



BARGE "EMS 516B"

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

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

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

THE CORRECTION FOR 2'-00" TRIM DOWN BY STERN FOR 1 PORT IS 00-1/8"
 FOR A MEASURED ULLAGE GAUGE OF 4'-00" ON 1 PORT, THE TRIM CORRECTED ULLAGE IS 4'-00 1/8"

LENGTH BETWEEN DRAFT MARKS: 284'-06"

April 23, 2020

**PRECISION MEASUREMENT
& ANALYSIS, INC.**

P.O. Box 2092
 Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "EMS 516B"

1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08 1/4"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT
0		0		0	4,933.35	0	4,597.33	0	4,242.14	0	3,878.48	0	3,514.82	0	3,151.16	0	2,787.50	0	2,423.76
1/4		1/4	5,260.38	1/4	4,926.56	1/4	4,590.14	1/4	4,234.57	1/4	3,870.91	1/4	3,507.24	1/4	3,143.58	1/4	2,779.92	1/4	2,416.18
1/2		1/2	5,255.25	1/2	4,919.74	1/2	4,582.90	1/2	4,226.99	1/2	3,863.33	1/2	3,499.67	1/2	3,136.01	1/2	2,772.34	1/2	2,408.60
3/4		3/4	5,250.11	3/4	4,912.92	3/4	4,575.67	3/4	4,219.42	3/4	3,855.75	3/4	3,492.09	3/4	3,128.43	3/4	2,764.77	3/4	2,401.02
1		1	5,244.98	1	4,906.09	1	4,568.44	1	4,211.84	1	3,848.18	1	3,484.52	1	3,120.85	1	2,757.19	1	2,393.45
1/4		1/4	5,239.84	1/4	4,899.27	1/4	4,561.20	1/4	4,204.26	1/4	3,840.60	1/4	3,476.94	1/4	3,113.28	1/4	2,749.61	1/4	2,385.87
1/2		1/2	5,233.49	1/2	4,892.42	1/2	4,553.94	1/2	4,196.69	1/2	3,833.02	1/2	3,469.36	1/2	3,105.70	1/2	2,742.04	1/2	2,378.29
3/4		3/4	5,227.14	3/4	4,885.57	3/4	4,546.67	3/4	4,189.11	3/4	3,825.45	3/4	3,461.79	3/4	3,098.12	3/4	2,734.46	3/4	2,370.71
2		2	5,220.79	2	4,878.72	2	4,539.40	2	4,181.53	2	3,817.87	2	3,454.21	2	3,090.55	2	2,726.89	2	2,363.13
1/4		1/4	5,214.43	1/4	4,871.87	1/4	4,532.14	1/4	4,173.96	1/4	3,810.30	1/4	3,446.63	1/4	3,082.97	1/4	2,719.31	1/4	2,355.55
1/2		1/2	5,207.09	1/2	4,864.98	1/2	4,524.84	1/2	4,166.38	1/2	3,802.72	1/2	3,439.06	1/2	3,075.39	1/2	2,711.73	1/2	2,347.97
3/4		3/4	5,199.75	3/4	4,858.10	3/4	4,517.54	3/4	4,158.81	3/4	3,795.14	3/4	3,431.48	3/4	3,067.82	3/4	2,704.16	3/4	2,340.39
3		3	5,192.41	3	4,851.22	3	4,510.25	3	4,151.23	3	3,787.57	3	3,423.90	3	3,060.24	3	2,696.58	3	2,332.81
1/4		1/4	5,185.07	1/4	4,844.33	1/4	4,502.95	1/4	4,143.65	1/4	3,779.99	1/4	3,416.33	1/4	3,052.67	1/4	2,689.00	1/4	2,325.23
1/2		1/2	5,177.60	1/2	4,837.42	1/2	4,495.62	1/2	4,136.08	1/2	3,772.41	1/2	3,408.75	1/2	3,045.09	1/2	2,681.43	1/2	2,317.65
3/4		3/4	5,170.12	3/4	4,830.50	3/4	4,488.29	3/4	4,128.50	3/4	3,764.84	3/4	3,401.18	3/4	3,037.51	3/4	2,673.85	3/4	2,310.08
4		4	5,162.64	4	4,823.58	4	4,480.97	4	4,120.92	4	3,757.26	4	3,393.60	4	3,029.94	4	2,666.27	4	2,302.50
1/4		1/4	5,155.16	1/4	4,816.67	1/4	4,473.64	1/4	4,113.35	1/4	3,749.69	1/4	3,386.02	1/4	3,022.36	1/4	2,658.70	1/4	2,294.92
1/2		1/2	5,147.68	1/2	4,809.72	1/2	4,466.28	1/2	4,105.77	1/2	3,742.11	1/2	3,378.45	1/2	3,014.78	1/2	2,651.12	1/2	2,287.34
3/4		3/4	5,140.21	3/4	4,802.77	3/4	4,458.92	3/4	4,098.20	3/4	3,734.53	3/4	3,370.87	3/4	3,007.21	3/4	2,643.55	3/4	2,279.76
5		5	5,132.73	5	4,795.82	5	4,451.55	5	4,090.62	5	3,726.96	5	3,363.29	5	2,999.63	5	2,635.97	5	2,272.18
1/4		1/4	5,125.25	1/4	4,788.87	1/4	4,444.19	1/4	4,083.04	1/4	3,719.38	1/4	3,355.72	1/4	2,992.06	1/4	2,628.40	1/4	2,264.60
1/2		1/2	5,117.77	1/2	4,781.89	1/2	4,436.80	1/2	4,075.47	1/2	3,711.80	1/2	3,348.14	1/2	2,984.48	1/2	2,620.82	1/2	2,257.02
3/4		3/4	5,110.30	3/4	4,774.91	3/4	4,429.40	3/4	4,067.89	3/4	3,704.23	3/4	3,340.57	3/4	2,976.90	3/4	2,613.24	3/4	2,249.44
6		6	5,102.82	6	4,767.93	6	4,422.01	6	4,060.31	6	3,696.65	6	3,332.99	6	2,969.33	6	2,605.66	6	2,241.86
1/4		1/4	5,095.34	1/4	4,760.94	1/4	4,414.61	1/4	4,052.74	1/4	3,689.08	1/4	3,325.41	1/4	2,961.75	1/4	2,598.08	1/4	2,234.28
1/2		1/2	5,087.86	1/2	4,753.93	1/2	4,407.19	1/2	4,045.16	1/2	3,681.50	1/2	3,317.84	1/2	2,954.17	1/2	2,590.50	1/2	2,226.71
3/4		3/4	5,080.39	3/4	4,746.92	3/4	4,399.76	3/4	4,037.58	3/4	3,673.92	3/4	3,310.26	3/4	2,946.60	3/4	2,582.92	3/4	2,219.13
7		7	5,072.91	7	4,739.90	7	4,392.34	7	4,030.01	7	3,666.35	7	3,302.68	7	2,939.02	7	2,575.34	7	2,211.55
1/4		1/4	5,065.43	1/4	4,732.89	1/4	4,384.91	1/4	4,022.43	1/4	3,658.77	1/4	3,295.11	1/4	2,931.45	1/4	2,567.76	1/4	2,203.97
1/2		1/2	5,058.00	1/2	4,725.81	1/2	4,377.46	1/2	4,014.86	1/2	3,651.19	1/2	3,287.53	1/2	2,923.87	1/2	2,560.19	1/2	2,196.39
3/4		3/4	5,050.58	3/4	4,718.74	3/4	4,370.00	3/4	4,007.28	3/4	3,643.62	3/4	3,279.95	3/4	2,916.29	3/4	2,552.61	3/4	2,188.81
8		8	5,043.15	8	4,711.66	8	4,362.54	8	3,999.70	8	3,636.04	8	3,272.38	8	2,908.72	8	2,545.03	8	2,181.23
1/4		1/4	5,035.73	1/4	4,704.59	1/4	4,355.09	1/4	3,992.13	1/4	3,628.46	1/4	3,264.80	1/4	2,901.14	1/4	2,537.45	1/4	2,173.65
1/2		1/2	5,028.71	1/2	4,697.48	1/2	4,347.60	1/2	3,984.55	1/2	3,620.89	1/2	3,257.23	1/2	2,893.56	1/2	2,529.87	1/2	2,166.07
3/4		3/4	5,021.70	3/4	4,690.37	3/4	4,340.12	3/4	3,976.97	3/4	3,613.31	3/4	3,249.65	3/4	2,885.99	3/4	2,522.29	3/4	2,158.49
9		9	5,014.69	9	4,683.27	9	4,332.63	9	3,969.40	9	3,605.74	9	3,242.07	9	2,878.41	9	2,514.71	9	2,150.91
1/4		1/4	5,007.67	1/4	4,676.16	1/4	4,325.14	1/4	3,961.82	1/4	3,598.16	1/4	3,234.50	1/4	2,870.83	1/4	2,507.13	1/4	2,143.34
1/2		1/2	5,000.94	1/2	4,669.02	1/2	4,317.62	1/2	3,954.25	1/2	3,590.58	1/2	3,226.92	1/2	2,863.26	1/2	2,499.55	1/2	2,135.76
3/4		3/4	4,994.22	3/4	4,661.88	3/4	4,310.10	3/4	3,946.67	3/4	3,583.01	3/4	3,219.34	3/4	2,855.68	3/4	2,491.97	3/4	2,128.18
10		10	4,987.49	10	4,654.74	10	4,302.58	10	3,939.09	10	3,575.43	10	3,211.77	10	2,848.11	10	2,484.39	10	2,120.60
1/4		1/4	4,980.77	1/4	4,647.60	1/4	4,295.06	1/4	3,931.52	1/4	3,567.85	1/4	3,204.19	1/4	2,840.53	1/4	2,476.82	1/4	2,113.02
1/2		1/2	4,974.01	1/2	4,640.44	1/2	4,287.51	1/2	3,923.94	1/2	3,560.28	1/2	3,196.62	1/2	2,832.95	1/2	2,469.24	1/2	2,105.44
3/4		3/4	4,967.25	3/4	4,633.27	3/4	4,279.96	3/4	3,916.36	3/4	3,552.70	3/4	3,189.04	3/4	2,825.38	3/4	2,461.66	3/4	2,097.86
11		11	4,960.49	11	4,626.10	11	4,272.40	11	3,908.79	11	3,545.13	11	3,181.46	11	2,817.80	11	2,454.08	11	2,090.28
1/4		1/4	4,953.73	1/4	4,618.93	1/4	4,264.85	1/4	3,901.21	1/4	3,537.55	1/4	3,173.89	1/4	2,810.22	1/4	2,446.50	1/4	2,082.70
1/2		1/2	4,946.93	1/2	4,611.73	1/2	4,257.28	1/2	3,893.64	1/2	3,529.97	1/2	3,166.31	1/2	2,802.65	1/2	2,438.92	1/2	2,075.12
3/4		3/4	4,940.14	3/4	4,604.53	3/4	4,249.71	3/4	3,886.06	3/4	3,522.40	3/4	3,158.73	3/4	2,795.07	3/4	2,431.34	3/4	2,067.54

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.

CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.

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

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

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

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BARGE "EMS 516B"

1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08 1/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,059.97	0	1,696.17	0	1,332.37	0	969.01	0	605.29	0	244.98	0		0		0		0	
1/4	2,052.39	1/4	1,688.59	1/4	1,324.79	1/4	961.45	1/4	597.71	1/4	237.55	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,044.81	1/2	1,681.01	1/2	1,317.21	1/2	953.88	1/2	590.13	1/2	230.12	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,037.23	3/4	1,673.43	3/4	1,309.63	3/4	946.31	3/4	582.55	3/4	222.69	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	2,029.65	1	1,665.85	1	1,302.06	1	938.74	1	574.97	1	215.26	1	1	1	1	1	1	1	1
1/4	2,022.07	1/4	1,658.27	1/4	1,294.48	1/4	931.17	1/4	567.39	1/4	207.83	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,014.49	1/2	1,650.69	1/2	1,286.90	1/2	923.60	1/2	559.81	1/2	200.38	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,006.91	3/4	1,643.11	3/4	1,279.32	3/4	916.02	3/4	552.23	3/4	192.94	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	1,999.33	2	1,635.54	2	1,271.74	2	908.44	2	544.66	2	185.49	2	2	2	2	2	2	2	2
1/4	1,991.75	1/4	1,627.96	1/4	1,264.16	1/4	900.86	1/4	537.08	1/4	178.04	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,984.17	1/2	1,620.38	1/2	1,256.58	1/2	893.28	1/2	529.50	1/2	170.48	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,976.59	3/4	1,612.80	3/4	1,249.00	3/4	885.70	3/4	521.92	3/4	162.91	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	1,969.02	3	1,605.22	3	1,241.42	3	878.12	3	514.34	3	155.35	3	3	3	3	3	3	3	3
1/4	1,961.44	1/4	1,597.64	1/4	1,233.85	1/4	870.54	1/4	506.76	1/4	147.78	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,953.86	1/2	1,590.06	1/2	1,226.28	1/2	862.97	1/2	499.18	1/2	140.22	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,946.28	3/4	1,582.48	3/4	1,218.71	3/4	855.39	3/4	491.60	3/4	132.66	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	1,938.70	4	1,574.90	4	1,211.15	4	847.81	4	484.03	4	125.09	4	4	4	4	4	4	4	4
1/4	1,931.12	1/4	1,567.32	1/4	1,203.58	1/4	840.23	1/4	476.45	1/4	117.53	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,923.54	1/2	1,559.74	1/2	1,196.01	1/2	832.65	1/2	468.87	1/2	110.04	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,915.96	3/4	1,552.17	3/4	1,188.45	3/4	825.07	3/4	461.29	3/4	102.56	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	1,908.38	5	1,544.59	5	1,180.88	5	817.49	5	453.71	5	95.07	5	5	5	5	5	5	5	5
1/4	1,900.80	1/4	1,537.01	1/4	1,173.31	1/4	809.91	1/4	446.13	1/4	87.59	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,893.22	1/2	1,529.43	1/2	1,165.75	1/2	802.34	1/2	438.57	1/2	80.81	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,885.65	3/4	1,521.85	3/4	1,158.18	3/4	794.76	3/4	431.01	3/4	74.04	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	1,878.07	6	1,514.27	6	1,150.61	6	787.18	6	423.45	6	67.27	6	6	6	6	6	6	6	6
1/4	1,870.49	1/4	1,506.69	1/4	1,143.05	1/4	779.60	1/4	415.89	1/4	60.49	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,862.91	1/2	1,499.11	1/2	1,135.48	1/2	772.02	1/2	408.46	1/2	54.98	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,855.33	3/4	1,491.53	3/4	1,127.91	3/4	764.44	3/4	401.03	3/4	49.47	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	1,847.75	7	1,483.95	7	1,120.35	7	756.86	7	393.60	7	43.96	7	7	7	7	7	7	7	7
1/4	1,840.17	1/4	1,476.37	1/4	1,112.78	1/4	749.28	1/4	386.17	1/4	38.45	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,832.59	1/2	1,468.80	1/2	1,105.21	1/2	741.70	1/2	378.74	1/2	34.20	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,825.01	3/4	1,461.22	3/4	1,097.65	3/4	734.13	3/4	371.31	3/4	29.95	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	1,817.43	8	1,453.64	8	1,090.08	8	726.55	8	363.87	8	25.70	8	8	8	8	8	8	8	8
1/4	1,809.85	1/4	1,446.06	1/4	1,082.51	1/4	718.97	1/4	356.44	1/4	21.46	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,802.28	1/2	1,438.48	1/2	1,074.95	1/2	711.39	1/2	349.01	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,794.70	3/4	1,430.90	3/4	1,067.38	3/4	703.81	3/4	341.58	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	1,787.12	9	1,423.32	9	1,059.81	9	696.23	9	334.15	9		9	9	9	9	9	9	9	9
1/4	1,779.54	1/4	1,415.74	1/4	1,052.25	1/4	688.65	1/4	326.72	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,771.96	1/2	1,408.16	1/2	1,044.68	1/2	681.07	1/2	319.29	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,764.38	3/4	1,400.58	3/4	1,037.11	3/4	673.50	3/4	311.86	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	1,756.80	10	1,393.00	10	1,029.55	10	665.92	10	304.43	10		10	10	10	10	10	10	10	10
1/4	1,749.22	1/4	1,385.43	1/4	1,021.98	1/4	658.34	1/4	297.00	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,741.64	1/2	1,377.85	1/2	1,014.41	1/2	650.76	1/2	289.57	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,734.06	3/4	1,370.27	3/4	1,006.85	3/4	643.18	3/4	282.14	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	1,726.48	11	1,362.69	11	999.28	11	635.60	11	274.71	11		11	11	11	11	11	11	11	11
1/4	1,718.91	1/4	1,355.11	1/4	991.71	1/4	628.02	1/4	267.28	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,711.33	1/2	1,347.53	1/2	984.15	1/2	620.44	1/2	259.84	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,703.75	3/4	1,339.95	3/4	976.58	3/4	612.87	3/4	252.41	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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

