1,614.81	6	1,975.65	6	2,336.42	6	2,697.16	6	3,057.40	6	3,416.44
1/4	183.98	1/4	540.20	1/4	901.02	1/4	1,261.49	1/4	1,622.33	1/4	1,983.17	1/4	2,343.94	1/4	2,704.68	1/4	3,064.90	1/4	3,423.92
1/2	191.37	1/2	547.72	1/2	908.53	1/2	1,269.01	1/2	1,629.85	1/2	1,990.69	1/2	2,351.45	1/2	2,712.19	1/2	3,072.40	1/2	3,431.41
3/4	198.76	3/4	555.23	3/4	916.04	3/4	1,276.52	3/4	1,637.36	3/4	1,998.20	3/4	2,358.97	3/4	2,719.70	3/4	3,079.91	3/4	3,438.89
7	206.14	7	562.75	7	923.56	7	1,284.04	7	1,644.88	7	2,005.72	7	2,366.49	7	2,727.22	7	3,087.41	7	3,446.37
1/4	213.51	1/4	570.27	1/4	931.06	1/4	1,291.56	1/4	1,652.40	1/4	2,013.24	1/4	2,374.00	1/4	2,734.73	1/4	3,094.91	1/4	3,453.85
1/2	220.88	1/2	577.79	1/2	938.57	1/2	1,299.08	1/2	1,659.92	1/2	2,020.76	1/2	2,381.52	1/2	2,742.25	1/2	3,102.41	1/2	3,461.34
3/4	228.25	3/4	585.30	3/4	946.08	3/4	1,306.59	3/4	1,667.43	3/4	2,028.27	3/4	2,389.03	3/4	2,749.76	3/4	3,109.91	3/4	3,468.82
8	235.62	8	592.82	8	953.59	8	1,314.11	8	1,674.95	8	2,035.79	8	2,396.55	8	2,757.28	8	3,117.41	8	3,476.30
1/4	242.99	1/4	600.34	1/4	961.10	1/4	1,321.63	1/4	1,682.47	1/4	2,043.31	1/4	2,404.06	1/4	2,764.79	1/4	3,124.91	1/4	3,483.79
1/2	250.36	1/2	607.86	1/2	968.61	1/2	1,329.15	1/2	1,689.99	1/2	2,050.82	1/2	2,411.58	1/2	2,772.31	1/2	3,132.42	1/2	3,491.27
3/4	257.73	3/4	615.37	3/4	976.11	3/4	1,336.66	3/4	1,697.50	3/4	2,058.34	3/4	2,419.10	3/4	2,779.82	3/4	3,139.92	3/4	3,498.75
9	265.10	9	622.89	9	983.62	9	1,344.18	9	1,705.02	9	2,065.86	9	2,426.61	9	2,787.34	9	3,147.42	9	3,506.23
1/4	272.47	1/4	630.41	1/4	991.13	1/4	1,351.70	1/4	1,712.54	1/4	2,073.37	1/4	2,434.13	1/4	2,794.84	1/4	3,154.93	1/4	3,513.71
1/2	279.83	1/2	637.92	1/2	998.64	1/2	1,359.22	1/2	1,720.06	1/2	2,080.89	1/2	2,441.64	1/2	2,802.35	1/2	3,162.43	1/2	3,521.19
3/4	287.20	3/4	645.44	3/4	1,006.15	3/4	1,366.73	3/4	1,727.57	3/4	2,088.40	3/4	2,449.16	3/4	2,809.85	3/4	3,169.94	3/4	3,528.66
10	294.57	10	652.96	10	1,013.65	10	1,374.25	10	1,735.09	10	2,095.92	10	2,456.67	10	2,817.35	10	3,177.44	10	3,536.14
1/4	301.94	1/4	660.48	1/4	1,021.16	1/4	1,381.77	1/4	1,742.61	1/4	2,103.44	1/4	2,464.19	1/4	2,824.85	1/4	3,184.95	1/4	3,543.62
1/2	309.31	1/2	667.99	1/2	1,028.67	1/2	1,389.29	1/2	1,750.13	1/2	2,110.95	1/2	2,471.70	1/2	2,832.36	1/2	3,192.46	1/2	3,551.10
3/4	316.68	3/4	675.51	3/4	1,036.18	3/4	1,396.80	3/4	1,757.64	3/4	2,118.47	3/4	2,479.22	3/4	2,839.86	3/4	3,199.97	3/4	3,558.58
11	324.05	11	683.03	11	1,043.69	11	1,404.32	11	1,765.16	11	2,125.98	11	2,486.74	11	2,847.36	11	3,207.47	11	3,566.06
