



BARGE "EMS 522"

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

(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 ULLAGE IS 3'-11 7/8"

LENGTH BETWEEN DRAFT MARKS: 253'-00"

May 19, 2020

PRECISION MEASUREMENT
& ANALYSIS, INC.
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Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "EMS 522"

1 PORT

INNAGE 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	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0
0	21.39	0	359.15	0	721.79	0	1,084.19	0	1,446.59	0	1,809.25	0	2,171.90	0	2,534.56	0	2,897.10	0	3,259.62
1/4	25.64	1/4	366.71	1/4	726.35	1/4	1,091.74	1/4	1,454.15	1/4	1,816.80	1/4	2,179.46	1/4	2,542.11	1/4	2,904.65	1/4	3,267.17
1/2	29.89	1/2	374.26	1/2	736.90	1/2	1,099.28	1/2	1,461.70	1/2	1,824.36	1/2	2,187.01	1/2	2,549.67	1/2	2,912.21	1/2	3,274.73
3/4	34.14	3/4	381.82	3/4	744.46	3/4	1,106.82	3/4	1,469.26	3/4	1,831.91	3/4	2,194.57	3/4	2,557.22	3/4	2,919.76	3/4	3,282.28
1	38.38	1	389.37	1	752.01	1	1,114.36	1	1,476.81	1	1,839.47	1	2,202.12	1	2,564.78	1	2,927.31	1	3,289.83
1/4	43.89	1/4	396.93	1/4	759.57	1/4	1,121.91	1/4	1,484.37	1/4	1,847.02	1/4	2,209.68	1/4	2,572.33	1/4	2,934.86	1/4	3,297.38
1/2	49.40	1/2	404.48	1/2	767.12	1/2	1,129.45	1/2	1,491.93	1/2	1,854.58	1/2	2,217.23	1/2	2,579.89	1/2	2,942.42	1/2	3,304.94
3/4	54.91	3/4	412.04	3/4	774.68	3/4	1,136.99	3/4	1,499.48	3/4	1,862.14	3/4	2,224.79	3/4	2,587.44	3/4	2,949.97	3/4	3,312.49
2	60.42	2	419.59	2	782.23	2	1,144.54	2	1,507.04	2	1,869.69	2	2,232.34	2	2,595.00	2	2,957.52	2	3,320.04
1/4	67.18	1/4	427.15	1/4	789.79	1/4	1,152.08	1/4	1,514.59	1/4	1,877.25	1/4	2,239.90	1/4	2,602.55	1/4	2,965.07	1/4	3,327.59
1/2	73.95	1/2	434.70	1/2	797.34	1/2	1,159.62	1/2	1,522.15	1/2	1,884.80	1/2	2,247.46	1/2	2,610.11	1/2	2,972.63	1/2	3,335.15
3/4	80.72	3/4	442.26	3/4	804.90	3/4	1,167.17	3/4	1,529.70	3/4	1,892.36	3/4	2,255.01	3/4	2,617.67	3/4	2,980.18	3/4	3,342.70
3	87.49	3	449.81	3	812.45	3	1,174.71	3	1,537.26	3	1,899.91	3	2,262.57	3	2,625.22	3	2,987.73	3	3,350.25
1/4	94.96	1/4	457.37	1/4	820.01	1/4	1,182.25	1/4	1,544.81	1/4	1,907.47	1/4	2,270.12	1/4	2,632.77	1/4	2,995.28	1/4	3,357.80
1/2	102.44	1/2	464.92	1/2	827.56	1/2	1,189.79	1/2	1,552.37	1/2	1,915.02	1/2	2,277.68	1/2	2,640.32	1/2	3,002.84	1/2	3,365.36
3/4	109.92	3/4	472.48	3/4	835.12	3/4	1,197.34	3/4	1,559.92	3/4	1,922.58	3/4	2,285.23	3/4	2,647.87	3/4	3,010.39	3/4	3,372.91
4	117.39	4	480.03	4	842.67	4	1,204.88	4	1,567.48	4	1,930.13	4	2,292.79	4	2,655.42	4	3,017.94	4	3,380.46
1/4	124.95	1/4	487.59	1/4	850.23	1/4	1,212.42	1/4	1,575.03	1/4	1,937.69	1/4	2,300.34	1/4	2,662.97	1/4	3,025.49	1/4	3,388.01
1/2	132.50	1/2	495.14	1/2	857.78	1/2	1,219.97	1/2	1,582.59	1/2	1,945.24	1/2	2,307.90	1/2	2,670.53	1/2	3,033.05	1/2	3,395.57
3/4	140.06	3/4	502.70	3/4	865.34	3/4	1,227.51	3/4	1,590.14	3/4	1,952.80	3/4	2,315.45	3/4	2,678.08	3/4	3,040.60	3/4	3,403.12
5	147.61	5	510.25	5	872.89	5	1,235.05	5	1,597.25	5	1,960.35	5	2,323.01	5	2,685.63	5	3,048.15	5	3,410.67
1/4	155.17	1/4	517.81	1/4	880.45	1/4	1,242.61	1/4	1,605.25	1/4	1,967.91	1/4	2,330.56	1/4	2,693.18	1/4	3,055.70	1/4	3,418.22
1/2	162.72	1/2	525.36	1/2	888.00	1/2	1,250.16	1/2	1,612.81	1/2	1,975.46	1/2	2,338.12	1/2	2,700.74	1/2	3,063.26	1/2	3,425.78
3/4	170.28	3/4	532.92	3/4	895.56	3/4	1,257.71	3/4	1,620.37	3/4	1,983.02	3/4	2,345.67	3/4	2,708.29	3/4	3,070.81	3/4	3,433.33
6	177.83	6	540.47	6	903.11	6	1,265.27	6	1,627.92	6	1,990.58	6	2,353.23	6	2,715.84	6	3,078.36	6	3,440.88
1/4	185.39	1/4	548.03	1/4	910.67	1/4	1,272.82	1/4	1,635.48	1/4	1,998.13	1/4	2,360.78	1/4	2,723.39	1/4	3,085.91	1/4	3,448.43
1/2	192.94	1/2	555.58	1/2	918.22	1/2	1,280.38	1/2	1,643.03	1/2	2,005.69	1/2	2,368.34	1/2	2,730.95	1/2	3,093.47	1/2	3,455.99
3/4	200.50	3/4	563.14	3/4	925.78	3/4	1,287.93	3/4	1,650.59	3/4	2,013.24	3/4	2,375.90	3/4	2,738.50	3/4	3,101.02	3/4	3,463.54
7	208.05	7	570.69	7	933.33	7	1,295.49	7	1,658.14	7	2,020.80	7	2,383.45	7	2,746.05	7	3,108.57	7	3,471.09
1/4	215.61	1/4	578.25	1/4	940.88	1/4	1,303.04	1/4	1,665.70	1/4	2,028.35	1/4	2,391.01	1/4	2,753.60	1/4	3,116.12	1/4	3,478.64
1/2	223.16	1/2	585.80	1/2	948.42	1/2	1,310.60	1/2	1,673.25	1/2	2,035.91	1/2	2,398.56	1/2	2,761.16	1/2	3,123.68	1/2	3,486.20
3/4	230.72	3/4	593.36	3/4	955.96	3/4	1,318.15	3/4	1,680.81	3/4	2,043.46	3/4	2,406.12	3/4	2,768.71	3/4	3,131.23	3/4	3,493.75
8	238.27	8	600.91	8	963.50	8	1,325.71	8	1,688.36	8	2,051.02	8	2,413.67	8	2,776.26	8	3,138.78	8	3,501.30
1/4	245.83	1/4	608.47	1/4	971.05	1/4	1,333.26	1/4	1,695.92	1/4	2,058.57	1/4	2,421.23	1/4	2,783.81	1/4	3,146.33	1/4	3,508.85
1/2	253.38	1/2	616.02	1/2	978.59	1/2	1,340.82	1/2	1,703.47	1/2	2,066.13	1/2	2,428.78	1/2	2,791.37	1/2	3,153.89	1/2	3,516.41
3/4	260.94	3/4	623.58	3/4	986.13	3/4	1,348.37	3/4	1,711.03	3/4	2,073.68	3/4	2,436.34	3/4	2,798.92	3/4	3,161.44	3/4	3,523.96
9	268.49	9	631.13	9	993.68	9	1,355.93	9	1,718.58	9	2,081.24	9	2,443.89	9	2,806.47	9	3,168.99	9	3,531.51
1/4	276.05	1/4	638.69	1/4	1,001.22	1/4	1,363.49	1/4	1,726.14	1/4	2,088.79	1/4	2,451.45	1/4	2,814.02	1/4	3,176.54	1/4	3,539.06
1/2	283.60	1/2	646.24	1/2	1,008.76	1/2	1,371.04	1/2	1,733.70	1/2	2,096.35	1/2	2,459.00	1/2	2,821.58	1/2	3,184.10	1/2	3,546.62
3/4	291.16	3/4	653.80	3/4	1,016.31	3/4	1,378.60	3/4	1,741.25	3/4	2,103.90	3/4	2,466.56	3/4	2,829.13	3/4	3,191.65	3/4	3,554.17
10	299.71	10	661.35	10	1,023.85	10	1,386.15	10	1,748.81	10	2,111.46	10	2,474.11	10	2,836.68	10	3,199.20	10	3,561.72
1/4	306.27	1/4	668.91	1/4	1,031.39	1/4	1,393.71	1/4	1,756.36	1/4	2,119.02	1/4	2,481.67	1/4	2,844.23	1/4	3,206.75	1/4	3,569.27
1/2	313.82	1/2	676.46	1/2	1,038.93	1/2	1,401.26	1/2	1,763.92	1/2	2,126.57	1/2	2,489.23	1/2	2,851.79	1/2	3,214.31	1/2	3,576.83
3/4	321.38	3/4	684.02	3/4	1,046.48	3/4	1,408.82	3/4	1,771.47	3/4	2,134.13	3/4	2,496.78	3/4	2,859.34	3/4	3,221.86	3/4	3,584.38
11	328.93	11	691.57	11	1,054.02	11	1,416.37	11	1,779.03	11	2,141.68	11	2,504.34	11	2,866.89	11	3,229.41	11	3,591.93
1/4	336.49	1/4	699.13	1/4	1,061.56	1/4	1,423.93	1/4	1,786.58	1/4	2,149.24	1/4	2,511.89	1/4	2,874.44	1/4	3,236.96	1/4	3,599.48
1/2	344.04	1/2	706.68	1/2	1,069.11	1/2	1,431.48	1/2	1,794.14	1/2	2,156.79	1/2	2,519.45	1/2	2,882.00	1/2	3,244.52	1/2	3,607.04
3/4	351.60	3/4	714.24	3/4	1,076.65	3/4	1,439.04	3/4	1,801.69	3/4	2,164.35	3/4	2,527.00	3/4	2,889.55	3/4	3,252.07	3/4	3,614.59

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.

CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.

CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN TO TOP LIP OF 2" 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

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BARGE "EMS 522"

1 PORT
INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08 3/4"

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.	
IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0
0	3,622.14	0	3,984.82	0	4,339.55	0	4,681.24	0	5,008.20	0		0		0		0		0	
1/4	3,629.69	1/4	3,992.14	1/4	4,346.79	1/4	4,688.21	1/4	5,014.79	1/4		1/4		1/4		1/4		1/4	
1/2	3,637.25	1/2	3,999.66	1/2	4,354.04	1/2	4,695.18	1/2	5,021.39	1/2		1/2		1/2		1/2		1/2	
3/4	3,644.80	3/4	4,007.18	3/4	4,361.28	3/4	4,702.15	3/4	5,027.98	3/4		3/4		3/4		3/4		3/4	
1	3,652.35	1	4,014.70	1	4,368.53	1	4,709.12	1	5,034.58	1		1		1		1		1	
1 1/4	3,659.90	1 1/4	4,022.20	1 1/4	4,375.75	1 1/4	4,716.04	1 1/4	5,041.15	1 1/4		1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	3,667.46	1 1/2	4,029.70	1 1/2	4,382.97	1 1/2	4,722.96	1 1/2	5,047.72	1 1/2		1 1/2		1 1/2		1 1/2		1 1/2	
3/4	3,675.01	3/4	4,037.19	3/4	4,390.20	3/4	4,729.88	3/4	5,054.29	3/4		3/4		3/4		3/4		3/4	
2	3,682.56	2	4,044.69	2	4,397.42	2	4,736.80	2	5,060.87	2		2		2		2		2	
1 1/4	3,690.11	1 1/4	4,052.17	1 1/4	4,404.62	1 1/4	4,743.69	1 1/4	5,067.42	1 1/4		1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	3,697.67	1 1/2	4,059.64	1 1/2	4,411.82	1 1/2	4,750.59	1 1/2	5,073.96	1 1/2		1 1/2		1 1/2		1 1/2		1 1/2	
3/4	3,705.22	3/4	4,067.12	3/4	4,419.01	3/4	4,757.48	3/4	5,080.51	3/4		3/4		3/4		3/4		3/4	
3	3,712.77	3	4,074.59	3	4,426.21	3	4,764.38	3	5,087.06	3		3		3		3		3	
1 1/4	3,720.32	1 1/4	4,082.04	1 1/4	4,433.39	1 1/4	4,771.25	1 1/4	5,093.59	1 1/4		1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	3,727.88	1 1/2	4,089.50	1 1/2	4,440.57	1 1/2	4,778.12	1 1/2	5,100.11	1 1/2		1 1/2		1 1/2		1 1/2		1 1/2	
3/4	3,735.43	3/4	4,096.95	3/4	4,447.74	3/4	4,784.99	3/4	5,106.64	3/4		3/4		3/4		3/4		3/4	
4	3,742.98	4	4,104.40	4	4,454.92	4	4,791.86	4	5,113.17	4		4		4		4		4	
1 1/4	3,750.53	1 1/4	4,111.83	1 1/4	4,462.07	1 1/4	4,798.71	1 1/4	5,119.67	1 1/4		1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	3,758.09	1 1/2	4,119.26	1 1/2	4,469.22	1 1/2	4,805.56	1 1/2	5,126.17	1 1/2		1 1/2		1 1/2		1 1/2		1 1/2	
3/4	3,765.64	3/4	4,126.69	3/4	4,476.38	3/4	4,812.40	3/4	5,132.67	3/4		3/4		3/4		3/4		3/4	
5	3,773.19	5	4,134.11	5	4,483.53	5	4,819.25	5	5,139.18	5		5		5		5		5	
1 1/4	3,780.74	1 1/4	4,141.52	1 1/4	4,490.66	1 1/4	4,826.08	1 1/4	5,146.37	1 1/4		1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	3,788.30	1 1/2	4,148.93	1 1/2	4,497.79	1 1/2	4,832.90	1 1/2	5,153.57	1 1/2		1 1/2		1 1/2		1 1/2		1 1/2	
3/4	3,795.85	3/4	4,156.33	3/4	4,504.92	3/4	4,839.73	3/4	5,160.77	3/4		3/4		3/4		3/4		3/4	
6	3,803.40	6	4,163.74	6	4,512.05	6	4,846.55	6	5,167.97	6		6		6		6		6	
1 1/4	3,810.95	1 1/4	4,171.12	1 1/4	4,519.16	1 1/4	4,853.35	1 1/4	5,174.30	1 1/4		1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	3,818.51	1 1/2	4,178.50	1 1/2	4,526.26	1 1/2	4,860.16	1 1/2	5,180.63	1 1/2		1 1/2		1 1/2		1 1/2		1 1/2	
3/4	3,826.06	3/4	4,185.89	3/4	4,533.37	3/4	4,866.96	3/4	5,186.96	3/4		3/4		3/4		3/4		3/4	
7	3,833.61	7	4,193.27	7	4,540.48	7	4,873.76	7	5,193.29	7		7		7		7		7	
1 1/4	3,841.16	1 1/4	4,200.63	1 1/4	4,547.56	1 1/4	4,880.54	1 1/4	5,198.41	1 1/4		1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	3,848.72	1 1/2	4,207.99	1 1/2	4,554.65	1 1/2	4,887.32	1 1/2	5,203.53	1 1/2		1 1/2		1 1/2		1 1/2		1 1/2	
3/4	3,856.27	3/4	4,215.35	3/4	4,561.73	3/4	4,894.10	3/4	5,208.65	3/4		3/4		3/4		3/4		3/4	
8	3,863.82	8	4,222.71	8	4,568.81	8	4,900.88	8	5,213.77	8		8		8		8		8	
1 1/4	3,871.37	1 1/4	4,230.05	1 1/4	4,575.88	1 1/4	4,907.63	1 1/4		1 1/4		1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	3,878.93	1 1/2	4,237.38	1 1/2	4,582.94	1 1/2	4,914.39	1 1/2		1 1/2		1 1/2		1 1/2		1 1/2		1 1/2	
3/4	3,886.48	3/4	4,244.72	3/4	4,590.00	3/4	4,921.15	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,894.03	9	4,252.06	9	4,597.06	9	4,927.90	9		9		9		9		9		9	
1 1/4	3,901.58	1 1/4	4,259.37	1 1/4	4,604.10	1 1/4	4,934.64	1 1/4		1 1/4		1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	3,909.14	1 1/2	4,266.69	1 1/2	4,611.14	1 1/2	4,941.37	1 1/2		1 1/2		1 1/2		1 1/2		1 1/2		1 1/2	
3/4	3,916.69	3/4	4,274.00	3/4	4,618.17	3/4	4,948.11	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,924.24	10	4,281.31	10	4,625.21	10	4,954.84	10		10		10		10		10		10	
1 1/4	3,931.79	1 1/4	4,288.60	1 1/4	4,632.23	1 1/4	4,961.55	1 1/4		1 1/4		1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	3,939.35	1 1/2	4,295.90	1 1/2	4,639.24	1 1/2	4,968.27	1 1/2		1 1/2		1 1/2		1 1/2		1 1/2		1 1/2	
3/4	3,946.90	3/4	4,303.19	3/4	4,646.26	3/4	4,974.98	3/4		3/4		3/4		3/4		3/4		3/4	
11	3,954.45	11	4,310.48	11	4,653.27	11	4,981.69	11		11		11		11		11		11	
1 1/4	3,961.99	1 1/4	4,317.75	1 1/4	4,660.26	1 1/4	4,988.32	1 1/4		1 1/4		1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	3,969.53	1 1/2	4,325.01	1 1/2	4,667.26	1 1/2	4,994.95	1 1/2		1 1/2		1 1/2		1 1/2		1 1/2		1 1/2	
3/4	3,977.08	3/4	4,332.28	3/4	4,674.25	3/4	5,001.57	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 05/19/2020 CL
CALCULATED: 05/20/2020 CL
PRINTED: 05/20/2020 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 05/2020

PRECISION MEASUREMENT
& ANALYSIS, INC.

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



BARGE "EMS 522"

1 STBD 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	21.45	0	360.08	0	723.65	0	1,086.06	0	1,448.43	0	1,812.01	0	2,175.60	0	2,539.19	0	2,902.59	0	3,266.14
1/4	25.71	1/4	367.65	1/4	731.22	1/4	1,093.59	1/4	1,456.00	1/4	1,819.59	1/4	2,183.17	1/4	2,546.76	1/4	2,910.26	1/4	3,273.72
1/2	29.96	1/2	375.23	1/2	738.80	1/2	1,101.11	1/2	1,463.58	1/2	1,827.16	1/2	2,190.75	1/2	2,554.34	1/2	2,917.83	1/2	3,281.29
3/4	34.22	3/4	382.80	3/4	746.37	3/4	1,108.63	3/4	1,471.15	3/4	1,834.74	3/4	2,198.32	3/4	2,561.91	3/4	2,925.40	3/4	3,288.86
1	38.48	1	390.37	1	753.95	1	1,116.16	1	1,478.73	1	1,842.31	1	2,205.90	1	2,569.48	1	2,932.98	1	3,296.43
1/4	44.01	1/4	397.95	1/4	761.52	1/4	1,123.68	1/4	1,486.30	1/4	1,849.89	1/4	2,213.47	1/4	2,577.06	1/4	2,940.55	1/4	3,304.00
1/2	49.53	1/2	405.52	1/2	769.09	1/2	1,131.20	1/2	1,493.88	1/2	1,857.46	1/2	2,221.05	1/2	2,584.63	1/2	2,948.12	1/2	3,311.58
3/4	55.05	3/4	413.10	3/4	776.67	3/4	1,138.72	3/4	1,501.45	3/4	1,865.04	3/4	2,228.62	3/4	2,592.21	3/4	2,955.69	3/4	3,319.15
2	60.57	2	420.67	2	784.24	2	1,146.25	2	1,509.03	2	1,872.61	2	2,236.20	2	2,599.78	2	2,963.26	2	3,326.72
1/4	67.36	1/4	428.25	1/4	791.82	1/4	1,153.77	1/4	1,516.60	1/4	1,880.19	1/4	2,243.77	1/4	2,607.36	1/4	2,970.84	1/4	3,334.29
1/2	74.14	1/2	435.82	1/2	799.39	1/2	1,161.29	1/2	1,524.18	1/2	1,894.76	1/2	2,251.35	1/2	2,614.93	1/2	2,978.41	1/2	3,341.86
3/4	80.93	3/4	443.39	3/4	806.97	3/4	1,166.82	3/4	1,531.75	3/4	1,895.34	3/4	2,258.92	3/4	2,622.51	3/4	2,985.98	3/4	3,349.44
3	87.71	3	450.97	3	814.54	3	1,176.34	3	1,539.33	3	1,902.91	3	2,266.50	3	2,630.08	3	2,993.55	3	3,357.01
1/4	95.21	1/4	458.54	1/4	822.11	1/4	1,183.86	1/4	1,546.90	1/4	1,910.49	1/4	2,274.07	1/4	2,637.66	1/4	3,001.12	1/4	3,364.58
1/2	102.70	1/2	466.12	1/2	829.69	1/2	1,191.38	1/2	1,554.47	1/2	1,918.06	1/2	2,281.65	1/2	2,645.23	1/2	3,008.70	1/2	3,372.15
3/4	110.20	3/4	473.69	3/4	837.26	3/4	1,198.91	3/4	1,562.05	3/4	1,925.64	3/4	2,289.22	3/4	2,652.81	3/4	3,016.27	3/4	3,379.72
4	117.70	4	481.27	4	844.84	4	1,206.43	4	1,569.62	4	1,933.21	4	2,296.80	4	2,660.38	4	3,023.84	4	3,387.30
1/4	125.27	1/4	488.84	1/4	852.41	1/4	1,213.95	1/4	1,577.20	1/4	1,940.78	1/4	2,304.37	1/4	2,667.96	1/4	3,031.41	1/4	3,394.87
1/2	132.84	1/2	496.42	1/2	859.99	1/2	1,221.48	1/2	1,584.77	1/2	1,948.36	1/2	2,311.94	1/2	2,675.53	1/2	3,038.98	1/2	3,402.44
3/4	140.42	3/4	503.99	3/4	867.56	3/4	1,228.00	3/4	1,592.35	3/4	1,955.93	3/4	2,319.52	3/4	2,683.10	3/4	3,046.56	3/4	3,410.01
5	147.99	5	511.56	5	875.14	5	1,234.52	5	1,599.92	5	1,963.51	5	2,327.09	5	2,690.67	5	3,054.13	5	3,417.58
1/4	155.57	1/4	519.14	1/4	882.71	1/4	1,240.06	1/4	1,607.50	1/4	1,971.08	1/4	2,334.67	1/4	2,698.24	1/4	3,061.70	1/4	3,425.16
1/2	163.14	1/2	526.71	1/2	890.28	1/2	1,251.59	1/2	1,615.07	1/2	1,978.66	1/2	2,342.24	1/2	2,705.82	1/2	3,069.27	1/2	3,432.73
3/4	170.72	3/4	534.29	3/4	897.86	3/4	1,259.12	3/4	1,622.65	3/4	1,986.23	3/4	2,349.82	3/4	2,713.39	3/4	3,076.84	3/4	3,440.30
6	178.29	6	541.86	6	905.43	6	1,266.66	6	1,630.22	6	1,993.81	6	2,357.39	6	2,720.96	6	3,084.42	6	3,447.87
1/4	185.87	1/4	549.44	1/4	912.97	1/4	1,274.23	1/4	1,637.80	1/4	2,001.38	1/4	2,364.97	1/4	2,728.53	1/4	3,091.99	1/4	3,455.44
1/2	193.44	1/2	557.01	1/2	920.52	1/2	1,281.80	1/2	1,645.37	1/2	2,008.96	1/2	2,372.54	1/2	2,736.10	1/2	3,099.56	1/2	3,463.02
3/4	201.01	3/4	564.59	3/4	928.06	3/4	1,289.37	3/4	1,652.95	3/4	2,016.53	3/4	2,380.12	3/4	2,743.68	3/4	3,107.13	3/4	3,470.59
7	208.59	7	572.16	7	935.60	7	1,296.94	7	1,660.52	7	2,024.11	7	2,387.69	7	2,751.25	7	3,114.70	7	3,478.16
1/4	216.16	1/4	579.73	1/4	943.12	1/4	1,304.51	1/4	1,668.10	1/4	2,031.68	1/4	2,395.27	1/4	2,758.82	1/4	3,122.28	1/4	3,485.73
1/2	223.74	1/2	587.31	1/2	950.65	1/2	1,312.08	1/2	1,675.67	1/2	2,039.26	1/2	2,402.84	1/2	2,766.39	1/2	3,129.85	1/2	3,493.30
3/4	231.31	3/4	594.88	3/4	958.17	3/4	1,319.66	3/4	1,683.24	3/4	2,046.83	3/4	2,410.42	3/4	2,773.96	3/4	3,137.42	3/4	3,500.88
8	238.89	8	602.46	8	965.70	8	1,327.23	8	1,690.82	8	2,054.41	8	2,417.99	8	2,781.54	8	3,144.99	8	3,508.45
1/4	246.46	1/4	610.03	1/4	973.22	1/4	1,334.81	1/4	1,698.39	1/4	2,061.98	1/4	2,425.57	1/4	2,789.11	1/4	3,152.56	1/4	3,516.02
1/2	254.03	1/2	617.61	1/2	980.74	1/2	1,342.38	1/2	1,705.97	1/2	2,069.55	1/2	2,433.14	1/2	2,796.68	1/2	3,160.14	1/2	3,523.59
3/4	261.61	3/4	625.18	3/4	988.27	3/4	1,349.96	3/4	1,713.54	3/4	2,077.13	3/4	2,440.71	3/4	2,804.25	3/4	3,167.71	3/4	3,531.16
9	269.18	9	632.75	9	995.79	9	1,357.53	9	1,721.12	9	2,084.70	9	2,448.29	9	2,811.82	9	3,175.28	9	3,538.74
1/4	276.76	1/4	640.33	1/4	1,003.31	1/4	1,365.11	1/4	1,728.69	1/4	2,092.28	1/4	2,455.86	1/4	2,819.40	1/4	3,182.85	1/4	3,546.31
1/2	284.33	1/2	647.90	1/2	1,010.83	1/2	1,372.68	1/2	1,736.27	1/2	2,099.85	1/2	2,463.44	1/2	2,826.97	1/2	3,190.42	1/2	3,553.88
3/4	291.91	3/4	655.48	3/4	1,018.36	3/4	1,380.26	3/4	1,743.84	3/4	2,107.43	3/4	2,471.01	3/4	2,834.54	3/4	3,198.00	3/4	3,561.45
10	299.48	10	663.05	10	1,025.88	10	1,387.83	10	1,751.42	10	2,115.00	10	2,478.59	10	2,842.11	10	3,205.57	10	3,569.02
1/4	307.06	1/4	670.63	1/4	1,033.40	1/4	1,395.41	1/4	1,758.99	1/4	2,122.58	1/4	2,486.16	1/4	2,849.68	1/4	3,213.14	1/4	3,576.60
1/2	314.63	1/2	678.20	1/2	1,040.93	1/2	1,402.98	1/2	1,766.57	1/2	2,130.15	1/2	2,493.74	1/2	2,857.26	1/2	3,220.71	1/2	3,584.17
3/4	322.20	3/4	685.78	3/4	1,048.45	3/4	1,410.56	3/4	1,774.14	3/4	2,137.73	3/4	2,501.31	3/4	2,864.83	3/4	3,228.28	3/4	3,591.74
11	329.78	11	693.35	11	1,055.97	11	1,418.13	11	1,781.72	11	2,145.30	11	2,508.89	11	2,872.40	11	3,235.86	11	3,599.31
1/4	337.35	1/4	700.92	1/4	1,063.49	1/4	1,425.71	1/4	1,789.29	1/4	2,152.88	1/4	2,516.46	1/4	2,879.97	1/4	3,243.43	1/4	3,606.88
1/2	344.93	1/2	708.50	1/2	1,071.02	1/2	1,433.28	1/2	1,796.87	1/2	2,160.45	1/2	2,524.04	1/2	2,887.54	1/2	3,251.00	1/2	3,614.46
3/4	352.50	3/4	716.07	3/4	1,078.54	3/4	1,440.85	3/4	1,804.44	3/4	2,168.03	3/4	2,531.61	3/4	2,895.12	3/4	3,258.57	3/4	3,622.03

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.