PRECISION MEASUREMENT
& ANALYSIS, INC.
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CANCELS AND SUPERCEDES
ALL PRIOR TO 04/2020



BARGE "EMS 516B"

1 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08 1/4"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT
0		0		0	4,926.28	0	4,590.61	0	4,235.76	0	3,872.47	0	3,509.18	0	3,145.89	0	2,782.60	0	2,419.41
1/4		1/4	5,252.97	1/4	4,919.50	1/4	4,583.42	1/4	4,228.20	1/4	3,864.90	1/4	3,501.61	1/4	3,138.32	1/4	2,775.03	1/4	2,411.84
1/2		1/2	5,247.84	1/2	4,912.68	1/2	4,576.19	1/2	4,220.63	1/2	3,857.34	1/2	3,494.04	1/2	3,130.75	1/2	2,767.47	1/2	2,404.27
3/4		3/4	5,242.71	3/4	4,905.87	3/4	4,568.97	3/4	4,213.06	3/4	3,849.77	3/4	3,486.47	3/4	3,123.18	3/4	2,759.92	3/4	2,396.70
1		1	5,237.58	1	4,899.05	1	4,561.74	1	4,205.49	1	3,842.20	1	3,478.91	1	3,115.61	1	2,752.36	1	2,389.13
1/4		1/4	5,232.45	1/4	4,892.24	1/4	4,554.52	1/4	4,197.92	1/4	3,834.63	1/4	3,471.34	1/4	3,108.04	1/4	2,744.81	1/4	2,381.56
1/2		1/2	5,226.11	1/2	4,885.40	1/2	4,547.26	1/2	4,190.35	1/2	3,827.06	1/2	3,463.77	1/2	3,100.48	1/2	2,737.25	1/2	2,373.98
3/4		3/4	5,219.76	3/4	4,878.55	3/4	4,540.00	3/4	4,182.79	3/4	3,819.49	3/4	3,456.20	3/4	3,092.91	3/4	2,729.69	3/4	2,366.41
2		2	5,213.42	2	4,871.71	2	4,532.74	2	4,175.22	2	3,811.92	2	3,448.63	2	3,085.34	2	2,722.14	2	2,358.84
1/4		1/4	5,207.07	1/4	4,864.86	1/4	4,525.48	1/4	4,167.65	1/4	3,804.36	1/4	3,441.06	1/4	3,077.77	1/4	2,714.58	1/4	2,351.27
1/2		1/2	5,199.74	1/2	4,857.99	1/2	4,518.19	1/2	4,160.08	1/2	3,796.79	1/2	3,433.49	1/2	3,070.20	1/2	2,707.02	1/2	2,343.70
3/4		3/4	5,192.41	3/4	4,851.11	3/4	4,510.90	3/4	4,152.51	3/4	3,789.22	3/4	3,425.93	3/4	3,062.63	3/4	2,699.47	3/4	2,336.13
3		3	5,185.08	3	4,844.23	3	4,503.61	3	4,144.94	3	3,781.65	3	3,418.36	3	3,055.06	3	2,691.91	3	2,328.56
1/4		1/4	5,177.75	1/4	4,837.36	1/4	4,496.32	1/4	4,137.37	1/4	3,774.08	1/4	3,410.79	1/4	3,047.50	1/4	2,684.36	1/4	2,320.98
1/2		1/2	5,170.28	1/2	4,830.45	1/2	4,489.00	1/2	4,129.81	1/2	3,766.51	1/2	3,403.22	1/2	3,039.93	1/2	2,676.80	1/2	2,313.41
3/4		3/4	5,162.81	3/4	4,823.54	3/4	4,481.68	3/4	4,122.24	3/4	3,758.94	3/4	3,395.65	3/4	3,032.36	3/4	2,669.24	3/4	2,305.84
4		4	5,155.34	4	4,816.63	4	4,474.36	4	4,114.67	4	3,751.38	4	3,388.08	4	3,024.79	4	2,661.68	4	2,298.27
1/4		1/4	5,147.87	1/4	4,809.72	1/4	4,467.04	1/4	4,107.10	1/4	3,743.81	1/4	3,380.51	1/4	3,017.22	1/4	2,654.12	1/4	2,290.70
1/2		1/2	5,140.40	1/2	4,802.78	1/2	4,459.69	1/2	4,099.53	1/2	3,736.24	1/2	3,372.95	1/2	3,009.65	1/2	2,646.55	1/2	2,283.13
3/4		3/4	5,132.93	3/4	4,795.83	3/4	4,452.33	3/4	4,091.96	3/4	3,728.67	3/4	3,365.38	3/4	3,002.08	3/4	2,638.98	3/4	2,275.56
5		5	5,125.46	5	4,788.89	5	4,444.98	5	4,084.39	5	3,721.10	5	3,357.81	5	2,994.52	5	2,631.41	5	2,267.98
1/4		1/4	5,117.99	1/4	4,781.95	1/4	4,437.63	1/4	4,076.82	1/4	3,713.53	1/4	3,350.24	1/4	2,986.95	1/4	2,623.84	1/4	2,260.41
1/2		1/2	5,110.52	1/2	4,774.97	1/2	4,430.24	1/2	4,069.26	1/2	3,705.96	1/2	3,342.67	1/2	2,979.38	1/2	2,616.27	1/2	2,252.84
3/4		3/4	5,103.05	3/4	4,768.00	3/4	4,422.85	3/4	4,061.69	3/4	3,698.39	3/4	3,335.10	3/4	2,971.81	3/4	2,608.70	3/4	2,245.27
6		6	5,095.58	6	4,761.03	6	4,415.46	6	4,054.12	6	3,690.83	6	3,327.53	6	2,964.24	6	2,601.13	6	2,237.70
1/4		1/4	5,088.11	1/4	4,754.05	1/4	4,408.07	1/4	4,046.55	1/4	3,683.26	1/4	3,319.96	1/4	2,956.67	1/4	2,593.55	1/4	2,230.13
1/2		1/2	5,080.64	1/2	4,747.05	1/2	4,400.66	1/2	4,038.98	1/2	3,675.69	1/2	3,312.40	1/2	2,949.10	1/2	2,585.98	1/2	2,222.56
3/4		3/4	5,073.17	3/4	4,740.04	3/4	4,393.24	3/4	4,031.41	3/4	3,668.12	3/4	3,304.83	3/4	2,941.53	3/4	2,578.41	3/4	2,214.98
7		7	5,065.70	7	4,733.03	7	4,385.82	7	4,023.84	7	3,660.55	7	3,297.26	7	2,933.97	7	2,570.84	7	2,207.41
1/4		1/4	5,058.23	1/4	4,726.02	1/4	4,378.40	1/4	4,016.28	1/4	3,652.98	1/4	3,289.69	1/4	2,926.40	1/4	2,563.27	1/4	2,199.84
1/2		1/2	5,050.81	1/2	4,718.96	1/2	4,370.95	1/2	4,008.71	1/2	3,645.41	1/2	3,282.12	1/2	2,918.83	1/2	2,555.70	1/2	2,192.27
3/4		3/4	5,043.39	3/4	4,711.89	3/4	4,363.51	3/4	4,001.14	3/4	3,637.85	3/4	3,274.55	3/4	2,911.26	3/4	2,548.13	3/4	2,184.70
8		8	5,035.97	8	4,704.82	8	4,356.06	8	3,993.57	8	3,630.28	8	3,266.98	8	2,903.69	8	2,540.55	8	2,177.13
1/4		1/4	5,028.56	1/4	4,697.76	1/4	4,348.61	1/4	3,986.00	1/4	3,622.71	1/4	3,259.42	1/4	2,896.12	1/4	2,532.98	1/4	2,169.56
1/2		1/2	5,021.55	1/2	4,690.66	1/2	4,341.13	1/2	3,978.43	1/2	3,615.14	1/2	3,251.85	1/2	2,888.55	1/2	2,525.41	1/2	2,161.98
3/4		3/4	5,014.54	3/4	4,683.55	3/4	4,333.65	3/4	3,970.86	3/4	3,607.57	3/4	3,244.28	3/4	2,880.99	3/4	2,517.84	3/4	2,154.41
9		9	5,007.53	9	4,676.45	9	4,326.17	9	3,963.30	9	3,600.00	9	3,236.71	9	2,873.42	9	2,510.27	9	2,146.84
1/4		1/4	5,000.53	1/4	4,669.35	1/4	4,318.70	1/4	3,955.73	1/4	3,592.43	1/4	3,229.14	1/4	2,865.85	1/4	2,502.70	1/4	2,139.27
1/2		1/2	4,993.81	1/2	4,662.22	1/2	4,311.18	1/2	3,948.16	1/2	3,584.87	1/2	3,221.57	1/2	2,858.28	1/2	2,495.13	1/2	2,131.70
3/4		3/4	4,987.09	3/4	4,655.09	3/4	4,303.67	3/4	3,940.59	3/4	3,577.30	3/4	3,214.00	3/4	2,850.71	3/4	2,487.55	3/4	2,124.13
10		10	4,980.37	10	4,647.96	10	4,296.16	10	3,933.02	10	3,569.73	10	3,206.44	10	2,843.14	10	2,479.98	10	2,116.56
1/4		1/4	4,973.65	1/4	4,640.83	1/4	4,288.64	1/4	3,925.45	1/4	3,562.16	1/4	3,198.87	1/4	2,835.57	1/4	2,472.41	1/4	2,108.98
1/2		1/2	4,966.90	1/2	4,633.67	1/2	4,281.10	1/2	3,917.88	1/2	3,554.59	1/2	3,191.30	1/2	2,828.01	1/2	2,464.84	1/2	2,101.41
3/4		3/4	4,960.14	3/4	4,626.51	3/4	4,273.55	3/4	3,910.32	3/4	3,547.02	3/4	3,183.73	3/4	2,820.44	3/4	2,457.27	3/4	2,093.84
11		11	4,953.39	11	4,619.35	11	4,266.01	11	3,902.75	11	3,539.45	11	3,176.16	11	2,812.87	11	2,449.70	11	2,086.27
1/4		1/4	4,946.64	1/4	4,612.19	1/4	4,258.46	1/4	3,895.18	1/4	3,531.89	1/4	3,168.59	1/4	2,805.30	1/4	2,442.13	1/4	2,078.70
1/2		1/2	4,939.85	1/2	4,604.99	1/2	4,250.90	1/2	3,887.61	1/2	3,524.32	1/2	3,161.02	1/2	2,797.73	1/2	2,434.56	1/2	2,071.13
3/4		3/4	4,933.07	3/4	4,597.80	3/4	4,243.33	3/4	3,880.04	3/4	3,516.75	3/4	3,153.46	3/4	2,790.17	3/4	2,426.98	3/4	2,063.56

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.

CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.