1/4	331.42	1/4	690.54	1/4	1,051.19	1/4	1,411.84	1/4	1,772.68	1/4	2,133.50	1/4	2,494.25	1/4	2,854.86	1/4	3,214.98	1/4	3,573.54
1/2	338.79	1/2	698.06	1/2	1,058.70	1/2	1,419.36	1/2	1,780.20	1/2	2,141.01	1/2	2,501.77	1/2	2,862.36	1/2	3,222.49	1/2	3,581.02
3/4	346.16	3/4	705.58	3/4	1,066.21	3/4	1,426.87	3/4	1,787.71	3/4	2,148.53	3/4	2,509.28	3/4	2,869.86	3/4	3,229.99	3/4	3,588.50

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" DIAMETER "HERMETIC" VALVE.
 GAUGE POINT: (HERMETIC) LOCATED 10'-06" OFF CENTERLINE AND 55'-03" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



BARGE "EMS 517"

3 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-09 1/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	3,556.52	0	3,750.78	0	3,944.36	0	4,124.57	0	4,287.29	0		0		0		0		0	
1/4	3,560.57	1/4	3,754.83	1/4	3,948.28	1/4	4,128.12	1/4	4,291.23	1/4		1/4		1/4		1/4		1/4	
1/2	3,564.61	1/2	3,758.88	1/2	3,952.21	1/2	4,131.67	1/2	4,295.17	1/2		1/2		1/2		1/2		1/2	
3/4	3,568.66	3/4	3,762.93	3/4	3,956.14	3/4	4,135.22	3/4	4,299.11	3/4		3/4		3/4		3/4		3/4	
1	3,572.71	1	3,766.97	1	3,960.07	1	4,138.77	1	4,303.05	1		1		1		1		1	
1/4	3,576.75	1/4	3,771.02	1/4	3,963.96	1/4	4,142.27	1/4	4,307.05	1/4		1/4		1/4		1/4		1/4	
1/2	3,580.80	1/2	3,775.07	1/2	3,967.86	1/2	4,145.78	1/2	4,311.04	1/2		1/2		1/2		1/2		1/2	
3/4	3,584.85	3/4	3,779.11	3/4	3,971.76	3/4	4,149.28	3/4	4,315.04	3/4		3/4		3/4		3/4		3/4	
2	3,588.90	2	3,783.16	2	3,975.66	2	4,152.78	2	4,319.03	2		2		2		2		2	
1/4	3,592.94	1/4	3,787.21	1/4	3,979.52	1/4	4,156.25	1/4	4,323.02	1/4		1/4		1/4		1/4		1/4	
1/2	3,596.99	1/2	3,791.26	1/2	3,983.39	1/2	4,159.72	1/2	4,327.02	1/2		1/2		1/2		1/2		1/2	
3/4	3,601.04	3/4	3,795.30	3/4	3,987.26	3/4	4,163.19	3/4	4,331.01	3/4		3/4		3/4		3/4		3/4	
3	3,605.08	3	3,799.35	3	3,991.13	3	4,166.66	3	4,335.01	3		3		3		3		3	
1/4	3,609.13	1/4	3,803.40	1/4	3,994.96	1/4	4,170.10	1/4	4,339.00	1/4		1/4		1/4		1/4		1/4	
1/2	3,613.18	1/2	3,807.44	1/2	3,998.79	1/2	4,173.54	1/2	4,342.99	1/2		1/2		1/2		1/2		1/2	
3/4	3,617.23	3/4	3,811.49	3/4	4,002.63	3/4	4,176.98	3/4	4,346.99	3/4		3/4		3/4		3/4		3/4	
4	3,621.27	4	3,815.54	4	4,006.46	4	4,180.42	4	4,350.98	4		4		4		4		4	
1/4	3,625.32	1/4	3,819.59	1/4	4,010.26	1/4	4,183.83	1/4	4,354.98	1/4		1/4		1/4		1/4		1/4	
1/2	3,629.37	1/2	3,823.63	1/2	4,014.06	1/2	4,187.24	1/2	4,358.97	1/2		1/2		1/2		1/2		1/2	
3/4	3,633.42	3/4	3,827.68	3/4	4,017.86	3/4	4,190.65	3/4	4,362.97	3/4		3/4		3/4		3/4		3/4	
5	3,637.46	5	3,831.73	5	4,021.66	5	4,194.05	5	4,366.96	5		5		5		5		5	