PRECISION MEASUREMENT

& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

http://www.pmacorp.net



BARGE "EMS 522"

1 STBD INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.	
IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0
0	3,629.60	0	3,993.01	0	4,348.87	0	4,691.46	0	5,019.29	0									
1/4	3,637.17	1/4	4,000.55	1/4	4,356.13	1/4	4,698.45	1/4	5,025.91	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,644.74	1/2	4,008.09	1/2	4,363.40	1/2	4,705.44	1/2	5,032.52	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,652.32	3/4	4,015.63	3/4	4,370.66	3/4	4,712.42	3/4	5,039.13	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	3,659.89	1	4,023.17	1	4,377.92	1	4,719.41	1	5,045.75	1		1	1	1	1	1	1	1	1
1/4	3,667.46	1/4	4,030.69	1/4	4,385.17	1/4	4,726.35	1/4	5,052.34	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,675.03	1/2	4,038.21	1/2	4,392.41	1/2	4,733.29	1/2	5,058.92	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,682.60	3/4	4,045.73	3/4	4,399.65	3/4	4,740.23	3/4	5,065.51	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	3,690.18	2	4,053.24	2	4,406.89	2	4,747.17	2	5,072.10	2		2	2	2	2	2	2	2	2
1/4	3,697.75	1/4	4,060.74	1/4	4,414.11	1/4	4,754.08	1/4	5,078.67	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,705.32	1/2	4,068.23	1/2	4,421.32	1/2	4,760.99	1/2	5,085.24	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,712.89	3/4	4,075.73	3/4	4,428.54	3/4	4,767.90	3/4	5,091.80	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	3,720.46	3	4,083.22	3	4,435.76	3	4,774.82	3	5,098.37	3		3	3	3	3	3	3	3	3
1/4	3,728.04	1/4	4,090.69	1/4	4,442.96	1/4	4,781.71	1/4	5,104.91	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,735.61	1/2	4,098.16	1/2	4,450.15	1/2	4,788.60	1/2	5,111.46	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,743.18	3/4	4,105.63	3/4	4,457.35	3/4	4,795.48	3/4	5,118.00	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	3,750.75	4	4,113.11	4	4,464.54	4	4,802.37	4	5,124.55	4		4	4	4	4	4	4	4	4
1/4	3,758.32	1/4	4,120.55	1/4	4,471.71	1/4	4,809.24	1/4	5,131.07	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,765.90	1/2	4,128.00	1/2	4,478.88	1/2	4,816.11	1/2	5,137.59	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,773.47	3/4	4,135.45	3/4	4,486.06	3/4	4,822.97	3/4	5,144.11	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	3,781.04	5	4,142.90	5	4,493.23	5	4,829.84	5	5,150.63	5		5	5	5	5	5	5	5	5
1/4	3,788.61	1/4	4,150.32	1/4	4,500.38	1/4	4,836.68	1/4	5,157.84	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,796.18	1/2	4,157.75	1/2	4,507.52	1/2	4,843.53	1/2	5,165.06	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,803.76	3/4	4,165.17	3/4	4,514.67	3/4	4,850.37	3/4	5,172.27	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	3,811.33	6	4,172.60	6	4,521.82	6	4,857.21	6	5,179.49	6		6	6	6	6	6	6	6	6
1/4	3,818.90	1/4	4,180.00	1/4	4,528.95	1/4	4,864.03	1/4	5,185.83	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,826.47	1/2	4,187.40	1/2	4,536.07	1/2	4,870.85	1/2	5,192.18	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,834.04	3/4	4,194.81	3/4	4,543.20	3/4	4,877.67	3/4	5,198.53	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	3,841.62	7	4,202.21	7	4,550.33	7	4,884.49	7	5,204.88	7		7	7	7	7	7	7	7	7
1/4	3,849.19	1/4	4,209.59	1/4	4,557.43	1/4	4,891.29	1/4	5,210.01	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,856.76	1/2	4,216.97	1/2	4,564.53	1/2	4,898.09	1/2	5,215.14	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,864.33	3/4	4,224.35	3/4	4,571.63	3/4	4,904.89	3/4	5,220.27	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	3,871.90	8	4,231.72	8	4,578.74	8	4,911.68	8	5,225.40	8		8	8	8	8	8	8	8	8
1/4	3,879.48	1/4	4,239.08	1/4	4,585.82	1/4	4,918.46	1/4		1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,887.05	1/2	4,246.44	1/2	4,592.90	1/2	4,925.23	1/2		1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,894.62	3/4	4,253.79	3/4	4,599.98	3/4	4,932.01	3/4		3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	3,902.19	9	4,261.15	9	4,607.06	9	4,938.78	9		9		9	9	9	9	9	9	9	9
1/4	3,909.76	1/4	4,268.48	1/4	4,614.11	1/4	4,945.53	1/4		1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,917.34	1/2	4,275.81	1/2	4,621.17	1/2	4,952.29	1/2		1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,924.91	3/4	4,283.15	3/4	4,628.23	3/4	4,959.04	3/4		3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	3,932.48	10	4,290.48	10	4,635.28	10	4,965.79	10		10		10	10	10	10	10	10	10	10
1/4	3,940.05	1/4	4,297.79	1/4	4,642.32	1/4	4,972.52	1/4		1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,947.62	1/2	4,305.10	1/2	4,649.35	1/2	4,979.25	1/2		1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,955.20	3/4	4,312.41	3/4	4,656.38	3/4	4,985.98	3/4		3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	3,962.77	11	4,319.72	11	4,663.42	11	4,992.72	11		11		11	11	11	11	11	11	11	11
1/4	3,970.33	1/4	4,327.01	1/4	4,670.43	1/4	4,999.36	1/4		1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,977.89	1/2	4,334.29	1/2	4,677.44	1/2	5,006.01	1/2		1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,985.45	3/4	4,341.58	3/4	4,684.45	3/4	5,012.65	3/4		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: 05/19/2020 CL
CALCULATED: 05/20/2020 CL
PRINTED: 05/20/2020 CL
CANCELS AND SUPERCEDES
ALL PRIOR TO 05/2020

PRECISION MEASUREMENT
& ANALYSIS, INC.

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BARGE "EMS 522"

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	21.38	0	358.96	0	721.40	0	1,083.60	0	1,445.81	0	1,808.27	0	2,170.72	0	2,533.18	0	2,895.53	0	3,257.85
1/4	25.63	1/4	366.51	1/4	726.95	1/4	1,091.14	1/4	1,453.36	1/4	1,815.82	1/4	2,178.27	1/4	2,540.73	1/4	2,903.08	1/4	3,265.40
1/2	29.87	1/2	374.06	1/2	738.50	1/2	1,096.68	1/2	1,460.91	1/2	1,823.37	1/2	2,185.83	1/2	2,548.28	1/2	2,910.63	1/2	3,272.95
3/4	34.12	3/4	381.61	3/4	744.05	3/4	1,106.22	3/4	1,468.46	3/4	1,830.92	3/4	2,193.38	3/4	2,555.83	3/4	2,918.17	3/4	3,280.50
1	38.36	1	389.16	1	751.61	1	1,113.76	1	1,476.01	1	1,838.47	1	2,200.93	1	2,563.39	1	2,925.72	1	3,288.05
1/4	43.87	1/4	396.71	1/4	759.16	1/4	1,121.30	1/4	1,483.56	1/4	1,846.02	1/4	2,208.48	1/4	2,570.94	1/4	2,933.27	1/4	3,295.59
1/2	49.37	1/2	404.26	1/2	766.71	1/2	1,128.84	1/2	1,491.11	1/2	1,853.57	1/2	2,216.03	1/2	2,578.49	1/2	2,940.82	1/2	3,303.14
3/4	54.88	3/4	411.81	3/4	774.26	3/4	1,136.37	3/4	1,498.67	3/4	1,861.12	3/4	2,223.58	3/4	2,586.04	3/4	2,948.37	3/4	3,310.69
2	60.38	2	419.37	2	781.81	2	1,143.91	2	1,506.22	2	1,868.67	2	2,231.13	2	2,593.59	2	2,955.92	2	3,318.24
1/4	67.15	1/4	426.92	1/4	789.36	1/4	1,151.45	1/4	1,513.77	1/4	1,876.23	1/4	2,238.68	1/4	2,601.14	1/4	2,963.46	1/4	3,325.79
1/2	73.91	1/2	434.47	1/2	796.91	1/2	1,158.99	1/2	1,521.32	1/2	1,883.78	1/2	2,246.23	1/2	2,608.69	1/2	2,971.01	1/2	3,333.34
3/4	80.68	3/4	442.02	3/4	804.46	3/4	1,166.53	3/4	1,528.87	3/4	1,891.33	3/4	2,253.79	3/4	2,616.24	3/4	2,978.56	3/4	3,340.88
3	87.44	3	449.57	3	812.01	3	1,174.07	3	1,536.42	3	1,898.88	3	2,261.34	3	2,623.79	3	2,986.11	3	3,348.43
1/4	94.91	1/4	457.12	1/4	819.56	1/4	1,181.61	1/4	1,543.97	1/4	1,906.43	1/4	2,268.89	1/4	2,631.34	1/4	2,993.66	1/4	3,355.98
1/2	102.39	1/2	464.67	1/2	827.11	1/2	1,189.15	1/2	1,551.52	1/2	1,913.98	1/2	2,276.44	1/2	2,638.89	1/2	3,001.21	1/2	3,363.53
3/4	109.86	3/4	472.22	3/4	834.66	3/4	1,196.69	3/4	1,559.08	3/4	1,921.53	3/4	2,283.99	3/4	2,646.43	3/4	3,008.75	3/4	3,371.08
4	117.33	4	479.77	4	842.22	4	1,204.22	4	1,566.63	4	1,929.08	4	2,291.54	4	2,653.98	4	3,016.30	4	3,378.63
1/4	124.88	1/4	487.32	1/4	849.77	1/4	1,211.76	1/4	1,574.18	1/4	1,936.64	1/4	2,299.09	1/4	2,661.53	1/4	3,023.85	1/4	3,386.17
1/2	132.43	1/2	494.87	1/2	857.32	1/2	1,219.30	1/2	1,581.73	1/2	1,944.19	1/2	2,306.64	1/2	2,669.08	1/2	3,031.40	1/2	3,393.72
3/4	139.98	3/4	502.43	3/4	864.87	3/4	1,226.84	3/4	1,589.28	3/4	1,951.74	3/4	2,314.20	3/4	2,676.62	3/4	3,038.95	3/4	3,401.27
5	147.53	5	509.98	5	872.42	5	1,234.38	5	1,596.83	5	1,959.29	5	2,321.75	5	2,684.17	5	3,046.50	5	3,408.82
1/4	155.08	1/4	517.53	1/4	879.97	1/4	1,241.93	1/4	1,604.38	1/4	1,966.84	1/4	2,329.30	1/4	2,691.72	1/4	3,054.04	1/4	3,416.37
1/2	162.63	1/2	525.08	1/2	887.52	1/2	1,249.48	1/2	1,611.93	1/2	1,974.39	1/2	2,336.85	1/2	2,699.27	1/2	3,061.59	1/2	3,423.92
3/4	170.19	3/4	532.63	3/4	895.07	3/4	1,257.03	3/4	1,619.49	3/4	1,981.94	3/4	2,344.40	3/4	2,706.82	3/4	3,069.14	3/4	3,431.46
6	177.74	6	540.18	6	902.62	6	1,264.58	6	1,627.04	6	1,989.49	6	2,351.95	6	2,714.37	6	3,076.69	6	3,439.01
1/4	185.29	1/4	547.73	1/4	910.17	1/4	1,272.13	1/4	1,634.59	1/4	1,997.05	1/4	2,359.50	1/4	2,721.92	1/4	3,084.24	1/4	3,446.56
1/2	192.84	1/2	555.28	1/2	917.72	1/2	1,279.68	1/2	1,642.14	1/2	2,004.60	1/2	2,367.05	1/2	2,729.46	1/2	3,091.79	1/2	3,454.11
3/4	200.39	3/4	562.83	3/4	925.28	3/4	1,287.23	3/4	1,649.69	3/4	2,012.15	3/4	2,374.61	3/4	2,737.01	3/4	3,099.34	3/4	3,461.66
7	207.94	7	570.38	7	932.83	7	1,294.78	7	1,657.24	7	2,019.70	7	2,382.16	7	2,744.56	7	3,106.88	7	3,469.21
1/4	215.49	1/4	577.93	1/4	940.37	1/4	1,302.33	1/4	1,664.79	1/4	2,027.25	1/4	2,389.71	1/4	2,752.11	1/4	3,114.43	1/4	3,476.76
1/2	223.04	1/2	585.49	1/2	947.90	1/2	1,309.89	1/2	1,672.34	1/2	2,034.80	1/2	2,397.26	1/2	2,759.66	1/2	3,121.98	1/2	3,484.30
3/4	230.59	3/4	593.04	3/4	955.44	3/4	1,317.44	3/4	1,679.89	3/4	2,042.35	3/4	2,404.81	3/4	2,767.21	3/4	3,129.53	3/4	3,491.85
8	238.14	8	600.59	8	962.98	8	1,324.99	8	1,687.45	8	2,049.90	8	2,412.36	8	2,774.75	8	3,137.08	8	3,499.40
1/4	245.69	1/4	608.14	1/4	970.52	1/4	1,332.54	1/4	1,695.00	1/4	2,057.45	1/4	2,419.91	1/4	2,782.30	1/4	3,144.63	1/4	3,506.95
1/2	253.25	1/2	615.69	1/2	978.06	1/2	1,340.09	1/2	1,702.55	1/2	2,065.01	1/2	2,427.46	1/2	2,789.85	1/2	3,152.17	1/2	3,514.50
3/4	260.80	3/4	623.24	3/4	985.60	3/4	1,347.64	3/4	1,710.10	3/4	2,072.56	3/4	2,435.01	3/4	2,797.40	3/4	3,159.72	3/4	3,522.05
9	268.35	9	630.79	9	993.14	9	1,355.19	9	1,717.65	9	2,080.11	9	2,442.57	9	2,804.95	9	3,167.27	9	3,529.59
1/4	275.90	1/4	638.34	1/4	1,000.68	1/4	1,362.74	1/4	1,725.20	1/4	2,087.66	1/4	2,450.12	1/4	2,812.50	1/4	3,174.82	1/4	3,537.14
1/2	283.45	1/2	645.89	1/2	1,008.22	1/2	1,370.30	1/2	1,732.75	1/2	2,095.21	1/2	2,457.67	1/2	2,820.04	1/2	3,182.37	1/2	3,544.69
3/4	291.00	3/4	653.44	3/4	1,015.75	3/4	1,377.85	3/4	1,740.30	3/4	2,102.76	3/4	2,465.22	3/4	2,827.59	3/4	3,189.92	3/4	3,552.24
10	298.55	10	660.99	10	1,023.29	10	1,385.40	10	1,747.86	10	2,110.31	10	2,472.77	10	2,835.14	10	3,197.46	10	3,559.79
1/4	306.10	1/4	668.55	1/4	1,030.83	1/4	1,392.95	1/4	1,755.41	1/4	2,117.86	1/4	2,480.32	1/4	2,842.69	1/4	3,205.01	1/4	3,567.34
1/2	313.65	1/2	676.10	1/2	1,038.37	1/2	1,400.50	1/2	1,762.96	1/2	2,125.42	1/2	2,487.87	1/2	2,850.24	1/2	3,212.56	1/2	3,574.88
3/4	321.20	3/4	683.65	3/4	1,045.91	3/4	1,408.05	3/4	1,770.51	3/4	2,132.97	3/4	2,495.42	3/4	2,857.79	3/4	3,220.11	3/4	3,582.43
11	328.75	11	691.20	11	1,053.45	11	1,415.60	11	1,778.06	11	2,140.52	11	2,502.98	11	2,865.33	11	3,227.66	11	3,589.98
1/4	336.31	1/4	698.75	1/4	1,060.99	1/4	1,423.15	1/4	1,785.61	1/4	2,148.07	1/4	2,510.53	1/4	2,872.88	1/4	3,235.21	1/4	3,597.53
1/2	343.86	1/2	706.30	1/2	1,068.53	1/2	1,430.71	1/2	1,793.16	1/2	2,155.62	1/2	2,518.08	1/2	2,880.43	1/2	3,242.75	1/2	3,605.08
3/4	351.41	3/4	713.85	3/4	1,076.06	3/4	1,438.26	3/4	1,800.71	3/4	2,163.17	3/4	2,525.63	3/4	2,887.98	3/4	3,250.30	3/4	3,612.63

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPM CHAPTER 2.7.
CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN TO TOP LIP OF 2" DIAMETER "HERMETIC" VALVE.
GAUGE POINT: (HERMETIC) LOCATED 10'-08" OFF CENTERLINE AND 42'-03" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
& ANALYSIS, INC.

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



BARGE "EMS 522"

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	3,620.17	0	3,982.45	0	4,337.17	0	4,678.64	0	5,005.35	0		0		0		0		0	
1/4	3,627.72	1/4	3,989.97	1/4	4,344.42	1/4	4,685.60	1/4	5,011.94	1/4		1/4		1/4		1/4		1/4	
1/2	3,635.27	1/2	3,997.48	1/2	4,351.66	1/2	4,692.57	1/2	5,018.52	1/2		1/2		1/2		1/2		1/2	
3/4	3,642.82	3/4	4,005.00	3/4	4,358.90	3/4	4,699.53	3/4	5,025.11	3/4		3/4		3/4		3/4		3/4	
1	3,650.37	1	4,012.52	1	4,366.14	1	4,706.49	1	5,031.70	1		1		1		1		1	
1 1/4	3,657.92	1 1/4	4,020.01	1 1/4	4,373.35	1 1/4	4,713.41	1 1/4	5,038.27	1 1/4		1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	3,665.47	1 1/2	4,027.51	1 1/2	4,380.57	1 1/2	4,720.33	1 1/2	5,044.84	1 1/2		1 1/2		1 1/2		1 1/2		1 1/2	
3/4	3,673.01	3/4	4,035.00	3/4	4,387.79	3/4	4,727.24	3/4	5,051.40	3/4		3/4		3/4		3/4		3/4	
2	3,680.56	2	4,042.49	2	4,395.01	2	4,734.16	2	5,057.97	2		2		2		2		2	
1 1/4	3,688.11	1 1/4	4,049.96	1 1/4	4,402.20	1 1/4	4,741.05	1 1/4	5,064.51	1 1/4		1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	3,695.66	1 1/2	4,057.43	1 1/2	4,409.39	1 1/2	4,747.93	1 1/2	5,071.06	1 1/2		1 1/2		1 1/2		1 1/2		1 1/2	
3/4	3,703.21	3/4	4,064.90	3/4	4,416.59	3/4	4,754.82	3/4	5,077.60	3/4		3/4		3/4		3/4		3/4	
3	3,710.76	3	4,072.38	3	4,423.78	3	4,761.71	3	5,084.14	3		3		3		3		3	
1 1/4	3,718.30	1 1/4	4,079.82	1 1/4	4,430.95	1 1/4	4,768.58	1 1/4	5,090.66	1 1/4		1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	3,725.85	1 1/2	4,087.27	1 1/2	4,438.13	1 1/2	4,775.44	1 1/2	5,097.18	1 1/2		1 1/2		1 1/2		1 1/2		1 1/2	
3/4	3,733.40	3/4	4,094.72	3/4	4,445.30	3/4	4,782.31	3/4	5,103.70	3/4		3/4		3/4		3/4		3/4	
4	3,740.95	4	4,102.17	4	4,452.47	4	4,789.18	4	5,110.22	4		4		4		4		4	
1 1/4	3,748.50	1 1/4	4,109.59	1 1/4	4,459.62	1 1/4	4,796.02	1 1/4	5,116.72	1 1/4		1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	3,756.05	1 1/2	4,117.02	1 1/2	4,466.77	1 1/2	4,802.86	1 1/2	5,123.22	1 1/2		1 1/2		1 1/2		1 1/2		1 1/2	
3/4	3,763.59	3/4	4,124.44	3/4	4,473.91	3/4	4,809.70	3/4	5,129.71	3/4		3/4		3/4		3/4		3/4	
5	3,771.14	5	4,131.86	5	4,481.06	5	4,816.55	5	5,136.21	5		5		5		5		5	
1 1/4	3,778.69	1 1/4	4,139.27	1 1/4	4,488.19	1 1/4	4,823.37	1 1/4	5,143.40	1 1/4		1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	3,786.24	1 1/2	4,146.67	1 1/2	4,495.31	1 1/2	4,830.19	1 1/2	5,150.60	1 1/2		1 1/2		1 1/2		1 1/2		1 1/2	
3/4	3,793.79	3/4	4,154.07	3/4	4,502.44	3/4	4,837.01	3/4	5,157.79	3/4		3/4		3/4		3/4		3/4	
6	3,801.34	6	4,161.47	6	4,509.56	6	4,843.83	6	5,164.98	6		6		6		6		6	
1 1/4	3,808.88	1 1/4	4,168.85	1 1/4	4,516.67	1 1/4	4,850.62	1 1/4	5,171.31	1 1/4		1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	3,816.43	1 1/2	4,176.23	1 1/2	4,523.77	1 1/2	4,857.42	1 1/2	5,177.64	1 1/2		1 1/2		1 1/2		1 1/2		1 1/2	
3/4	3,823.98	3/4	4,183.61	3/4	4,530.87	3/4	4,864.22	3/4	5,183.97	3/4		3/4		3/4		3/4		3/4	
7	3,831.53	7	4,190.99	7	4,537.97	7	4,871.01	7	5,190.30	7		7		7		7		7	
1 1/4	3,839.08	1 1/4	4,198.34	1 1/4	4,545.05	1 1/4	4,877.79	1 1/4	5,195.41	1 1/4		1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	3,846.63	1 1/2	4,205.70	1 1/2	4,552.13	1 1/2	4,884.56	1 1/2	5,200.53	1 1/2		1 1/2		1 1/2		1 1/2		1 1/2	
3/4	3,854.18	3/4	4,213.05	3/4	4,559.21	3/4	4,891.34	3/4	5,205.64	3/4		3/4		3/4		3/4		3/4	
8	3,861.72	8	4,220.41	8	4,566.29	8	4,898.11	8	5,210.76	8		8		8		8		8	
1 1/4	3,869.27	1 1/4	4,227.74	1 1/4	4,573.35	1 1/4	4,904.86	1 1/4		1 1/4		1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	3,876.82	1 1/2	4,235.07	1 1/2	4,580.40	1 1/2	4,911.61	1 1/2		1 1/2		1 1/2		1 1/2		1 1/2		1 1/2	
3/4	3,884.37	3/4	4,242.40	3/4	4,587.46	3/4	4,918.36	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,891.92	9	4,249.74	9	4,594.52	9	4,925.11	9		9		9		9		9		9	
1 1/4	3,899.47	1 1/4	4,257.05	1 1/4	4,601.55	1 1/4	4,931.84	1 1/4		1 1/4		1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	3,907.01	1 1/2	4,264.36	1 1/2	4,608.58	1 1/2	4,938.57	1 1/2		1 1/2		1 1/2		1 1/2		1 1/2		1 1/2	
3/4	3,914.56	3/4	4,271.67	3/4	4,615.61	3/4	4,945.30	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,922.11	10	4,278.98	10	4,622.65	10	4,952.03	10		10		10		10		10		10	
1 1/4	3,929.66	1 1/4	4,286.26	1 1/4	4,629.66	1 1/4	4,958.74	1 1/4		1 1/4		1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	3,937.21	1 1/2	4,293.55	1 1/2	4,636.67	1 1/2	4,965.45	1 1/2		1 1/2		1 1/2		1 1/2		1 1/2		1 1/2	
3/4	3,944.76	3/4	4,300.83	3/4	4,643.68	3/4	4,972.15	3/4		3/4		3/4		3/4		3/4		3/4	
11	3,952.30	11	4,308.12	11	4,650.69	11	4,978.86	11		11		11		11		11		11	
1 1/4	3,959.84	1 1/4	4,315.38	1 1/4	4,657.68	1 1/4	4,985.48	1 1/4		1 1/4		1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	3,967.38	1 1/2	4,322.65	1 1/2	4,664.66	1 1/2	4,992.10	1 1/2		1 1/2		1 1/2		1 1/2		1 1/2		1 1/2	
3/4	3,974.91	3/4	4,329.91	3/4	4,671.65	3/4	4,998.72	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 05/19/2020 CL
CALCULATED: 05/20/2020 CL
PRINTED: 05/20/2020 CL
CANCELS AND SUPERCEDES
ALL PRIOR TO 05/2020