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

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

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "EMS 516B"

1 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	2,055.99	0	1,692.56	0	1,329.13	0	967.70	0	604.67	0	244.74	0		0		0		0	
1/4	2,048.41	1/4	1,684.99	1/4	1,321.56	1/4	960.18	1/4	597.10	1/4	237.31	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,040.84	1/2	1,677.42	1/2	1,313.99	1/2	952.66	1/2	589.53	1/2	229.89	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,033.27	3/4	1,669.84	3/4	1,306.42	3/4	945.14	3/4	581.96	3/4	222.47	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	2,025.70	1	1,662.27	1	1,298.85	1	937.62	1	574.39	1	215.04	1	1	1	1	1	1	1	1
1/4	2,018.13	1/4	1,654.70	1/4	1,291.27	1/4	930.10	1/4	566.82	1/4	207.62	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,010.56	1/2	1,647.13	1/2	1,283.71	1/2	922.56	1/2	559.25	1/2	200.18	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,002.99	3/4	1,639.56	3/4	1,276.14	3/4	915.02	3/4	551.68	3/4	192.74	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	1,995.41	2	1,631.99	2	1,268.57	2	907.48	2	544.10	2	185.30	2	2	2	2	2	2	2	2
1/4	1,987.84	1/4	1,624.42	1/4	1,261.01	1/4	899.95	1/4	536.53	1/4	177.86	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,980.27	1/2	1,616.84	1/2	1,253.48	1/2	892.38	1/2	528.96	1/2	170.30	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,972.70	3/4	1,609.27	3/4	1,245.95	3/4	884.80	3/4	521.39	3/4	162.75	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	1,965.13	3	1,601.70	3	1,238.42	3	877.23	3	513.82	3	155.19	3	3	3	3	3	3	3	3
1/4	1,957.56	1/4	1,594.13	1/4	1,230.89	1/4	869.66	1/4	506.25	1/4	147.63	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,949.99	1/2	1,586.56	1/2	1,223.37	1/2	862.09	1/2	498.68	1/2	140.08	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,942.41	3/4	1,578.99	3/4	1,215.85	3/4	854.52	3/4	491.11	3/4	132.52	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	1,934.84	4	1,571.42	4	1,208.33	4	846.95	4	483.54	4	124.97	4	4	4	4	4	4	4	4
1/4	1,927.27	1/4	1,563.84	1/4	1,200.81	1/4	839.38	1/4	475.96	1/4	117.41	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,919.70	1/2	1,556.27	1/2	1,193.29	1/2	831.81	1/2	468.39	1/2	109.93	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,912.13	3/4	1,548.70	3/4	1,185.77	3/4	824.24	3/4	460.82	3/4	102.45	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	1,904.56	5	1,541.13	5	1,178.25	5	816.66	5	453.25	5	94.98	5	5	5	5	5	5	5	5
1/4	1,896.99	1/4	1,533.56	1/4	1,170.73	1/4	809.09	1/4	445.68	1/4	87.50	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,889.41	1/2	1,525.99	1/2	1,163.21	1/2	801.52	1/2	438.13	1/2	80.73	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,881.84	3/4	1,518.42	3/4	1,155.69	3/4	793.95	3/4	430.57	3/4	73.96	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	1,874.27	6	1,510.84	6	1,148.17	6	786.38	6	423.02	6	67.20	6	6	6	6	6	6	6	6
1/4	1,866.70	1/4	1,503.27	1/4	1,140.65	1/4	778.81	1/4	415.47	1/4	60.43	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,859.13	1/2	1,495.70	1/2	1,133.13	1/2	771.24	1/2	408.05	1/2	54.92	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,851.56	3/4	1,488.13	3/4	1,125.61	3/4	763.67	3/4	400.62	3/4	49.42	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	1,843.99	7	1,480.56	7	1,118.09	7	756.10	7	393.20	7	43.91	7	7	7	7	7	7	7	7
1/4	1,836.41	1/4	1,472.99	1/4	1,110.57	1/4	748.52	1/4	385.78	1/4	38.41	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,828.84	1/2	1,465.42	1/2	1,103.05	1/2	740.95	1/2	378.35	1/2	34.17	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,821.27	3/4	1,457.84	3/4	1,095.53	3/4	733.38	3/4	370.93	3/4	29.92	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	1,813.70	8	1,450.27	8	1,088.01	8	725.81	8	363.51	8	25.68	8	8	8	8	8	8	8	8
1/4	1,806.13	1/4	1,442.70	1/4	1,080.49	1/4	718.24	1/4	356.08	1/4	21.43	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,798.56	1/2	1,435.13	1/2	1,072.97	1/2	710.67	1/2	348.66	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,790.99	3/4	1,427.56	3/4	1,065.45	3/4	703.10	3/4	341.24	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	1,783.41	9	1,419.99	9	1,057.93	9	695.53	9	333.81	9		9	9	9	9	9	9	9	9
1/4	1,775.84	1/4	1,412.42	1/4	1,050.42	1/4	687.96	1/4	326.39	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,768.27	1/2	1,404.84	1/2	1,042.90	1/2	680.38	1/2	318.97	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,760.70	3/4	1,397.27	3/4	1,035.38	3/4	672.81	3/4	311.54	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	1,753.13	10	1,389.70	10	1,027.86	10	665.24	10	304.12	10		10	10	10	10	10	10	10	10
1/4	1,745.56	1/4	1,382.13	1/4	1,020.34	1/4	657.67	1/4	296.70	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,737.99	1/2	1,374.56	1/2	1,012.82	1/2	650.10	1/2	289.27	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,730.41	3/4	1,366.99	3/4	1,005.30	3/4	642.53	3/4	281.85	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	1,722.84	11	1,359.42	11	997.78	11	634.96	11	274.43	11		11	11	11	11	11	11	11	11
1/4	1,715.27	1/4	1,351.84	1/4	990.26	1/4	627.39	1/4	267.01	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,707.70	1/2	1,344.27	1/2	982.74	1/2	619.82	1/2	259.58	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,700.13	3/4	1,336.70	3/4	975.22	3/4	612.24	3/4	252.16	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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

PRECISION MEASUREMENT
& ANALYSIS, INC.

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CANCELS AND SUPERCEDES
ALL PRIOR TO 04/2020



BARGE "EMS 516B"

2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08 1/4"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT
0		0		0	4,906.87	0	4,572.66	0	4,219.38	0	3,857.68	0	3,495.96	0	3,134.25	0	2,772.54	0	2,410.74
1/4		1/4	5,232.13	1/4	4,900.11	1/4	4,565.50	1/4	4,211.85	1/4	3,850.14	1/4	3,488.43	1/4	3,126.71	1/4	2,765.00	1/4	2,403.20
1/2		1/2	5,227.02	1/2	4,893.33	1/2	4,558.31	1/2	4,204.32	1/2	3,842.60	1/2	3,480.89	1/2	3,119.18	1/2	2,757.46	1/2	2,395.67
3/4		3/4	5,221.92	3/4	4,886.55	3/4	4,551.12	3/4	4,196.78	3/4	3,835.07	3/4	3,473.36	3/4	3,111.64	3/4	2,749.93	3/4	2,388.13
1		1	5,216.81	1	4,879.76	1	4,543.92	1	4,189.25	1	3,827.53	1	3,465.82	1	3,104.11	1	2,742.39	1	2,380.59
1/4		1/4	5,211.71	1/4	4,872.98	1/4	4,536.73	1/4	4,181.71	1/4	3,820.00	1/4	3,458.28	1/4	3,096.57	1/4	2,734.86	1/4	2,373.05
1/2		1/2	5,205.39	1/2	4,866.16	1/2	4,529.50	1/2	4,174.18	1/2	3,812.46	1/2	3,450.75	1/2	3,089.03	1/2	2,727.32	1/2	2,365.51
3/4		3/4	5,199.07	3/4	4,859.35	3/4	4,522.27	3/4	4,166.64	3/4	3,804.93	3/4	3,443.21	3/4	3,081.50	3/4	2,719.79	3/4	2,357.97
2		2	5,192.75	2	4,852.53	2	4,515.04	2	4,159.10	2	3,797.39	2	3,435.68	2	3,073.96	2	2,712.25	2	2,350.44
1/4		1/4	5,186.43	1/4	4,845.72	1/4	4,507.82	1/4	4,151.57	1/4	3,789.85	1/4	3,428.14	1/4	3,066.43	1/4	2,704.71	1/4	2,342.90
1/2		1/2	5,179.13	1/2	4,838.87	1/2	4,500.56	1/2	4,144.03	1/2	3,782.32	1/2	3,420.61	1/2	3,058.89	1/2	2,697.18	1/2	2,335.36
3/4		3/4	5,171.83	3/4	4,832.02	3/4	4,493.30	3/4	4,136.50	3/4	3,774.78	3/4	3,413.07	3/4	3,051.36	3/4	2,689.64	3/4	2,327.82
3		3	5,164.53	3	4,825.18	3	4,486.04	3	4,128.96	3	3,767.25	3	3,405.53	3	3,043.82	3	2,682.11	3	2,320.28
1/4		1/4	5,157.23	1/4	4,818.33	1/4	4,478.79	1/4	4,121.43	1/4	3,759.71	1/4	3,398.00	1/4	3,036.28	1/4	2,674.57	1/4	2,312.74
1/2		1/2	5,149.79	1/2	4,811.45	1/2	4,471.50	1/2	4,113.89	1/2	3,752.18	1/2	3,390.46	1/2	3,028.75	1/2	2,667.04	1/2	2,305.21
3/4		3/4	5,142.36	3/4	4,804.57	3/4	4,464.21	3/4	4,106.35	3/4	3,744.64	3/4	3,382.93	3/4	3,021.21	3/4	2,659.50	3/4	2,297.67
4		4	5,134.92	4	4,797.70	4	4,456.92	4	4,098.82	4	3,737.10	4	3,375.39	4	3,013.68	4	2,651.96	4	2,290.13
1/4		1/4	5,127.48	1/4	4,790.82	1/4	4,449.63	1/4	4,091.28	1/4	3,729.57	1/4	3,367.86	1/4	3,006.14	1/4	2,644.43	1/4	2,282.59
1/2		1/2	5,120.04	1/2	4,783.90	1/2	4,442.31	1/2	4,083.75	1/2	3,722.03	1/2	3,360.32	1/2	2,998.61	1/2	2,636.89	1/2	2,275.05
3/4		3/4	5,112.61	3/4	4,776.99	3/4	4,434.99	3/4	4,076.21	3/4	3,714.50	3/4	3,352.78	3/4	2,991.07	3/4	2,629.35	3/4	2,267.51
5		5	5,105.17	5	4,770.08	5	4,427.67	5	4,068.68	5	3,706.96	5	3,345.25	5	2,983.53	5	2,621.82	5	2,259.98
1/4		1/4	5,097.73	1/4	4,763.17	1/4	4,420.35	1/4	4,061.14	1/4	3,699.43	1/4	3,337.71	1/4	2,976.00	1/4	2,614.28	1/4	2,252.44
1/2		1/2	5,090.30	1/2	4,756.22	1/2	4,412.99	1/2	4,053.60	1/2	3,691.89	1/2	3,330.18	1/2	2,968.46	1/2	2,606.74	1/2	2,244.90
3/4		3/4	5,082.86	3/4	4,749.28	3/4	4,405.63	3/4	4,046.07	3/4	3,684.36	3/4	3,322.64	3/4	2,960.93	3/4	2,599.20	3/4	2,237.36
6		6	5,075.42	6	4,742.34	6	4,398.28	6	4,038.53	6	3,676.82	6	3,315.11	6	2,953.39	6	2,591.66	6	2,229.82
1/4		1/4	5,067.98	1/4	4,735.39	1/4	4,390.92	1/4	4,031.00	1/4	3,669.28	1/4	3,307.57	1/4	2,945.86	1/4	2,584.13	1/4	2,222.28
1/2		1/2	5,060.55	1/2	4,728.42	1/2	4,383.54	1/2	4,023.46	1/2	3,661.75	1/2	3,300.03	1/2	2,938.32	1/2	2,576.59	1/2	2,214.74
3/4		3/4	5,053.11	3/4	4,721.44	3/4	4,376.15	3/4	4,015.93	3/4	3,654.21	3/4	3,292.50	3/4	2,930.79	3/4	2,569.05	3/4	2,207.21
7		7	5,045.67	7	4,714.46	7	4,368.77	7	4,008.39	7	3,646.68	7	3,284.96	7	2,923.25	7	2,561.51	7	2,199.67
1/4		1/4	5,038.23	1/4	4,707.49	1/4	4,361.38	1/4	4,000.85	1/4	3,639.14	1/4	3,277.43	1/4	2,915.71	1/4	2,553.97	1/4	2,192.13
1/2		1/2	5,030.85	1/2	4,700.45	1/2	4,353.97	1/2	3,993.32	1/2	3,631.61	1/2	3,269.89	1/2	2,908.18	1/2	2,546.43	1/2	2,184.59
3/4		3/4	5,023.46	3/4	4,693.41	3/4	4,346.55	3/4	3,985.78	3/4	3,624.07	3/4	3,262.36	3/4	2,900.64	3/4	2,538.90	3/4	2,177.05
8		8	5,016.08	8	4,686.38	8	4,339.14	8	3,978.25	8	3,616.53	8	3,254.82	8	2,893.11	8	2,531.36	8	2,169.51
1/4		1/4	5,008.69	1/4	4,679.34	1/4	4,331.72	1/4	3,970.71	1/4	3,609.00	1/4	3,247.28	1/4	2,885.57	1/4	2,523.82	1/4	2,161.98
1/2		1/2	5,001.72	1/2	4,672.27	1/2	4,324.27	1/2	3,963.18	1/2	3,601.46	1/2	3,239.75	1/2	2,878.04	1/2	2,516.28	1/2	2,154.44
3/4		3/4	4,994.74	3/4	4,665.20	3/4	4,316.83	3/4	3,955.64	3/4	3,593.93	3/4	3,232.21	3/4	2,870.50	3/4	2,508.74	3/4	2,146.90
9		9	4,987.76	9	4,658.13	9	4,309.38	9	3,948.10	9	3,586.39	9	3,224.68	9	2,862.96	9	2,501.20	9	2,139.36
1/4		1/4	4,980.79	1/4	4,651.06	1/4	4,301.94	1/4	3,940.57	1/4	3,578.86	1/4	3,217.14	1/4	2,855.43	1/4	2,493.67	1/4	2,131.82
1/2		1/2	4,974.10	1/2	4,643.96	1/2	4,294.46	1/2	3,933.03	1/2	3,571.32	1/2	3,209.61	1/2	2,847.89	1/2	2,486.13	1/2	2,124.28
3/4		3/4	4,967.41	3/4	4,636.86	3/4	4,286.98	3/4	3,925.50	3/4	3,563.78	3/4	3,202.07	3/4	2,840.36	3/4	2,478.59	3/4	2,116.75
10		10	4,960.72	10	4,629.76	10	4,279.50	10	3,917.96	10	3,556.25	10	3,194.53	10	2,832.82	10	2,471.05	10	2,109.21
1/4		1/4	4,954.03	1/4	4,622.66	1/4	4,272.02	1/4	3,910.43	1/4	3,548.71	1/4	3,187.00	1/4	2,825.29	1/4	2,463.51	1/4	2,101.67
1/2		1/2	4,947.30	1/2	4,615.53	1/2	4,264.50	1/2	3,902.89	1/2	3,541.18	1/2	3,179.46	1/2	2,817.75	1/2	2,455.97	1/2	2,094.13
3/4		3/4	4,940.58	3/4	4,608.40	3/4	4,256.99	3/4	3,895.35	3/4	3,533.64	3/4	3,171.93	3/4	2,810.21	3/4	2,448.44	3/4	2,086.59
11		11	4,933.86	11	4,601.27	11	4,249.48	11	3,887.82	11	3,526.11	11	3,164.39	11	2,802.68	11	2,440.90	11	2,079.05
1/4		1/4	4,927.13	1/4	4,594.15	1/4	4,241.97	1/4	3,880.28	1/4	3,518.57	1/4	3,156.86	1/4	2,795.14	1/4	2,433.36	1/4	2,071.52
1/2		1/2	4,920.38	1/2	4,586.98	1/2	4,234.44	1/2	3,872.75	1/2	3,511.03	1/2	3,149.32	1/2	2,787.61	1/2	2,425.82	1/2	2,063.98
3/4		3/4	4,913.62	3/4	4,579.82	3/4	4,226.91	3/4	3,865.21	3/4	3,503.50	3/4	3,141.78	3/4	2,780.07	3/4	2,418.28	3/4	2,056.44

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.

CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.

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

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

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT
& ANALYSIS, INC.