1/4	3,641.51	1/4	3,835.78	1/4	4,025.43	1/4	4,197.43	1/4	4,370.82	1/4		1/4		1/4		1/4		1/4	
1/2	3,645.56	1/2	3,839.82	1/2	4,029.20	1/2	4,200.80	1/2	4,374.68	1/2		1/2		1/2		1/2		1/2	
3/4	3,649.60	3/4	3,843.87	3/4	4,032.97	3/4	4,204.17	3/4	4,378.54	3/4		3/4		3/4		3/4		3/4	
6	3,653.65	6	3,847.92	6	4,036.74	6	4,207.55	6	4,382.40	6		6		6		6		6	
1/4	3,657.70	1/4	3,851.96	1/4	4,040.48	1/4	4,210.89	1/4	4,385.28	1/4		1/4		1/4		1/4		1/4	
1/2	3,661.75	1/2	3,856.01	1/2	4,044.22	1/2	4,214.23	1/2	4,388.16	1/2		1/2		1/2		1/2		1/2	
3/4	3,665.79	3/4	3,860.06	3/4	4,047.96	3/4	4,217.58	3/4	4,391.04	3/4		3/4		3/4		3/4		3/4	
7	3,669.84	7	3,864.11	7	4,051.70	7	4,220.92	7	4,393.92	7		7		7		7		7	
1/4	3,673.89	1/4	3,868.15	1/4	4,055.41	1/4	4,224.23	1/4	4,395.57	1/4		1/4		1/4		1/4		1/4	
1/2	3,677.93	1/2	3,872.20	1/2	4,059.12	1/2	4,227.54	1/2	4,397.23	1/2		1/2		1/2		1/2		1/2	
3/4	3,681.98	3/4	3,876.25	3/4	4,062.82	3/4	4,230.86	3/4	4,398.89	3/4		3/4		3/4		3/4		3/4	
8	3,686.03	8	3,880.29	8	4,066.53	8	4,234.17	8	4,400.55	8		8		8		8		8	
1/4	3,690.08	1/4	3,884.34	1/4	4,070.20	1/4	4,237.45	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,694.12	1/2	3,888.38	1/2	4,073.88	1/2	4,240.74	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,698.17	3/4	3,892.42	3/4	4,077.55	3/4	4,244.02	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,702.22	9	3,896.46	9	4,081.22	9	4,247.30	9		9		9		9		9		9	
1/4	3,706.26	1/4	3,900.49	1/4	4,084.87	1/4	4,250.55	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,710.31	1/2	3,904.51	1/2	4,088.51	1/2	4,253.80	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,714.36	3/4	3,908.53	3/4	4,092.15	3/4	4,257.05	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,718.41	10	3,912.56	10	4,095.79	10	4,260.30	10		10		10		10		10		10	
1/4	3,722.45	1/4	3,916.55	1/4	4,099.41	1/4	4,263.52	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,726.50	1/2	3,920.54	1/2	4,103.02	1/2	4,266.73	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,730.55	3/4	3,924.53	3/4	4,106.63	3/4	4,269.95	3/4		3/4		3/4		3/4		3/4		3/4	
11	3,734.60	11	3,928.53	11	4,110.24	11	4,273.16	11		11		11		11		11		11	
1/4	3,738.64	1/4	3,932.48	1/4	4,113.83	1/4	4,276.69	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,742.69	1/2	3,936.44	1/2	4,117.41	1/2	4,280.23	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,746.74	3/4	3,940.40	3/4	4,120.99	3/4	4,283.76	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 04/23/2020 CL
CALCULATED: 04/26/2020 CL
PRINTED: 04/28/2020 CL

PRECISION MEASUREMENT
& ANALYSIS, INC.