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



BARGE "EMS 522"

2 STBD INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08"

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	358.75	0	720.99	0	1,075.19	0	1,429.06	0	1,791.31	0	2,153.55	0	2,515.80	0	2,877.97	0	3,240.08
1/4	25.61	1/4	366.30	1/4	726.54	1/4	1,082.40	1/4	1,436.61	1/4	1,798.85	1/4	2,161.10	1/4	2,523.35	1/4	2,885.51	1/4	3,247.63
1/2	29.86	1/2	373.85	1/2	736.08	1/2	1,089.60	1/2	1,444.15	1/2	1,806.40	1/2	2,168.65	1/2	2,530.89	1/2	2,893.05	1/2	3,255.17
3/4	34.10	3/4	381.39	3/4	743.63	3/4	1,096.80	3/4	1,451.70	3/4	1,813.95	3/4	2,176.19	3/4	2,538.44	3/4	2,900.60	3/4	3,262.72
1	38.34	1	388.94	1	751.18	1	1,104.00	1	1,459.25	1	1,821.49	1	2,183.74	1	2,545.99	1	2,908.14	1	3,270.26
1/4	43.85	1/4	396.49	1/4	758.72	1/4	1,111.21	1/4	1,466.79	1/4	1,829.04	1/4	2,191.29	1/4	2,553.53	1/4	2,915.69	1/4	3,277.80
1/2	49.35	1/2	404.03	1/2	766.27	1/2	1,118.41	1/2	1,476.34	1/2	1,836.59	1/2	2,198.83	1/2	2,561.08	1/2	2,923.23	1/2	3,285.35
3/4	54.85	3/4	411.58	3/4	773.82	3/4	1,125.61	3/4	1,484.89	3/4	1,844.13	3/4	2,206.38	3/4	2,568.63	3/4	2,930.77	3/4	3,292.89
2	60.35	2	419.13	2	781.36	2	1,132.82	2	1,489.43	2	1,851.68	2	2,213.93	2	2,576.17	2	2,938.32	2	3,300.44
1/4	67.11	1/4	426.67	1/4	788.91	1/4	1,140.02	1/4	1,496.98	1/4	1,859.23	1/4	2,221.47	1/4	2,583.72	1/4	2,945.86	1/4	3,307.98
1/2	73.87	1/2	434.22	1/2	796.46	1/2	1,147.22	1/2	1,504.53	1/2	1,866.77	1/2	2,229.02	1/2	2,591.27	1/2	2,953.41	1/2	3,315.52
3/4	80.63	3/4	441.77	3/4	804.00	3/4	1,154.42	3/4	1,512.07	3/4	1,874.32	3/4	2,236.57	3/4	2,598.81	3/4	2,960.95	3/4	3,323.07
3	87.39	3	449.31	3	811.55	3	1,161.63	3	1,519.62	3	1,881.87	3	2,244.11	3	2,606.36	3	2,968.50	3	3,330.61
1/4	94.86	1/4	456.86	1/4	819.10	1/4	1,168.83	1/4	1,527.17	1/4	1,889.41	1/4	2,251.66	1/4	2,613.91	1/4	2,976.04	1/4	3,338.16
1/2	102.33	1/2	464.41	1/2	826.64	1/2	1,176.63	1/2	1,534.71	1/2	1,896.96	1/2	2,259.21	1/2	2,621.46	1/2	2,983.58	1/2	3,345.70
3/4	109.80	3/4	471.95	3/4	834.19	3/4	1,183.63	3/4	1,542.26	3/4	1,904.51	3/4	2,266.75	3/4	2,629.01	3/4	2,991.13	3/4	3,353.24
4	117.26	4	479.50	4	841.74	4	1,190.44	4	1,549.81	4	1,912.05	4	2,274.30	4	2,636.55	4	2,998.67	4	3,360.79
1/4	124.81	1/4	487.05	1/4	849.28	1/4	1,197.64	1/4	1,557.36	1/4	1,919.60	1/4	2,281.85	1/4	2,644.10	1/4	2,998.67	1/4	3,368.33
1/2	132.36	1/2	494.59	1/2	856.83	1/2	1,204.84	1/2	1,564.90	1/2	1,927.15	1/2	2,289.39	1/2	2,651.64	1/2	3,013.76	1/2	3,375.88
3/4	139.90	3/4	502.14	3/4	864.38	3/4	1,212.05	3/4	1,572.45	3/4	1,934.70	3/4	2,296.94	3/4	2,658.19	3/4	3,021.30	3/4	3,383.42
5	147.45	5	509.69	5	871.92	5	1,219.25	5	1,580.00	5	1,942.24	5	2,304.49	5	2,666.73	5	3,028.85	5	3,390.96
1/4	155.00	1/4	517.23	1/4	879.47	1/4	1,226.46	1/4	1,587.54	1/4	1,949.79	1/4	2,312.04	1/4	2,674.28	1/4	3,036.39	1/4	3,398.51
1/2	162.54	1/2	524.78	1/2	887.02	1/2	1,233.68	1/2	1,595.09	1/2	1,957.34	1/2	2,319.58	1/2	2,681.82	1/2	3,043.94	1/2	3,406.05
3/4	170.09	3/4	532.33	3/4	894.56	3/4	1,240.99	3/4	1,602.64	3/4	1,964.88	3/4	2,327.13	3/4	2,689.36	3/4	3,051.48	3/4	3,413.60
6	177.64	6	539.87	6	902.11	6	1,248.10	6	1,610.18	6	1,972.43	6	2,334.68	6	2,696.91	6	3,059.02	6	3,421.14
1/4	185.18	1/4	547.42	1/4	909.37	1/4	1,255.61	1/4	1,617.73	1/4	1,979.98	1/4	2,342.22	1/4	2,704.45	1/4	3,066.57	1/4	3,428.69
1/2	192.73	1/2	554.97	1/2	916.82	1/2	1,263.11	1/2	1,625.28	1/2	1,987.52	1/2	2,349.77	1/2	2,712.00	1/2	3,074.11	1/2	3,436.23
3/4	200.28	3/4	562.51	3/4	923.88	3/4	1,270.62	3/4	1,632.82	3/4	1,995.07	3/4	2,357.32	3/4	2,719.54	3/4	3,081.66	3/4	3,443.77
7	207.82	7	570.06	7	931.13	7	1,278.12	7	1,640.37	7	2,002.62	7	2,364.86	7	2,727.08	7	3,089.20	7	3,451.32
1/4	215.37	1/4	577.61	1/4	938.34	1/4	1,285.67	1/4	1,647.92	1/4	2,010.16	1/4	2,372.41	1/4	2,734.63	1/4	3,096.74	1/4	3,458.86
1/2	222.92	1/2	585.15	1/2	945.54	1/2	1,293.22	1/2	1,655.46	1/2	2,017.71	1/2	2,379.96	1/2	2,742.17	1/2	3,104.29	1/2	3,466.41
3/4	230.46	3/4	592.70	3/4	952.75	3/4	1,300.76	3/4	1,663.01	3/4	2,025.26	3/4	2,387.50	3/4	2,749.72	3/4	3,111.83	3/4	3,473.95
8	238.01	8	600.25	8	959.95	8	1,308.31	8	1,670.56	8	2,032.80	8	2,395.05	8	2,757.26	8	3,119.38	8	3,481.49
1/4	245.56	1/4	607.79	1/4	967.15	1/4	1,315.86	1/4	1,678.10	1/4	2,040.35	1/4	2,402.60	1/4	2,764.80	1/4	3,126.92	1/4	3,489.04
1/2	253.10	1/2	615.34	1/2	974.36	1/2	1,323.40	1/2	1,685.65	1/2	2,047.90	1/2	2,410.14	1/2	2,772.35	1/2	3,134.47	1/2	3,496.58
3/4	260.65	3/4	622.89	3/4	981.56	3/4	1,330.95	3/4	1,693.20	3/4	2,055.44	3/4	2,417.69	3/4	2,779.89	3/4	3,142.01	3/4	3,504.13
9	268.20	9	630.43	9	988.76	9	1,338.50	9	1,700.74	9	2,062.99	9	2,425.24	9	2,787.44	9	3,149.55	9	3,511.67
1/4	275.74	1/4	637.98	1/4	995.96	1/4	1,346.04	1/4	1,708.29	1/4	2,070.54	1/4	2,432.78	1/4	2,794.98	1/4	3,157.10	1/4	3,519.21
1/2	283.29	1/2	645.53	1/2	1,003.17	1/2	1,353.59	1/2	1,715.84	1/2	2,078.08	1/2	2,440.33	1/2	2,802.53	1/2	3,164.64	1/2	3,526.76
3/4	290.84	3/4	653.07	3/4	1,010.37	3/4	1,361.14	3/4	1,723.38	3/4	2,085.63	3/4	2,447.88	3/4	2,810.07	3/4	3,172.19	3/4	3,534.30
10	298.38	10	660.62	10	1,017.57	10	1,368.69	10	1,730.93	10	2,093.18	10	2,455.42	10	2,817.61	10	3,179.73	10	3,541.85
1/4	305.93	1/4	668.17	1/4	1,024.78	1/4	1,376.23	1/4	1,738.48	1/4	2,100.72	1/4	2,462.97	1/4	2,825.16	1/4	3,187.27	1/4	3,549.39
1/2	313.48	1/2	675.71	1/2	1,031.98	1/2	1,383.78	1/2	1,746.03	1/2	2,108.27	1/2	2,470.52	1/2	2,832.70	1/2	3,194.82	1/2	3,556.94
3/4	321.02	3/4	683.26	3/4	1,039.18	3/4	1,391.33	3/4	1,753.57	3/4	2,115.82	3/4	2,478.06	3/4	2,840.25	3/4	3,202.36	3/4	3,564.48
11	328.57	11	690.81	11	1,046.38	11	1,398.87	11	1,761.12	11	2,123.37	11	2,485.61	11	2,847.79	11	3,209.91	11	3,572.02
1/4	336.12	1/4	698.35	1/4	1,053.59	1/4	1,406.42	1/4	1,768.67	1/4	2,130.91	1/4	2,493.16	1/4	2,855.33	1/4	3,217.45	1/4	3,579.57
1/2	343.66	1/2	705.90	1/2	1,060.79	1/2	1,413.97	1/2	1,776.21	1/2	2,138.46	1/2	2,500.71	1/2	2,862.88	1/2	3,224.99	1/2	3,587.11
3/4	351.21	3/4	713.45	3/4	1,067.99	3/4	1,421.51	3/4	1,783.76	3/4	2,146.01	3/4	2,508.25	3/4	2,870.42	3/4	3,232.54	3/4	3,594.66

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMIS CHAPTER 2.7.

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.

CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.

CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN TO TOP LIP OF 2" 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 522"

2 STBD INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS																			GAUGE HEIGHT 15'-08"			
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	3,602.20	0	3,964.28	0	4,318.80	0	4,660.06	0	4,986.57	0												
1/4	3,609.74	1/4	3,971.79	1/4	4,326.04	1/4	4,667.02	1/4	4,993.16	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4				
1/2	3,617.29	1/2	3,979.30	1/2	4,333.27	1/2	4,673.98	1/2	4,999.75	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/4			
3/4	3,624.83	3/4	3,986.82	3/4	4,340.51	3/4	4,680.94	3/4	5,006.33	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4			
1	3,632.38	1	3,994.33	1	4,347.75	1	4,687.90	1	5,012.92	1		1	1	1	1	1	1	1	3/4			
1 1/4	3,639.92	1 1/4	4,001.82	1 1/4	4,354.96	1 1/4	4,694.81	1 1/4	5,019.48	1 1/4		1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4			
1 1/2	3,647.46	1 1/2	4,009.31	1 1/2	4,362.17	1 1/2	4,701.73	1 1/2	5,026.04	1 1/2		1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2			
3/4	3,655.01	3/4	4,016.80	3/4	4,369.38	3/4	4,708.64	3/4	5,032.60	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4			
2	3,662.55	2	4,024.29	2	4,376.60	2	4,715.55	2	5,039.16	2		2	2	2	2	2	2	2	2			
1 1/4	3,670.10	1 1/4	4,031.75	1 1/4	4,383.79	1 1/4	4,722.43	1 1/4	5,045.70	1 1/4		1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4			
1 1/2	3,677.64	1 1/2	4,039.22	1 1/2	4,390.98	1 1/2	4,729.32	1 1/2	5,052.24	1 1/2		1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2			
3/4	3,685.18	3/4	4,046.69	3/4	4,398.17	3/4	4,736.20	3/4	5,058.78	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4			
3	3,692.73	3	4,054.15	3	4,405.36	3	4,743.09	3	5,065.32	3		3	3	3	3	3	3	3	3			
1 1/4	3,700.27	1 1/4	4,061.60	1 1/4	4,412.53	1 1/4	4,749.95	1 1/4	5,071.84	1 1/4		1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4			
1 1/2	3,707.82	1 1/2	4,069.04	1 1/2	4,419.69	1 1/2	4,756.81	1 1/2	5,078.35	1 1/2		1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2			
3/4	3,715.36	3/4	4,076.48	3/4	4,426.86	3/4	4,763.67	3/4	5,084.87	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4			
4	3,722.91	4	4,083.93	4	4,434.03	4	4,770.54	4	5,091.39	4		4	4	4	4	4	4	4	4			
1 1/4	3,730.45	1 1/4	4,091.35	1 1/4	4,441.17	1 1/4	4,777.37	1 1/4	5,097.88	1 1/4		1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4			
1 1/2	3,737.99	1 1/2	4,098.77	1 1/2	4,448.32	1 1/2	4,784.21	1 1/2	5,104.37	1 1/2		1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2			
3/4	3,745.54	3/4	4,106.19	3/4	4,455.46	3/4	4,791.05	3/4	5,110.87	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4			
5	3,753.08	5	4,113.61	5	4,462.60	5	4,797.89	5	5,117.36	5		5	5	5	5	5	5	5	5			
1 1/4	3,760.63	1 1/4	4,121.00	1 1/4	4,469.73	1 1/4	4,804.71	1 1/4	5,124.55	1 1/4		1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4			
1 1/2	3,768.17	1 1/2	4,128.40	1 1/2	4,476.85	1 1/2	4,811.52	1 1/2	5,131.74	1 1/2		1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2			
3/4	3,775.71	3/4	4,135.80	3/4	4,483.97	3/4	4,818.34	3/4	5,138.93	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4			
6	3,783.26	6	4,143.20	6	4,491.09	6	4,825.15	6	5,146.12	6		6	6	6	6	6	6	6	6			
1 1/4	3,790.80	1 1/4	4,150.57	1 1/4	4,498.19	1 1/4	4,831.95	1 1/4	5,152.44	1 1/4		1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4			
1 1/2	3,798.35	1 1/2	4,157.95	1 1/2	4,505.28	1 1/2	4,838.74	1 1/2	5,158.77	1 1/2		1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2			
3/4	3,805.89	3/4	4,165.32	3/4	4,512.38	3/4	4,845.53	3/4	5,165.09	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4			
7	3,813.43	7	4,172.69	7	4,519.48	7	4,852.32	7	5,171.42	7		7	7	7	7	7	7	7	7			
1 1/4	3,820.98	1 1/4	4,180.05	1 1/4	4,526.56	1 1/4	4,859.09	1 1/4	5,176.53	1 1/4		1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4			
1 1/2	3,828.52	1 1/2	4,187.40	1 1/2	4,533.63	1 1/2	4,865.86	1 1/2	5,181.64	1 1/2		1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2			
3/4	3,836.07	3/4	4,194.75	3/4	4,540.71	3/4	4,872.63	3/4	5,186.75	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4			
8	3,843.61	8	4,202.10	8	4,547.78	8	4,879.40	8	5,191.87	8		8	8	8	8	8	8	8	8			
1 1/4	3,851.15	1 1/4	4,209.43	1 1/4	4,554.83	1 1/4	4,886.15	1 1/4	=====	1 1/4		1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4			
1 1/2	3,858.70	1 1/2	4,216.76	1 1/2	4,561.89	1 1/2	4,892.90	1 1/2		1 1/2		1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2			
3/4	3,866.24	3/4	4,224.08	3/4	4,568.94	3/4	4,899.64	3/4		3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4			
9	3,873.79	9	4,231.41	9	4,575.99	9	4,906.39	9		9		9	9	9	9	9	9	9	9			
1 1/4	3,881.33	1 1/4	4,238.72	1 1/4	4,583.02	1 1/4	4,913.12	1 1/4		1 1/4		1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4			
1 1/2	3,888.88	1 1/2	4,246.02	1 1/2	4,590.05	1 1/2	4,919.84	1 1/2		1 1/2		1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2			
3/4	3,896.42	3/4	4,253.33	3/4	4,597.08	3/4	4,926.57	3/4		3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4			
10	3,903.96	10	4,260.63	10	4,604.11	10	4,933.29	10		10		10	10	10	10	10	10	10	10			
1 1/4	3,911.51	1 1/4	4,267.92	1 1/4	4,611.11	1 1/4	4,940.00	1 1/4		1 1/4		1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4			
1 1/2	3,919.05	1 1/2	4,275.20	1 1/2	4,618.12	1 1/2	4,946.70	1 1/2		1 1/2		1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2			
3/4	3,926.60	3/4	4,282.48	3/4	4,625.12	3/4	4,953.40	3/4		3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4			
11	3,934.14	11	4,289.76	11	4,632.13	11	4,960.11	11		11		11	11	11	11	11	11	11	11			
1 1/4	3,941.67	1 1/4	4,297.02	1 1/4	4,639.11	1 1/4	4,966.72	1 1/4		1 1/4		1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4			
1 1/2	3,949.21	1 1/2	4,304.28	1 1/2	4,646.10	1 1/2	4,973.34	1 1/2		1 1/2		1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2			
3/4	3,956.74	3/4	4,311.54	3/4	4,653.08	3/4	4,979.96	3/4		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: 05/19/2020 CL
CALCULATED: 05/20/2020 CL
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Joe P. Parnell



BARGE "EMS 522"

3 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	21.27	0	357.10	0	717.65	0	1,078.01	0	1,438.42	0	1,798.99	0	2,159.54	0	2,520.03	0	2,880.33	0	3,239.74																		
1/4	25.50	1/4	364.61	1/4	725.16	1/4	1,085.52	1/4	1,445.93	1/4	1,806.50	1/4	2,167.05	1/4	2,527.54	1/4	2,887.82	1/4	3,247.20																		
1/2	29.72	1/2	372.12	1/2	732.68	1/2	1,093.02	1/2	1,453.44	1/2	1,814.01	1/2	2,174.56	1/2	2,535.05	1/2	2,895.32	1/2	3,254.67																		
3/4	33.94	3/4	379.63	3/4	740.19	3/4	1,100.52	3/4	1,460.95	3/4	1,821.53	3/4	2,182.07	3/4	2,542.56	3/4	2,902.82	3/4	3,262.13																		
1	38.17	1	387.14	1	747.70	1	1,108.02	1	1,468.47	1	1,829.04	1	2,189.58	1	2,550.07	1	2,910.31	1	3,269.59																		
1/4	43.65	1/4	394.65	1/4	755.21	1/4	1,115.53	1/4	1,475.98	1/4	1,836.55	1/4	2,197.09	1/4	2,557.58	1/4	2,917.81	1/4	3,277.05																		
1/2	49.12	1/2	402.17	1/2	762.72	1/2	1,123.03	1/2	1,483.49	1/2	1,844.06	1/2	2,204.60	1/2	2,565.09	1/2	2,925.30	1/2	3,284.51																		
3/4	54.60	3/4	409.68	3/4	770.23	3/4	1,130.53	3/4	1,491.00	3/4	1,851.57	3/4	2,212.11	3/4	2,572.60	3/4	2,932.80	3/4	3,291.97																		
2	60.08	2	417.19	2	777.75	2	1,138.03	2	1,498.51	2	1,859.09	2	2,219.62	2	2,580.11	2	2,940.30	2	3,299.44																		
1/4	66.80	1/4	424.70	1/4	785.26	1/4	1,145.54	1/4	1,506.03	1/4	1,866.60	1/4	2,227.13	1/4	2,587.62	1/4	2,947.79	1/4	3,306.90																		
1/2	73.53	1/2	432.21	1/2	792.77	1/2	1,153.04	1/2	1,513.54	1/2	1,874.11	1/2	2,234.64	1/2	2,595.13	1/2	2,955.29	1/2	3,314.36																		
3/4	80.26	3/4	439.72	3/4	800.28	3/4	1,160.54	3/4	1,521.05	3/4	1,881.62	3/4	2,242.15	3/4	2,602.64	3/4	2,962.78	3/4	3,321.82																		
3	86.99	3	447.24	3	807.79	3	1,168.04	3	1,528.56	3	1,889.13	3	2,249.66	3	2,610.15	3	2,970.28	3	3,329.28																		
1/4	94.42	1/4	454.75	1/4	815.30	1/4	1,175.55	1/4	1,536.07	1/4	1,896.65	1/4	2,257.17	1/4	2,617.66	1/4	2,977.78	1/4	3,336.76																		
1/2	101.86	1/2	462.26	1/2	822.82	1/2	1,183.05	1/2	1,543.59	1/2	1,904.16	1/2	2,264.68	1/2	2,625.17	1/2	2,985.27	1/2	3,344.23																		
3/4	109.29	3/4	469.77	3/4	830.33	3/4	1,190.55	3/4	1,551.10	3/4	1,911.67	3/4	2,272.20	3/4	2,632.68	3/4	2,992.77	3/4	3,351.71																		
4	116.72	4	477.28	4	837.84	4	1,198.05	4	1,558.61	4	1,919.18	4	2,279.71	4	2,640.19	4	3,000.26	4	3,359.19																		
1/4	124.24	1/4	484.79	1/4	845.35	1/4	1,205.56	1/4	1,566.12	1/4	1,926.69	1/4	2,287.22	1/4	2,647.70	1/4	3,007.76	1/4	3,366.66																		
1/2	131.75	1/2	492.30	1/2	852.86	1/2	1,213.07	1/2	1,573.63	1/2	1,934.20	1/2	2,294.73	1/2	2,655.21	1/2	3,015.26	1/2	3,374.14																		
3/4	139.26	3/4	499.82	3/4	860.37	3/4	1,220.58	3/4	1,581.15	3/4	1,941.72	3/4	2,302.24	3/4	2,662.71	3/4	3,022.75	3/4	3,381.62																		
5	146.77	5	507.33	5	867.88	5	1,228.09	5	1,588.66	5	1,949.23	5	2,309.75	5	2,670.22	5	3,030.25	5	3,389.09																		
1/4	154.28	1/4	514.84	1/4	875.40	1/4	1,235.60	1/4	1,596.17	1/4	1,956.74	1/4	2,317.26	1/4	2,677.73	1/4	3,037.74	1/4	3,396.57																		
1/2	161.79	1/2	522.35	1/2	882.91	1/2	1,243.11	1/2	1,603.68	1/2	1,964.25	1/2	2,324.77	1/2	2,685.24	1/2	3,045.24	1/2	3,404.05																		
3/4	169.31	3/4	529.86	3/4	890.42	3/4	1,250.62	3/4	1,611.19	3/4	1,971.76	3/4	2,332.28	3/4	2,692.75	3/4	3,052.74	3/4	3,411.53																		
6	176.82	6	537.37	6	897.93	6	1,258.13	6	1,618.70	6	1,979.28	6	2,339.79	6	2,700.26	6	3,060.23	6	3,419.00																		
1/4	184.33	1/4	544.89	1/4	905.44	1/4	1,265.65	1/4	1,626.22	1/4	1,986.78	1/4	2,347.30	1/4	2,707.77	1/4	3,067.73	1/4	3,426.48																		
1/2	191.84	1/2	552.40	1/2	912.95	1/2	1,273.16	1/2	1,633.73	1/2	1,994.30	1/2	2,354.81	1/2	2,715.28	1/2	3,075.22	1/2	3,433.96																		
3/4	199.35	3/4	559.91	3/4	920.45	3/4	1,280.67	3/4	1,641.24	3/4	2,001.81	3/4	2,362.32	3/4	2,722.78	3/4	3,082.72	3/4	3,441.44																		
7	206.86	7	567.42	7	927.96	7	1,288.18	7	1,648.75	7	2,009.32	7	2,369.83	7	2,730.29	7	3,090.22	7	3,448.91																		
1/4	214.38	1/4	574.93	1/4	935.47	1/4	1,295.69	1/4	1,656.26	1/4	2,016.84	1/4	2,377.34	1/4	2,737.80	1/4	3,097.71	1/4	3,456.39																		
1/2	221.89	1/2	582.44	1/2	942.97	1/2	1,303.21	1/2	1,663.78	1/2	2,024.35	1/2	2,384.85	1/2	2,745.31	1/2	3,105.21	1/2	3,463.87																		
3/4	229.40	3/4	589.96	3/4	950.47	3/4	1,310.72	3/4	1,671.29	3/4	2,031.86	3/4	2,392.36	3/4	2,752.82	3/4	3,112.70	3/4	3,471.34																		
8	236.91	8	597.47	8	957.97	8	1,318.23	8	1,678.80	8	2,039.37	8	2,399.87	8	2,760.33	8	3,120.20	8	3,478.82																		
1/4	244.42	1/4	604.98	1/4	965.48	1/4	1,325.74	1/4	1,686.31	1/4	2,046.88	1/4	2,407.38	1/4	2,767.84	1/4	3,127.70	1/4	3,486.30																		
1/2	251.93	1/2	612.49	1/2	972.98	1/2	1,333.25	1/2	1,693.82	1/2	2,054.40	1/2	2,414.89	1/2	2,775.35	1/2	3,135.19	1/2	3,493.78																		
3/4	259.45	3/4	620.00	3/4	980.48	3/4	1,340.76	3/4	1,701.34	3/4	2,061.91	3/4	2,422.40	3/4	2,782.86	3/4	3,142.69	3/4	3,501.25																		
9	266.96	9	627.51	9	987.98	9	1,348.28	9	1,708.85	9	2,069.42	9	2,429.91	9	2,790.37	9	3,150.18	9	3,508.73																		
1/4	274.47	1/4	635.03	1/4	995.49	1/4	1,355.79	1/4	1,716.36	1/4	2,076.93	1/4	2,437.42	1/4	2,797.87	1/4	3,157.65	1/4	3,513.20																		
1/2	281.98	1/2	642.54	1/2	1,002.99	1/2	1,363.30	1/2	1,723.87	1/2	2,084.44	1/2	2,444.93	1/2	2,805.37	1/2	3,165.12	1/2	3,517.67																		
3/4	289.49	3/4	650.05	3/4	1,010.49	3/4	1,370.81	3/4	1,731.38	3/4	2,091.95	3/4	2,452.44	3/4	2,812.86	3/4	3,172.58	3/4	3,522.15																		
10	297.00	10	657.56	10	1,017.99	10	1,378.32	10	1,738.90	10	2,099.46	10	2,459.95	10	2,820.36	10	3,180.05	10	3,526.62																		
1/4	304.51	1/4	665.07	1/4	1,025.50	1/4	1,385.84	1/4	1,746.41	1/4	2,106.97	1/4	2,467.46	1/4	2,827.86	1/4	3,187.51	1/4	3,530.66																		
1/2	312.03	1/2	672.58	1/2	1,033.00	1/2	1,393.35	1/2	1,753.92	1/2	2,114.48	1/2	2,474.97	1/2	2,835.35	1/2	3,194.97	1/2	3,534.70																		
3/4	319.54	3/4	680.09	3/4	1,040.50	3/4	1,400.86	3/4	1,761.43	3/4	2,121.99	3/4	2,482.48	3/4	2,842.85	3/4	3,202.43	3/4	3,538.74																		
11	327.05	11	687.61	11	1,048.00	11	1,408.37	11	1,768.94	11	2,129.50	11	2,489.99	11	2,850.34	11	3,209.90	11	3,542.79																		
1/4	334.56	1/4	695.12	1/4	1,055.51	1/4	1,415.88	1/4	1,776.45	1/4	2,137.01	1/4	2,497.50	1/4	2,857.84	1/4	3,217.36	1/4	3,546.83																		
1/2	342.07	1/2	702.63	1/2	1,063.01	1/2	1,423.40	1/2	1,783.97	1/2	2,144.52	1/2	2,505.01	1/2	2,865.34	1/2	3,224.82	1/2	3,550.87																		
3/4	349.58	3/4	710.14	3/4	1,070.51	3/4	1,430.91	3/4	1,791.48	3/4	2,152.03	3/4	2,512.52	3/4	2,872.83	3/4	3,232.28	3/4	3,554.91																		

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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

PRECISION MEASUREMENT

& ANALYSIS, INC.

CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN TO TOP LIP OF 2" DIAMETER "HERMETIC" VALVE.
GAUGE POINT: (HERMETIC) LOCATED 10'-06" OFF CENTERLINE AND 55'-03" FORWARD OF AFT BULKHEAD.

P.O. Box 2092
Pearland, Texas 77586
<http://www.pmacorp.net>



BARGE "EMS 522"

3 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	3,558.95	0	3,752.95	0	3,942.91	0	4,125.76	0	4,300.75	0		0		0		0		0	
1/4	3,563.00	1/4	3,756.98	1/4	3,946.78	1/4	4,129.49	1/4	4,304.28	1/4		1/4		1/4		1/4		1/4	
1/2	3,567.04	1/2	3,761.00	1/2	3,950.66	1/2	4,133.22	1/2	4,307.81	1/2		1/2		1/2		1/2		1/2	
3/4	3,571.08	3/4	3,765.03	3/4	3,954.54	3/4	4,136.95	3/4	4,311.34	3/4		3/4		3/4		3/4		3/4	
1	3,575.12	1	3,769.05	1	3,958.41	1	4,140.68	1	4,314.87	1		1		1		1		1	
1/4	3,579.16	1/4	3,773.07	1/4	3,962.28	1/4	4,144.38	1/4	4,318.38	1/4		1/4		1/4		1/4		1/4	
1/2	3,583.21	1/2	3,777.08	1/2	3,966.14	1/2	4,148.09	1/2	4,321.90	1/2		1/2		1/2		1/2		1/2	
3/4	3,587.25	3/4	3,781.09	3/4	3,970.01	3/4	4,151.79	3/4	4,325.42	3/4		3/4		3/4		3/4		3/4	
2	3,591.29	2	3,785.10	2	3,973.87	2	4,155.50	2	4,328.93	2		2		2		2		2	
1/4	3,595.33	1/4	3,789.10	1/4	3,977.73	1/4	4,159.19	1/4	4,332.44	1/4		1/4		1/4		1/4		1/4	
1/2	3,599.38	1/2	3,793.10	1/2	3,981.58	1/2	4,162.88	1/2	4,335.94	1/2		1/2		1/2		1/2		1/2	
3/4	3,603.42	3/4	3,797.11	3/4	3,985.43	3/4	4,166.57	3/4	4,339.44	3/4		3/4		3/4		3/4		3/4	
3	3,607.46	3	3,801.11	3	3,989.29	3	4,170.26	3	4,342.95	3		3		3		3		3	
1/4	3,611.50	1/4	3,805.09	1/4	3,993.13	1/4	4,173.94	1/4	4,346.44	1/4		1/4		1/4		1/4		1/4	
1/2	3,615.54	1/2	3,809.08	1/2	3,996.97	1/2	4,177.61	1/2	4,349.93	1/2		1/2		1/2		1/2		1/2	
3/4	3,619.59	3/4	3,813.07	3/4	4,000.81	3/4	4,181.29	3/4	4,353.42	3/4		3/4		3/4		3/4		3/4	
4	3,623.63	4	3,817.06	4	4,004.65	4	4,184.97	4	4,356.91	4		4		4		4		4	
1/4	3,627.67	1/4	3,821.03	1/4	4,008.47	1/4	4,188.64	1/4	4,360.39	1/4		1/4		1/4		1/4		1/4	
1/2	3,631.71	1/2	3,825.01	1/2	4,012.30	1/2	4,192.30	1/2	4,363.87	1/2		1/2		1/2		1/2		1/2	
3/4	3,635.75	3/4	3,828.99	3/4	4,016.13	3/4	4,195.97	3/4	4,367.35	3/4		3/4		3/4		3/4		3/4	
5	3,639.80	5	3,832.96	5	4,019.96	5	4,199.63	5	4,370.83	5		5		5		5		5	
1/4	3,643.84	1/4	3,836.93	1/4	4,023.77	1/4	4,203.29	1/4	4,374.62	1/4		1/4		1/4		1/4		1/4	
1/2	3,647.88	1/2	3,840.89	1/2	4,027.59	1/2	4,206.94	1/2	4,378.41	1/2		1/2		1/2		1/2		1/2	
3/4	3,651.92	3/4	3,844.85	3/4	4,031.41	3/4	4,210.59	3/4	4,382.20	3/4		3/4		3/4		3/4		3/4	
6	3,655.96	6	3,848.82	6	4,035.22	6	4,214.25	6	4,385.99	6		6		6		6		6	
1/4	3,660.01	1/4	3,852.77	1/4	4,039.02	1/4	4,217.89	1/4	4,388.86	1/4		1/4		1/4		1/4		1/4	
1/2	3,664.05	1/2	3,856.72	1/2	4,042.83	1/2	4,221.53	1/2	4,391.74	1/2		1/2		1/2		1/2		1/2	
3/4	3,668.09	3/4	3,860.67	3/4	4,046.63	3/4	4,225.17	3/4	4,394.61	3/4		3/4		3/4		3/4		3/4	
7	3,672.13	7	3,864.62	7	4,050.43	7	4,228.81	7	4,397.49	7		7		7		7		7	
1/4	3,676.18	1/4	3,868.56	1/4	4,054.23	1/4	4,232.44	1/4	4,399.14	1/4		1/4		1/4		1/4		1/4	
1/2	3,680.22	1/2	3,872.50	1/2	4,058.02	1/2	4,236.07	1/2	4,400.80	1/2		1/2		1/2		1/2		1/2	
3/4	3,684.26	3/4	3,876.44	3/4	4,061.81	3/4	4,239.69	3/4	4,402.45	3/4		3/4		3/4		3/4		3/4	
8	3,688.30	8	3,880.38	8	4,065.60	8	4,243.32	8	4,404.11	8		8		8		8		8	
1/4	3,692.34	1/4	3,884.30	1/4	4,069.38	1/4	4,246.94	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,696.39	1/2	3,888.23	1/2	4,073.16	1/2	4,250.56	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,700.43	3/4	3,892.16	3/4	4,076.93	3/4	4,254.17	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,704.47	9	3,896.08	9	4,080.71	9	4,257.79	9		9		9		9		9		9	
1/4	3,708.51	1/4	3,900.00	1/4	4,084.48	1/4	4,261.39	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,712.55	1/2	3,903.91	1/2	4,088.25	1/2	4,265.00	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,716.60	3/4	3,907.83	3/4	4,092.01	3/4	4,268.60	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,720.64	10	3,911.74	10	4,095.78	10	4,272.20	10		10		10		10		10		10	
1/4	3,724.68	1/4	3,915.64	1/4	4,099.53	1/4	4,275.80	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,728.72	1/2	3,919.54	1/2	4,103.29	1/2	4,279.39	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,732.76	3/4	3,923.45	3/4	4,107.04	3/4	4,282.98	3/4		3/4		3/4		3/4		3/4		3/4	
11	3,736.81	11	3,927.35	11	4,110.80	11	4,286.57	11		11		11		11		11		11	
1/4	3,740.84	1/4	3,931.24	1/4	4,114.54	1/4	4,290.12	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,744.88	1/2	3,935.13	1/2	4,118.28	1/2	4,293.66	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,748.92	3/4	3,939.02	3/4	4,122.02	3/4	4,297.21	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 05/19/2020 CL
CALCULATED: 05/20/2020 CL
PRINTED: 05/20/2020 CL
CANCELS AND SUPERCEDES
ALL PRIOR TO 05/2020

PRECISION MEASUREMENT
& ANALYSIS, INC.

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BARGE "EMS 522"

3 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	21.26	0	356.29	0	716.00	0	1,064.15	0	1,417.27	0	1,776.35	0	2,135.93	0	2,495.46	0	2,854.80	0	3,213.07				
1/4	25.48	1/4	363.79	1/4	723.50	1/4	1,071.30	1/4	1,424.70	1/4	1,783.84	1/4	2,143.42	1/4	2,502.95	1/4	2,862.27	1/4	3,220.51				
1/2	29.70	1/2	371.28	1/2	730.99	1/2	1,078.46	1/2	1,432.13	1/2	1,791.33	1/2	2,150.91	1/2	2,510.44	1/2	2,869.75	1/2	3,227.95				
3/4	33.92	3/4	378.77	3/4	738.49	3/4	1,085.62	3/4	1,439.56	3/4	1,798.83	3/4	2,158.40	3/4	2,517.93	3/4	2,877.22	3/4	3,235.39				
1	38.14	1	386.27	1	745.98	1	1,092.77	1	1,446.99	1	1,806.32	1	2,165.89	1	2,525.42	1	2,884.70	1	3,242.83				
1 1/4	43.60	1 1/4	393.76	1 1/4	753.47	1 1/4	1,099.93	1 1/4	1,454.42	1 1/4	1,813.81	1 1/4	2,173.38	1 1/4	2,532.91	1 1/4	2,892.17	1 1/4	3,250.27				
1 1/2	49.06	1 1/2	401.26	1 1/2	760.97	1 1/2	1,107.08	1 1/2	1,461.85	1 1/2	1,821.30	1 1/2	2,180.87	1 1/2	2,540.40	1 1/2	2,899.64	1 1/2	3,257.72				
3/4	54.53	3/4	408.75	3/4	768.46	3/4	1,114.24	3/4	1,469.28	3/4	1,828.79	3/4	2,188.37	3/4	2,547.89	3/4	2,907.11	3/4	3,265.16				
2	59.99	2	416.24	2	775.96	2	1,121.40	2	1,476.71	2	1,836.29	2	2,195.86	2	2,555.38	2	2,914.58	2	3,272.60				
1 3/4	66.69	1 3/4	423.74	1 3/4	783.45	1 3/4	1,128.55	1 3/4	1,484.19	1 3/4	1,843.78	1 3/4	2,203.35	1 3/4	2,562.87	1 3/4	2,922.04	1 3/4	3,280.04				
1 1/2	73.39	1 1/2	431.23	1 1/2	790.94	1 1/2	1,135.71	1 1/2	1,491.67	1 1/2	1,851.27	1 1/2	2,210.84	1 1/2	2,570.36	1 1/2	2,929.51	1 1/2	3,287.48				
3/4	80.10	3/4	438.73	3/4	798.44	3/4	1,142.87	3/4	1,499.16	3/4	1,858.76	3/4	2,218.33	3/4	2,577.85	3/4	2,936.98	3/4	3,294.92				
3	86.80	3	446.22	3	805.93	3	1,150.02	3	1,506.64	3	1,866.25	3	2,225.82	3	2,585.34	3	2,944.45	3	3,302.37				
1 1/4	94.22	1 1/4	453.71	1 1/4	813.18	1 1/4	1,157.43	1 1/4	1,514.13	1 1/4	1,873.75	1 1/4	2,233.31	1 1/4	2,592.83	1 1/4	2,951.92	1 1/4	3,309.82				
1 1/2	101.63	1 1/2	461.21	1 1/2	820.42	1 1/2	1,164.83	1 1/2	1,521.24	1 1/2	1,881.24	1 1/2	2,240.80	1 1/2	2,600.32	1 1/2	2,959.39	1 1/2	3,317.28				
3/4	109.05	3/4	468.70	3/4	827.67	3/4	1,172.24	3/4	1,529.12	3/4	1,886.73	3/4	2,248.29	3/4	2,607.81	3/4	2,966.85	3/4	3,324.73				
4	116.46	4	476.20	4	834.91	4	1,179.64	4	1,536.61	4	1,896.22	4	2,255.78	4	2,615.30	4	2,974.32	4	3,332.19				
1 3/4	123.96	1 3/4	483.69	1 3/4	842.10	1 3/4	1,187.05	1 3/4	1,544.10	1 3/4	1,903.71	1 3/4	2,263.27	1 3/4	2,622.79	1 3/4	2,981.79	1 3/4	3,339.64				
1 1/2	131.46	1 1/2	491.18	1 1/2	849.28	1 1/2	1,194.47	1 1/2	1,551.59	1 1/2	1,911.20	1 1/2	2,270.76	1 1/2	2,630.27	1 1/2	2,989.26	1 1/2	3,347.10				
3/4	138.96	3/4	498.68	3/4	856.47	3/4	1,201.88	3/4	1,559.09	3/4	1,918.70	3/4	2,278.25	3/4	2,637.76	3/4	2,996.73	3/4	3,354.56				
5	146.46	5	506.17	5	863.65	5	1,209.30	5	1,566.58	5	1,926.19	5	2,285.74	5	2,645.25	5	3,004.20	5	3,362.02				
1 1/4	153.95	1 1/4	513.67	1 1/4	870.83	1 1/4	1,216.71	1 1/4	1,574.07	1 1/4	1,933.68	1 1/4	2,293.23	1 1/4	2,652.74	1 1/4	3,011.66	1 1/4	3,369.47				
1 1/2	161.45	1 1/2	521.16	1 1/2	878.01	1 1/2	1,224.12	1 1/2	1,581.56	1 1/2	1,941.17	1 1/2	2,300.72	1 1/2	2,660.23	1 1/2	3,019.13	1 1/2	3,376.93				
3/4	168.94	3/4	528.65	3/4	885.20	3/4	1,231.54	3/4	1,589.05	3/4	1,948.66	3/4	2,308.21	3/4	2,667.72	3/4	3,026.60	3/4	3,384.39				
6	176.44	6	536.15	6	892.38	6	1,238.95	6	1,596.55	6	1,956.16	6	2,315.70	6	2,675.21	6	3,034.07	6	3,391.84				
1 1/4	183.93	1 1/4	543.64	1 1/4	899.54	1 1/4	1,246.38	1 1/4	1,604.04	1 1/4	1,963.65	1 1/4	2,323.19	1 1/4	2,682.69	1 1/4	3,041.54	1 1/4	3,399.30				
1 1/2	191.42	1 1/2	551.14	1 1/2	906.70	1 1/2	1,253.81	1 1/2	1,611.53	1 1/2	1,971.14	1 1/2	2,330.68	1 1/2	2,690.18	1 1/2	3,049.01	1 1/2	3,406.76				
3/4	198.92	3/4	558.63	3/4	913.86	3/4	1,261.24	3/4	1,619.02	3/4	1,978.63	3/4	2,338.17	3/4	2,697.67	3/4	3,056.47	3/4	3,414.22				
7	206.41	7	566.12	7	921.03	7	1,268.66	7	1,626.51	7	1,986.12	7	2,345.66	7	2,705.16	7	3,063.94	7	3,421.67				
1 1/4	213.91	1 1/4	573.62	1 1/4	928.18	1 1/4	1,276.09	1 1/4	1,634.00	1 1/4	1,993.62	1 1/4	2,353.15	1 1/4	2,712.65	1 1/4	3,071.42	1 1/4	3,429.13				
1 1/2	221.40	1 1/2	581.11	1 1/2	935.34	1 1/2	1,283.52	1 1/2	1,641.50	1 1/2	2,001.11	1 1/2	2,360.64	1 1/2	2,720.14	1 1/2	3,078.89	1 1/2	3,436.59				
3/4	228.89	3/4	588.61	3/4	942.49	3/4	1,290.95	3/4	1,648.99	3/4	2,008.60	3/4	2,368.13	3/4	2,727.63	3/4	3,086.37	3/4	3,444.04				
8	236.39	8	596.10	8	949.65	8	1,298.38	8	1,656.48	8	2,016.09	8	2,375.62	8	2,735.12	8	3,093.84	8	3,451.50				
1 3/4	243.88	1 3/4	603.59	1 3/4	956.81	1 3/4	1,305.81	1 3/4	1,663.97	1 3/4	2,023.58	1 3/4	2,383.11	1 3/4	2,742.61	1 3/4	3,101.32	1 3/4	3,458.96				
1 1/2	251.38	1 1/2	611.09	1 1/2	963.96	1 1/2	1,313.24	1 1/2	1,671.46	1 1/2	2,031.07	1 1/2	2,390.60	1 1/2	2,750.10	1 1/2	3,108.80	1 1/2	3,466.42				
3/4	258.87	3/4	618.58	3/4	971.12	3/4	1,320.67	3/4	1,678.96	3/4	2,038.56	3/4	2,398.09	3/4	2,757.59	3/4	3,116.27	3/4	3,473.87				
9	266.36	9	626.08	9	978.28	9	1,328.10	9	1,686.45	9	2,046.05	9	2,405.58	9	2,765.08	9	3,123.75	9	3,481.33				
1 1/4	273.86	1 1/4	633.57	1 1/4	985.43	1 1/4	1,335.53	1 1/4	1,693.94	1 1/4	2,053.54	1 1/4	2,413.07	1 1/4	2,772.55	1 1/4	3,131.19	1 1/4	3,488.78				
1 1/2	281.35	1 1/2	641.06	1 1/2	992.59	1 1/2	1,342.96	1 1/2	1,701.43	1 1/2	2,061.03	1 1/2	2,420.56	1 1/2	2,780.03	1 1/2	3,138.64	1 1/2	3,496.24				
3/4	288.85	3/4	648.56	3/4	999.74	3/4	1,350.39	3/4	1,708.92	3/4	2,068.52	3/4	2,428.05	3/4	2,787.51	3/4	3,146.09	3/4	3,494.69				
10	296.34	10	656.05	10	1,006.90	10	1,357.82	10	1,716.42	10	2,076.01	10	2,435.54	10	2,794.99	10	3,153.53	10	3,499.14				
1 1/4	303.83	1 1/4	663.55	1 1/4	1,014.06	1 1/4	1,365.25	1 1/4	1,723.91	1 1/4	2,083.50	1 1/4	2,443.03	1 1/4	2,802.46	1 1/4	3,160.97	1 1/4	3,503.16				
1 1/2	311.33	1 1/2	671.04	1 1/2	1,021.21	1 1/2	1,372.68	1 1/2	1,731.40	1 1/2	2,090.99	1 1/2	2,450.52	1 1/2	2,809.94	1 1/2	3,168.42	1 1/2	3,507.19				
3/4	318.82	3/4	678.53	3/4	1,028.37	3/4	1,380.12	3/4	1,738.89	3/4	2,098.48	3/4	2,458.01	3/4	2,817.42	3/4	3,175.86	3/4	3,511.21				
11	326.32	11	686.03	11	1,035.52	11	1,387.55	11	1,746.38	11	2,105.97	11	2,465.50	11	2,824.89	11	3,183.30	11	3,515.23				
1 1/4	333.81	1 1/4	693.52	1 1/4	1,042.68	1 1/4	1,394.98	1 1/4	1,753.88	1 1/4	2,113.46	1 1/4	2,472.99	1 1/4	2,832.37	1 1/4	3,190.74	1 1/4	3,519.26				
1 1/2	341.30	1 1/2	701.02	1 1/2	1,049.84	1 1/2	1,402.41	1 1/2	1,761.37	1 1/2	2,120.95	1 1/2	2,480.48	1 1/2	2,839.84	1 1/2	3,198.18	1 1/2	3,523.28				
3/4	348.80	3/4	708.51	3/4	1,056.99	3/4	1,409.84	3/4	1,768.86	3/4	2,128.44	3/4	2,487.97	3/4	2,847.32	3/4	3,205.62	3/4	3,527.30				

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH IPIPS 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 UP OF 2" DIAMETER "HERMETIC" VALVE.
GAUGE POINT: (HERMETIC) LOCATED



BARGE "EMS 522"

3 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	3,531.33	0	3,724.42	0	3,913.46	0	4,095.41	0	4,269.50	0		0		0		0		0	
1/4	3,535.35	1/4	3,728.42	1/4	3,917.32	1/4	4,099.12	1/4	4,273.01	1/4		1/4		1/4		1/4		1/4	
1/2	3,539.37	1/2	3,732.43	1/2	3,921.18	1/2	4,102.83	1/2	4,276.52	1/2		1/2		1/2		1/2		1/2	
3/4	3,543.40	3/4	3,736.43	3/4	3,925.04	3/4	4,106.54	3/4	4,280.03	3/4		3/4		3/4		3/4		3/4	
1	3,547.42	1	3,740.44	1	3,928.89	1	4,110.25	1	4,283.54	1		1		1		1		1	
1/4	3,551.44	1/4	3,744.43	1/4	3,932.74	1/4	4,113.94	1/4	4,287.03	1/4		1/4		1/4		1/4		1/4	
1/2	3,555.47	1/2	3,748.43	1/2	3,936.59	1/2	4,117.62	1/2	4,290.53	1/2		1/2		1/2		1/2		1/2	
3/4	3,559.49	3/4	3,752.42	3/4	3,940.43	3/4	4,121.31	3/4	4,294.03	3/4		3/4		3/4		3/4		3/4	
2	3,563.51	2	3,756.42	2	3,944.28	2	4,125.00	2	4,297.53	2		2		2		2		2	
1/4	3,567.53	1/4	3,760.40	1/4	3,948.11	1/4	4,128.67	1/4	4,301.01	1/4		1/4		1/4		1/4		1/4	
1/2	3,571.56	1/2	3,764.38	1/2	3,951.95	1/2	4,132.34	1/2	4,304.50	1/2		1/2		1/2		1/2		1/2	
3/4	3,575.58	3/4	3,768.36	3/4	3,955.78	3/4	4,136.01	3/4	4,307.98	3/4		3/4		3/4		3/4		3/4	
3	3,579.60	3	3,772.34	3	3,959.61	3	4,139.68	3	4,311.47	3		3		3		3		3	
1/4	3,583.63	1/4	3,776.31	1/4	3,963.43	1/4	4,143.34	1/4	4,314.94	1/4		1/4		1/4		1/4		1/4	
1/2	3,587.65	1/2	3,780.28	1/2	3,967.26	1/2	4,147.00	1/2	4,318.41	1/2		1/2		1/2		1/2		1/2	
3/4	3,591.67	3/4	3,784.25	3/4	3,971.08	3/4	4,150.66	3/4	4,321.89	3/4		3/4		3/4		3/4		3/4	
4	3,595.70	4	3,788.22	4	3,974.90	4	4,154.32	4	4,325.36	4		4		4		4		4	
1/4	3,599.72	1/4	3,792.18	1/4	3,978.71	1/4	4,157.96	1/4	4,328.82	1/4		1/4		1/4		1/4		1/4	
1/2	3,603.74	1/2	3,796.13	1/2	3,982.52	1/2	4,161.61	1/2	4,332.28	1/2		1/2		1/2		1/2		1/2	
3/4	3,607.77	3/4	3,800.09	3/4	3,986.33	3/4	4,165.26	3/4	4,335.74	3/4		3/4		3/4		3/4		3/4	
5	3,611.79	5	3,804.05	5	3,990.14	5	4,168.90	5	4,339.20	5		5		5		5		5	
1/4	3,615.81	1/4	3,807.99	1/4	3,993.93	1/4	4,172.54	1/4	4,342.97	1/4		1/4		1/4		1/4		1/4	
1/2	3,619.83	1/2	3,811.94	1/2	3,997.73	1/2	4,176.17	1/2	4,346.74	1/2		1/2		1/2		1/2		1/2	
3/4	3,623.86	3/4	3,815.88	3/4	4,001.53	3/4	4,179.81	3/4	4,350.51	3/4		3/4		3/4		3/4		3/4	
6	3,627.88	6	3,819.82	6	4,005.32	6	4,183.44	6	4,354.29	6		6		6		6		6	
1/4	3,631.90	1/4	3,823.76	1/4	4,009.11	1/4	4,187.06	1/4	4,357.14	1/4		1/4		1/4		1/4		1/4	
1/2	3,635.93	1/2	3,827.69	1/2	4,012.89	1/2	4,190.69	1/2	4,360.00	1/2		1/2		1/2		1/2		1/2	
3/4	3,639.95	3/4	3,831.62	3/4	4,016.68	3/4	4,194.31	3/4	4,362.86	3/4		3/4		3/4		3/4		3/4	
7	3,643.97	7	3,835.55	7	4,020.46	7	4,197.93	7	4,365.71	7		7		7		7		7	
1/4	3,648.00	1/4	3,839.47	1/4	4,024.23	1/4	4,201.54	1/4	4,367.35	1/4		1/4		1/4		1/4		1/4	
1/2	3,652.02	1/2	3,843.39	1/2	4,028.00	1/2	4,205.15	1/2	4,368.99	1/2		1/2		1/2		1/2		1/2	
3/4	3,656.04	3/4	3,847.31	3/4	4,031.78	3/4	4,208.76	3/4	4,370.63	3/4		3/4		3/4		3/4		3/4	
8	3,660.07	8	3,851.23	8	4,035.55	8	4,212.37	8	4,372.26	8		8		8		8		8	
1/4	3,664.09	1/4	3,855.14	1/4	4,039.31	1/4	4,215.97	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,668.11	1/2	3,859.05	1/2	4,043.07	1/2	4,219.56	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,672.14	3/4	3,862.96	3/4	4,046.83	3/4	4,223.16	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,676.16	9	3,866.86	9	4,050.59	9	4,226.76	9		9		9		9		9		9	
1/4	3,680.18	1/4	3,870.76	1/4	4,054.34	1/4	4,230.34	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,684.20	1/2	3,874.65	1/2	4,058.08	1/2	4,233.93	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,688.23	3/4	3,878.55	3/4	4,061.83	3/4	4,237.51	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,692.25	10	3,882.45	10	4,065.58	10	4,241.10	10		10		10		10		10		10	
1/4	3,696.27	1/4	3,886.33	1/4	4,069.31	1/4	4,244.67	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,700.30	1/2	3,890.21	1/2	4,073.05	1/2	4,248.25	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,704.32	3/4	3,894.09	3/4	4,076.78	3/4	4,251.82	3/4		3/4		3/4		3/4		3/4		3/4	
11	3,708.34	11	3,897.98	11	4,080.52	11	4,255.39	11		11		11		11		11		11	
1/4	3,712.36	1/4	3,901.85	1/4	4,084.24	1/4	4,258.92	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,716.38	1/2	3,905.72	1/2	4,087.97	1/2	4,262.44	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,720.40	3/4	3,909.59	3/4	4,091.69	3/4	4,265.97	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 05/19/2020 CL
CALCULATED: 05/20/2020 CL
PRINTED: 05/20/2020 CL
CANCELS AND SUPERCEDES
ALL PRIOR TO 05/20/2020

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



BARGE "EMS 522"

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

(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: 253'-00"

May 19, 2020

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

<http://www.pmacorp.net>



CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08 3/4"

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL

CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.

CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP LIP OF 2" DIAMETER "HERMETIC" VALVE

Gauge Point: (HERMETIC) LOCATED 10'-06" OFF CENTERLINE AND 42'-03" FORWARD OF AFT BULKHEAD.

SHEET NO. 1 OF 12

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

For Pearson



BARGE "EMS 522"

1 PORT 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	2,073.69	0	1,711.03	0	1,348.38	0	986.14	0	623.58	0	260.94	0		0							
1/4	2,066.13	1/4	1,703.48	1/4	1,340.82	1/4	978.59	1/4	616.03	1/4	253.39	1/4		1/4			1/4				
1/2	2,058.58	1/2	1,695.92	1/2	1,333.27	1/2	971.05	1/2	608.47	1/2	245.83	1/2		1/2			1/2				
3/4	2,051.02	3/4	1,688.37	3/4	1,325.71	3/4	963.51	3/4	600.92	3/4	238.28	3/4		3/4			3/4				
1	2,043.47	1	1,680.81	1	1,318.16	1	955.97	1	593.36	1	230.72	1		1			1				
1/4	2,035.91	1/4	1,673.26	1/4	1,310.60	1/4	948.42	1/4	585.81	1/4	223.17	1/4		1/4			1/4				
1/2	2,028.36	1/2	1,665.70	1/2	1,303.05	1/2	940.88	1/2	578.25	1/2	215.61	1/2		1/2			1/2				
3/4	2,020.80	3/4	1,658.15	3/4	1,295.49	3/4	933.34	3/4	570.70	3/4	208.06	3/4		3/4			3/4				
2	2,013.25	2	1,650.59	2	1,287.94	2	925.78	2	563.14	2	200.50	2		2			2				
1/4	2,005.69	1/4	1,643.04	1/4	1,280.38	1/4	918.23	1/4	555.59	1/4	192.95	1/4		1/4			1/4				
1/2	1,998.13	1/2	1,635.48	1/2	1,272.83	1/2	910.67	1/2	548.03	1/2	185.39	1/2		1/2			1/2				
3/4	1,990.58	3/4	1,627.92	3/4	1,265.27	3/4	903.12	3/4	540.48	3/4	177.84	3/4		3/4			3/4				
3	1,983.02	3	1,620.37	3	1,257.72	3	895.56	3	532.92	3	170.28	3		3			3				
1/4	1,975.47	1/4	1,612.81	1/4	1,250.16	1/4	888.01	1/4	525.37	1/4	162.73	1/4		1/4			1/4				
1/2	1,967.91	1/2	1,605.26	1/2	1,242.61	1/2	880.45	1/2	517.81	1/2	155.17	1/2		1/2			1/2				
3/4	1,960.36	3/4	1,597.70	3/4	1,235.06	3/4	872.90	3/4	510.26	3/4	147.62	3/4		3/4			3/4				
4	1,952.80	4	1,590.15	4	1,227.51	4	865.34	4	502.70	4	140.06	4		4			4				
1/4	1,945.25	1/4	1,582.59	1/4	1,219.97	1/4	857.79	1/4	495.15	1/4	132.51	1/4		1/4			1/4				
1/2	1,937.69	1/2	1,575.04	1/2	1,212.43	1/2	850.23	1/2	487.59	1/2	124.95	1/2		1/2			1/2				
3/4	1,930.14	3/4	1,567.48	3/4	1,204.88	3/4	842.68	3/4	480.04	3/4	117.40	3/4		3/4			3/4				
5	1,922.58	5	1,559.93	5	1,197.34	5	835.12	5	472.48	5	109.92	5		5			5				
1/4	1,915.03	1/4	1,552.37	1/4	1,189.80	1/4	827.57	1/4	464.93	1/4	102.44	1/4		1/4			1/4				
1/2	1,907.47	1/2	1,544.82	1/2	1,182.26	1/2	820.01	1/2	457.37	1/2	94.97	1/2		1/2			1/2				
3/4	1,899.92	3/4	1,537.26	3/4	1,174.71	3/4	812.46	3/4	449.82	3/4	87.49	3/4		3/4			3/4				
6	1,892.36	6	1,529.71	6	1,167.17	6	804.90	6	442.26	6	80.72	6		6			6				
1/4	1,884.81	1/4	1,522.15	1/4	1,159.63	1/4	797.35	1/4	434.71	1/4	73.96	1/4		1/4			1/4				
1/2	1,877.25	1/2	1,514.60	1/2	1,152.08	1/2	789.79	1/2	427.15	1/2	67.19	1/2		1/2			1/2				
3/4	1,869.69	3/4	1,507.04	3/4	1,144.54	3/4	782.24	3/4	419.60	3/4	60.42	3/4		3/4			3/4				
7	1,862.14	7	1,499.48	7	1,137.00	7	774.68	7	412.04	7	54.91	7		7			7				
1/4	1,854.58	1/4	1,491.93	1/4	1,129.45	1/4	767.13	1/4	404.49	1/4	49.40	1/4		1/4			1/4				
1/2	1,847.03	1/2	1,484.37	1/2	1,121.91	1/2	759.57	1/2	396.93	1/2	43.90	1/2		1/2			1/2				
3/4	1,839.47	3/4	1,476.82	3/4	1,114.37	3/4	752.02	3/4	389.38	3/4	38.39	3/4		3/4			3/4				
8	1,831.92	8	1,469.26	8	1,106.83	8	744.46	8	381.82	8	34.14	8		8			8				
1/4	1,824.36	1/4	1,461.71	1/4	1,099.28	1/4	736.91	1/4	374.27	1/4	29.89	1/4		1/4			1/4				
1/2	1,816.81	1/2	1,454.15	1/2	1,091.74	1/2	729.35	1/2	366.71	1/2	25.64	1/2		1/2			1/2				
3/4	1,809.25	3/4	1,446.60	3/4	1,084.20	3/4	721.80	3/4	359.16	3/4	21.39	3/4		3/4			3/4				
9	1,801.70	9	1,439.04	9	1,076.65	9	714.24	9	351.60	9		9		9			9				
1/4	1,794.14	1/4	1,431.49	1/4	1,069.11	1/4	706.69	1/4	344.05	1/4		1/4		1/4			1/4				
1/2	1,786.59	1/2	1,423.93	1/2	1,061.57	1/2	699.13	1/2	336.49	1/2		1/2		1/2			1/2				
3/4	1,779.03	3/4	1,416.38	3/4	1,054.02	3/4	691.58	3/4	328.94	3/4		3/4		3/4			3/4				
10	1,771.48	10	1,408.82	10	1,046.48	10	684.02	10	321.38	10		10		10			10				
1/4	1,763.92	1/4	1,401.27	1/4	1,038.94	1/4	676.47	1/4	313.83	1/4		1/4		1/4			1/4				
1/2	1,756.36	1/2	1,393.71	1/2	1,031.40	1/2	668.91	1/2	306.27	1/2		1/2		1/2			1/2				
3/4	1,748.81	3/4	1,386.16	3/4	1,023.85	3/4	661.36	3/4	298.72	3/4		3/4		3/4			3/4				
11	1,741.25	11	1,378.60	11	1,016.31	11	653.80	11	291.16	11		11		11			11				
1/4	1,733.70	1/4	1,371.04	1/4	1,008.77	1/4	646.25	1/4	283.61	1/4		1/4		1/4			1/4				
1/2	1,726.14	1/2	1,363.49	1/2	1,001.22	1/2	638.69	1/2	276.05	1/2		1/2		1/2			1/2				
3/4	1,718.59	3/4	1,355.93	3/4	993.68	3/4	631.14	3/4	268.50	3/4		3/4		3/4			3/4				

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 05/19/2020 CL
CALCULATED: 05/20/2020 CL
PRINTED: 05/20/2020 CL
CANCELS AND SUPERCEDES
ALL PRIOR TO 05/2020

PRECISION MEASUREMENT
& ANALYSIS, INC.

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



BARGE "EMS 522"

1 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08 1/2"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	0	0	4,925.23	0	4,592.89	0	4,246.43	0	3,887.04	0	3,523.59	0	3,160.13	0	2,796.68	0	2,433.14	0	2,069.69
1/4	1/4	1/4	4,918.45	1/4	4,585.81	1/4	4,239.08	1/4	3,879.47	1/4	3,516.02	1/4	3,152.56	1/4	2,789.10	1/4	2,425.56	1/4	2,062.07
1/2	1/2	1/2	4,911.68	1/2	4,578.73	1/2	4,231.72	1/2	3,871.90	1/2	3,508.44	1/2	3,144.99	1/2	2,781.53	1/2	2,417.99	1/2	2,054.50
3/4	3/4	3/4	4,904.88	3/4	4,571.63	3/4	4,224.34	3/4	3,864.33	3/4	3,500.87	3/4	3,137.42	3/4	2,773.96	3/4	2,410.41	3/4	2,047.92
1	1	1	4,898.08	1	4,564.53	1	4,216.96	1	3,856.16	1	3,493.30	1	3,129.84	1	2,766.39	1	2,402.84	1	2,039.35
1 1/4	1 1/4	1 1/4	4,891.29	1 1/4	4,557.42	1 1/4	4,209.58	1 1/4	3,849.18	1 1/4	3,485.73	1 1/4	3,122.27	1 1/4	2,758.82	1 1/4	2,395.26	1 1/4	2,031.76
1 1/2	1 1/2	1 1/2	4,884.49	1 1/2	4,550.32	1 1/2	4,202.20	1 1/2	3,841.61	1 1/2	3,478.16	1 1/2	3,114.70	1 1/2	2,751.24	1 1/2	2,387.69	1 1/2	2,024.20
3 1/4	3 1/4	3 1/4	4,877.67	3 1/4	4,543.20	3 1/4	4,194.80	3 1/4	3,834.04	3 1/4	3,470.58	3 1/4	3,107.13	3 1/4	2,743.67	3 1/4	2,380.11	3 1/4	2,017.62
2	2	2	4,870.85	2	4,536.07	2	4,187.40	2	3,826.47	2	3,463.01	2	3,099.56	2	2,736.10	2	2,372.54	2	2,009.07
1 1/4	1 1/4	1 1/4	4,864.03	1 1/4	4,528.94	1 1/4	4,180.00	1 1/4	3,818.90	1 1/4	3,455.44	1 1/4	3,091.98	1 1/4	2,728.53	1 1/4	2,364.96	1 1/4	2,001.52
1 1/2	1 1/2	1 1/2	4,857.21	1 1/2	4,521.82	1 1/2	4,172.59	1 1/2	3,811.32	1 1/2	3,447.87	1 1/2	3,084.41	1 1/2	2,720.96	1 1/2	2,357.39	1 1/2	1,998.98
3 1/4	3 1/4	3 1/4	4,850.36	3 1/4	4,514.67	3 1/4	4,165.17	3 1/4	3,803.75	3 1/4	3,440.30	3 1/4	3,076.84	3 1/4	2,713.38	3 1/4	2,349.81	3 1/4	1,991.49
3	3	3	4,843.52	3	4,507.52	3	4,157.74	3	3,796.18	3	3,432.72	3	3,069.27	3	2,705.81	3	2,342.24	3	1,984.00
1 1/4	1 1/4	1 1/4	4,836.68	1 1/4	4,500.37	1 1/4	4,150.32	1 1/4	3,788.61	1 1/4	3,425.15	1 1/4	3,061.70	1 1/4	2,698.24	1 1/4	2,334.66	1 1/4	1,976.56
1 1/2	1 1/2	1 1/2	4,829.83	1 1/2	4,493.22	1 1/2	4,142.89	1 1/2	3,781.04	1 1/2	3,417.58	1 1/2	3,054.12	1 1/2	2,690.67	1 1/2	2,327.09	1 1/2	1,969.02
3 1/4	3 1/4	3 1/4	4,822.97	3 1/4	4,486.05	3 1/4	4,135.45	3 1/4	3,773.46	3 1/4	3,410.01	3 1/4	3,046.55	3 1/4	2,683.10	3 1/4	2,319.51	3 1/4	1,961.53
4	4	4	4,816.10	4	4,478.88	4	4,128.00	4	3,765.89	4	3,402.44	4	3,038.98	4	2,675.52	4	2,311.94	4	1,954.05
1 1/4	1 1/4	1 1/4	4,809.24	1 1/4	4,471.71	1 1/4	4,120.55	1 1/4	3,758.32	1 1/4	3,394.86	1 1/4	3,031.41	1 1/4	2,667.95	1 1/4	2,304.37	1 1/4	1,946.57
1 1/2	1 1/2	1 1/2	4,802.37	1 1/2	4,464.54	1 1/2	4,113.10	1 1/2	3,750.75	1 1/2	3,387.29	1 1/2	3,023.84	1 1/2	2,660.38	1 1/2	2,296.79	1 1/2	1,939.08
3 1/4	3 1/4	3 1/4	4,795.58	3 1/4	4,457.34	3 1/4	4,105.63	3 1/4	3,743.18	3 1/4	3,379.72	3 1/4	3,016.26	3 1/4	2,652.80	3 1/4	2,289.22	3 1/4	1,931.60
5	5	5	4,788.59	5	4,450.15	5	4,098.16	5	3,735.60	5	3,372.15	5	3,008.69	5	2,645.23	5	2,281.64	5	1,924.11
1 1/4	1 1/4	1 1/4	4,781.70	1 1/4	4,442.95	1 1/4	4,090.69	1 1/4	3,728.03	1 1/4	3,364.58	1 1/4	3,001.12	1 1/4	2,637.65	1 1/4	2,274.07	1 1/4	1,916.62
1 1/2	1 1/2	1 1/2	4,774.81	1 1/2	4,435.76	1 1/2	4,083.22	1 1/2	3,720.46	1 1/2	3,357.00	1 1/2	2,993.55	1 1/2	2,630.08	1 1/2	2,266.49	1 1/2	1,909.00
3 1/4	3 1/4	3 1/4	4,767.90	3 1/4	4,428.54	3 1/4	4,075.72	3 1/4	3,712.89	3 1/4	3,349.43	3 1/4	2,985.98	3 1/4	2,622.50	3 1/4	2,258.92	3 1/4	1,901.52
6	6	6	4,760.99	6	4,421.32	6	4,068.23	6	3,705.32	6	3,341.86	6	2,978.40	6	2,614.93	6	2,251.34	6	1,893.85
1 1/4	1 1/4	1 1/4	4,754.07	1 1/4	4,414.10	1 1/4	4,060.73	1 1/4	3,697.74	1 1/4	3,334.29	1 1/4	2,970.83	1 1/4	2,607.35	1 1/4	2,243.37	1 1/4	1,886.38
1 1/2	1 1/2	1 1/2	4,747.16	1 1/2	4,406.88	1 1/2	4,053.24	1 1/2	3,690.17	1 1/2	3,326.72	1 1/2	2,963.26	1 1/2	2,599.78	1 1/2	2,236.19	1 1/2	1,878.70
3 1/4	3 1/4	3 1/4	4,740.22	3 1/4	4,399.64	3 1/4	4,045.72	3 1/4	3,682.60	3 1/4	3,319.14	3 1/4	2,956.69	3 1/4	2,593.20	3 1/4	2,229.62	3 1/4	1,871.22
7	7	7	4,733.28	7	4,392.40	7	4,038.20	7	3,675.03	7	3,311.57	7	2,948.12	7	2,584.63	7	2,221.04	7	1,863.74
1 1/4	1 1/4	1 1/4	4,726.35	1 1/4	4,385.16	1 1/4	4,030.69	1 1/4	3,667.46	1 1/4	3,304.00	1 1/4	2,940.54	1 1/4	2,577.05	1 1/4	2,213.47	1 1/4	1,855.85
1 1/2	1 1/2	1 1/2	4,719.41	1 1/2	4,377.92	1 1/2	4,023.17	1 1/2	3,659.88	1 1/2	3,296.43	1 1/2	2,932.97	1 1/2	2,569.48	1 1/2	2,205.89	1 1/2	1,847.90
3 1/4	3 1/4	3 1/4	4,712.42	3 1/4	4,370.66	3 1/4	4,015.63	3 1/4	3,652.31	3 1/4	3,288.86	3 1/4	2,925.40	3 1/4	2,561.91	3 1/4	2,198.32	3 1/4	1,840.42
8	8	8	4,705.43	8	4,363.39	8	4,008.09	8	3,644.74	8	3,281.28	8	2,917.83	8	2,554.33	8	2,190.74	8	1,832.94
1 1/4	1 1/4	1 1/4	4,698.44	1 1/4	4,356.13	1 1/4	4,000.55	1 1/4	3,637.17	1 1/4	3,273.71	1 1/4	2,910.26	1 1/4	2,546.76	1 1/4	2,183.17	1 1/4	1,825.05
1 1/2	1 1/2	1 1/2	4,691.46	1 1/2	4,348.86	1 1/2	3,993.01	1 1/2	3,629.62	1 1/2	3,266.14	1 1/2	2,902.68	1 1/2	2,539.18	1 1/2	2,175.60	1 1/2	1,817.56
3 1/4	3 1/4	3 1/4	4,684.44	3 1/4	4,341.58	3 1/4	3,985.45	3 1/4	3,622.02	3 1/4	3,258.57	3 1/4	2,895.11	3 1/4	2,531.61	3 1/4	2,168.02	3 1/4	1,810.07
9	9	9	4,677.43	9	4,334.29	9	3,977.89	9	3,614.45	9	3,251.00	9	2,887.54	9	2,524.03	9	2,160.45	9	1,802.58
1 1/4	1 1/4	1 1/4	4,670.42	1 1/4	4,327.00	1 1/4	3,970.32	1 1/4	3,606.88	1 1/4	3,243.42	1 1/4	2,879.97	1 1/4	2,516.46	1 1/4	2,152.87	1 1/4	1,794.69
1 1/2	1 1/2	1 1/2	4,663.41	1 1/2	4,319.72	1 1/2	3,962.76	1 1/2	3,599.31	1 1/2	3,235.85	1 1/2	2,872.40	1 1/2	2,508.88	1 1/2	2,145.30	1 1/2	1,787.20
3 1/4	3 1/4	3 1/4	4,656.38	3 1/4	4,312.41	3 1/4	3,955.19	3 1/4	3,591.74	3 1/4	3,228.28	3 1/4	2,864.82	3 1/4	2,501.31	3 1/4	2,137.72	3 1/4	1,779.71
10	10	10	4,649.35	10	4,305.10	10	3,947.62	10	3,584.16	10	3,220.71	10	2,857.25	10	2,493.73	10	2,130.15	10	1,771.70
1 1/4	1 1/4	1 1/4	4,642.31	1 1/4	4,297.19	1 1/4	3,940.05	1 1/4	3,576.59	1 1/4	3,213.14	1 1/4	2,849.68	1 1/4	2,486.16	1 1/4	2,122.57	1 1/4	1,764.21
1 1/2	1 1/2	1 1/2	4,635.28	1 1/2	4,289.48	1 1/2	3,932.14	1 1/2	3,569.02	1 1/2	3,205.56	1 1/2	2,842.11	1 1/2	2,478.58	1 1/2	2,115.00	1 1/2	1,756.72
3 1/4	3 1/4	3 1/4	4,628.22	3 1/4	4,283.14	3 1/4	3,924.90	3 1/4	3,561.45	3 1/4	3,197.99	3 1/4	2,834.54	3 1/4	2,471.01	3 1/4	2,107.42	3 1/4	1,748.73
11	11	11	4,621.16	11	4,275.81	11	3,917.33	11	3,553.88	11	3,190.42	11	2,826.96	11	2,463.43	11	2,099.85	11	1,740.24
1 1/4	1 1/4	1 1/4	4,614.11	1 1/4	4,268.48	1 1/4	3,909.76	1 1/4	3,546.30	1 1/4	3,182.85	1 1/4	2,819.39	1 1/4	2,455.86	1 1/4	2,092.27	1 1/4	1,732.75
1 1/2	1 1/2	1 1/2	4,607.05	1 1/2	4,261.14	1 1/2	3,902.19	1 1/2	3,538.73	1 1/2	3,175.28	1 1/2	2,811.82	1 1/2	2,448.28	1 1/2	2,084.70	1 1/2	1,724.26
3 1/4	3 1/4	3 1/4	4,599.97	3 1/4	4,253.79	3 1/4	3,894.62	3 1/4	3,531.16	3 1/4	3,167.70	3 1/4	2,804.25	3 1/4	2,440.71	3 1/4	2,077.12	3 1/4	1,716.77

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH NIPMS CHAPTER 2.7.
CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP LIP OF 2" DIAMETER "HERMETIC" VALVE.
GAUGE POINT: (HERMETIC) LOCATED 10'-06" OFF CENTERLINE AND 42'-03" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
& ANALYSIS, INC.

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



BARGE "EMS 522"

1 STBD

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	2,069.55	0	1,705.96	0	1,342.38	0	980.74	0	617.60	0	254.03	0		0		0		0	
1/4	2,061.98	1/4	1,698.39	1/4	1,334.80	1/4	973.22	1/4	610.03	1/4	246.46	1/4		1/4		1/4		1/4	
1/2	2,054.40	1/2	1,690.81	1/2	1,327.23	1/2	965.69	1/2	602.45	1/2	238.88	1/2		1/2		1/2		1/2	
3/4	2,046.83	3/4	1,683.24	3/4	1,319.65	3/4	958.17	3/4	594.88	3/4	231.31	3/4		3/4		3/4		3/4	
1	2,039.25	1	1,675.67	1	1,312.08	1	950.64	1	587.30	1	223.73	1		1		1		1	
1/4	2,031.68	1/4	1,668.09	1/4	1,304.51	1/4	943.12	1/4	579.73	1/4	216.16	1/4		1/4		1/4		1/4	
1/2	2,024.10	1/2	1,660.52	1/2	1,296.93	1/2	935.60	1/2	572.15	1/2	208.58	1/2		1/2		1/2		1/2	
3/4	2,016.53	3/4	1,652.94	3/4	1,289.36	3/4	928.05	3/4	564.58	3/4	201.01	3/4		3/4		3/4		3/4	
2	2,008.95	2	1,645.37	2	1,281.79	2	920.51	2	557.01	2	193.43	2		2		2		2	
1/4	2,001.38	1/4	1,637.79	1/4	1,274.22	1/4	912.97	1/4	549.43	1/4	185.86	1/4		1/4		1/4		1/4	
1/2	1,993.80	1/2	1,630.22	1/2	1,266.65	1/2	905.43	1/2	541.86	1/2	178.29	1/2		1/2		1/2		1/2	
3/4	1,986.23	3/4	1,622.64	3/4	1,259.12	3/4	897.85	3/4	534.28	3/4	170.71	3/4		3/4		3/4		3/4	
3	1,978.65	3	1,615.07	3	1,251.58	3	890.28	3	526.71	3	163.14	3		3		3		3	
1/4	1,971.08	1/4	1,607.49	1/4	1,244.05	1/4	882.71	1/4	519.13	1/4	155.56	1/4		1/4		1/4		1/4	
1/2	1,963.50	1/2	1,599.92	1/2	1,236.52	1/2	875.13	1/2	511.56	1/2	147.99	1/2		1/2		1/2		1/2	
3/4	1,955.93	3/4	1,592.34	3/4	1,228.99	3/4	867.56	3/4	503.99	3/4	140.41	3/4		3/4		3/4		3/4	
4	1,948.35	4	1,584.77	4	1,221.47	4	859.98	4	496.41	4	132.84	4		4		4		4	
1/4	1,940.78	1/4	1,577.19	1/4	1,213.95	1/4	852.41	1/4	488.84	1/4	125.27	1/4		1/4		1/4		1/4	
1/2	1,933.21	1/2	1,569.62	1/2	1,206.43	1/2	844.83	1/2	481.26	1/2	117.69	1/2		1/2		1/2		1/2	
3/4	1,925.63	3/4	1,562.04	3/4	1,198.90	3/4	837.26	3/4	473.69	3/4	110.20	3/4		3/4		3/4		3/4	
5	1,918.06	5	1,554.47	5	1,191.38	5	829.68	5	466.11	5	102.70	5		5		5		5	
1/4	1,910.48	1/4	1,546.90	1/4	1,183.86	1/4	822.11	1/4	458.54	1/4	95.20	1/4		1/4		1/4		1/4	
1/2	1,902.91	1/2	1,539.32	1/2	1,176.33	1/2	814.54	1/2	450.96	1/2	87.71	1/2		1/2		1/2		1/2	
3/4	1,895.33	3/4	1,531.75	3/4	1,168.81	3/4	806.96	3/4	443.39	3/4	80.92	3/4		3/4		3/4		3/4	
6	1,887.76	6	1,524.17	6	1,161.29	6	799.39	6	435.82	6	74.14	6		6		6		6	
1/4	1,880.18	1/4	1,516.60	1/4	1,153.76	1/4	791.81	1/4	428.24	1/4	67.35	1/4		1/4		1/4		1/4	
1/2	1,872.61	1/2	1,509.02	1/2	1,146.24	1/2	784.24	1/2	420.67	1/2	60.57	1/2		1/2		1/2		1/2	
3/4	1,865.03	3/4	1,501.45	3/4	1,138.72	3/4	776.66	3/4	413.09	3/4	55.05	3/4		3/4		3/4		3/4	
7	1,857.46	7	1,493.87	7	1,131.20	7	769.09	7	405.52	7	49.52	7		7		7		7	
1/4	1,849.88	1/4	1,486.30	1/4	1,123.67	1/4	761.51	1/4	397.94	1/4	44.00	1/4		1/4		1/4		1/4	
1/2	1,842.31	1/2	1,478.72	1/2	1,116.15	1/2	753.94	1/2	390.37	1/2	38.48	1/2		1/2		1/2		1/2	
3/4	1,834.73	3/4	1,471.15	3/4	1,108.63	3/4	746.37	3/4	382.79	3/4	34.22	3/4		3/4		3/4		3/4	
8	1,827.16	8	1,463.57	8	1,101.10	8	738.79	8	375.22	8	29.96	8		8		8		8	
1/4	1,819.58	1/4	1,456.00	1/4	1,093.58	1/4	731.22	1/4	367.65	1/4	25.70	1/4		1/4		1/4		1/4	
1/2	1,812.01	1/2	1,448.42	1/2	1,086.06	1/2	723.64	1/2	360.07	1/2	21.45	1/2		1/2		1/2		1/2	
3/4	1,804.44	3/4	1,440.85	3/4	1,078.54	3/4	716.07	3/4	352.50	3/4		3/4		3/4		3/4		3/4	
9	1,796.86	9	1,433.27	9	1,071.01	9	708.49	9	344.92	9		9		9		9		9	
1/4	1,789.29	1/4	1,425.70	1/4	1,063.49	1/4	700.92	1/4	337.35	1/4		1/4		1/4		1/4		1/4	
1/2	1,781.71	1/2	1,418.13	1/2	1,055.97	1/2	693.35	1/2	329.77	1/2		1/2		1/2		1/2		1/2	
3/4	1,774.14	3/4	1,410.55	3/4	1,048.44	3/4	685.77	3/4	322.20	3/4		3/4		3/4		3/4		3/4	
10	1,766.56	10	1,402.98	10	1,040.92	10	678.20	10	314.63	10		10		10		10		10	
1/4	1,758.99	1/4	1,395.40	1/4	1,033.40	1/4	670.62	1/4	307.05	1/4		1/4		1/4		1/4		1/4	
1/2	1,751.41	1/2	1,387.83	1/2	1,025.88	1/2	663.05	1/2	299.48	1/2		1/2		1/2		1/2		1/2	
3/4	1,743.84	3/4	1,380.25	3/4	1,018.35	3/4	655.47	3/4	291.90	3/4		3/4		3/4		3/4		3/4	
11	1,736.26	11	1,372.68	11	1,010.83	11	647.90	11	284.33	11		11		11		11		11	
1/4	1,728.69	1/4	1,365.10	1/4	1,003.31	1/4	640.32	1/4	276.75	1/4		1/4		1/4		1/4		1/4	
1/2	1,721.11	1/2	1,357.53	1/2	995.78	1/2	632.75	1/2	269.18	1/2		1/2		1/2		1/2		1/2	
3/4	1,713.54	3/4	1,349.95	3/4	988.26	3/4	625.18	3/4	261.60	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 05/19/2020 CL
CALCULATED: 05/20/2020 CL
PRINTED: 05/20/2020 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 05/19/2020