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Pearland, Texas 77588

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BARGE "EMS 516B"

2 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	2,048.90	0	1,687.06	0	1,325.21	0	963.81	0	602.03	0	243.67	0		0		0		0	
1/4	2,041.36	1/4	1,679.52	1/4	1,317.68	1/4	956.28	1/4	594.49	1/4	236.28	1/4		1/4		1/4		1/4	
1/2	2,033.82	1/2	1,671.98	1/2	1,310.14	1/2	948.75	1/2	586.95	1/2	228.89	1/2		1/2		1/2		1/2	
3/4	2,026.28	3/4	1,664.44	3/4	1,302.60	3/4	941.22	3/4	579.41	3/4	221.50	3/4		3/4		3/4		3/4	
1	2,018.75	1	1,656.90	1	1,295.06	1	933.69	1	571.88	1	214.11	1		1		1		1	
1/4	2,011.21	1/4	1,649.36	1/4	1,287.52	1/4	926.17	1/4	564.34	1/4	206.72	1/4		1/4		1/4		1/4	
1/2	2,003.67	1/2	1,641.83	1/2	1,279.98	1/2	918.63	1/2	556.80	1/2	199.31	1/2		1/2		1/2		1/2	
3/4	1,996.13	3/4	1,634.29	3/4	1,272.44	3/4	911.09	3/4	549.26	3/4	191.90	3/4		3/4		3/4		3/4	
2	1,988.59	2	1,626.75	2	1,264.91	2	903.55	2	541.72	2	184.50	2		2		2		2	
1/4	1,981.05	1/4	1,619.21	1/4	1,257.37	1/4	896.01	1/4	534.19	1/4	177.09	1/4		1/4		1/4		1/4	
1/2	1,973.52	1/2	1,611.67	1/2	1,249.83	1/2	888.48	1/2	526.65	1/2	169.57	1/2		1/2		1/2		1/2	
3/4	1,965.98	3/4	1,604.13	3/4	1,242.30	3/4	880.94	3/4	519.11	3/4	162.04	3/4		3/4		3/4		3/4	
3	1,958.44	3	1,596.60	3	1,234.76	3	873.40	3	511.57	3	154.52	3		3		3		3	
1/4	1,950.90	1/4	1,589.06	1/4	1,227.22	1/4	865.86	1/4	504.03	1/4	147.00	1/4		1/4		1/4		1/4	
1/2	1,943.36	1/2	1,581.52	1/2	1,219.70	1/2	858.32	1/2	496.50	1/2	139.47	1/2		1/2		1/2		1/2	
3/4	1,935.82	3/4	1,573.98	3/4	1,212.17	3/4	850.79	3/4	488.96	3/4	131.95	3/4		3/4		3/4		3/4	
4	1,928.29	4	1,566.44	4	1,204.64	4	843.25	4	481.42	4	124.43	4		4		4		4	
1/4	1,920.75	1/4	1,558.90	1/4	1,197.12	1/4	835.71	1/4	473.88	1/4	116.90	1/4		1/4		1/4		1/4	
1/2	1,913.21	1/2	1,551.37	1/2	1,189.59	1/2	828.17	1/2	466.34	1/2	109.46	1/2		1/2		1/2		1/2	
3/4	1,905.67	3/4	1,543.83	3/4	1,182.06	3/4	820.63	3/4	458.80	3/4	102.01	3/4		3/4		3/4		3/4	
5	1,898.13	5	1,536.29	5	1,174.54	5	813.10	5	451.27	5	94.57	5		5		5		5	
1/4	1,890.59	1/4	1,528.75	1/4	1,167.01	1/4	805.56	1/4	443.73	1/4	87.12	1/4		1/4		1/4		1/4	
1/2	1,883.06	1/2	1,521.21	1/2	1,159.49	1/2	798.02	1/2	436.21	1/2	80.39	1/2		1/2		1/2		1/2	
3/4	1,875.52	3/4	1,513.67	3/4	1,151.96	3/4	790.48	3/4	428.69	3/4	73.65	3/4		3/4		3/4		3/4	
6	1,867.98	6	1,506.14	6	1,144.43	6	782.94	6	421.17	6	66.91	6		6		6		6	
1/4	1,860.44	1/4	1,498.60	1/4	1,136.91	1/4	775.40	1/4	413.65	1/4	60.17	1/4		1/4		1/4		1/4	
1/2	1,852.90	1/2	1,491.06	1/2	1,129.38	1/2	767.87	1/2	406.26	1/2	54.69	1/2		1/2		1/2		1/2	
3/4	1,845.36	3/4	1,483.52	3/4	1,121.86	3/4	760.33	3/4	398.87	3/4	49.21	3/4		3/4		3/4		3/4	
7	1,837.82	7	1,475.98	7	1,114.33	7	752.79	7	391.48	7	43.73	7		7		7		7	
1/4	1,830.29	1/4	1,468.44	1/4	1,106.80	1/4	745.25	1/4	384.09	1/4	38.25	1/4		1/4		1/4		1/4	
1/2	1,822.75	1/2	1,460.90	1/2	1,099.28	1/2	737.71	1/2	376.70	1/2	34.02	1/2		1/2		1/2		1/2	
3/4	1,815.21	3/4	1,453.37	3/4	1,091.75	3/4	730.18	3/4	369.31	3/4	29.80	3/4		3/4		3/4		3/4	
8	1,807.67	8	1,445.83	8	1,084.22	8	722.64	8	361.92	8	25.57	8		8		8		8	
1/4	1,800.13	1/4	1,438.29	1/4	1,076.70	1/4	715.10	1/4	354.53	1/4	21.34	1/4		1/4		1/4		1/4	
1/2	1,792.59	1/2	1,430.75	1/2	1,069.17	1/2	707.56	1/2	347.14	1/2		1/2		1/2		1/2		1/2	
3/4	1,785.06	3/4	1,423.21	3/4	1,061.65	3/4	700.02	3/4	339.74	3/4		3/4		3/4		3/4		3/4	
9	1,777.52	9	1,415.67	9	1,054.12	9	692.49	9	332.35	9		9		9		9		9	
1/4	1,769.98	1/4	1,408.14	1/4	1,046.59	1/4	684.95	1/4	324.96	1/4		1/4		1/4		1/4		1/4	
1/2	1,762.44	1/2	1,400.60	1/2	1,039.07	1/2	677.41	1/2	317.57	1/2		1/2		1/2		1/2		1/2	
3/4	1,754.90	3/4	1,393.06	3/4	1,031.54	3/4	669.87	3/4	310.18	3/4		3/4		3/4		3/4		3/4	
10	1,747.36	10	1,385.52	10	1,024.01	10	662.33	10	302.79	10		10		10		10		10	
1/4	1,739.83	1/4	1,377.98	1/4	1,016.49	1/4	654.80	1/4	295.40	1/4		1/4		1/4		1/4		1/4	
1/2	1,732.29	1/2	1,370.44	1/2	1,008.96	1/2	647.26	1/2	288.01	1/2		1/2		1/2		1/2		1/2	
3/4	1,724.75	3/4	1,362.91	3/4	1,001.44	3/4	639.72	3/4	280.62	3/4		3/4		3/4		3/4		3/4	
11	1,717.21	11	1,355.37	11	993.91	11	632.18	11	273.23	11		11		11		11		11	
1/4	1,709.67	1/4	1,347.83	1/4	986.38	1/4	624.64	1/4	265.84	1/4		1/4		1/4		1/4		1/4	
1/2	1,702.13	1/2	1,340.29	1/2	978.86	1/2	617.10	1/2	258.45	1/2		1/2		1/2		1/2		1/2	
3/4	1,694.60	3/4	1,332.75	3/4	971.33	3/4	609.57	3/4	251.06	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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

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CANCELS AND SUPERCEDES
ALL PRIOR TO 04/2020



BARGE "EMS 516B"

2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08 1/4"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0
		1/4	5,215.19	1/4	4,883.13	1/4	4,548.47	1/4	4,194.77	1/4	3,833.01	1/4	3,471.25	1/4	3,109.50	1/4	2,747.79	1/4	2,387.62
		1/2	5,210.08	1/2	4,876.35	1/2	4,541.27	1/2	4,187.23	1/2	3,825.47	1/2	3,463.72	1/2	3,101.96	1/2	2,740.36	1/2	2,380.08
		3/4	5,204.98	3/4	4,869.56	3/4	4,534.08	3/4	4,179.69	3/4	3,817.94	3/4	3,456.18	3/4	3,094.42	3/4	2,732.93	3/4	2,372.54
1	1	1	5,199.87	1	4,862.77	1	4,526.88	1	4,172.16	1	3,810.40	1	3,448.64	1	3,086.89	1	2,725.50	1	2,365.00
		1/4	5,194.76	1/4	4,855.99	1/4	4,519.69	1/4	4,164.62	1/4	3,802.86	1/4	3,441.11	1/4	3,079.35	1/4	2,718.07	1/4	2,357.46
		1/2	5,188.44	1/2	4,849.17	1/2	4,512.46	1/2	4,157.08	1/2	3,795.33	1/2	3,433.57	1/2	3,071.81	1/2	2,710.64	1/2	2,349.92
		3/4	5,182.13	3/4	4,842.36	3/4	4,505.23	3/4	4,149.55	3/4	3,787.79	3/4	3,426.03	3/4	3,064.28	3/4	2,703.21	3/4	2,342.38
2	2	2	5,175.81	2	4,835.54	2	4,498.00	2	4,142.01	2	3,780.25	2	3,418.50	2	3,056.74	2	2,695.78	2	2,334.84
		1/4	5,169.49	1/4	4,828.72	1/4	4,490.77	1/4	4,134.47	1/4	3,772.72	1/4	3,410.96	1/4	3,049.20	1/4	2,688.35	1/4	2,327.30
		1/2	5,162.19	1/2	4,821.88	1/2	4,483.52	1/2	4,126.94	1/2	3,765.18	1/2	3,403.42	1/2	3,041.67	1/2	2,680.92	1/2	2,319.76
		3/4	5,154.89	3/4	4,815.03	3/4	4,476.26	3/4	4,119.40	3/4	3,757.64	3/4	3,395.89	3/4	3,034.13	3/4	2,673.49	3/4	2,312.22
3	3	3	5,147.59	3	4,808.18	3	4,469.00	3	4,111.87	3	3,750.11	3	3,388.35	3	3,026.59	3	2,666.06	3	2,304.68
		1/4	5,140.29	1/4	4,801.34	1/4	4,461.74	1/4	4,104.33	1/4	3,742.57	1/4	3,380.81	1/4	3,019.06	1/4	2,658.63	1/4	2,297.14
		1/2	5,132.85	1/2	4,794.46	1/2	4,454.45	1/2	4,096.79	1/2	3,735.04	1/2	3,373.28	1/2	3,011.52	1/2	2,651.19	1/2	2,289.60
		3/4	5,125.41	3/4	4,787.58	3/4	4,447.16	3/4	4,089.26	3/4	3,727.50	3/4	3,365.74	3/4	3,003.98	3/4	2,643.75	3/4	2,282.06
4	4	4	5,117.97	4	4,780.70	4	4,439.87	4	4,081.72	4	3,719.96	4	3,358.21	4	2,996.45	4	2,636.30	4	2,274.53
		1/4	5,110.53	1/4	4,773.82	1/4	4,432.58	1/4	4,074.18	1/4	3,712.43	1/4	3,350.67	1/4	2,988.91	1/4	2,628.86	1/4	2,266.99
		1/2	5,103.09	1/2	4,766.90	1/2	4,425.26	1/2	4,066.65	1/2	3,704.89	1/2	3,343.13	1/2	2,981.38	1/2	2,621.32	1/2	2,259.45
		3/4	5,095.66	3/4	4,759.99	3/4	4,417.94	3/4	4,059.11	3/4	3,697.35	3/4	3,335.60	3/4	2,973.84	3/4	2,613.79	3/4	2,251.91
5	5	5	5,088.22	5	4,753.07	5	4,410.61	5	4,051.57	5	3,689.82	5	3,328.06	5	2,966.30	5	2,606.25	5	2,244.37
		1/4	5,080.78	1/4	4,746.16	1/4	4,403.29	1/4	4,044.04	1/4	3,682.28	1/4	3,320.52	1/4	2,958.77	1/4	2,598.72	1/4	2,236.83
		1/2	5,073.34	1/2	4,739.22	1/2	4,395.94	1/2	4,036.50	1/2	3,674.74	1/2	3,312.99	1/2	2,951.23	1/2	2,591.18	1/2	2,229.29
		3/4	5,065.90	3/4	4,732.27	3/4	4,388.58	3/4	4,028.96	3/4	3,667.21	3/4	3,305.45	3/4	2,943.69	3/4	2,583.64	3/4	2,221.75
6	6	6	5,058.46	6	4,725.33	6	4,381.22	6	4,021.43	6	3,659.67	6	3,297.91	6	2,936.16	6	2,576.10	6	2,214.21
		1/4	5,051.03	1/4	4,718.39	1/4	4,373.87	1/4	4,013.89	1/4	3,652.13	1/4	3,290.38	1/4	2,928.62	1/4	2,568.56	1/4	2,206.67
		1/2	5,043.59	1/2	4,711.41	1/2	4,366.48	1/2	4,006.35	1/2	3,644.60	1/2	3,282.84	1/2	2,921.08	1/2	2,561.02	1/2	2,199.13
		3/4	5,036.15	3/4	4,704.43	3/4	4,359.09	3/4	3,998.82	3/4	3,637.06	3/4	3,275.30	3/4	2,913.55	3/4	2,553.48	3/4	2,191.59
7	7	7	5,028.71	7	4,697.45	7	4,351.71	7	3,991.28	7	3,629.52	7	3,267.77	7	2,906.01	7	2,545.94	7	2,184.05
		1/4	5,021.27	1/4	4,690.47	1/4	4,344.32	1/4	3,983.74	1/4	3,621.99	1/4	3,260.23	1/4	2,898.47	1/4	2,538.40	1/4	2,176.51
		1/2	5,013.89	1/2	4,683.44	1/2	4,336.90	1/2	3,976.21	1/2	3,614.45	1/2	3,252.69	1/2	2,890.94	1/2	2,530.87	1/2	2,168.97
		3/4	5,006.50	3/4	4,676.40	3/4	4,329.49	3/4	3,968.67	3/4	3,606.91	3/4	3,245.16	3/4	2,883.40	3/4	2,523.33	3/4	2,161.43
8	8	8	4,999.12	8	4,669.36	8	4,322.07	8	3,961.13	8	3,599.38	8	3,237.62	8	2,875.86	8	2,515.79	8	2,153.90
		1/4	4,991.73	1/4	4,662.32	1/4	4,314.65	1/4	3,953.60	1/4	3,591.84	1/4	3,230.08	1/4	2,868.33	1/4	2,508.25	1/4	2,146.36
		1/2	4,984.75	1/2	4,655.25	1/2	4,307.21	1/2	3,946.06	1/2	3,584.30	1/2	3,222.55	1/2	2,860.79	1/2	2,500.71	1/2	2,138.82
		3/4	4,977.77	3/4	4,648.18	3/4	4,299.76	3/4	3,938.52	3/4	3,576.77	3/4	3,215.01	3/4	2,853.25	3/4	2,493.17	3/4	2,131.28
9	9	9	4,970.80	9	4,641.11	9	4,292.31	9	3,930.99	9	3,569.23	9	3,207.47	9	2,845.72	9	2,485.63	9	2,123.74
		1/4	4,963.82	1/4	4,634.04	1/4	4,284.87	1/4	3,923.45	1/4	3,561.69	1/4	3,199.94	1/4	2,838.18	1/4	2,478.09	1/4	2,116.20
		1/2	4,957.13	1/2	4,626.94	1/2	4,277.39	1/2	3,915.91	1/2	3,554.16	1/2	3,192.40	1/2	2,830.64	1/2	2,470.55	1/2	2,108.66
		3/4	4,950.44	3/4	4,619.84	3/4	4,269.90	3/4	3,908.38	3/4	3,546.62	3/4	3,184.86	3/4	2,823.11	3/4	2,463.01	3/4	2,101.12
10	10	10	4,943.75	10	4,612.74	10	4,262.42	10	3,900.84	10	3,539.08	10	3,177.33	10	2,815.57	10	2,455.47	10	2,093.58
		1/4	4,937.05	1/4	4,605.64	1/4	4,254.94	1/4	3,893.30	1/4	3,531.55	1/4	3,169.79	1/4	2,808.03	1/4	2,447.93	1/4	2,086.04
		1/2	4,930.33	1/2	4,598.51	1/2	4,247.43	1/2	3,885.77	1/2	3,524.01	1/2	3,162.25	1/2	2,800.50	1/2	2,440.39	1/2	2,078.50
		3/4	4,923.61	3/4	4,591.38	3/4	4,239.92	3/4	3,878.23	3/4	3,516.47	3/4	3,154.72	3/4	2,792.96	3/4	2,432.85	3/4	2,070.96
11	11	11	4,916.88	11	4,584.25	11	4,232.40	11	3,870.69	11	3,508.94	11	3,147.18	11	2,785.42	11	2,425.31	11	2,063.42
		1/4	4,910.16	1/4	4,577.12	1/4	4,224.89	1/4	3,863.16	1/4	3,501.40	1/4	3,139.64	1/4	2,777.89	1/4	2,417.77	1/4	2,055.88
		1/2	4,903.40	1/2	4,569.95	1/2	4,217.36	1/2	3,855.62	1/2	3,493.86	1/2	3,132.11	1/2	2,770.36	1/2	2,410.23	1/2	2,048.34
		3/4	4,896.64	3/4	4,562.79	3/4	4,209.83	3/4	3,848.08	3/4	3,486.33	3/4	3,124.57	3/4	2,762.84	3/4	2,402.70	3/4	2,040.80