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

CANCELS AND SUPERCEDES
ALL PRIOR TO 04/2020



BARGE "EMS 517"

3 STBD INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08 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	21.24	0	352.18	0	710.35	0	1,058.24	0	1,411.08	0	1,769.88	0	2,129.18	0	2,488.42	0	2,845.76	0	3,203.75
1/4	25.44	1/4	359.52	1/4	717.84	1/4	1,065.39	1/4	1,418.50	1/4	1,777.37	1/4	2,136.66	1/4	2,495.90	1/4	2,853.23	1/4	3,211.19
1/2	29.64	1/2	366.86	1/2	725.33	1/2	1,072.54	1/2	1,425.92	1/2	1,784.85	1/2	2,144.15	1/2	2,503.39	1/2	2,860.70	1/2	3,218.62
3/4	33.85	3/4	374.21	3/4	732.82	3/4	1,079.69	3/4	1,433.35	3/4	1,792.34	3/4	2,151.63	3/4	2,510.87	3/4	2,868.17	3/4	3,226.06
1	38.05	1	381.55	1	740.30	1	1,086.84	1	1,440.77	1	1,799.82	1	2,159.11	1	2,518.36	1	2,875.64	1	3,233.50
1/4	43.50	1/4	388.89	1/4	747.79	1/4	1,093.99	1/4	1,448.20	1/4	1,807.31	1/4	2,166.60	1/4	2,525.84	1/4	2,883.11	1/4	3,240.93
1/2	48.94	1/2	396.23	1/2	755.28	1/2	1,101.14	1/2	1,455.62	1/2	1,814.80	1/2	2,174.08	1/2	2,533.32	1/2	2,890.57	1/2	3,248.37
3/4	54.38	3/4	403.57	3/4	762.77	3/4	1,108.29	3/4	1,463.05	3/4	1,822.28	3/4	2,181.57	3/4	2,540.81	3/4	2,898.04	3/4	3,255.80
2	59.83	2	410.91	2	770.26	2	1,115.44	2	1,470.47	2	1,829.77	2	2,189.05	2	2,548.29	2	2,905.50	2	3,263.24
1/4	66.51	1/4	418.38	1/4	777.74	1/4	1,122.59	1/4	1,477.95	1/4	1,837.25	1/4	2,196.54	1/4	2,555.78	1/4	2,912.96	1/4	3,270.67
1/2	73.19	1/2	425.85	1/2	785.23	1/2	1,129.74	1/2	1,485.43	1/2	1,844.74	1/2	2,204.02	1/2	2,563.26	1/2	2,920.42	1/2	3,278.11
3/4	79.88	3/4	433.31	3/4	792.72	3/4	1,136.89	3/4	1,492.91	3/4	1,852.23	3/4	2,211.50	3/4	2,570.75	3/4	2,927.89	3/4	3,285.55
3	86.56	3	440.78	3	800.21	3	1,144.05	3	1,500.38	3	1,859.71	3	2,218.99	3	2,578.23	3	2,935.35	3	3,292.98
1/4	93.95	1/4	448.27	1/4	807.45	1/4	1,151.44	1/4	1,507.87	1/4	1,867.20	1/4	2,226.47	1/4	2,585.71	1/4	2,942.81	1/4	3,300.43
1/2	101.35	1/2	455.76	1/2	814.69	1/2	1,158.84	1/2	1,515.36	1/2	1,874.68	1/2	2,233.96	1/2	2,593.19	1/2	2,950.27	1/2	3,307.88