PRECISION MEASUREMENT

& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pma.net>



BARGE "EMS 522"

2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08 1/2"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	0	0	4,911.61	0	4,580.41	0	4,235.08	0	3,876.82	0	3,514.50	0	3,152.18	0	2,789.85	0	2,427.47		
1/4	1/4	1/4	4,904.86	1/4	4,573.35	1/4	4,227.74	1/4	3,869.28	1/4	3,506.95	1/4	3,144.63	1/4	2,782.31	1/4	2,419.92		
1/2	1/2	1/2	4,898.11	1/2	4,566.29	1/2	4,220.41	1/2	3,861.73	1/2	3,499.40	1/2	3,137.08	1/2	2,774.76	1/2	2,412.36		
3/4	3/4	3/4	4,891.34	3/4	4,559.21	3/4	4,213.05	3/4	3,854.18	3/4	3,491.86	3/4	3,129.53	3/4	2,767.21	3/4	2,404.81		
1	1	1	4,884.57	1	4,552.14	1	4,205.70	1	3,846.63	1	3,484.31	1	3,121.98	1	2,759.66	1	2,397.26		
1 1/4	1 1/4	1 1/4	4,877.79	1 1/4	4,545.06	1 1/4	4,198.34	1 1/4	3,839.38	1 1/4	3,476.76	1 1/4	3,114.44	1 1/4	2,752.11	1 1/4	2,389.71		
1 1/2	1 1/2	1 1/2	4,871.02	1 1/2	4,537.98	1 1/2	4,190.99	1 1/2	3,831.53	1 1/2	3,469.21	1 1/2	3,106.89	1 1/2	2,744.56	1 1/2	2,382.16		
3 1/4	3 1/4	3 1/4	4,864.22	3 1/4	4,530.87	3 1/4	4,183.61	3 1/4	3,823.98	3 1/4	3,461.66	3 1/4	3,099.34	3 1/4	2,737.02	3 1/4	2,374.61		
2	2	2	4,857.42	2	4,523.77	2	4,176.23	2	3,816.44	2	3,454.11	2	3,091.79	2	2,729.47	2	2,367.06		
1 3/4	1 3/4	1 3/4	4,850.63	1 3/4	4,516.67	1 3/4	4,168.85	1 3/4	3,808.89	1 3/4	3,446.56	1 3/4	3,084.24	1 3/4	2,721.92	1 3/4	2,359.51		
1 1/2	1 1/2	1 1/2	4,843.83	1 1/2	4,509.57	1 1/2	4,161.47	1 1/2	3,801.34	1 1/2	3,439.02	1 1/2	3,076.69	1 1/2	2,714.37	1 1/2	2,351.95		
3 3/4	3 3/4	3 3/4	4,837.01	3 3/4	4,502.44	3 3/4	4,154.07	3 3/4	3,793.79	3 3/4	3,431.47	3 3/4	3,069.14	3 3/4	2,706.82	3 3/4	2,344.40		
3	3	3	4,830.19	3	4,495.32	3	4,146.67	3	3,786.24	3	3,423.92	3	3,061.60	3	2,699.27	3	2,336.85		
1 1/4	1 1/4	1 1/4	4,823.37	1 1/4	4,488.19	1 1/4	4,139.27	1 1/4	3,778.69	1 1/4	3,416.37	1 1/4	3,046.50	1 1/4	2,691.72	1 1/4	2,329.30		
1 1/2	1 1/2	1 1/2	4,816.55	1 1/2	4,481.07	1 1/2	4,131.87	1 1/2	3,771.15	1 1/2	3,408.82	1 1/2	3,038.95	1 1/2	2,684.18	1 1/2	2,321.75		
3 1/4	3 1/4	3 1/4	4,809.71	3 1/4	4,473.92	3 1/4	4,124.44	3 1/4	3,763.60	3 1/4	3,401.27	3 1/4	3,030.95	3 1/4	2,676.63	3 1/4	2,314.20		
4	4	4	4,802.86	4	4,466.77	4	4,117.02	4	3,756.05	4	3,393.73	4	3,031.40	4	2,669.08	4	2,306.65		
1 3/4	1 3/4	1 3/4	4,796.02	1 3/4	4,459.62	1 3/4	4,109.59	1 3/4	3,748.50	1 3/4	3,386.18	1 3/4	3,023.85	1 3/4	2,661.53	1 3/4	2,299.10		
1 1/2	1 1/2	1 1/2	4,789.18	1 1/2	4,452.47	1 1/2	4,102.17	1 1/2	3,740.95	1 1/2	3,378.63	1 1/2	3,016.31	1 1/2	2,653.98	1 1/2	2,291.55		
3 1/4	3 1/4	3 1/4	4,782.31	3 1/4	4,445.30	3 1/4	4,094.72	3 1/4	3,733.40	3 1/4	3,371.08	3 1/4	3,008.76	3 1/4	2,646.44	3 1/4	2,283.99		
5	5	5	4,775.45	5	4,438.13	5	4,087.27	5	3,725.86	5	3,363.53	5	3,001.21	5	2,638.89	5	2,276.44		
1 1/4	1 1/4	1 1/4	4,768.58	1 1/4	4,430.96	1 1/4	4,079.38	1 1/4	3,718.31	1 1/4	3,355.98	1 1/4	2,993.66	1 1/4	2,631.34	1 1/4	2,268.89		
1 1/2	1 1/2	1 1/2	4,761.72	1 1/2	4,423.79	1 1/2	4,072.38	1 1/2	3,710.76	1 1/2	3,348.44	1 1/2	2,986.11	1 1/2	2,623.80	1 1/2	2,261.34		
3 1/4	3 1/4	3 1/4	4,754.83	3 1/4	4,416.59	3 1/4	4,064.91	3 1/4	3,703.21	3 1/4	3,340.89	3 1/4	2,978.56	3 1/4	2,616.25	3 1/4	2,253.79		
6	6	6	4,747.94	6	4,409.40	6	4,057.44	6	3,695.66	6	3,333.34	6	2,971.02	6	2,608.70	6	2,246.24		
1 1/4	1 1/4	1 1/4	4,741.05	1 1/4	4,402.20	1 1/4	4,049.97	1 1/4	3,688.11	1 1/4	3,325.79	1 1/4	2,963.47	1 1/4	2,601.14	1 1/4	2,238.69		
1 1/2	1 1/2	1 1/2	4,734.16	1 1/2	4,395.01	1 1/2	4,042.50	1 1/2	3,680.57	1 1/2	3,318.24	1 1/2	2,955.92	1 1/2	2,593.59	1 1/2	2,231.14		
3 1/4	3 1/4	3 1/4	4,727.24	3 1/4	4,387.79	3 1/4	4,035.00	3 1/4	3,673.02	3 1/4	3,310.69	3 1/4	2,948.37	3 1/4	2,586.04	3 1/4	2,223.58		
7	7	7	4,720.33	7	4,380.57	7	4,027.51	7	3,665.47	7	3,303.15	7	2,940.82	7	2,578.49	7	2,216.03		
1 1/4	1 1/4	1 1/4	4,713.41	1 1/4	4,373.36	1 1/4	4,020.01	1 1/4	3,657.92	1 1/4	3,295.60	1 1/4	2,933.27	1 1/4	2,570.94	1 1/4	2,208.48		
1 1/2	1 1/2	1 1/2	4,706.50	1 1/2	4,366.14	1 1/2	4,012.52	1 1/2	3,650.37	1 1/2	3,288.05	1 1/2	2,925.73	1 1/2	2,563.39	1 1/2	2,200.93		
3 1/4	3 1/4	3 1/4	4,699.53	3 1/4	4,358.90	3 1/4	4,005.00	3 1/4	3,642.82	3 1/4	3,280.50	3 1/4	2,918.18	3 1/4	2,555.84	3 1/4	2,193.38		
8	8	8	4,692.57	8	4,351.66	8	3,997.49	8	3,635.27	8	3,272.95	8	2,910.63	8	2,548.29	8	2,185.83		
1 1/4	1 1/4	1 1/4	4,685.60	1 1/4	4,344.42	1 1/4	3,989.97	1 1/4	3,627.73	1 1/4	3,265.40	1 1/4	2,903.08	1 1/4	2,540.73	1 1/4	2,178.28		
1 1/2	1 1/2	1 1/2	4,678.64	1 1/2	4,337.18	1 1/2	3,982.45	1 1/2	3,620.18	1 1/2	3,257.85	1 1/2	2,895.53	1 1/2	2,533.18	1 1/2	2,170.73		
3 1/4	3 1/4	3 1/4	4,671.65	3 1/4	4,329.91	3 1/4	3,974.92	3 1/4	3,612.63	3 1/4	3,250.31	3 1/4	2,887.98	3 1/4	2,525.63	3 1/4	2,163.17		
9	9	9	4,664.67	9	4,322.65	9	3,967.38	9	3,605.08	9	3,242.76	9	2,880.43	9	2,518.08	9	2,155.62		
1 1/4	1 1/4	1 1/4	4,657.68	1 1/4	4,315.39	1 1/4	3,959.84	1 1/4	3,597.53	1 1/4	3,235.21	1 1/4	2,872.89	1 1/4	2,510.53	1 1/4	2,148.07		
1 1/2	1 1/2	1 1/2	4,650.69	1 1/2	4,308.12	1 1/2	3,952.31	1 1/2	3,589.98	1 1/2	3,227.66	1 1/2	2,865.34	1 1/2	2,502.98	1 1/2	2,140.52		
3 1/4	3 1/4	3 1/4	4,643.68	3 1/4	4,300.84	3 1/4	3,944.76	3 1/4	3,582.44	3 1/4	3,220.11	3 1/4	2,857.79	3 1/4	2,495.43	3 1/4	2,132.97		
10	10	10	4,636.67	10	4,293.55	10	3,937.21	10	3,574.89	10	3,212.56	10	2,850.24	10	2,487.88	10	2,125.42		
1 1/4	1 1/4	1 1/4	4,629.66	1 1/4	4,286.27	1 1/4	3,929.66	1 1/4	3,567.34	1 1/4	3,205.02	1 1/4	2,842.69	1 1/4	2,480.33	1 1/4	2,117.87		
1 1/2	1 1/2	1 1/2	4,622.65	1 1/2	4,278.98	1 1/2	3,922.11	1 1/2	3,559.79	1 1/2	3,197.47	1 1/2	2,835.14	1 1/2	2,472.77	1 1/2	2,110.32		
3 1/4	3 1/4	3 1/4	4,615.62	3 1/4	4,271.67	3 1/4	3,914.57	3 1/4	3,552.24	3 1/4	3,189.92	3 1/4	2,827.60	3 1/4	2,465.22	3 1/4	2,102.77		
11	11	11	4,608.58	11	4,264.36	11	3,907.02	11	3,544.69	11	3,182.37	11	2,820.05	11	2,457.67	11	2,095.21		
1 1/4	1 1/4	1 1/4	4,601.55	1 1/4	4,257.05	1 1/4	3,899.47	1 1/4	3,537.15	1 1/4	3,174.82	1 1/4	2,812.50	1 1/4	2,450.12	1 1/4	2,087.66		
1 1/2	1 1/2	1 1/2	4,594.52	1 1/2	4,249.74	1 1/2	3,891.92	1 1/2	3,529.60	1 1/2	3,167.27	1 1/2	2,804.95	1 1/2	2,442.57	1 1/2	2,080.11		
3 1/4	3 1/4	3 1/4	4,587.46	3 1/4	4,242.41	3 1/4	3,884.37	3 1/4	3,522.05	3 1/4	3,159.73	3 1/4	2,797.40	3 1/4	2,435.02	3 1/4	2,072.56		

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH NFPA CHAPTER 2.7.

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.

CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.

CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP LIP OF 2" DIAMETER "HERMETIC" VALVE.

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

PRECISION MEASUREMENT

& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmaacorp.net>



BARGE "EMS 522"

2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		15'-08 1/2"	
IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0
0	2,065.01	0	1,702.55	0	1,340.09	0	978.06	0	615.69	0	253.25	0		0					
1/4	2,057.46	1/4	1,695.00	1/4	1,332.54	1/4	970.52	1/4	608.14	1/4	245.70	1/4		1/4		1/4		1/4	
1/2	2,049.91	1/2	1,687.45	1/2	1,324.99	1/2	962.99	1/2	600.59	1/2	238.15	1/2		1/2		1/2		1/2	
3/4	2,042.36	3/4	1,679.90	3/4	1,317.44	3/4	955.45	3/4	593.04	3/4	230.60	3/4		3/4		3/4		3/4	
1	2,034.80	1	1,672.35	1	1,309.89	1	947.91	1	585.49	1	223.05	1		1		1		1	
1/4	2,027.25	1/4	1,664.80	1/4	1,302.34	1/4	940.37	1/4	577.94	1/4	215.49	1/4		1/4		1/4		1/4	
1/2	2,019.70	1/2	1,657.24	1/2	1,294.79	1/2	932.83	1/2	570.39	1/2	207.94	1/2		1/2		1/2		1/2	
3/4	2,012.15	3/4	1,649.69	3/4	1,287.24	3/4	925.28	3/4	562.84	3/4	200.39	3/4		3/4		3/4		3/4	
2	2,004.60	2	1,642.14	2	1,279.68	2	917.73	2	555.28	2	192.84	2		2		2		2	
1/4	1,997.05	1/4	1,634.59	1/4	1,272.13	1/4	910.18	1/4	547.73	1/4	185.29	1/4		1/4		1/4		1/4	
1/2	1,989.50	1/2	1,627.04	1/2	1,264.58	1/2	902.63	1/2	540.18	1/2	177.74	1/2		1/2		1/2		1/2	
3/4	1,981.95	3/4	1,619.49	3/4	1,257.03	3/4	895.08	3/4	532.63	3/4	170.19	3/4		3/4		3/4		3/4	
3	1,974.39	3	1,611.94	3	1,249.48	3	887.52	3	525.08	3	162.64	3		3		3		3	
1/4	1,966.84	1/4	1,604.39	1/4	1,241.93	1/4	879.97	1/4	517.53	1/4	155.09	1/4		1/4		1/4		1/4	
1/2	1,959.29	1/2	1,596.83	1/2	1,234.38	1/2	872.42	1/2	509.98	1/2	147.54	1/2		1/2		1/2		1/2	
3/4	1,951.74	3/4	1,589.28	3/4	1,226.84	3/4	864.87	3/4	502.43	3/4	139.99	3/4		3/4		3/4		3/4	
4	1,944.19	4	1,581.73	4	1,219.30	4	857.32	4	494.88	4	132.43	4		4		4		4	
1/4	1,936.64	1/4	1,574.18	1/4	1,211.77	1/4	849.77	1/4	487.33	1/4	124.88	1/4		1/4		1/4		1/4	
1/2	1,929.09	1/2	1,566.63	1/2	1,204.23	1/2	842.22	1/2	479.78	1/2	117.33	1/2		1/2		1/2		1/2	
3/4	1,921.54	3/4	1,559.08	3/4	1,196.69	3/4	834.67	3/4	472.23	3/4	109.86	3/4		3/4		3/4		3/4	
5	1,913.99	5	1,551.53	5	1,189.15	5	827.12	5	464.67	5	102.39	5		5		5		5	
1/4	1,906.43	1/4	1,543.98	1/4	1,181.61	1/4	819.57	1/4	457.12	1/4	94.92	1/4		1/4		1/4		1/4	
1/2	1,898.88	1/2	1,536.43	1/2	1,174.07	1/2	812.02	1/2	449.57	1/2	87.44	1/2		1/2		1/2		1/2	
3/4	1,891.33	3/4	1,528.87	3/4	1,166.53	3/4	804.46	3/4	442.02	3/4	80.68	3/4		3/4		3/4		3/4	
6	1,883.78	6	1,521.32	6	1,158.99	6	796.91	6	434.47	6	73.92	6		6		6		6	
1/4	1,876.23	1/4	1,513.77	1/4	1,151.46	1/4	789.36	1/4	426.92	1/4	67.15	1/4		1/4		1/4		1/4	
1/2	1,868.68	1/2	1,506.22	1/2	1,143.92	1/2	781.81	1/2	419.37	1/2	60.39	1/2		1/2		1/2		1/2	
3/4	1,861.13	3/4	1,498.67	3/4	1,136.38	3/4	774.26	3/4	411.82	3/4	54.88	3/4		3/4		3/4		3/4	
7	1,853.58	7	1,491.12	7	1,128.84	7	766.71	7	404.27	7	49.38	7		7		7		7	
1/4	1,846.02	1/4	1,483.57	1/4	1,121.30	1/4	759.16	1/4	396.72	1/4	43.87	1/4		1/4		1/4		1/4	
1/2	1,838.47	1/2	1,476.02	1/2	1,113.76	1/2	751.61	1/2	389.17	1/2	38.37	1/2		1/2		1/2		1/2	
3/4	1,830.92	3/4	1,468.46	3/4	1,106.22	3/4	744.06	3/4	381.61	3/4	34.12	3/4		3/4		3/4		3/4	
8	1,823.37	8	1,460.91	8	1,098.68	8	736.51	8	374.06	8	29.88	8		8		8		8	
1/4	1,815.82	1/4	1,453.36	1/4	1,091.15	1/4	728.96	1/4	366.51	1/4	25.63	1/4		1/4		1/4		1/4	
1/2	1,808.27	1/2	1,445.81	1/2	1,083.61	1/2	721.40	1/2	358.96	1/2	21.38	1/2		1/2		1/2		1/2	
3/4	1,800.72	3/4	1,438.26	3/4	1,076.07	3/4	713.85	3/4	351.41	3/4		3/4		3/4		3/4		3/4	
9	1,793.17	9	1,430.71	9	1,068.53	9	706.30	9	343.86	9		9		9		9		9	
1/4	1,785.61	1/4	1,423.16	1/4	1,060.99	1/4	698.75	1/4	336.31	1/4		1/4		1/4		1/4		1/4	
1/2	1,778.06	1/2	1,415.61	1/2	1,053.45	1/2	691.20	1/2	328.76	1/2		1/2		1/2		1/2		1/2	
3/4	1,770.51	3/4	1,408.05	3/4	1,045.91	3/4	683.65	3/4	321.21	3/4		3/4		3/4		3/4		3/4	
10	1,762.96	10	1,400.50	10	1,038.37	10	676.10	10	313.66	10		10		10		10		10	
1/4	1,755.41	1/4	1,392.95	1/4	1,030.83	1/4	668.55	1/4	306.11	1/4		1/4		1/4		1/4		1/4	
1/2	1,747.86	1/2	1,385.40	1/2	1,023.30	1/2	661.00	1/2	298.55	1/2		1/2		1/2		1/2		1/2	
3/4	1,740.31	3/4	1,377.85	3/4	1,015.76	3/4	653.45	3/4	291.00	3/4		3/4		3/4		3/4		3/4	
11	1,732.76	11	1,370.30	11	1,008.22	11	645.90	11	283.45	11		11		11		11		11	
1/4	1,725.21	1/4	1,362.75	1/4	1,000.68	1/4	638.34	1/4	275.90	1/4		1/4		1/4		1/4		1/4	
1/2	1,717.65	1/2	1,355.20	1/2	993.14	1/2	630.79	1/2	268.35	1/2		1/2		1/2		1/2		1/2	
3/4	1,710.10	3/4	1,347.65	3/4	985.60	3/4	623.24	3/4	260.80	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 05/19/2020 CL
CALCULATED: 05/20/2020 CL
PRINTED: 05/20/2020 CL
CANCELS AND SUPERCEDES
ALL PRIOR TO 05/2020

PRECISION MEASUREMENT
& ANALYSIS, INC.

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<http://www.pmacorp.net>



BARGE "EMS 522"

2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08"