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

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



BARGE "EMS 516B"

2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08 1/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,033.26	0	1,671.37	0	1,309.48	0	961.11	0	602.11	0	243.70	0		0		0		0	
1/4	2,025.73	1/4	1,663.83	1/4	1,301.94	1/4	953.91	1/4	594.57	1/4	236.31	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,018.19	1/2	1,656.29	1/2	1,294.40	1/2	946.72	1/2	587.03	1/2	228.92	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,010.65	3/4	1,648.76	3/4	1,286.86	3/4	939.52	3/4	579.49	3/4	221.53	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	2,003.11	1	1,641.22	1	1,279.32	1	932.32	1	571.95	1	214.13	1	1	1	1	1	1	1	1
1/4	1,995.57	1/4	1,633.68	1/4	1,271.79	1/4	925.12	1/4	564.41	1/4	206.74	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,988.03	1/2	1,626.14	1/2	1,264.29	1/2	917.88	1/2	556.87	1/2	199.33	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,980.49	3/4	1,618.60	3/4	1,256.79	3/4	910.63	3/4	549.33	3/4	191.93	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	1,972.95	2	1,611.06	2	1,249.29	2	903.38	2	541.79	2	184.52	2	2	2	2	2	2	2	2
1/4	1,965.41	1/4	1,603.52	1/4	1,241.79	1/4	896.13	1/4	534.25	1/4	177.11	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,957.87	1/2	1,595.98	1/2	1,234.59	1/2	888.59	1/2	526.71	1/2	169.59	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,950.33	3/4	1,588.44	3/4	1,227.38	3/4	881.05	3/4	519.18	3/4	162.06	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	1,942.79	3	1,580.90	3	1,220.17	3	873.51	3	511.64	3	154.54	3	3	3	3	3	3	3	3
1/4	1,935.25	1/4	1,573.36	1/4	1,212.97	1/4	865.97	1/4	504.10	1/4	147.01	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,927.71	1/2	1,565.82	1/2	1,205.77	1/2	858.43	1/2	496.56	1/2	139.49	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,920.17	3/4	1,558.28	3/4	1,198.57	3/4	850.90	3/4	489.02	3/4	131.97	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	1,912.63	4	1,550.74	4	1,191.38	4	843.36	4	481.48	4	124.44	4	4	4	4	4	4	4	4
1/4	1,905.09	1/4	1,543.20	1/4	1,184.18	1/4	835.82	1/4	473.94	1/4	116.92	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,897.56	1/2	1,535.66	1/2	1,176.99	1/2	828.28	1/2	466.40	1/2	109.47	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,890.02	3/4	1,528.12	3/4	1,169.79	3/4	820.74	3/4	458.86	3/4	102.03	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	1,882.48	5	1,520.59	5	1,162.60	5	813.20	5	451.32	5	94.58	5	5	5	5	5	5	5	5
1/4	1,874.94	1/4	1,513.05	1/4	1,155.40	1/4	805.66	1/4	443.78	1/4	87.13	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,867.40	1/2	1,505.51	1/2	1,148.20	1/2	798.12	1/2	436.26	1/2	80.39	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,859.86	3/4	1,497.97	3/4	1,141.01	3/4	790.58	3/4	428.74	3/4	73.66	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	1,852.32	6	1,490.43	6	1,133.81	6	783.04	6	421.22	6	66.92	6	6	6	6	6	6	6	6
1/4	1,844.78	1/4	1,482.89	1/4	1,126.62	1/4	775.50	1/4	413.70	1/4	60.18	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,837.24	1/2	1,475.35	1/2	1,119.42	1/2	767.97	1/2	406.31	1/2	54.70	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,829.70	3/4	1,467.81	3/4	1,112.22	3/4	760.43	3/4	398.92	3/4	49.22	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	1,822.16	7	1,460.27	7	1,105.03	7	752.89	7	391.53	7	43.73	7	7	7	7	7	7	7	7
1/4	1,814.62	1/4	1,452.73	1/4	1,097.83	1/4	745.35	1/4	384.14	1/4	38.25	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,807.08	1/2	1,445.19	1/2	1,090.64	1/2	737.81	1/2	376.75	1/2	34.03	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,799.54	3/4	1,437.65	3/4	1,083.44	3/4	730.27	3/4	369.35	3/4	29.80	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	1,792.00	8	1,430.11	8	1,076.24	8	722.73	8	361.96	8	25.57	8	8	8	8	8	8	8	8
1/4	1,784.46	1/4	1,422.57	1/4	1,069.05	1/4	715.19	1/4	354.57	1/4	21.34	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,776.93	1/2	1,415.03	1/2	1,061.85	1/2	707.65	1/2	347.18	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,769.39	3/4	1,407.49	3/4	1,054.66	3/4	700.11	3/4	339.79	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	1,761.85	9	1,399.96	9	1,047.46	9	692.57	9	332.40	9		9	9	9	9	9	9	9	9
1/4	1,754.31	1/4	1,392.42	1/4	1,040.26	1/4	685.04	1/4	325.01	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,746.77	1/2	1,384.88	1/2	1,033.07	1/2	677.50	1/2	317.61	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,739.23	3/4	1,377.34	3/4	1,025.87	3/4	669.96	3/4	310.22	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	1,731.69	10	1,369.80	10	1,018.68	10	662.42	10	302.83	10		10	10	10	10	10	10	10	10
1/4	1,724.15	1/4	1,362.26	1/4	1,011.48	1/4	654.88	1/4	295.44	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,716.61	1/2	1,354.72	1/2	1,004.29	1/2	647.34	1/2	288.05	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,709.07	3/4	1,347.18	3/4	997.09	3/4	639.80	3/4	280.66	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	1,701.53	11	1,339.64	11	989.89	11	632.26	11	273.27	11		11	11	11	11	11	11	11	11
1/4	1,693.99	1/4	1,332.10	1/4	982.70	1/4	624.72	1/4	265.87	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,686.45	1/2	1,324.56	1/2	975.50	1/2	617.18	1/2	258.48	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,678.91	3/4	1,317.02	3/4	968.31	3/4	609.64	3/4	251.09	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092
Pearland, Texas 77588

<http://www.pmacorp.net>

CANCELS AND SUPERCEDES
ALL PRIOR TO 04/2020



BARGE "EMS 516B"

3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08 1/4"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT
0		0		0	4,230.10	0	4,063.14	0	3,877.60	0	3,683.67	0	3,477.74	0	3,119.49	0	2,759.99	0	2,399.89
1/4		1/4	4,392.91	1/4	4,226.82	1/4	4,059.47	1/4	3,873.56	1/4	3,679.63	1/4	3,470.27	1/4	3,112.00	1/4	2,752.49	1/4	2,392.39
1/2		1/2	4,391.25	1/2	4,223.51	1/2	4,055.77	1/2	3,869.52	1/2	3,675.59	1/2	3,462.80	1/2	3,104.51	1/2	2,744.99	1/2	2,384.89
3/4		3/4	4,389.60	3/4	4,220.21	3/4	4,052.07	3/4	3,865.48	3/4	3,671.55	3/4	3,455.33	3/4	3,097.03	3/4	2,737.49	3/4	2,377.38
1		1	4,387.94	1	4,216.90	1	4,048.37	1	3,861.44	1	3,667.51	1	3,447.86	1	3,089.54	1	2,729.99	1	2,369.88
1/4		1/4	4,386.29	1/4	4,213.59	1/4	4,044.67	1/4	3,857.40	1/4	3,663.47	1/4	3,440.39	1/4	3,082.05	1/4	2,722.48	1/4	2,362.38
1/2		1/2	4,383.42	1/2	4,210.25	1/2	4,040.94	1/2	3,853.36	1/2	3,659.43	1/2	3,432.92	1/2	3,074.56	1/2	2,714.98	1/2	2,354.88
3/4		3/4	4,380.54	3/4	4,206.92	3/4	4,037.20	3/4	3,849.32	3/4	3,655.39	3/4	3,425.45	3/4	3,067.07	3/4	2,707.48	3/4	2,347.37
2		2	4,377.67	2	4,203.58	2	4,033.47	2	3,845.28	2	3,651.35	2	3,417.98	2	3,059.58	2	2,699.98	2	2,339.87
1/4		1/4	4,374.79	1/4	4,200.24	1/4	4,029.74	1/4	3,841.24	1/4	3,647.31	1/4	3,410.51	1/4	3,052.09	1/4	2,692.48	1/4	2,332.37
1/2		1/2	4,370.94	1/2	4,196.88	1/2	4,025.97	1/2	3,837.20	1/2	3,643.27	1/2	3,403.04	1/2	3,044.61	1/2	2,684.98	1/2	2,324.87
3/4		3/4	4,367.09	3/4	4,193.51	3/4	4,022.21	3/4	3,833.16	3/4	3,639.23	3/4	3,395.57	3/4	3,037.12	3/4	2,677.48	3/4	2,317.36
3		3	4,363.23	3	4,190.14	3	4,018.45	3	3,829.12	3	3,635.19	3	3,388.10	3	3,029.63	3	2,669.98	3	2,309.86
1/4		1/4	4,359.38	1/4	4,186.77	1/4	4,014.68	1/4	3,825.08	1/4	3,631.15	1/4	3,380.63	1/4	3,022.14	1/4	2,662.47	1/4	2,302.36
1/2		1/2	4,355.39	1/2	4,183.37	1/2	4,010.89	1/2	3,821.04	1/2	3,627.11	1/2	3,373.16	1/2	3,014.65	1/2	2,654.97	1/2	2,294.85
3/4		3/4	4,351.41	3/4	4,179.97	3/4	4,007.10	3/4	3,817.00	3/4	3,623.07	3/4	3,365.69	3/4	3,007.16	3/4	2,647.47	3/4	2,287.35
4		4	4,347.42	4	4,176.57	4	4,003.30	4	3,812.96	4	3,619.03	4	3,358.22	4	2,999.67	4	2,639.97	4	2,279.85
1/4		1/4	4,343.43	1/4	4,173.17	1/4	3,999.51	1/4	3,808.92	1/4	3,614.99	1/4	3,350.75	1/4	2,992.19	1/4	2,632.47	1/4	2,272.35
1/2		1/2	4,339.44	1/2	4,169.73	1/2	3,995.68	1/2	3,804.88	1/2	3,610.95	1/2	3,343.28	1/2	2,984.70	1/2	2,624.97	1/2	2,264.84
3/4		3/4	4,335.46	3/4	4,166.30	3/4	3,991.85	3/4	3,800.84	3/4	3,606.91	3/4	3,335.81	3/4	2,977.21	3/4	2,617.47	3/4	2,257.34
5		5	4,331.47	5	4,162.86	5	3,988.03	5	3,796.80	5	3,602.87	5	3,328.35	5	2,969.72	5	2,609.97	5	2,249.84
1/4		1/4	4,327.48	1/4	4,159.43	1/4	3,984.20	1/4	3,792.76	1/4	3,598.83	1/4	3,320.88	1/4	2,962.23	1/4	2,602.47	1/4	2,242.34
1/2		1/2	4,323.50	1/2	4,155.97	1/2	3,980.34	1/2	3,788.72	1/2	3,594.79	1/2	3,313.42	1/2	2,954.74	1/2	2,594.96	1/2	2,234.83
3/4		3/4	4,319.51	3/4	4,152.50	3/4	3,976.48	3/4	3,784.68	3/4	3,590.75	3/4	3,305.97	3/4	2,947.26	3/4	2,587.46	3/4	2,227.33
6		6	4,315.52	6	4,149.04	6	3,972.62	6	3,780.64	6	3,586.71	6	3,298.52	6	2,939.77	6	2,579.96	6	2,219.83
1/4		1/4	4,311.53	1/4	4,145.57	1/4	3,968.76	1/4	3,776.60	1/4	3,582.67	1/4	3,291.06	1/4	2,932.28	1/4	2,572.45	1/4	2,212.32
1/2		1/2	4,307.55	1/2	4,142.08	1/2	3,964.87	1/2	3,772.56	1/2	3,578.63	1/2	3,283.61	1/2	2,924.79	1/2	2,564.95	1/2	2,204.82
3/4		3/4	4,303.56	3/4	4,138.58	3/4	3,960.97	3/4	3,768.52	3/4	3,574.59	3/4	3,276.15	3/4	2,917.30	3/4	2,557.45	3/4	2,197.32
7		7	4,299.57	7	4,135.08	7	3,957.08	7	3,764.48	7	3,570.55	7	3,268.70	7	2,909.81	7	2,549.95	7	2,189.82
1/4		1/4	4,295.59	1/4	4,131.59	1/4	3,953.19	1/4	3,760.44	1/4	3,566.51	1/4	3,261.24	1/4	2,902.32	1/4	2,542.44	1/4	2,182.31
1/2		1/2	4,291.65	1/2	4,128.04	1/2	3,949.27	1/2	3,756.40	1/2	3,562.47	1/2	3,253.79	1/2	2,894.84	1/2	2,534.94	1/2	2,174.81
3/4		3/4	4,287.72	3/4	4,124.50	3/4	3,945.35	3/4	3,752.36	3/4	3,558.43	3/4	3,246.34	3/4	2,887.35	3/4	2,527.44	3/4	2,167.31
8		8	4,283.78	8	4,120.96	8	3,941.43	8	3,748.32	8	3,554.39	8	3,238.88	8	2,879.86	8	2,519.94	8	2,159.81
1/4		1/4	4,279.85	1/4	4,117.41	1/4	3,937.51	1/4	3,744.27	1/4	3,550.35	1/4	3,231.43	1/4	2,872.37	1/4	2,512.43	1/4	2,152.30
1/2		1/2	4,276.32	1/2	4,113.84	1/2	3,933.56	1/2	3,740.23	1/2	3,546.31	1/2	3,223.97	1/2	2,864.88	1/2	2,504.93	1/2	2,144.80
3/4		3/4	4,272.80	3/4	4,110.26	3/4	3,929.61	3/4	3,736.19	3/4	3,542.26	3/4	3,216.52	3/4	2,857.39	3/4	2,497.43	3/4	2,137.30
9		9	4,269.27	9	4,106.68	9	3,925.66	9	3,732.15	9	3,538.22	9	3,209.06	9	2,849.90	9	2,489.92	9	2,129.80
1/4		1/4	4,265.75	1/4	4,103.11	1/4	3,921.71	1/4	3,728.11	1/4	3,534.18	1/4	3,201.61	1/4	2,842.42	1/4	2,482.42	1/4	2,122.29
1/2		1/2	4,262.54	1/2	4,099.50	1/2	3,917.72	1/2	3,724.07	1/2	3,530.14	1/2	3,194.15	1/2	2,834.93	1/2	2,474.92	1/2	2,114.79
3/4		3/4	4,259.33	3/4	4,095.90	3/4	3,913.74	3/4	3,720.03	3/4	3,526.10	3/4	3,186.70	3/4	2,827.44	3/4	2,467.42	3/4	2,107.29
10		10	4,256.12	10	4,092.29	10	3,909.75	10	3,715.99	10	3,522.06	10	3,179.25	10	2,819.95	10	2,459.91	10	2,099.78
1/4		1/4	4,252.91	1/4	4,088.68	1/4	3,905.77	1/4	3,711.95	1/4	3,518.02	1/4	3,171.79	1/4	2,812.46	1/4	2,452.41	1/4	2,092.28
1/2		1/2	4,249.66	1/2	4,085.05	1/2	3,901.75	1/2	3,707.91	1/2	3,513.55	1/2	3,164.33	1/2	2,804.97	1/2	2,444.91	1/2	2,084.78
3/4		3/4	4,246.42	3/4	4,081.41	3/4	3,897.73	3/4	3,703.87	3/4	3,509.09	3/4	3,156.87	3/4	2,797.48	3/4	2,437.41	3/4	2,077.28
11		11	4,243.17	11	4,077.78	11	3,893.72	11	3,699.83	11	3,504.62	11	3,149.42	11	2,789.99	11	2,429.90	11	2,069.77
1/4		1/4	4,239.93	1/4	4,074.14	1/4	3,889.70	1/4	3,695.79	1/4	3,500.15	1/4	3,141.96	1/4	2,782.50	1/4	2,422.40	1/4	2,062.27
1/2		1/2	4,236.65	1/2	4,070.47	1/2	3,885.67	1/2	3,691.75	1/2	3,492.68	1/2	3,134.47	1/2	2,775.00	1/2	2,414.90	1/2	2,054.77
3/4		3/4	4,233.38	3/4	4,066.81	3/4	3,881.63	3/4	3,687.71	3/4	3,485.21	3/4	3,126.98	3/4	2,767.50	3/4	2,407.40	3/4	2,047.27