3/4	108.74	3/4	463.25	3/4	821.93	3/4	1,166.24	3/4	1,522.84	3/4	1,882.17	3/4	2,241.44	3/4	2,600.68	3/4	2,957.74	3/4	3,315.33
4	116.14	4	470.74	4	829.17	4	1,173.64	4	1,530.33	4	1,889.66	4	2,248.92	4	2,608.16	4	2,965.20	4	3,322.78
1/4	123.61	1/4	478.22	1/4	836.35	1/4	1,181.05	1/4	1,537.81	1/4	1,897.14	1/4	2,256.41	1/4	2,615.55	1/4	2,972.66	1/4	3,330.23
1/2	131.09	1/2	485.71	1/2	843.53	1/2	1,188.46	1/2	1,545.30	1/2	1,904.63	1/2	2,263.89	1/2	2,622.94	1/2	2,980.12	1/2	3,337.68
3/4	138.57	3/4	493.20	3/4	850.71	3/4	1,195.87	3/4	1,552.79	3/4	1,912.11	3/4	2,271.38	3/4	2,630.33	3/4	2,987.59	3/4	3,345.13
5	146.05	5	500.69	5	857.89	5	1,203.27	5	1,560.27	5	1,919.60	5	2,278.86	5	2,637.72	5	2,995.05	5	3,352.59
1/4	153.52	1/4	508.18	1/4	865.06	1/4	1,210.68	1/4	1,567.76	1/4	1,927.09	1/4	2,286.35	1/4	2,645.09	1/4	3,002.51	1/4	3,360.04
1/2	161.00	1/2	515.66	1/2	872.24	1/2	1,218.09	1/2	1,575.24	1/2	1,934.57	1/2	2,293.83	1/2	2,652.47	1/2	3,009.97	1/2	3,367.49
3/4	168.47	3/4	523.15	3/4	879.42	3/4	1,225.50	3/4	1,582.73	3/4	1,942.06	3/4	2,301.31	3/4	2,659.85	3/4	3,017.44	3/4	3,374.94
6	175.95	6	530.64	6	886.59	6	1,232.90	6	1,590.22	6	1,949.54	6	2,308.80	6	2,667.22	6	3,024.90	6	3,382.39
1/4	183.30	1/4	538.13	1/4	893.75	1/4	1,240.33	1/4	1,597.70	1/4	1,957.03	1/4	2,316.28	1/4	2,674.60	1/4	3,032.36	1/4	3,389.84
1/2	190.66	1/2	545.62	1/2	900.91	1/2	1,247.75	1/2	1,605.19	1/2	1,964.52	1/2	2,323.77	1/2	2,681.98	1/2	3,039.82	1/2	3,397.29
3/4	198.02	3/4	553.10	3/4	908.06	3/4	1,255.17	3/4	1,612.67	3/4	1,972.00	3/4	2,331.25	3/4	2,689.35	3/4	3,047.29	3/4	3,404.75
7	205.37	7	560.59	7	915.22	7	1,262.59	7	1,620.16	7	1,979.49	7	2,338.74	7	2,696.73	7	3,054.75	7	3,412.20
1/4	212.71	1/4	568.08	1/4	922.37	1/4	1,270.02	1/4	1,627.65	1/4	1,986.97	1/4	2,346.22	1/4	2,704.10	1/4	3,062.22	1/4	3,419.65
1/2	220.05	1/2	575.57	1/2	929.52	1/2	1,277.44	1/2	1,635.13	1/2	1,994.46	1/2	2,353.70	1/2	2,711.48	1/2	3,069.69	1/2	3,427.10
3/4	227.40	3/4	583.06	3/4	936.67	3/4	1,284.86	3/4	1,642.62	3/4	2,001.95	3/4	2,361.19	3/4	2,718.86	3/4	3,077.16	3/4	3,434.55