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	5,191.87	1/4	5,186.76	1/4	4,879.41	1/4	4,547.79	1/4	4,202.10	1/4	3,843.61	1/4	3,481.50	1/4	3,119.38	1/4	2,757.26	1/4	2,395.05
1/2	5,186.76	1/2	4,872.64	1/2	4,540.71	1/2	4,194.75	1/2	3,836.07	1/2	3,473.95	1/2	3,111.84	1/2	2,749.72	1/2	2,387.51	1/2	2,025.30
3/4	5,181.65	3/4	4,865.87	3/4	4,533.64	3/4	4,187.40	3/4	3,828.53	3/4	3,466.41	3/4	3,104.29	3/4	2,742.18	3/4	2,379.96	3/4	2,020.39
1	5,176.53	1	4,859.10	1	4,526.56	1	4,180.05	1	3,820.98	1	3,458.87	1	3,096.75	1	2,734.63	1	2,372.41	1	2,015.27
1/4	5,171.42	1/4	4,852.33	1/4	4,519.48	1/4	4,172.70	1/4	3,813.44	1/4	3,451.32	1/4	3,089.20	1/4	2,727.09	1/4	2,364.87	1/4	2,010.14
1/2	5,165.10	1/2	4,845.54	1/2	4,512.39	1/2	4,165.32	1/2	3,805.89	1/2	3,443.78	1/2	3,081.66	1/2	2,719.54	1/2	2,357.32	1/2	2,005.01
3/4	5,158.77	3/4	4,838.74	3/4	4,505.29	3/4	4,157.95	3/4	3,796.35	3/4	3,436.63	3/4	3,074.12	3/4	2,712.00	3/4	2,349.77	3/4	2,000.00
1	5,152.45	1	4,831.95	1	4,499.19	1	4,150.57	1	3,790.81	1	3,428.69	1	3,066.57	1	2,704.46	1	2,342.23	1	1,995.00
1/4	5,146.12	1/4	4,825.16	1/4	4,491.09	1/4	4,143.20	1/4	3,783.26	1/4	3,421.14	1/4	3,059.03	1/4	2,696.91	1/4	2,334.68	1/4	1,990.00
1/2	5,138.93	1/2	4,818.34	1/2	4,483.97	1/2	4,135.80	1/2	3,768.17	1/2	3,413.60	1/2	3,043.94	1/2	2,689.37	1/2	2,327.13	1/2	1,985.00
3/4	5,131.74	3/4	4,811.53	3/4	4,476.85	3/4	4,128.41	3/4	3,761.03	3/4	3,406.06	3/4	3,036.40	3/4	2,681.82	3/4	2,319.59	3/4	1,980.00
1	5,124.55	1	4,804.71	1	4,469.73	1	4,121.01	1	3,753.09	1	3,393.97	1	3,028.85	1	2,666.73	1	2,304.49	1	1,975.00
1/4	5,117.36	1/4	4,797.89	1/4	4,462.61	1/4	4,113.61	1/4	3,745.54	1/4	3,383.42	1/4	3,021.31	1/4	2,659.19	1/4	2,296.95	1/4	1,970.00
1/2	5,110.87	1/2	4,791.05	1/2	4,455.46	1/2	4,106.19	1/2	3,738.00	1/2	3,375.86	1/2	3,013.76	1/2	2,651.65	1/2	2,289.40	1/2	1,965.00
3/4	5,104.38	3/4	4,784.22	3/4	4,448.32	3/4	4,098.77	3/4	3,730.45	3/4	3,368.34	3/4	3,006.22	3/4	2,644.10	3/4	2,281.85	3/4	1,960.00
1	5,097.88	1	4,777.38	1	4,441.18	1	4,091.35	1	3,722.91	1	3,353.25	1	2,991.13	1	2,636.56	1	2,274.30	1	1,955.00
1/4	5,091.39	1/4	4,770.54	1/4	4,434.03	1/4	4,083.93	1/4	3,715.36	1/4	3,345.70	1/4	2,983.59	1/4	2,629.07	1/4	2,266.76	1/4	1,950.00
1/2	5,084.87	1/2	4,763.68	1/2	4,426.86	1/2	4,076.49	1/2	3,707.82	1/2	3,338.16	1/2	2,976.04	1/2	2,621.46	1/2	2,259.21	1/2	1,945.00
3/4	5,078.36	3/4	4,756.82	3/4	4,419.70	3/4	4,069.04	3/4	3,698.19	3/4	3,330.62	3/4	2,968.50	3/4	2,613.91	3/4	2,251.66	3/4	1,940.00
1	5,071.84	1	4,749.95	1	4,412.53	1	4,061.60	1	3,692.73	1	3,323.07	1	2,960.95	1	2,606.36	1	2,244.12	1	1,935.00
1/4	5,065.33	1/4	4,743.09	1/4	4,405.36	1/4	4,054.16	1/4	3,685.19	1/4	3,315.53	1/4	2,953.41	1/4	2,598.82	1/4	2,236.57	1/4	1,930.00
1/2	5,058.79	1/2	4,736.21	1/2	4,398.17	1/2	4,046.69	1/2	3,677.64	1/2	3,307.98	1/2	2,945.87	1/2	2,591.27	1/2	2,229.02	1/2	1,925.00
3/4	5,052.25	3/4	4,729.32	3/4	4,390.98	3/4	4,039.22	3/4	3,670.10	3/4	3,300.44	3/4	2,938.32	3/4	2,583.72	3/4	2,221.48	3/4	1,920.00
1	5,045.71	1	4,722.44	1	4,383.76	1	4,031.76	1	3,662.56	1	3,292.90	1	2,930.78	1	2,576.18	1	2,213.93	1	1,915.00
1/4	5,039.17	1/4	4,715.55	1/4	4,376.60	1/4	4,024.29	1/4	3,655.01	1/4	3,285.35	1/4	2,923.23	1/4	2,568.63	1/4	2,206.38	1/4	1,910.00
1/2	5,032.61	1/2	4,708.64	1/2	4,369.39	1/2	4,016.80	1/2	3,647.47	1/2	3,277.81	1/2	2,915.69	1/2	2,561.08	1/2	2,198.84	1/2	1,905.00
3/4	5,026.04	3/4	4,701.73	3/4	4,362.18	3/4	4,009.31	3/4	3,639.92	3/4	3,270.26	3/4	2,908.15	3/4	2,553.54	3/4	2,191.29	3/4	1,900.00
1	5,019.48	1	4,694.84	1	4,354.96	1	4,001.82	1	3,632.38	1	3,262.72	1	2,900.60	1	2,545.99	1	2,183.74	1	1,895.00
1/4	5,012.92	1/4	4,687.91	1/4	4,347.75	1/4	3,994.33	1/4	3,624.84	1/4	3,255.17	1/4	2,893.06	1/4	2,538.44	1/4	2,176.20	1/4	1,890.00
1/2	5,006.33	1/2	4,680.95	1/2	4,340.51	1/2	3,986.82	1/2	3,617.29	1/2	3,247.63	1/2	2,885.51	1/2	2,530.90	1/2	2,168.65	1/2	1,885.00
3/4	4,999.75	3/4	4,673.99	3/4	4,333.28	3/4	3,979.31	3/4	3,609.75	3/4	3,240.09	3/4	2,877.97	3/4	2,523.35	3/4	2,161.10	3/4	1,880.00
1	4,993.16	1	4,667.03	1	4,326.04	1	3,971.79	1	3,602.20	1	3,232.54	1	2,870.43	1	2,515.80	1	2,153.56	1	1,875.00
1/4	4,986.58	1/4	4,660.07	1/4	4,318.80	1/4	3,964.28	1/4	3,594.66	1/4	3,225.00	1/4	2,862.88	1/4	2,507.71	1/4	2,146.01	1/4	1,870.00
1/2	4,979.96	1/2	4,653.08	1/2	4,311.54	1/2	3,956.75	1/2	3,587.12	1/2	3,217.45	1/2	2,855.34	1/2	2,499.16	1/2	2,138.46	1/2	1,865.00
3/4	4,973.34	3/4	4,646.10	3/4	4,304.29	3/4	3,949.21	3/4	3,579.57	3/4	3,209.91	3/4	2,847.79	3/4	2,491.62	3/4	2,130.92	3/4	1,860.00
1	4,966.73	1	4,639.12	1	4,297.03	1	3,941.68	1	3,572.03	1	3,202.37	1	2,840.25	1	2,484.07	1	2,123.37	1	1,855.00
1/4	4,960.11	1/4	4,632.13	1/4	4,289.77	1/4	3,934.14	1/4	3,564.48	1/4	3,194.82	1/4	2,832.70	1/4	2,478.07	1/4	2,115.82	1/4	1,850.00
1/2	4,953.41	1/2	4,625.13	1/2	4,282.48	1/2	3,926.60	1/2	3,556.94	1/2	3,187.28	1/2	2,825.16	1/2	2,470.52	1/2	2,108.28	1/2	1,845.00
3/4	4,946.70	3/4	4,618.12	3/4	4,275.20	3/4	3,919.06	3/4	3,549.39	3/4	3,179.73	3/4	2,817.62	3/4	2,462.97	3/4	2,100.73	3/4	1,840.00
1	4,940.00	1	4,611.12	1	4,267.92	1	3,911.51	1	3,541.85	1	3,172.19	1	2,810.07	1	2,455.43	1	2,093.18	1	1,835.00
1/4	4,933.30	1/4	4,604.11	1/4	4,260.64	1/4	3,903.97	1/4	3,534.31	1/4	3,165.65	1/4	2,802.53	1/4	2,447.88	1/4	2,085.63	1/4	1,830.00
1/2	4,926.57	1/2	4,597.08	1/2	4,253.33	1/2	3,896.42	1/2	3,526.72	1/2	3,157.10	1/2	2,794.98	1/2	2,440.33	1/2	2,078.09	1/2	1,825.00
3/4	4,919.85	3/4	4,590.05	3/4	4,246.03	3/4	3,888.88	3/4	3,519.22	3/4	3,149.56	3/4	2,787.44	3/4	2,432.79	3/4	2,070.54	3/4	1,820.00
1	4,913.12	1	4,583.02	1	4,238.72	1	3,881.33	1	3,511.67	1	3,142.01	1	2,779.90	1	2,425.24	1	2,062.99	1	1,815.00
1/4	4,906.39	1/4	4,575.99	1/4	4,231.42	1/4	3,873.79	1/4	3,504.13	1/4	3,134.47	1/4	2,772.35	1/4	2,417.69	1/4	2,055.45	1/4	1,810.00
1/2	4,899.65	1/2	4,568.94	1/2	4,224.09	1/2	3,866.25	1/2	3,496.59	1/2	3,126.92	1/2	2,764.81	1/2	2,410.15	1/2	2,047.90	1/2	1,805.00
3/4	4,892.90	3/4	4,561.89	3/4	4,216.76	3/4	3,858.70	3/4	3,489.04	3/4	3,119.38	3/4	2,757.26	3/4	2,402.60	3/4	2,040.35	3/4	1,800.00
1	4,886.15	1	4,554.84	1	4,209.43	1	3,851.16	1	3,481.50	1	3,111.84	1	2,749.72	1	2,395.05	1	2,035.00	1	1,795.00

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP LIP OF 2" DIAMETER "HERMETIC" VALVE.
GAUGE POINT: (HERMETIC) LOCATED 10'-06" OFF CENTERLINE AND 42'-03" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092
Pearland, Texas 77588
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BARGE "EMS 522"

2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS																		GAUGE HEIGHT 15'-08"			
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.	19 FT.			
0	2,032.81	0	1,670.56	0	1,308.31	0	959.95	0	600.25	0	238.01	0		0		0					
1/4	2,025.26	1/4	1,663.01	1/4	1,300.77	1/4	952.75	1/4	592.70	1/4	230.47	1/4		1/4		1/4		1/4			
1/2	2,017.71	1/2	1,655.47	1/2	1,293.22	1/2	945.55	1/2	585.16	1/2	222.92	1/2		1/2		1/2		1/2			
3/4	2,010.17	3/4	1,647.92	3/4	1,285.67	3/4	938.34	3/4	577.61	3/4	215.37	3/4		3/4		3/4		3/4			
1	2,002.62	1	1,640.37	1	1,278.13	1	931.14	1	570.06	1	207.83	1		1		1		1			
1/4	1,995.07	1/4	1,632.83	1/4	1,270.62	1/4	923.88	1/4	562.52	1/4	200.28	1/4		1/4		1/4		1/4			
1/2	1,987.53	1/2	1,625.28	1/2	1,263.12	1/2	916.63	1/2	554.97	1/2	192.73	1/2		1/2		1/2		1/2			
3/4	1,979.98	3/4	1,617.73	3/4	1,255.61	3/4	909.37	3/4	547.42	3/4	185.19	3/4		3/4		3/4		3/4			
2	1,972.43	2	1,610.19	2	1,248.11	2	902.11	2	539.88	2	177.64	2		2		2		2			
1/4	1,964.89	1/4	1,602.64	1/4	1,240.89	1/4	894.57	1/4	532.33	1/4	170.09	1/4		1/4		1/4		1/4			
1/2	1,957.34	1/2	1,595.09	1/2	1,233.68	1/2	887.02	1/2	524.78	1/2	162.55	1/2		1/2		1/2		1/2			
3/4	1,949.79	3/4	1,587.55	3/4	1,226.47	3/4	879.47	3/4	517.24	3/4	155.00	3/4		3/4		3/4		3/4			
3	1,942.25	3	1,580.00	3	1,219.25	3	871.93	3	509.69	3	147.45	3		3		3		3			
1/4	1,934.70	1/4	1,572.45	1/4	1,212.05	1/4	864.38	1/4	502.14	1/4	139.91	1/4		1/4		1/4		1/4			
1/2	1,927.15	1/2	1,564.91	1/2	1,204.85	1/2	856.83	1/2	494.60	1/2	132.36	1/2		1/2		1/2		1/2			
3/4	1,919.61	3/4	1,557.36	3/4	1,197.64	3/4	849.29	3/4	487.05	3/4	124.81	3/4		3/4		3/4		3/4			
4	1,912.06	4	1,549.81	4	1,190.44	4	841.74	4	479.50	4	117.27	4		4		4		4			
1/4	1,904.51	1/4	1,542.27	1/4	1,183.24	1/4	834.19	1/4	471.96	1/4	109.80	1/4		1/4		1/4		1/4			
1/2	1,896.96	1/2	1,534.72	1/2	1,176.04	1/2	826.65	1/2	464.41	1/2	102.33	1/2		1/2		1/2		1/2			
3/4	1,889.42	3/4	1,527.17	3/4	1,168.83	3/4	819.10	3/4	456.86	3/4	94.86	3/4		3/4		3/4		3/4			
5	1,881.87	5	1,519.62	5	1,161.63	5	811.55	5	449.32	5	87.40	5		5		5		5			
1/4	1,874.32	1/4	1,512.08	1/4	1,154.43	1/4	804.01	1/4	441.77	1/4	80.64	1/4		1/4		1/4		1/4			
1/2	1,866.78	1/2	1,504.53	1/2	1,147.22	1/2	796.46	1/2	434.22	1/2	73.87	1/2		1/2		1/2		1/2			
3/4	1,859.23	3/4	1,496.98	3/4	1,140.02	3/4	788.91	3/4	426.68	3/4	67.11	3/4		3/4		3/4		3/4			
6	1,851.68	6	1,489.44	6	1,132.82	6	781.37	6	419.13	6	60.35	6		6		6		6			
1/4	1,844.14	1/4	1,481.89	1/4	1,125.62	1/4	773.82	1/4	411.58	1/4	54.85	1/4		1/4		1/4		1/4			
1/2	1,836.59	1/2	1,474.34	1/2	1,118.41	1/2	766.27	1/2	404.04	1/2	49.35	1/2		1/2		1/2		1/2			
3/4	1,829.04	3/4	1,466.80	3/4	1,111.21	3/4	758.73	3/4	396.49	3/4	43.85	3/4		3/4		3/4		3/4			
7	1,821.50	7	1,459.25	7	1,104.01	7	751.18	7	388.94	7	38.35	7		7		7		7			
1/4	1,813.95	1/4	1,451.70	1/4	1,096.81	1/4	743.63	1/4	381.40	1/4	34.10	1/4		1/4		1/4		1/4			
1/2	1,806.40	1/2	1,444.16	1/2	1,089.60	1/2	736.09	1/2	373.85	1/2	29.86	1/2		1/2		1/2		1/2			
3/4	1,798.86	3/4	1,436.61	3/4	1,082.40	3/4	728.54	3/4	366.30	3/4	25.62	3/4		3/4		3/4		3/4			
8	1,791.31	8	1,429.06	8	1,075.20	8	721.00	8	358.76	8	21.37	8		8		8		8			
1/4	1,783.76	1/4	1,421.52	1/4	1,067.99	1/4	713.45	1/4	351.21	1/4	=====	1/4		1/4		1/4		1/4			
1/2	1,776.22	1/2	1,413.97	1/2	1,060.79	1/2	705.90	1/2	343.67	1/2		1/2		1/2		1/2		1/2			
3/4	1,768.67	3/4	1,406.42	3/4	1,053.59	3/4	698.36	3/4	336.12	3/4		3/4		3/4		3/4		3/4			
9	1,761.12	9	1,398.88	9	1,046.39	9	690.81	9	328.57	9		9		9		9		9			
1/4	1,753.58	1/4	1,391.33	1/4	1,039.18	1/4	683.26	1/4	321.03	1/4		1/4		1/4		1/4		1/4			
1/2	1,746.03	1/2	1,383.78	1/2	1,031.98	1/2	675.72	1/2	313.48	1/2		1/2		1/2		1/2		1/2			
3/4	1,738.48	3/4	1,376.24	3/4	1,024.78	3/4	668.17	3/4	305.93	3/4		3/4		3/4		3/4		3/4			
10	1,730.94	10	1,368.69	10	1,017.58	10	660.62	10	298.39	10		10		10		10		10			
1/4	1,723.39	1/4	1,361.14	1/4	1,010.37	1/4	653.08	1/4	290.84	1/4		1/4		1/4		1/4		1/4			
1/2	1,715.84	1/2	1,353.60	1/2	1,003.17	1/2	645.53	1/2	283.29	1/2		1/2		1/2		1/2		1/2			
3/4	1,708.29	3/4	1,346.05	3/4	995.97	3/4	637.98	3/4	275.75	3/4		3/4		3/4		3/4		3/4			
11	1,700.75	11	1,338.50	11	988.77	11	630.44	11	268.20	11		11		11		11		11			
1/4	1,693.20	1/4	1,330.95	1/4	981.56	1/4	622.89	1/4	260.65	1/4		1/4		1/4		1/4		1/4			
1/2	1,685.65	1/2	1,323.41	1/2	974.36	1/2	615.34	1/2	253.11	1/2		1/2		1/2		1/2		1/2			
3/4	1,678.11	3/4	1,315.86	3/4	967.16	3/4	607.80	3/4	245.56	3/4		3/4		3/4		3/4		3/4			

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 05/19/2020 CL
CALCULATED: 05/20/2020 CL
PRINTED: 05/20/2020 CL
CANCELS AND SUPERCEDES
ALL PRIOR TO 05/2020

PRECISION MEASUREMENT
& ANALYSIS, INC.

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BARGE "EMS 522"

3 PORT ULLAGE 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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/4	4,404.11	1/4	4,243.32	1/4	4,243.32	1/4	4,069.38	1/4	3,884.30	1/4	3,692.35	1/4	3,486.30	1/4	3,127.70	1/4	2,767.84	1/4	2,407.38
1/2	4,402.46	1/2	4,239.07	1/2	4,239.07	1/2	4,065.60	1/2	3,876.44	1/2	3,684.26	1/2	3,471.35	1/2	3,112.71	1/2	2,752.82	1/2	2,392.36
3/4	4,400.80	3/4	4,236.07	3/4	4,236.07	3/4	4,058.02	3/4	3,872.50	3/4	3,680.22	3/4	3,463.87	3/4	3,105.21	3/4	2,745.31	3/4	2,384.85
1	4,399.15	1	4,232.44	1	4,232.44	1	4,054.23	1	3,868.56	1	3,676.18	1	3,456.39	1	3,097.71	1	2,737.80	1	2,377.34
1/4	4,397.49	1/4	4,228.81	1/4	4,228.81	1/4	4,050.44	1/4	3,864.62	1/4	3,672.13	1/4	3,448.91	1/4	3,090.22	1/4	2,730.29	1/4	2,369.83
1/2	4,394.62	1/2	4,225.17	1/2	4,225.17	1/2	4,046.63	1/2	3,860.67	1/2	3,668.09	1/2	3,441.44	1/2	3,082.72	1/2	2,722.79	1/2	2,362.32
3/4	4,391.74	3/4	4,221.53	3/4	4,221.53	3/4	4,042.83	3/4	3,856.72	3/4	3,664.05	3/4	3,433.96	3/4	3,075.23	3/4	2,715.28	3/4	2,354.81
2	4,388.87	2	4,217.89	2	4,217.89	2	4,039.03	2	3,852.77	2	3,660.01	2	3,426.48	2	3,067.73	2	2,707.77	2	2,347.30
1/4	4,385.99	1/4	4,214.25	1/4	4,214.25	1/4	4,035.22	1/4	3,848.82	1/4	3,655.97	1/4	3,419.01	1/4	3,060.23	1/4	2,700.26	1/4	2,339.79
1/2	4,382.20	1/2	4,210.59	1/2	4,210.59	1/2	4,031.41	1/2	3,844.85	1/2	3,651.92	1/2	3,411.53	1/2	3,052.74	1/2	2,692.75	1/2	2,332.28
3/4	4,378.41	3/4	4,206.94	3/4	4,206.94	3/4	4,027.59	3/4	3,840.89	3/4	3,647.88	3/4	3,404.05	3/4	3,045.24	3/4	2,685.24	3/4	2,324.77
3	4,374.62	3	4,203.29	3	4,203.29	3	4,023.78	3	3,836.93	3	3,643.84	3	3,396.57	3	3,037.75	3	2,677.73	3	2,317.26
1/4	4,370.83	1/4	4,199.63	1/4	4,199.63	1/4	4,019.96	1/4	3,832.96	1/4	3,639.80	1/4	3,389.10	1/4	3,030.25	1/4	2,670.22	1/4	2,309.75
1/2	4,367.35	1/2	4,195.97	1/2	4,195.97	1/2	4,016.13	1/2	3,828.99	1/2	3,635.76	1/2	3,381.62	1/2	3,022.75	1/2	2,662.72	1/2	2,302.24
3/4	4,363.87	3/4	4,192.30	3/4	4,192.30	3/4	4,012.30	3/4	3,825.01	3/4	3,631.71	3/4	3,374.14	3/4	3,015.26	3/4	2,655.21	3/4	2,294.73
4	4,360.39	4	4,188.64	4	4,188.64	4	4,008.48	4	3,821.04	4	3,627.67	4	3,366.66	4	3,007.76	4	2,647.70	4	2,287.22
1/4	4,356.91	1/4	4,184.97	1/4	4,184.97	1/4	4,004.65	1/4	3,817.06	1/4	3,623.63	1/4	3,359.19	1/4	3,000.27	1/4	2,640.19	1/4	2,279.71
1/2	4,353.42	1/2	4,181.29	1/2	4,181.29	1/2	4,000.81	1/2	3,813.07	1/2	3,619.59	1/2	3,351.71	1/2	2,992.77	1/2	2,632.68	1/2	2,272.20
3/4	4,349.93	3/4	4,177.62	3/4	4,177.62	3/4	3,996.97	3/4	3,809.08	3/4	3,615.55	3/4	3,344.24	3/4	2,985.27	3/4	2,625.17	3/4	2,264.69
5	4,346.44	5	4,173.94	5	4,173.94	5	3,993.13	5	3,805.10	5	3,611.50	5	3,336.76	5	2,977.78	5	2,617.66	5	2,257.18
1/4	4,342.95	1/4	4,170.26	1/4	4,170.26	1/4	3,989.29	1/4	3,801.11	1/4	3,607.46	1/4	3,329.28	1/4	2,970.28	1/4	2,610.16	1/4	2,249.67
1/2	4,339.44	1/2	4,166.57	1/2	4,166.57	1/2	3,985.43	1/2	3,797.11	1/2	3,603.42	1/2	3,321.82	1/2	2,962.79	1/2	2,602.65	1/2	2,242.16
3/4	4,335.94	3/4	4,162.88	3/4	4,162.88	3/4	3,981.58	3/4	3,793.11	3/4	3,599.38	3/4	3,314.36	3/4	2,955.29	3/4	2,595.14	3/4	2,234.65
6	4,332.44	6	4,159.19	6	4,159.19	6	3,977.73	6	3,789.11	6	3,595.33	6	3,306.90	6	2,947.79	6	2,587.63	6	2,227.14
1/4	4,328.93	1/4	4,155.50	1/4	4,155.50	1/4	3,973.88	1/4	3,785.11	1/4	3,591.29	1/4	3,299.44	1/4	2,940.30	1/4	2,580.11	1/4	2,219.63
1/2	4,325.42	1/2	4,151.79	1/2	4,151.79	1/2	3,970.01	1/2	3,781.09	1/2	3,587.25	1/2	3,291.98	1/2	2,932.80	1/2	2,572.60	1/2	2,212.11
3/4	4,321.90	3/4	4,148.09	3/4	4,148.09	3/4	3,966.15	3/4	3,777.08	3/4	3,583.21	3/4	3,284.51	3/4	2,925.31	3/4	2,565.09	3/4	2,204.60
7	4,318.38	7	4,144.39	7	4,144.39	7	3,962.28	7	3,773.07	7	3,579.17	7	3,277.05	7	2,917.81	7	2,557.58	7	2,197.09
1/4	4,314.87	1/4	4,140.68	1/4	4,140.68	1/4	3,958.42	1/4	3,769.05	1/4	3,575.12	1/4	3,269.59	1/4	2,910.31	1/4	2,550.07	1/4	2,189.58
1/2	4,311.34	1/2	4,136.95	1/2	4,136.95	1/2	3,954.54	1/2	3,765.03	1/2	3,571.08	1/2	3,262.13	1/2	2,902.82	1/2	2,542.56	1/2	2,182.07
3/4	4,307.81	3/4	4,133.22	3/4	4,133.22	3/4	3,950.66	3/4	3,761.00	3/4	3,567.04	3/4	3,254.67	3/4	2,895.32	3/4	2,535.05	3/4	2,174.56
8	4,304.28	8	4,129.49	8	4,129.49	8	3,946.78	8	3,756.98	8	3,563.00	8	3,247.21	8	2,887.83	8	2,527.54	8	2,167.05
1/4	4,300.75	1/4	4,125.76	1/4	4,125.76	1/4	3,942.91	1/4	3,752.95	1/4	3,558.96	1/4	3,239.74	1/4	2,880.33	1/4	2,520.03	1/4	2,159.54
1/2	4,297.21	1/2	4,122.02	1/2	4,122.02	1/2	3,939.02	1/2	3,748.88	1/2	3,554.91	1/2	3,232.28	1/2	2,872.83	1/2	2,512.52	1/2	2,152.03
3/4	4,293.66	3/4	4,118.28	3/4	4,118.28	3/4	3,935.13	3/4	3,744.82	3/4	3,550.87	3/4	3,224.82	3/4	2,865.34	3/4	2,505.01	3/4	2,144.52
9	4,290.12	9	4,114.54	9	4,114.54	9	3,931.24	9	3,740.84	9	3,546.83	9	3,217.36	9	2,857.84	9	2,497.50	9	2,137.01
1/4	4,286.57	1/4	4,110.80	1/4	4,110.80	1/4	3,927.35	1/4	3,736.81	1/4	3,542.79	1/4	3,209.90	1/4	2,850.35	1/4	2,489.99	1/4	2,129.50
1/2	4,282.98	1/2	4,107.04	1/2	4,107.04	1/2	3,923.45	1/2	3,732.77	1/2	3,538.75	1/2	3,202.44	1/2	2,842.85	1/2	2,482.48	1/2	2,121.99
3/4	4,279.39	3/4	4,103.29	3/4	4,103.29	3/4	3,919.54	3/4	3,728.72	3/4	3,534.70	3/4	3,194.97	3/4	2,835.35	3/4	2,474.97	3/4	2,114.48
10	4,275.80	10	4,099.53	10	4,099.53	10	3,915.54	10	3,724.68	10	3,530.66	10	3,187.51	10	2,827.86	10	2,467.46	10	2,106.97
1/4	4,272.21	1/4	4,095.78	1/4	4,095.78	1/4	3,911.74	1/4	3,720.64	1/4	3,526.62	1/4	3,180.05	1/4	2,820.36	1/4	2,459.95	1/4	2,099.46
1/2	4,268.60	1/2	4,092.01	1/2	4,092.01	1/2	3,907.83	1/2	3,716.56	1/2	3,522.15	1/2	3,175.12	1/2	2,812.86	1/2	2,452.44	1/2	2,091.95
3/4	4,265.00	3/4	4,088.25	3/4	4,088.25	3/4	3,903.91	3/4	3,712.56	3/4	3,517.68	3/4	3,165.58	3/4	2,805.37	3/4	2,445.92	3/4	2,084.44
11	4,261.39	11	4,084.48	11	4,084.48	11	3,900.00	11	3,708.51	11	3,513.20	11	3,157.65	11	2,797.87	11	2,437.42	11	2,076.93
1/4	4,257.79	1/4	4,080.72	1/4	4,080.72	1/4	3,896.08	1/4	3,704.47	1/4	3,508.73	1/4	3,150.19	1/4	2,790.37	1/4	2,429.91	1/4	2,069.42
1/2	4,254.17	1/2	4,076.94	1/2	4,076.94	1/2	3,892.16	1/2	3,700.43	1/2	3,501.26	1/2	3,142.69	1/2	2,782.86	1/2	2,422.40	1/2	2,061.91
3/4	4,250.56	3/4	4,073.16	3/4	4,073.16	3/4	3,888.23	3/4	3,696.39	3/4	3,493.78	3/4	3,135.19	3/4	2,775.35	3/4	2,414.89	3/4	2,054.40

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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

PRECISION MEASUREMENT

& ANALYSIS, INC.