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP OF 2" DIAMETER "HERMETIC" VALVE.
 GAUGE POINT: (HERMETIC) LOCATED 10'-06" OFF CENTERLINE AND 55'-00" 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 516B"

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	2,039.76	0	1,679.55	0	1,319.33	0	959.43	0	599.30	0	242.56	0		0		0		0	
1/4	2,032.26	1/4	1,672.05	1/4	1,311.83	1/4	951.93	1/4	591.79	1/4	235.21	1/4		1/4		1/4		1/4	
1/2	2,024.76	1/2	1,664.54	1/2	1,304.33	1/2	944.44	1/2	584.29	1/2	227.85	1/2		1/2		1/2		1/2	
3/4	2,017.25	3/4	1,657.04	3/4	1,296.82	3/4	936.94	3/4	576.78	3/4	220.50	3/4		3/4		3/4		3/4	
1	2,009.75	1	1,649.53	1	1,289.32	1	929.45	1	569.28	1	213.14	1		1		1		1	
1/4	2,002.24	1/4	1,642.03	1/4	1,281.81	1/4	921.95	1/4	561.77	1/4	205.78	1/4		1/4		1/4		1/4	
1/2	1,994.74	1/2	1,634.52	1/2	1,274.31	1/2	914.45	1/2	554.27	1/2	198.41	1/2		1/2		1/2		1/2	
3/4	1,987.24	3/4	1,627.02	3/4	1,266.80	3/4	906.96	3/4	546.77	3/4	191.04	3/4		3/4		3/4		3/4	
2	1,979.73	2	1,619.51	2	1,259.30	2	899.46	2	539.26	2	183.66	2		2		2		2	
1/4	1,972.23	1/4	1,612.01	1/4	1,251.79	1/4	891.96	1/4	531.76	1/4	176.29	1/4		1/4		1/4		1/4	
1/2	1,964.72	1/2	1,604.51	1/2	1,244.29	1/2	884.46	1/2	524.25	1/2	168.80	1/2		1/2		1/2		1/2	
3/4	1,957.22	3/4	1,597.00	3/4	1,236.79	3/4	876.95	3/4	516.75	3/4	161.31	3/4		3/4		3/4		3/4	
3	1,949.71	3	1,589.50	3	1,229.28	3	869.45	3	509.25	3	153.82	3		3		3		3	
1/4	1,942.21	1/4	1,581.99	1/4	1,221.78	1/4	861.94	1/4	501.74	1/4	146.33	1/4		1/4		1/4		1/4	
1/2	1,934.70	1/2	1,574.49	1/2	1,214.28	1/2	854.44	1/2	494.24	1/2	138.84	1/2		1/2		1/2		1/2	
3/4	1,927.20	3/4	1,566.98	3/4	1,206.78	3/4	846.93	3/4	486.73	3/4	131.35	3/4		3/4		3/4		3/4	
4	1,919.69	4	1,559.48	4	1,199.27	4	839.43	4	479.23	4	123.86	4		4		4		4	
1/4	1,912.19	1/4	1,551.97	1/4	1,191.77	1/4	831.93	1/4	471.72	1/4	116.37	1/4		1/4		1/4		1/4	
1/2	1,904.69	1/2	1,544.47	1/2	1,184.28	1/2	824.42	1/2	464.22	1/2	108.96	1/2		1/2		1/2		1/2	
3/4	1,897.18	3/4	1,536.97	3/4	1,176.78	3/4	816.92	3/4	456.72	3/4	101.55	3/4		3/4		3/4		3/4	
5	1,889.68	5	1,529.46	5	1,169.29	5	809.41	5	449.21	5	94.14	5		5		5		5	
1/4	1,882.17	1/4	1,521.96	1/4	1,161.79	1/4	801.91	1/4	441.71	1/4	86.73	1/4		1/4		1/4		1/4	
1/2	1,874.67	1/2	1,514.45	1/2	1,154.30	1/2	794.41	1/2	434.22	1/2	80.02	1/2		1/2		1/2		1/2	
3/4	1,867.16	3/4	1,506.95	3/4	1,146.80	3/4	786.90	3/4	426.74	3/4	73.32	3/4		3/4		3/4		3/4	
6	1,859.66	6	1,499.44	6	1,139.31	6	779.40	6	419.25	6	66.61	6		6		6		6	
1/4	1,852.15	1/4	1,491.94	1/4	1,131.81	1/4	771.89	1/4	411.76	1/4	59.90	1/4		1/4		1/4		1/4	
1/2	1,844.65	1/2	1,484.43	1/2	1,124.32	1/2	764.39	1/2	404.41	1/2	54.44	1/2		1/2		1/2		1/2	
3/4	1,837.15	3/4	1,476.93	3/4	1,116.82	3/4	756.88	3/4	397.05	3/4	48.99	3/4		3/4		3/4		3/4	
7	1,829.64	7	1,469.42	7	1,109.33	7	749.38	7	389.69	7	43.53	7		7		7		7	
1/4	1,822.14	1/4	1,461.92	1/4	1,101.83	1/4	741.88	1/4	382.34	1/4	38.08	1/4		1/4		1/4		1/4	
1/2	1,814.63	1/2	1,454.42	1/2	1,094.34	1/2	734.37	1/2	374.98	1/2	33.87	1/2		1/2		1/2		1/2	
3/4	1,807.13	3/4	1,446.91	3/4	1,086.84	3/4	726.87	3/4	367.63	3/4	29.66	3/4		3/4		3/4		3/4	
8	1,799.62	8	1,439.41	8	1,079.35	8	719.36	8	360.27	8	25.45	8		8		8		8	
1/4	1,792.12	1/4	1,431.90	1/4	1,071.85	1/4	711.86	1/4	352.91	1/4	21.25	1/4		1/4		1/4		1/4	
1/2	1,784.61	1/2	1,424.40	1/2	1,064.36	1/2	704.35	1/2	345.56	1/2		1/2		1/2		1/2		1/2	
3/4	1,777.11	3/4	1,416.89	3/4	1,056.86	3/4	696.85	3/4	338.20	3/4		3/4		3/4		3/4		3/4	
9	1,769.60	9	1,409.39	9	1,049.37	9	689.35	9	330.84	9		9		9		9		9	
1/4	1,762.10	1/4	1,401.88	1/4	1,041.87	1/4	681.84	1/4	323.49	1/4		1/4		1/4		1/4		1/4	
1/2	1,754.60	1/2	1,394.38	1/2	1,034.38	1/2	674.34	1/2	316.13	1/2		1/2		1/2		1/2		1/2	
3/4	1,747.09	3/4	1,386.88	3/4	1,026.88	3/4	666.83	3/4	308.77	3/4		3/4		3/4		3/4		3/4	
10	1,739.59	10	1,379.37	10	1,019.39	10	659.33	10	301.42	10		10		10		10		10	
1/4	1,732.08	1/4	1,371.87	1/4	1,011.89	1/4	651.83	1/4	294.06	1/4		1/4		1/4		1/4		1/4	
1/2	1,724.58	1/2	1,364.36	1/2	1,004.40	1/2	644.32	1/2	286.70	1/2		1/2		1/2		1/2		1/2	
3/4	1,717.07	3/4	1,356.86	3/4	996.90	3/4	636.82	3/4	279.35	3/4		3/4		3/4		3/4		3/4	
11	1,709.57	11	1,349.35	11	989.41	11	629.31	11	271.99	11		11		11		11		11	
1/4	1,702.06	1/4	1,341.85	1/4	981.91	1/4	621.81	1/4	264.63	1/4		1/4		1/4		1/4		1/4	
1/2	1,694.56	1/2	1,334.34	1/2	974.42	1/2	614.30	1/2	257.28	1/2		1/2		1/2		1/2		1/2	
3/4	1,687.06	3/4	1,326.84	3/4	966.92	3/4	606.80	3/4	249.92	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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

PRECISION MEASUREMENT
& ANALYSIS, INC.