8	234.74	8	590.54	8	943.82	8	1,292.29	8	1,650.10	8	2,009.43	8	2,368.67	8	2,726.23	8	3,084.63	8	3,442.00
1/4	242.08	1/4	598.03	1/4	950.97	1/4	1,299.71	1/4	1,657.59	1/4	2,016.92	1/4	2,376.16	1/4	2,733.70	1/4	3,092.10	1/4	3,449.45
1/2	249.42	1/2	605.52	1/2	958.12	1/2	1,307.14	1/2	1,665.08	1/2	2,024.40	1/2	2,383.64	1/2	2,741.18	1/2	3,099.57	1/2	3,456.91
3/4	256.76	3/4	613.01	3/4	965.28	3/4	1,314.56	3/4	1,672.56	3/4	2,031.88	3/4	2,391.12	3/4	2,748.65	3/4	3,107.04	3/4	3,464.36
9	264.10	9	620.50	9	972.43	9	1,321.99	9	1,680.05	9	2,039.37	9	2,398.61	9	2,756.12	9	3,114.51	9	3,471.81
1/4	271.44	1/4	627.98	1/4	979.58	1/4	1,329.41	1/4	1,687.53	1/4	2,046.85	1/4	2,406.09	1/4	2,763.59	1/4	3,121.95	1/4	3,479.26
1/2	278.78	1/2	635.47	1/2	986.73	1/2	1,336.83	1/2	1,695.02	1/2	2,054.34	1/2	2,413.58	1/2	2,771.06	1/2	3,129.39	1/2	3,486.71
3/4	286.12	3/4	642.96	3/4	993.88	3/4	1,344.26	3/4	1,702.51	3/4	2,061.82	3/4	2,421.06	3/4	2,778.53	3/4	3,136.83	3/4	3,494.16
10	293.46	10	650.45	10	1,001.03	10	1,351.68	10	1,709.99	10	2,069.30	10	2,428.55	10	2,786.00	10	3,144.27	10	3,499.62
1/4	300.80	1/4	657.94	1/4	1,008.18	1/4	1,359.11	1/4	1,717.48	1/4	2,076.79	1/4	2,436.03	1/4	2,793.47	1/4	3,151.70	1/4	3,499.64
1/2	308.14	1/2	665.42	1/2	1,015.33	1/2	1,366.53	1/2	1,724.96	1/2	2,084.27	1/2	2,443.51	1/2	2,800.94	1/2	3,159.14	1/2	3,497.66
3/4	315.48	3/4	672.91	3/4	1,022.48	3/4	1,373.96	3/4	1,732.45	3/4	2,091.76	3/4	2,451.00	3/4	2,808.41	3/4	3,166.57	3/4	3,501.69
11	322.82	11	680.40	11	1,029.63	11	1,381.38	11	1,739.94	11	2,099.24	11	2,458.48	11	2,815.88	11	3,174.01	11	3,505.71
1/4	330.16	1/4	687.89	1/4	1,036.78	1/4	1,388.80	1/4	1,747.42	1/4	2,106.72	1/4	2,465.97	1/4	2,823.35	1/4	3,181.44	1/4	3,509.73
1/2	337.50	1/2	695.38	1/2	1,043.93	1/2	1,396.23	1/2	1,754.91	1/2	2,114.21	1/2	2,473.45	1/2	2,830.82	1/2	3,188.88	1/2	3,513.75
3/4	344.84	3/4	702.86	3/4	1,051.08	3/4	1,403.65	3/4	1,762.39	3/4	2,121.69	3/4	2,480.93	3/4	2,838.29	3/4	3,196.32	3/4	3,517.78

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" DIAMETER "HERMETIC" VALVE.