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BARGE "EMS 522"

3 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	2,046.88	0	1,686.31	0	1,325.74	0	965.48	0	604.98	0	244.42	0		0		0		0	
1/4	2,039.37	1/4	1,678.80	1/4	1,318.23	1/4	957.98	1/4	597.47	1/4	236.91	1/4		1/4		1/4		1/4	
1/2	2,031.86	1/2	1,671.29	1/2	1,310.72	1/2	950.47	1/2	589.96	1/2	229.40	1/2		1/2		1/2		1/2	
3/4	2,024.35	3/4	1,663.78	3/4	1,303.21	3/4	942.97	3/4	582.45	3/4	221.89	3/4		3/4		3/4		3/4	
1	2,016.84	1	1,656.27	1	1,295.69	1	935.47	1	574.93	1	214.38	1		1		1		1	
1/4	2,009.33	1/4	1,648.75	1/4	1,288.18	1/4	927.96	1/4	567.42	1/4	206.87	1/4		1/4		1/4		1/4	
1/2	2,001.81	1/2	1,641.24	1/2	1,280.67	1/2	920.46	1/2	559.91	1/2	199.35	1/2		1/2		1/2		1/2	
3/4	1,994.30	3/4	1,633.73	3/4	1,273.16	3/4	912.95	3/4	552.40	3/4	191.84	3/4		3/4		3/4		3/4	
2	1,986.79	2	1,626.22	2	1,265.65	2	905.44	2	544.89	2	184.33	2		2		2		2	
1/4	1,979.28	1/4	1,618.71	1/4	1,258.14	1/4	897.93	1/4	537.38	1/4	176.82	1/4		1/4		1/4		1/4	
1/2	1,971.77	1/2	1,611.19	1/2	1,250.62	1/2	890.42	1/2	529.86	1/2	169.31	1/2		1/2		1/2		1/2	
3/4	1,964.25	3/4	1,603.68	3/4	1,243.11	3/4	882.91	3/4	522.35	3/4	161.80	3/4		3/4		3/4		3/4	
3	1,956.74	3	1,596.17	3	1,235.60	3	875.40	3	514.84	3	154.28	3		3		3		3	
1/4	1,949.23	1/4	1,588.66	1/4	1,228.09	1/4	867.89	1/4	507.33	1/4	146.77	1/4		1/4		1/4		1/4	
1/2	1,941.72	1/2	1,581.15	1/2	1,220.58	1/2	860.37	1/2	499.82	1/2	139.26	1/2		1/2		1/2		1/2	
3/4	1,934.21	3/4	1,573.63	3/4	1,213.07	3/4	852.86	3/4	492.31	3/4	131.75	3/4		3/4		3/4		3/4	
4	1,926.69	4	1,566.12	4	1,205.56	4	845.35	4	484.79	4	124.24	4		4		4		4	
1/4	1,919.18	1/4	1,558.61	1/4	1,198.06	1/4	837.84	1/4	477.28	1/4	116.73	1/4		1/4		1/4		1/4	
1/2	1,911.67	1/2	1,551.10	1/2	1,190.55	1/2	830.33	1/2	469.77	1/2	109.29	1/2		1/2		1/2		1/2	
3/4	1,904.16	3/4	1,543.59	3/4	1,183.05	3/4	822.82	3/4	462.26	3/4	101.86	3/4		3/4		3/4		3/4	
5	1,896.65	5	1,536.08	5	1,175.55	5	815.31	5	454.75	5	94.43	5		5		5		5	
1/4	1,889.13	1/4	1,528.56	1/4	1,168.05	1/4	807.79	1/4	447.24	1/4	86.99	1/4		1/4		1/4		1/4	
1/2	1,881.62	1/2	1,521.05	1/2	1,160.54	1/2	800.28	1/2	439.73	1/2	80.26	1/2		1/2		1/2		1/2	
3/4	1,874.11	3/4	1,513.54	3/4	1,153.04	3/4	792.77	3/4	432.21	3/4	73.53	3/4		3/4		3/4		3/4	
6	1,866.60	6	1,506.03	6	1,145.54	6	785.26	6	424.70	6	66.81	6		6		6		6	
1/4	1,859.09	1/4	1,498.52	1/4	1,138.04	1/4	777.75	1/4	417.19	1/4	60.08	1/4		1/4		1/4		1/4	
1/2	1,851.58	1/2	1,491.00	1/2	1,130.53	1/2	770.24	1/2	409.68	1/2	54.60	1/2		1/2		1/2		1/2	
3/4	1,844.06	3/4	1,483.49	3/4	1,123.03	3/4	762.72	3/4	402.17	3/4	49.12	3/4		3/4		3/4		3/4	
7	1,836.55	7	1,475.98	7	1,115.53	7	755.21	7	394.66	7	43.65	7		7		7		7	
1/4	1,829.04	1/4	1,468.47	1/4	1,108.03	1/4	747.70	1/4	387.14	1/4	38.17	1/4		1/4		1/4		1/4	
1/2	1,821.53	1/2	1,460.96	1/2	1,100.52	1/2	740.19	1/2	379.63	1/2	33.95	1/2		1/2		1/2		1/2	
3/4	1,814.02	3/4	1,453.44	3/4	1,093.02	3/4	732.68	3/4	372.12	3/4	29.72	3/4		3/4		3/4		3/4	
8	1,806.50	8	1,445.93	8	1,085.52	8	725.17	8	364.61	8	25.50	8		8		8		8	
1/4	1,798.99	1/4	1,438.42	1/4	1,078.02	1/4	717.65	1/4	357.10	1/4	21.27	1/4		1/4		1/4		1/4	
1/2	1,791.48	1/2	1,430.91	1/2	1,070.51	1/2	710.14	1/2	349.59	1/2		1/2		1/2		1/2		1/2	
3/4	1,783.97	3/4	1,423.40	3/4	1,063.01	3/4	702.63	3/4	342.07	3/4		3/4		3/4		3/4		3/4	
9	1,776.46	9	1,415.89	9	1,055.51	9	695.12	9	334.56	9		9		9		9		9	
1/4	1,768.94	1/4	1,408.37	1/4	1,048.01	1/4	687.61	1/4	327.05	1/4		1/4		1/4		1/4		1/4	
1/2	1,761.43	1/2	1,400.86	1/2	1,040.50	1/2	680.10	1/2	319.54	1/2		1/2		1/2		1/2		1/2	
3/4	1,753.92	3/4	1,393.35	3/4	1,033.00	3/4	672.58	3/4	312.03	3/4		3/4		3/4		3/4		3/4	
10	1,746.41	10	1,385.84	10	1,025.50	10	665.07	10	304.52	10		10		10		10		10	
1/4	1,738.90	1/4	1,378.33	1/4	1,018.00	1/4	657.56	1/4	297.00	1/4		1/4		1/4		1/4		1/4	
1/2	1,731.38	1/2	1,370.81	1/2	1,010.49	1/2	650.05	1/2	289.49	1/2		1/2		1/2		1/2		1/2	
3/4	1,723.87	3/4	1,363.30	3/4	1,002.99	3/4	642.54	3/4	281.98	3/4		3/4		3/4		3/4		3/4	
11	1,716.36	11	1,355.79	11	995.49	11	635.03	11	274.47	11		11		11		11		11	
1/4	1,708.85	1/4	1,348.28	1/4	987.99	1/4	627.52	1/4	266.96	1/4		1/4		1/4		1/4		1/4	
1/2	1,701.34	1/2	1,340.77	1/2	980.48	1/2	620.00	1/2	259.45	1/2		1/2		1/2		1/2		1/2	
3/4	1,693.83	3/4	1,333.25	3/4	972.98	3/4	612.49	3/4	251.94	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 05/19/2020 CL
CALCULATED: 05/20/2020 CL
PRINTED: 05/20/2020 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 05/19/2020

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BARGE "EMS 522"

3 STBD ULLAGE 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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/4	4,372.26	1/4	4,215.96	1/4	4,059.31	1/4	3,903.43	1/4	3,747.55	1/4	3,591.66	1/4	3,435.77	1/4	3,279.88	1/4	3,123.99	1/4	2,968.10
1/2	4,370.52	1/2	4,208.76	1/2	4,031.77	1/2	3,854.78	1/2	3,677.79	1/2	3,500.80	1/2	3,323.81	1/2	3,146.82	1/2	2,969.83	1/2	2,792.84
3/4	4,368.98	3/4	4,205.15	3/4	4,028.00	3/4	3,851.01	3/4	3,674.02	3/4	3,497.03	3/4	3,320.04	3/4	3,143.05	3/4	2,966.06	3/4	2,789.07
1	4,367.35	1	4,203.54	1	4,026.23	1	3,849.24	1	3,672.25	1	3,495.26	1	3,318.27	1	3,141.28	1	2,964.29	1	2,787.30
1/4	4,365.71	1/4	4,197.93	1/4	4,020.46	1/4	3,843.47	1/4	3,666.48	1/4	3,489.49	1/4	3,312.50	1/4	3,135.51	1/4	2,958.52	1/4	2,781.53
1/2	4,362.85	1/2	4,194.30	1/2	4,017.29	1/2	3,840.30	1/2	3,663.31	1/2	3,486.32	1/2	3,309.33	1/2	3,132.34	1/2	2,955.35	1/2	2,778.36
3/4	4,360.00	3/4	4,190.68	3/4	4,012.89	3/4	3,837.89	3/4	3,660.90	3/4	3,483.91	3/4	3,306.92	3/4	3,130.93	3/4	2,953.94	3/4	2,775.37
2	4,357.14	2	4,187.06	2	4,009.10	2	3,831.91	2	3,654.92	2	3,477.93	2	3,300.94	2	3,123.95	2	2,946.96	2	2,772.38
1/4	4,354.28	1/4	4,183.44	1/4	4,005.32	1/4	3,828.33	1/4	3,651.34	1/4	3,474.35	1/4	3,297.36	1/4	3,120.37	1/4	2,943.38	1/4	2,769.39
1/2	4,350.51	1/2	4,179.80	1/2	4,001.52	1/2	3,824.55	1/2	3,647.56	1/2	3,470.57	1/2	3,293.58	1/2	3,116.59	1/2	2,939.60	1/2	2,766.40
3/4	4,346.74	3/4	4,176.17	3/4	3,997.73	3/4	3,819.74	3/4	3,642.75	3/4	3,465.76	3/4	3,288.77	3/4	3,111.78	3/4	2,936.61	3/4	2,763.41
3	4,342.97	3	4,172.53	3	3,993.93	3	3,815.94	3	3,638.95	3	3,461.96	3	3,284.97	3	3,107.98	3	2,932.62	3	2,760.42
1/4	4,339.20	1/4	4,168.90	1/4	3,990.13	1/4	3,804.04	1/4	3,627.05	1/4	3,450.06	1/4	3,273.07	1/4	3,096.08	1/4	2,919.09	1/4	2,757.43
1/2	4,335.74	1/2	4,165.25	1/2	3,986.32	1/2	3,800.09	1/2	3,623.10	1/2	3,446.11	1/2	3,269.12	1/2	3,092.13	1/2	2,915.14	1/2	2,754.44
3/4	4,332.27	3/4	4,161.61	3/4	3,982.51	3/4	3,796.13	3/4	3,619.14	3/4	3,442.15	3/4	3,265.16	3/4	3,088.17	3/4	2,911.18	3/4	2,751.45
4	4,328.81	4	4,157.96	4	3,978.70	4	3,792.17	4	3,615.61	4	3,438.62	4	3,261.63	4	3,084.64	4	2,907.65	4	2,748.46
1/4	4,325.35	1/4	4,154.31	1/4	3,974.90	1/4	3,788.21	1/4	3,611.78	1/4	3,434.79	1/4	3,257.80	1/4	3,080.81	1/4	2,904.82	1/4	2,745.47
1/2	4,321.88	1/2	4,150.65	1/2	3,971.07	1/2	3,784.25	1/2	3,607.26	1/2	3,430.27	1/2	3,253.28	1/2	3,076.83	1/2	2,900.83	1/2	2,742.48
3/4	4,318.41	3/4	4,147.00	3/4	3,967.25	3/4	3,780.28	3/4	3,603.29	3/4	3,426.30	3/4	3,249.31	3/4	3,072.84	3/4	2,897.85	3/4	2,739.49
5	4,314.94	5	4,143.34	5	3,963.43	5	3,776.31	5	3,599.22	5	3,422.23	5	3,245.24	5	3,068.25	5	2,891.26	5	2,736.50
1/4	4,311.46	1/4	4,139.68	1/4	3,959.62	1/4	3,772.34	1/4	3,595.69	1/4	3,418.70	1/4	3,241.71	1/4	3,064.72	1/4	2,887.73	1/4	2,733.51
1/2	4,307.98	1/2	4,136.01	1/2	3,955.78	1/2	3,768.36	1/2	3,591.67	1/2	3,414.68	1/2	3,237.69	1/2	3,060.70	1/2	2,884.74	1/2	2,730.52
3/4	4,304.49	3/4	4,132.33	3/4	3,951.94	3/4	3,764.37	3/4	3,587.55	3/4	3,410.56	3/4	3,233.57	3/4	3,056.71	3/4	2,880.75	3/4	2,727.53
6	4,301.01	6	4,128.66	6	3,948.11	6	3,760.39	6	3,583.62	6	3,406.63	6	3,229.64	6	3,052.65	6	2,876.76	6	2,724.54
1/4	4,297.52	1/4	4,124.99	1/4	3,944.27	1/4	3,756.41	1/4	3,580.00	1/4	3,403.01	1/4	3,226.02	1/4	3,049.03	1/4	2,872.77	1/4	2,721.55
1/2	4,294.03	1/2	4,121.31	1/2	3,940.43	1/2	3,752.42	1/2	3,576.15	1/2	3,399.16	1/2	3,222.17	1/2	3,045.18	1/2	2,868.78	1/2	2,718.56
3/4	4,290.53	3/4	4,117.62	3/4	3,936.58	3/4	3,748.42	3/4	3,572.26	3/4	3,395.27	3/4	3,218.28	3/4	3,041.29	3/4	2,864.79	3/4	2,715.57
7	4,287.03	7	4,113.94	7	3,932.74	7	3,744.43	7	3,568.44	7	3,391.45	7	3,214.46	7	3,037.47	7	2,860.80	7	2,712.58
1/4	4,283.53	1/4	4,110.25	1/4	3,928.89	1/4	3,740.44	1/4	3,564.45	1/4	3,387.46	1/4	3,210.47	1/4	3,033.48	1/4	2,856.81	1/4	2,709.59
1/2	4,280.02	1/2	4,106.54	1/2	3,925.03	1/2	3,736.43	1/2	3,560.46	1/2	3,383.47	1/2	3,206.48	1/2	3,029.49	1/2	2,852.82	1/2	2,706.60
3/4	4,276.51	3/4	4,102.83	3/4	3,921.17	3/4	3,732.42	3/4	3,556.47	3/4	3,379.48	3/4	3,202.49	3/4	3,025.50	3/4	2,848.83	3/4	2,703.61
8	4,273.00	8	4,099.12	8	3,917.31	8	3,728.42	8	3,552.48	8	3,375.49	8	3,198.50	8	3,021.51	8	2,844.84	8	2,700.62
1/4	4,269.49	1/4	4,095.41	1/4	3,913.46	1/4	3,724.41	1/4	3,548.49	1/4	3,371.50	1/4	3,194.51	1/4	3,017.52	1/4	2,840.85	1/4	2,697.63
1/2	4,265.97	1/2	4,091.68	1/2	3,909.59	1/2	3,720.39	1/2	3,544.50	1/2	3,369.51	1/2	3,190.52	1/2	3,013.53	1/2	2,836.86	1/2	2,694.64
3/4	4,262.44	3/4	4,087.96	3/4	3,905.72	3/4	3,716.38	3/4	3,540.51	3/4	3,365.52	3/4	3,186.53	3/4	3,009.54	3/4	2,832.87	3/4	2,691.65
9	4,258.91	9	4,084.24	9	3,901.84	9	3,712.36	9	3,536.52	9	3,361.53	9	3,182.54	9	3,005.55	9	2,828.88	9	2,687.66
1/4	4,255.39	1/4	4,080.52	1/4	3,897.97	1/4	3,708.34	1/4	3,532.53	1/4	3,357.54	1/4	3,178.55	1/4	3,001.56	1/4	2,824.89	1/4	2,684.67
1/2	4,251.81	1/2	4,076.78	1/2	3,894.09	1/2	3,704.32	1/2	3,528.54	1/2	3,353.55	1/2	3,174.56	1/2	2,997.57	1/2	2,820.90	1/2	2,681.68
3/4	4,248.24	3/4	4,073.05	3/4	3,890.21	3/4	3,700.29	3/4	3,524.55	3/4	3,349.56	3/4	3,170.57	3/4	2,993.58	3/4	2,816.91	3/4	2,678.69
10	4,244.67	10	4,069.31	10	3,886.32	10	3,696.27	10	3,520.56	10	3,345.57	10	3,166.58	10	2,989.59	10	2,812.92	10	2,675.70
1/4	4,241.10	1/4	4,065.57	1/4	3,882.44	1/4	3,692.25	1/4	3,516.57	1/4	3,341.58	1/4	3,162.59	1/4	2,985.60	1/4	2,808.93	1/4	2,672.71
1/2	4,237.51	1/2	4,061.83	1/2	3,878.55	1/2	3,688.22	1/2	3,512.58	1/2	3,337.59	1/2	3,158.60	1/2	2,981.61	1/2	2,804.94	1/2	2,669.72
3/4	4,233.93	3/4	4,058.08	3/4	3,874.66	3/4	3,684.20	3/4	3,508.59	3/4	3,333.60	3/4	3,154.61	3/4	2,977.62	3/4	2,800.95	3/4	2,666.73
11	4,230.34	11	4,054.33	11	3,870.76	11	3,680.18	11	3,485.78	11	3,311.19	11	3,132.20	11	2,953.21	11	2,774.22	11	2,663.74
1/4	4,226.76	1/4	4,050.58	1/4	3,866.86	1/4	3,676.15	1/4	3,481.33	1/4	3,306.20	1/4	3,127.21	1/4	2,948.22	1/4	2,769.23	1/4	2,660.75
1/2	4,223.16	1/2	4,046.82	1/2	3,862.95	1/2	3,672.13	1/2	3,477.37	1/2	3,301.21	1/2	3,122.22	1/2	2,944.23	1/2	2,765.24	1/2	2,657.76
3/4	4,219.56	3/4	4,043.07	3/4	3,859.05	3/4	3,668.11	3/4	3,466.41	3/4	3,296.22	3/4	3,117.23	3/4	2,938.24	3/4	2,761.25	3/4	2,654.77

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP UP OF 2" DIAMETER "HERMETIC" VALVE.
GAUGE POINT: (HERMETIC) LOCATED 10'-06" OFF CENTERLINE AND 55'-03" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092
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BARGE "EMS 522"

3 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	2,023.58	0	1,663.97	0	1,305.81	0	966.80	0	603.59	0	243.88	0		0							
1/4	2,016.09	1/4	1,656.48	1/4	1,298.38	1/4	949.65	1/4	596.10	1/4	236.38	1/4		1/4		1/4	1/4	1/4	1/4		
1/2	2,008.60	1/2	1,648.98	1/2	1,290.95	1/2	942.49	1/2	588.60	1/2	228.89	1/2		1/2		1/2	1/2	1/2	1/2		
3/4	2,001.10	3/4	1,641.49	3/4	1,283.52	3/4	935.33	3/4	581.11	3/4	221.40	3/4		3/4		3/4	3/4	3/4	3/4		
1	1,993.61	1	1,634.00	1	1,276.09	1	928.18	1	573.61	1	213.90	1		1		1	1	1	1		
1/4	1,986.12	1/4	1,626.51	1/4	1,268.66	1/4	921.02	1/4	566.12	1/4	206.41	1/4		1/4		1/4	1/4	1/4	1/4		
1/2	1,978.63	1/2	1,619.02	1/2	1,261.23	1/2	913.86	1/2	558.63	1/2	198.91	1/2		1/2		1/2	1/2	1/2	1/2		
3/4	1,971.14	3/4	1,611.53	3/4	1,253.80	3/4	906.70	3/4	551.13	3/4	191.42	3/4		3/4		3/4	3/4	3/4	3/4		
2	1,963.64	2	1,604.03	2	1,246.38	2	899.54	2	543.64	2	183.93	2		2		2	2	2	2		
1/4	1,956.15	1/4	1,596.54	1/4	1,238.95	1/4	892.37	1/4	536.14	1/4	176.43	1/4		1/4		1/4	1/4	1/4	1/4		
1/2	1,948.66	1/2	1,589.05	1/2	1,231.53	1/2	885.19	1/2	528.65	1/2	168.94	1/2		1/2		1/2	1/2	1/2	1/2		
3/4	1,941.17	3/4	1,581.56	3/4	1,224.12	3/4	878.01	3/4	521.16	3/4	161.44	3/4		3/4		3/4	3/4	3/4	3/4		
3	1,933.68	3	1,574.07	3	1,216.71	3	870.83	3	513.66	3	153.95	3		3		3	3	3	3		
1/4	1,926.18	1/4	1,566.57	1/4	1,209.29	1/4	863.65	1/4	506.17	1/4	146.45	1/4		1/4		1/4	1/4	1/4	1/4		
1/2	1,918.69	1/2	1,559.08	1/2	1,201.88	1/2	856.46	1/2	498.67	1/2	138.95	1/2		1/2		1/2	1/2	1/2	1/2		
3/4	1,911.20	3/4	1,551.59	3/4	1,194.47	3/4	849.28	3/4	491.18	3/4	131.46	3/4		3/4		3/4	3/4	3/4	3/4		
4	1,903.71	4	1,544.10	4	1,187.05	4	842.09	4	483.69	4	123.96	4		4		4	4	4	4		
1/4	1,896.22	1/4	1,536.61	1/4	1,179.64	1/4	834.91	1/4	476.19	1/4	116.46	1/4		1/4		1/4	1/4	1/4	1/4		
1/2	1,888.73	1/2	1,529.11	1/2	1,172.23	1/2	827.66	1/2	468.70	1/2	109.04	1/2		1/2		1/2	1/2	1/2	1/2		
3/4	1,881.23	3/4	1,521.62	3/4	1,164.83	3/4	820.42	3/4	461.20	3/4	101.63	3/4		3/4		3/4	3/4	3/4	3/4		
5	1,873.74	5	1,514.13	5	1,157.42	5	813.17	5	453.71	5	94.21	5		5		5	5	5	5		
1/4	1,866.25	1/4	1,506.64	1/4	1,150.02	1/4	805.93	1/4	446.22	1/4	86.80	1/4		1/4		1/4	1/4	1/4	1/4		
1/2	1,858.76	1/2	1,499.15	1/2	1,142.86	1/2	798.43	1/2	438.72	1/2	80.09	1/2		1/2		1/2	1/2	1/2	1/2		
3/4	1,851.27	3/4	1,491.67	3/4	1,135.71	3/4	790.94	3/4	431.23	3/4	73.39	3/4		3/4		3/4	3/4	3/4	3/4		
6	1,843.77	6	1,484.19	6	1,128.55	6	783.45	6	423.73	6	66.69	6		6		6	6	6	6		
1/4	1,836.28	1/4	1,476.70	1/4	1,121.39	1/4	775.95	1/4	416.24	1/4	59.98	1/4		1/4		1/4	1/4	1/4	1/4		
1/2	1,828.79	1/2	1,469.27	1/2	1,114.24	1/2	768.46	1/2	408.75	1/2	54.52	1/2		1/2		1/2	1/2	1/2	1/2		
3/4	1,821.30	3/4	1,461.84	3/4	1,107.08	3/4	760.96	3/4	401.25	3/4	49.06	3/4		3/4		3/4	3/4	3/4	3/4		
7	1,813.81	7	1,454.41	7	1,099.92	7	753.47	7	393.76	7	43.60	7		7		7	7	7	7		
1/4	1,806.31	1/4	1,446.98	1/4	1,092.77	1/4	745.98	1/4	386.26	1/4	38.13	1/4		1/4		1/4	1/4	1/4	1/4		
1/2	1,798.82	1/2	1,439.55	1/2	1,085.61	1/2	738.48	1/2	378.77	1/2	33.91	1/2		1/2		1/2	1/2	1/2	1/2		
3/4	1,791.33	3/4	1,432.12	3/4	1,078.46	3/4	730.99	3/4	371.28	3/4	29.69	3/4		3/4		3/4	3/4	3/4	3/4		
8	1,783.84	8	1,424.69	8	1,071.30	8	723.49	8	363.78	8	25.47	8		8		8	8	8	8		
1/4	1,776.35	1/4	1,417.26	1/4	1,064.14	1/4	716.00	1/4	356.29	1/4	21.26	1/4		1/4		1/4	1/4	1/4	1/4		
1/2	1,768.85	1/2	1,409.83	1/2	1,056.99	1/2	708.51	1/2	348.79	1/2		1/2		1/2		1/2	1/2	1/2	1/2		
3/4	1,761.36	3/4	1,402.40	3/4	1,049.83	3/4	701.01	3/4	341.30	3/4		3/4		3/4		3/4	3/4	3/4	3/4		
9	1,753.87	9	1,394.97	9	1,042.68	9	693.52	9	333.81	9		9		9		9	9	9	9		
1/4	1,746.38	1/4	1,387.54	1/4	1,035.52	1/4	686.02	1/4	326.31	1/4		1/4		1/4		1/4	1/4	1/4	1/4		
1/2	1,738.89	1/2	1,380.11	1/2	1,028.36	1/2	678.53	1/2	318.82	1/2		1/2		1/2		1/2	1/2	1/2	1/2		
3/4	1,731.40	3/4	1,372.68	3/4	1,021.21	3/4	671.04	3/4	311.32	3/4		3/4		3/4		3/4	3/4	3/4	3/4		
10	1,723.90	10	1,365.25	10	1,014.05	10	663.54	10	303.83	10		10		10		10	10	10	10		
1/4	1,716.41	1/4	1,357.82	1/4	1,006.90	1/4	656.05	1/4	296.34	1/4		1/4		1/4		1/4	1/4	1/4	1/4		
1/2	1,708.92	1/2	1,350.39	1/2	999.74	1/2	648.55	1/2	288.84	1/2		1/2		1/2		1/2	1/2	1/2	1/2		
3/4	1,701.43	3/4	1,342.96	3/4	992.58	3/4	641.06	3/4	281.35	3/4		3/4		3/4		3/4	3/4	3/4	3/4		
11	1,693.94	11	1,335.53	11	985.43	11	633.57	11	273.85	11		11		11		11	11	11	11		
1/4	1,686.44	1/4	1,328.10	1/4	978.27	1/4	626.07	1/4	266.36	1/4		1/4		1/4		1/4	1/4	1/4	1/4		
1/2	1,678.95	1/2	1,320.67	1/2	971.12	1/2	618.58	1/2	258.87	1/2		1/2		1/2		1/2	1/2	1/2	1/2		
3/4	1,671.46	3/4	1,313.24	3/4	963.96	3/4	611.08	3/4	251.37	3/4		3/4		3/4		3/4	3/4	3/4	3/4		

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 05/19/2020 CL
CALCULATED: 05/20/2020 CL
PRINTED: 05/20/2020 CL
CANCELS AND SUPERCEDES
ALL PRIOR TO 05/2020

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