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CANCELS AND SUPERCEDES
ALL PRIOR TO 04/2020



BARGE "EMS 516B"

3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08 3/4"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT
0		0		0	4,215.97	0	4,050.16	0	3,865.68	0	3,672.07	0	3,473.30	0	3,115.06	0	2,755.74	0	2,397.30
1/4		1/4		1/4	4,212.70	1/4	4,046.50	1/4	3,861.65	1/4	3,668.04	1/4	3,468.83	1/4	3,107.57	1/4	2,748.25	1/4	2,389.79
1/2		1/2		1/2	4,209.43	1/2	4,042.84	1/2	3,857.62	1/2	3,664.01	1/2	3,458.36	1/2	3,100.08	1/2	2,740.76	1/2	2,382.29
3/4		3/4	4,371.88	3/4	4,206.16	3/4	4,039.18	3/4	3,853.59	3/4	3,659.97	3/4	3,450.89	3/4	3,092.59	3/4	2,733.27	3/4	2,374.78
1		1	4,370.24	1	4,202.86	1	4,035.49	1	3,849.56	1	3,655.94	1	3,443.42	1	3,085.10	1	2,725.88	1	2,367.28
1/4		1/4	4,368.59	1/4	4,199.56	1/4	4,031.79	1/4	3,845.52	1/4	3,651.91	1/4	3,435.95	1/4	3,077.61	1/4	2,718.48	1/4	2,359.78
1/2		1/2	4,366.95	1/2	4,196.26	1/2	4,028.10	1/2	3,841.49	1/2	3,647.87	1/2	3,428.48	1/2	3,070.12	1/2	2,711.08	1/2	2,352.27
3/4		3/4	4,365.30	3/4	4,192.96	3/4	4,024.41	3/4	3,837.46	3/4	3,643.84	3/4	3,421.01	3/4	3,062.64	3/4	2,703.69	3/4	2,344.77
2		2	4,362.44	2	4,189.64	2	4,020.68	2	3,833.42	2	3,639.80	2	3,413.54	2	3,055.15	2	2,696.29	2	2,337.27
1/4		1/4	4,359.57	1/4	4,186.31	1/4	4,016.95	1/4	3,829.39	1/4	3,635.77	1/4	3,406.07	1/4	3,047.67	1/4	2,688.90	1/4	2,329.76
1/2		1/2	4,356.71	1/2	4,182.98	1/2	4,013.23	1/2	3,825.35	1/2	3,631.74	1/2	3,398.59	1/2	3,040.19	1/2	2,681.50	1/2	2,322.26
3/4		3/4	4,353.84	3/4	4,179.65	3/4	4,009.50	3/4	3,821.32	3/4	3,627.70	3/4	3,391.12	3/4	3,032.71	3/4	2,674.11	3/4	2,314.76
3		3	4,350.00	3	4,176.29	3	4,005.74	3	3,817.29	3	3,623.67	3	3,383.65	3	3,025.23	3	2,666.71	3	2,307.25
1/4		1/4	4,346.15	1/4	4,172.93	1/4	4,001.99	1/4	3,813.25	1/4	3,619.64	1/4	3,376.18	1/4	3,017.74	1/4	2,659.32	1/4	2,299.75
1/2		1/2	4,342.31	1/2	4,169.57	1/2	3,998.23	1/2	3,809.22	1/2	3,615.60	1/2	3,368.71	1/2	3,010.26	1/2	2,651.92	1/2	2,292.25
3/4		3/4	4,338.46	3/4	4,166.21	3/4	3,994.48	3/4	3,805.19	3/4	3,611.57	3/4	3,361.24	3/4	3,002.78	3/4	2,644.53	3/4	2,284.74
4		4	4,334.48	4	4,162.82	4	3,990.69	4	3,801.15	4	3,607.53	4	3,353.77	4	2,995.30	4	2,637.12	4	2,277.24
1/4		1/4	4,330.50	1/4	4,159.42	1/4	3,986.90	1/4	3,797.12	1/4	3,603.50	1/4	3,346.30	1/4	2,987.82	1/4	2,629.71	1/4	2,269.74
1/2		1/2	4,326.52	1/2	4,156.03	1/2	3,983.12	1/2	3,793.08	1/2	3,599.47	1/2	3,338.83	1/2	2,980.34	1/2	2,622.30	1/2	2,262.23
3/4		3/4	4,322.54	3/4	4,152.63	3/4	3,979.33	3/4	3,789.05	3/4	3,595.43	3/4	3,331.36	3/4	2,972.85	3/4	2,614.89	3/4	2,254.73
5		5	4,318.56	5	4,149.21	5	3,975.51	5	3,785.02	5	3,591.40	5	3,323.89	5	2,965.37	5	2,607.39	5	2,247.23
1/4		1/4	4,314.58	1/4	4,145.78	1/4	3,971.69	1/4	3,780.98	1/4	3,587.37	1/4	3,316.42	1/4	2,957.89	1/4	2,599.89	1/4	2,239.72
1/2		1/2	4,310.60	1/2	4,142.35	1/2	3,967.87	1/2	3,776.95	1/2	3,583.33	1/2	3,308.95	1/2	2,950.41	1/2	2,592.38	1/2	2,232.22
3/4		3/4	4,306.62	3/4	4,138.93	3/4	3,964.05	3/4	3,772.92	3/4	3,579.30	3/4	3,301.48	3/4	2,942.93	3/4	2,584.88	3/4	2,224.71
6		6	4,302.64	6	4,135.47	6	3,960.19	6	3,768.88	6	3,575.26	6	3,294.03	6	2,935.45	6	2,577.38	6	2,217.21
1/4		1/4	4,298.66	1/4	4,132.01	1/4	3,956.34	1/4	3,764.85	1/4	3,571.23	1/4	3,286.57	1/4	2,927.96	1/4	2,569.88	1/4	2,209.71
1/2		1/2	4,294.67	1/2	4,128.56	1/2	3,952.48	1/2	3,760.81	1/2	3,567.20	1/2	3,279.12	1/2	2,920.48	1/2	2,562.37	1/2	2,202.20
3/4		3/4	4,290.69	3/4	4,125.10	3/4	3,948.63	3/4	3,756.78	3/4	3,563.16	3/4	3,271.66	3/4	2,913.00	3/4	2,554.87	3/4	2,194.70
7		7	4,286.71	7	4,121.61	7	3,944.75	7	3,752.75	7	3,559.13	7	3,264.21	7	2,905.52	7	2,547.37	7	2,187.20
1/4		1/4	4,282.73	1/4	4,118.12	1/4	3,940.86	1/4	3,748.71	1/4	3,555.10	1/4	3,256.75	1/4	2,898.03	1/4	2,539.86	1/4	2,179.69
1/2		1/2	4,278.75	1/2	4,114.63	1/2	3,936.98	1/2	3,744.68	1/2	3,551.06	1/2	3,249.30	1/2	2,890.55	1/2	2,532.36	1/2	2,172.19
3/4		3/4	4,274.77	3/4	4,111.15	3/4	3,933.09	3/4	3,740.65	3/4	3,547.03	3/4	3,241.84	3/4	2,883.07	3/4	2,524.85	3/4	2,164.69
8		8	4,270.84	8	4,107.61	8	3,929.18	8	3,736.61	8	3,543.00	8	3,234.39	8	2,875.58	8	2,517.35	8	2,157.18
1/4		1/4	4,266.92	1/4	4,104.07	1/4	3,925.27	1/4	3,732.58	1/4	3,538.96	1/4	3,226.93	1/4	2,868.09	1/4	2,509.85	1/4	2,149.68
1/2		1/2	4,262.99	1/2	4,100.54	1/2	3,921.35	1/2	3,728.55	1/2	3,534.93	1/2	3,219.48	1/2	2,860.60	1/2	2,502.34	1/2	2,142.18
3/4		3/4	4,259.06	3/4	4,097.00	3/4	3,917.44	3/4	3,724.51	3/4	3,530.89	3/4	3,212.02	3/4	2,853.11	3/4	2,494.84	3/4	2,134.67
9		9	4,255.54	9	4,093.43	9	3,913.49	9	3,720.48	9	3,526.86	9	3,204.57	9	2,845.62	9	2,487.34	9	2,127.17
1/4		1/4	4,252.02	1/4	4,089.87	1/4	3,909.55	1/4	3,716.44	1/4	3,522.83	1/4	3,197.11	1/4	2,838.13	1/4	2,479.83	1/4	2,119.67
1/2		1/2	4,248.51	1/2	4,086.30	1/2	3,905.61	1/2	3,712.41	1/2	3,518.79	1/2	3,189.66	1/2	2,830.64	1/2	2,472.33	1/2	2,112.16
3/4		3/4	4,244.99	3/4	4,082.73	3/4	3,901.66	3/4	3,708.38	3/4	3,514.76	3/4	3,182.20	3/4	2,823.15	3/4	2,464.83	3/4	2,104.66
10		10	4,241.79	10	4,079.13	10	3,897.68	10	3,704.34	10	3,510.73	10	3,174.75	10	2,815.67	10	2,457.32	10	2,097.16
1/4		1/4	4,238.59	1/4	4,075.53	1/4	3,893.71	1/4	3,700.31	1/4	3,506.69	1/4	3,167.29	1/4	2,808.18	1/4	2,449.82	1/4	2,089.65
1/2		1/2	4,235.38	1/2	4,071.93	1/2	3,889.73	1/2	3,696.28	1/2	3,502.66	1/2	3,159.84	1/2	2,800.69	1/2	2,442.32	1/2	2,082.15
3/4		3/4	4,232.18	3/4	4,068.33	3/4	3,885.75	3/4	3,692.24	3/4	3,498.62	3/4	3,152.38	3/4	2,793.20	3/4	2,434.81	3/4	2,074.64
11		11	4,228.95	11	4,064.70	11	3,881.74	11	3,688.21	11	3,494.16	11	3,144.92	11	2,785.71	11	2,427.31	11	2,067.14
1/4		1/4	4,225.71	1/4	4,061.07	1/4	3,877.73	1/4	3,684.17	1/4	3,489.70	1/4	3,137.46	1/4	2,778.21	1/4	2,419.81	1/4	2,059.64
1/2		1/2	4,222.47	1/2	4,057.45	1/2	3,873.72	1/2	3,680.14	1/2	3,485.24	1/2	3,130.00	1/2	2,770.72	1/2	2,412.30	1/2	2,052.13
3/4		3/4	4,219.24	3/4	4,053.82	3/4	3,869.71	3/4	3,676.11	3/4	3,480.77	3/4	3,122.55	3/4	2,763.23	3/4	2,404.80	3/4	2,044.63

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP OF 2" DIAMETER "HERMETIC" VALVE.
 GAUGE POINT: (HERMETIC) LOCATED 10'-06" OFF CENTERLINE AND 55'-00" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT
 & ANALYSIS, INC.
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 Pearland, Texas 77588
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BARGE "EMS 516B"

3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08 3/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,037.13	0	1,676.88	0	1,317.95	0	967.77	0	614.59	0	257.42	0		0		0		0	
1/4	2,029.62	1/4	1,669.37	1/4	1,310.51	1/4	960.60	1/4	607.08	1/4	250.06	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,022.12	1/2	1,661.87	1/2	1,303.07	1/2	953.43	1/2	599.57	1/2	242.70	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,014.62	3/4	1,654.36	3/4	1,295.62	3/4	946.26	3/4	592.07	3/4	235.34	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	2,007.11	1	1,646.86	1	1,288.18	1	939.09	1	584.56	1	227.98	1	1	1	1	1	1	1	1
1/4	1,999.61	1/4	1,639.35	1/4	1,280.74	1/4	931.92	1/4	577.05	1/4	220.62	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,992.10	1/2	1,631.85	1/2	1,273.29	1/2	924.75	1/2	569.54	1/2	213.26	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,984.60	3/4	1,624.34	3/4	1,265.85	3/4	917.58	3/4	562.04	3/4	205.90	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	1,977.09	2	1,616.84	2	1,258.41	2	910.40	2	554.53	2	198.53	2	2	2	2	2	2	2	2
1/4	1,969.58	1/4	1,609.33	1/4	1,250.97	1/4	903.23	1/4	547.02	1/4	191.15	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,962.08	1/2	1,601.82	1/2	1,243.53	1/2	896.05	1/2	539.51	1/2	183.77	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,954.57	3/4	1,594.32	3/4	1,236.08	3/4	888.88	3/4	532.01	3/4	176.40	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	1,947.07	3	1,586.81	3	1,228.66	3	881.68	3	524.50	3	168.90	3	3	3	3	3	3	3	3
1/4	1,939.56	1/4	1,579.31	1/4	1,221.23	1/4	874.49	1/4	516.99	1/4	161.41	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,932.06	1/2	1,571.80	1/2	1,213.81	1/2	867.29	1/2	509.48	1/2	153.92	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,924.55	3/4	1,564.30	3/4	1,206.38	3/4	860.10	3/4	501.98	3/4	146.42	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	1,917.05	4	1,556.79	4	1,198.95	4	852.90	4	494.47	4	138.93	4	4	4	4	4	4	4	4
1/4	1,909.54	1/4	1,549.29	1/4	1,191.52	1/4	845.70	1/4	486.96	1/4	131.43	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,902.04	1/2	1,541.78	1/2	1,184.10	1/2	838.50	1/2	479.46	1/2	123.93	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,894.53	3/4	1,534.28	3/4	1,176.67	3/4	831.31	3/4	471.95	3/4	116.43	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	1,887.03	5	1,526.77	5	1,169.25	5	824.05	5	464.44	5	109.02	5	5	5	5	5	5	5	5
1/4	1,879.52	1/4	1,519.27	1/4	1,161.83	1/4	816.79	1/4	456.93	1/4	101.61	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,872.02	1/2	1,511.76	1/2	1,154.41	1/2	809.53	1/2	449.43	1/2	94.19	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,864.51	3/4	1,504.26	3/4	1,147.00	3/4	802.27	3/4	441.92	3/4	86.78	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	1,857.01	6	1,496.76	6	1,139.83	6	794.76	6	434.43	6	80.08	6	6	6	6	6	6	6	6
1/4	1,849.50	1/4	1,489.26	1/4	1,132.66	1/4	787.26	1/4	426.94	1/4	73.38	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,841.99	1/2	1,481.76	1/2	1,125.49	1/2	779.75	1/2	419.45	1/2	66.68	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,834.49	3/4	1,474.27	3/4	1,118.32	3/4	772.24	3/4	411.96	3/4	59.98	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	1,826.98	7	1,466.82	7	1,111.15	7	764.73	7	404.61	7	54.52	7	7	7	7	7	7	7	7
1/4	1,819.48	1/4	1,459.38	1/4	1,103.98	1/4	757.23	1/4	397.25	1/4	49.06	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,811.97	1/2	1,451.94	1/2	1,096.81	1/2	749.72	1/2	389.89	1/2	43.61	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,804.47	3/4	1,444.49	3/4	1,089.64	3/4	742.21	3/4	382.53	3/4	38.15	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	1,796.96	8	1,437.05	8	1,082.47	8	734.70	8	375.17	8	33.93	8	8	8	8	8	8	8	8
1/4	1,789.46	1/4	1,429.61	1/4	1,075.30	1/4	727.20	1/4	367.81	1/4	29.72	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,781.95	1/2	1,422.16	1/2	1,068.13	1/2	719.69	1/2	360.45	1/2	25.50	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,774.45	3/4	1,414.72	3/4	1,060.96	3/4	712.18	3/4	353.09	3/4	21.29	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	1,766.94	9	1,407.28	9	1,053.80	9	704.67	9	345.73	9	17.08	9	9	9	9	9	9	9	9
1/4	1,759.44	1/4	1,399.83	1/4	1,046.63	1/4	697.17	1/4	338.37	1/4	12.87	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,751.93	1/2	1,392.39	1/2	1,039.46	1/2	689.66	1/2	331.01	1/2	8.66	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,744.43	3/4	1,384.94	3/4	1,032.29	3/4	682.15	3/4	323.65	3/4	4.45	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	1,736.92	10	1,377.50	10	1,025.12	10	674.65	10	316.29	10	0.24	10	10	10	10	10	10	10	10
1/4	1,729.42	1/4	1,370.06	1/4	1,017.95	1/4	667.14	1/4	308.93	1/4	0.03	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,721.91	1/2	1,362.61	1/2	1,010.78	1/2	659.63	1/2	301.57	1/2	0.00	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,714.40	3/4	1,355.17	3/4	1,003.61	3/4	652.12	3/4	294.21	3/4	0.00	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	1,706.90	11	1,347.73	11	996.44	11	644.62	11	286.86	11	0.00	11	11	11	11	11	11	11	11
1/4	1,699.39	1/4	1,340.28	1/4	989.27	1/4	637.11	1/4	279.50	1/4	0.00	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,691.89	1/2	1,332.84	1/2	982.10	1/2	629.60	1/2	272.14	1/2	0.00	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,684.38	3/4	1,325.40	3/4	974.93	3/4	622.09	3/4	264.78	3/4	0.00	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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