 GAUGE POINT: (HERMETIC) LOCATED 10'-06" OFF CENTERLINE AND 55'-03" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



BARGE "EMS 517"

3 STBD INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08 3/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	3,521.80	0	3,714.92	0	3,907.35	0	4,086.45	0	4,248.09	0		0		0		0		0	
1/4	3,525.82	1/4	3,718.94	1/4	3,911.26	1/4	4,089.98	1/4	4,252.01	1/4		1/4		1/4		1/4		1/4	
1/2	3,529.85	1/2	3,722.97	1/2	3,915.16	1/2	4,093.51	1/2	4,255.93	1/2		1/2		1/2		1/2		1/2	
3/4	3,533.87	3/4	3,726.99	3/4	3,919.06	3/4	4,097.03	3/4	4,259.84	3/4		3/4		3/4		3/4		3/4	
1	3,537.89	1	3,731.01	1	3,922.97	1	4,100.56	1	4,263.76	1		1		1		1		1	
1/4	3,541.92	1/4	3,735.04	1/4	3,926.84	1/4	4,104.04	1/4	4,267.73	1/4		1/4		1/4		1/4		1/4	
1/2	3,545.94	1/2	3,739.06	1/2	3,930.71	1/2	4,107.52	1/2	4,271.70	1/2		1/2		1/2		1/2		1/2	
3/4	3,549.96	3/4	3,743.08	3/4	3,934.59	3/4	4,111.00	3/4	4,275.67	3/4		3/4		3/4		3/4		3/4	
2	3,553.99	2	3,747.11	2	3,938.46	2	4,114.48	2	4,279.64	2		2		2		2		2	
1/4	3,558.01	1/4	3,751.13	1/4	3,942.31	1/4	4,117.93	1/4	4,283.62	1/4		1/4		1/4		1/4		1/4	
1/2	3,562.03	1/2	3,755.15	1/2	3,946.15	1/2	4,121.37	1/2	4,287.59	1/2		1/2		1/2		1/2		1/2	
3/4	3,566.06	3/4	3,759.18	3/4	3,949.99	3/4	4,124.82	3/4	4,291.56	3/4		3/4		3/4		3/4		3/4	
3	3,570.08	3	3,763.20	3	3,953.84	3	4,128.27	3	4,295.53	3		3		3		3		3	
1/4	3,574.10	1/4	3,767.22	1/4	3,957.65	1/4	4,131.69	1/4	4,299.50	1/4		1/4		1/4		1/4		1/4	
1/2	3,578.13	1/2	3,771.25	1/2	3,961.46	1/2	4,135.10	1/2	4,303.47	1/2		1/2		1/2		1/2		1/2	
3/4	3,582.15	3/4	3,775.27	3/4	3,965.27	3/4	4,138.52	3/4	4,307.44	3/4		3/4		3/4		3/4		3/4	
4	3,586.17	4	3,779.29	4	3,969.08	4	4,141.94	4	4,311.41	4		4		4		4		4	
1/4	3,590.20	1/4	3,783.32	1/4	3,972.86	1/4	4,145.33	1/4	4,315.38	1/4		1/4		1/4		1/4		1/4	
1/2	3,594.22	1/2	3,787.34	1/2	3,976.63	1/2	4,148.71	1/2	4,319.35	1/2		1/2		1/2		1/2		1/2	
3/4	3,598.24	3/4	3,791.36	3/4	3,980.41	3/4	4,152.10	3/4	4,323.32	3/4		3/4		3/4		3/4		3/4	
5	3,602.27	5	3,795.39	5	3,984.19	5	4,155.48	5	4,327.29	5		5		5		5		5	
1/4	3,606.29	1/4	3,799.41	1/4	3,987.94	1/4	4,158.83	1/4	4,331.12	1/4		1/4		1/4		1/4		1/4	
1/2	3,610.31	1/2	3,803.43	1/2	3,991.68	1/2	4,162.18	1/2	4,334.96	1/2		1/2		1/2		1/2		1/2	
3/4	3,614.34	3/4	3,807.46	3/4	3,995.43	3/4	4,165.53	3/4	4,338.80	3/4		3/4		3/4		3/4		3/4	
6	3,618.36	6	3,811.48	6	3,999.18	6	4,168.88	6	4,342.63	6		6		6		6		6	
1/4	3,622.38	1/4	3,815.50	1/4	4,002.89	1/4	4,172.20	1/4	4,345.49	1/4		1/4		1/4		1/4		1/4	
1/2	3,626.41	1/2	3,819.53	1/2	4,006.61	1/2	4,175.53	1/2	4,348.35	1/2		1/2		1/2		1/2		1/2	
3/4	3,630.43	3/4	3,823.55	3/4	4,010.33	3/4	4,178.85	3/4	4,351.20	3/4		3/4		3/4		3/4		3/4	
7	3,634.45	7	3,827.57	7	4,014.04	7	4,182.17	7	4,354.06	7		7		7		7		7	
1/4	3,638.48	1/4	3,831.60	1/4	4,017.73	1/4	4,185.46	1/4	4,355.70	1/4		1/4		1/4		1/4		1/4	
1/2	3,642.50	1/2	3,835.62	1/2	4,021.41	1/2	4,188.75	1/2	4,357.34	1/2		1/2		1/2		1/2		1/2	
3/4	3,646.52	3/4	3,839.64	3/4	4,025.09	3/4	4,192.04	3/4	4,358.98	3/4		3/4		3/4		3/4		3/4	
8	3,650.55	8	3,843.67	8	4,028.78	8	4,195.33	8	4,360.62	8		8		8		8		8	
1/4	3,654.57	1/4	3,847.68	1/4	4,032.43	1/4	4,198.59	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,658.59	1/2	3,851.70	1/2	4,036.08	1/2	4,201.85	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,662.62	3/4	3,855.72	3/4	4,039.73	3/4	4,205.11	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,666.64	9	3,859.74	9	4,043.38	9	4,208.37	9		9		9		9		9		9	
1/4	3,670.66	1/4	3,863.74	1/4	4,047.00	1/4	4,211.60	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,674.69	1/2	3,867.74	1/2	4,050.62	1/2	4,214.83	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,678.71	3/4	3,871.74	3/4	4,054.24	3/4	4,218.06	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,682.73	10	3,875.74	10	4,057.86	10	4,221.28	10		10		10		10		10		10	
1/4	3,686.76	1/4	3,879.71	1/4	4,061.44	1/4	4,224.48	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,690.78	1/2	3,883.68	1/2	4,065.03	1/2	4,227.67	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,694.80	3/4	3,887.65	3/4	4,068.62	3/4	4,230.87	3/4		3/4		3/4		3/4		3/4		3/4	
11	3,698.83	11	3,891.61	11	4,072.21	11	4,234.06	11		11		11		11		11		11	
1/4	3,702.85	1/4	3,895.55	1/4	4,075.77	1/4	4,237.57	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,706.87	1/2	3,899.48	1/2	4,079.33	1/2	4,241.07	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,710.90	3/4	3,903.42	3/4	4,082.89	3/4	4,244.58	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 04/23/2020 CL
CALCULATED: 04/26/2020 CL
PRINTED: 04/28/2020 CL

PRECISION MEASUREMENT
& ANALYSIS, INC.

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



CANCELS AND SUPERCEDES
ALL PRIOR TO 04/2020