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CANCELS AND SUPERCEDES
ALL PRIOR TO 04/2020



BARGE "EMS 516B"

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

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

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

THE CORRECTION FOR 2'-00" TRIM DOWN BY STERN FOR 1 PORT IS - 00-1/8"
 FOR A MEASURED INNAGE GAUGE OF 4'-00" ON 1 PORT, THE TRIM CORRECTED INNAGE IS 3'-11 7/8"

LENGTH BETWEEN DRAFT MARKS: 284'-06"

April 23, 2020

**PRECISION MEASUREMENT
& ANALYSIS, INC.**

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BARGE "EMS 516B"

1 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08 1/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	21.46	0	356.45	0	718.97	0	1,082.51	0	1,446.06	0	1,809.86	0	2,173.65	0	2,537.45	0	2,901.14	0	3,264.80
1/4	25.70	1/4	363.88	1/4	726.55	1/4	1,090.08	1/4	1,453.64	1/4	1,817.44	1/4	2,181.23	1/4	2,545.03	1/4	2,908.72	1/4	3,272.38
1/2	29.95	1/2	371.31	1/2	734.13	1/2	1,097.65	1/2	1,461.22	1/2	1,825.01	1/2	2,188.81	1/2	2,552.61	1/2	2,916.29	1/2	3,279.96
3/4	34.20	3/4	378.74	3/4	741.71	3/4	1,105.21	3/4	1,468.80	3/4	1,832.59	3/4	2,196.39	3/4	2,560.19	3/4	2,923.87	3/4	3,287.53
1	38.45	1	386.17	1	749.29	1	1,112.78	1	1,476.38	1	1,840.17	1	2,203.97	1	2,567.77	1	2,931.45	1	3,295.11
1/4	43.96	1/4	393.60	1/4	756.86	1/4	1,120.35	1/4	1,483.96	1/4	1,847.75	1/4	2,211.55	1/4	2,575.35	1/4	2,939.02	1/4	3,302.69
1/2	49.47	1/2	401.03	1/2	764.44	1/2	1,127.91	1/2	1,491.53	1/2	1,855.33	1/2	2,219.13	1/2	2,582.92	1/2	2,946.60	1/2	3,310.26
3/4	54.98	3/4	408.46	3/4	772.02	3/4	1,135.48	3/4	1,499.11	3/4	1,862.91	3/4	2,226.71	3/4	2,590.50	3/4	2,954.18	3/4	3,317.84
2	60.49	2	415.89	2	779.60	2	1,143.05	2	1,506.69	2	1,870.49	2	2,234.29	2	2,598.08	2	2,961.75	2	3,325.41
1/4	67.27	1/4	423.45	1/4	787.18	1/4	1,150.61	1/4	1,514.27	1/4	1,878.07	1/4	2,241.87	1/4	2,605.66	1/4	2,969.33	1/4	3,332.99
1/2	74.04	1/2	431.01	1/2	794.76	1/2	1,158.18	1/2	1,521.85	1/2	1,885.65	1/2	2,249.44	1/2	2,613.24	1/2	2,976.90	1/2	3,340.57
3/4	80.82	3/4	438.57	3/4	802.34	3/4	1,165.75	3/4	1,529.43	3/4	1,893.23	3/4	2,257.02	3/4	2,620.82	3/4	2,984.48	3/4	3,348.14
3	87.59	3	446.13	3	809.92	3	1,173.31	3	1,537.01	3	1,900.81	3	2,264.60	3	2,628.40	3	2,992.06	3	3,355.72
1/4	95.08	1/4	453.71	1/4	817.49	1/4	1,180.88	1/4	1,544.59	1/4	1,908.38	1/4	2,272.18	1/4	2,635.97	1/4	2,999.63	1/4	3,363.30
1/2	102.56	1/2	461.29	1/2	825.07	1/2	1,188.45	1/2	1,552.17	1/2	1,915.96	1/2	2,279.76	1/2	2,643.55	1/2	3,007.21	1/2	3,370.87
3/4	110.05	3/4	468.87	3/4	832.65	3/4	1,196.01	3/4	1,559.75	3/4	1,923.54	3/4	2,287.34	3/4	2,651.12	3/4	3,014.79	3/4	3,378.45
4	117.53	4	476.45	4	840.23	4	1,203.58	4	1,567.33	4	1,931.12	4	2,294.92	4	2,658.70	4	3,022.36	4	3,386.02
1/4	125.09	1/4	484.03	1/4	847.81	1/4	1,211.15	1/4	1,574.90	1/4	1,938.70	1/4	2,302.50	1/4	2,666.28	1/4	3,029.94	1/4	3,393.60
1/2	132.66	1/2	491.61	1/2	855.39	1/2	1,218.72	1/2	1,582.48	1/2	1,946.28	1/2	2,310.08	1/2	2,673.85	1/2	3,037.52	1/2	3,401.18
3/4	140.22	3/4	499.18	3/4	862.97	3/4	1,226.28	3/4	1,590.06	3/4	1,953.86	3/4	2,317.66	3/4	2,681.43	3/4	3,045.09	3/4	3,408.75
5	147.79	5	506.76	5	870.55	5	1,233.85	5	1,597.64	5	1,961.44	5	2,325.24	5	2,689.01	5	3,052.67	5	3,416.33
1/4	155.35	1/4	514.34	1/4	878.12	1/4	1,241.43	1/4	1,605.22	1/4	1,969.02	1/4	2,332.81	1/4	2,696.58	1/4	3,060.24	1/4	3,423.91
1/2	162.91	1/2	521.92	1/2	885.70	1/2	1,249.00	1/2	1,612.80	1/2	1,976.60	1/2	2,340.39	1/2	2,704.16	1/2	3,067.82	1/2	3,431.48
3/4	170.48	3/4	529.50	3/4	893.28	3/4	1,256.58	3/4	1,620.38	3/4	1,984.18	3/4	2,347.97	3/4	2,711.73	3/4	3,075.40	3/4	3,439.06
6	178.04	6	537.08	6	900.86	6	1,264.16	6	1,627.96	6	1,991.75	6	2,355.55	6	2,719.31	6	3,082.97	6	3,446.64
1/4	185.49	1/4	544.66	1/4	908.44	1/4	1,271.74	1/4	1,635.54	1/4	1,999.33	1/4	2,363.13	1/4	2,726.89	1/4	3,090.55	1/4	3,454.21
1/2	192.94	1/2	552.24	1/2	916.02	1/2	1,279.32	1/2	1,643.12	1/2	2,006.91	1/2	2,370.71	1/2	2,734.46	1/2	3,098.13	1/2	3,461.79
3/4	200.38	3/4	559.82	3/4	923.60	3/4	1,286.90	3/4	1,650.70	3/4	2,014.49	3/4	2,378.29	3/4	2,742.04	3/4	3,105.70	3/4	3,469.36
7	207.83	7	567.39	7	931.18	7	1,294.48	7	1,658.27	7	2,022.07	7	2,385.87	7	2,749.62	7	3,113.28	7	3,476.94
1/4	215.26	1/4	574.97	1/4	938.74	1/4	1,302.06	1/4	1,665.85	1/4	2,029.65	1/4	2,393.45	1/4	2,757.19	1/4	3,120.85	1/4	3,484.52
1/2	222.69	1/2	582.55	1/2	946.31	1/2	1,309.64	1/2	1,673.43	1/2	2,037.23	1/2	2,401.03	1/2	2,764.77	1/2	3,128.43	1/2	3,492.09
3/4	230.12	3/4	590.13	3/4	953.88	3/4	1,317.21	3/4	1,681.01	3/4	2,044.81	3/4	2,408.61	3/4	2,772.34	3/4	3,136.01	3/4	3,499.67
8	237.55	8	597.71	8	961.45	8	1,324.79	8	1,688.59	8	2,052.39	8	2,416.18	8	2,779.92	8	3,143.58	8	3,507.25
1/4	244.99	1/4	605.29	1/4	969.01	1/4	1,332.37	1/4	1,696.17	1/4	2,059.97	1/4	2,423.76	1/4	2,787.50	1/4	3,151.16	1/4	3,514.82
1/2	252.42	1/2	612.87	1/2	976.58	1/2	1,339.95	1/2	1,703.75	1/2	2,067.55	1/2	2,431.34	1/2	2,795.07	1/2	3,158.74	1/2	3,522.40
3/4	259.85	3/4	620.45	3/4	984.15	3/4	1,347.53	3/4	1,711.33	3/4	2,075.12	3/4	2,438.92	3/4	2,802.65	3/4	3,166.31	3/4	3,529.97
9	267.28	9	628.02	9	991.71	9	1,355.11	9	1,718.91	9	2,082.70	9	2,446.50	9	2,810.23	9	3,173.89	9	3,537.55
1/4	274.71	1/4	635.60	1/4	999.28	1/4	1,362.69	1/4	1,726.49	1/4	2,090.28	1/4	2,454.08	1/4	2,817.80	1/4	3,181.46	1/4	3,545.13
1/2	282.14	1/2	643.18	1/2	1,006.85	1/2	1,370.27	1/2	1,734.07	1/2	2,097.86	1/2	2,461.66	1/2	2,825.38	1/2	3,189.04	1/2	3,552.70
3/4	289.57	3/4	650.76	3/4	1,014.41	3/4	1,377.85	3/4	1,741.64	3/4	2,105.44	3/4	2,469.24	3/4	2,832.95	3/4	3,196.62	3/4	3,560.28
10	297.00	10	658.34	10	1,021.98	10	1,385.43	10	1,749.22	10	2,113.02	10	2,476.82	10	2,840.53	10	3,204.19	10	3,567.86
1/4	304.43	1/4	665.92	1/4	1,029.55	1/4	1,393.01	1/4	1,756.80	1/4	2,120.60	1/4	2,484.40	1/4	2,848.11	1/4	3,211.77	1/4	3,575.43
1/2	311.86	1/2	673.50	1/2	1,037.11	1/2	1,400.59	1/2	1,764.38	1/2	2,128.18	1/2	2,491.98	1/2	2,855.68	1/2	3,219.35	1/2	3,583.01
3/4	319.29	3/4	681.08	3/4	1,044.68	3/4	1,408.16	3/4	1,771.96	3/4	2,135.76	3/4	2,499.55	3/4	2,863.26	3/4	3,226.92	3/4	3,590.58
11	326.72	11	688.65	11	1,052.25	11	1,415.74	11	1,779.54	11	2,143.34	11	2,507.13	11	2,870.84	11	3,234.50	11	3,598.16
1/4	334.15	1/4	696.23	1/4	1,059.81	1/4	1,423.32	1/4	1,787.12	1/4	2,150.92	1/4	2,514.71	1/4	2,878.41	1/4	3,242.08	1/4	3,605.74
1/2	341.58	1/2	703.81	1/2	1,067.38	1/2	1,430.90	1/2	1,794.70	1/2	2,158.49	1/2	2,522.29	1/2	2,885.99	1/2	3,249.65	1/2	3,613.31
3/4	349.01	3/4	711.39	3/4	1,074.95	3/4	1,438.48	3/4	1,802.28	3/4	2,166.07	3/4	2,529.87	3/4	2,893.57	3/4	3,257.23	3/4	3,620.89

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

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



BARGE "EMS 516B"

1 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08 1/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	3,628.47	0	3,992.13	0	4,355.09	0	4,704.59	0	5,035.73	0		0		0		0		0	
1/4	3,636.04	1/4	3,999.71	1/4	4,362.55	1/4	4,711.66	1/4	5,043.16	1/4		1/4		1/4		1/4		1/4	
1/2	3,643.62	1/2	4,007.28	1/2	4,370.00	1/2	4,718.74	1/2	5,050.58	1/2		1/2		1/2		1/2		1/2	
3/4	3,651.20	3/4	4,014.86	3/4	4,377.46	3/4	4,725.81	3/4	5,058.01	3/4		3/4		3/4		3/4		3/4	
1	3,658.77	1	4,022.43	1	4,384.91	1	4,732.89	1	5,065.43	1		1		1		1		1	
1/4	3,666.35	1/4	4,030.01	1/4	4,392.34	1/4	4,739.90	1/4	5,072.91	1/4		1/4		1/4		1/4		1/4	
1/2	3,673.92	1/2	4,037.59	1/2	4,399.76	1/2	4,746.92	1/2	5,080.39	1/2		1/2		1/2		1/2		1/2	
3/4	3,681.50	3/4	4,045.16	3/4	4,407.19	3/4	4,753.93	3/4	5,087.86	3/4		3/4		3/4		3/4		3/4	
2	3,689.08	2	4,052.74	2	4,414.61	2	4,760.95	2	5,095.34	2		2		2		2		2	
1/4	3,696.65	1/4	4,060.32	1/4	4,422.01	1/4	4,767.93	1/4	5,102.82	1/4		1/4		1/4		1/4		1/4	
1/2	3,704.23	1/2	4,067.89	1/2	4,429.40	1/2	4,774.91	1/2	5,110.30	1/2		1/2		1/2		1/2		1/2	
3/4	3,711.81	3/4	4,075.47	3/4	4,436.80	3/4	4,781.89	3/4	5,117.78	3/4		3/4		3/4		3/4		3/4	
3	3,719.38	3	4,083.04	3	4,444.19	3	4,788.87	3	5,125.25	3		3		3		3		3	
1/4	3,726.96	1/4	4,090.62	1/4	4,451.56	1/4	4,795.82	1/4	5,132.73	1/4		1/4		1/4		1/4		1/4	
1/2	3,734.53	1/2	4,098.20	1/2	4,458.92	1/2	4,802.77	1/2	5,140.21	1/2		1/2		1/2		1/2		1/2	
3/4	3,742.11	3/4	4,105.77	3/4	4,466.28	3/4	4,809.72	3/4	5,147.69	3/4		3/4		3/4		3/4		3/4	
4	3,749.69	4	4,113.35	4	4,473.64	4	4,816.67	4	5,155.16	4		4		4		4		4	
1/4	3,757.26	1/4	4,120.93	1/4	4,480.97	1/4	4,823.59	1/4	5,162.64	1/4		1/4		1/4		1/4		1/4	
1/2	3,764.84	1/2	4,128.50	1/2	4,488.30	1/2	4,830.50	1/2	5,170.12	1/2		1/2		1/2		1/2		1/2	
3/4	3,772.42	3/4	4,136.08	3/4	4,495.62	3/4	4,837.42	3/4	5,177.60	3/4		3/4		3/4		3/4		3/4	
5	3,779.99	5	4,143.65	5	4,502.95	5	4,844.34	5	5,185.07	5		5		5		5		5	
1/4	3,787.57	1/4	4,151.23	1/4	4,510.25	1/4	4,851.22	1/4	5,192.42	1/4		1/4		1/4		1/4		1/4	
1/2	3,795.15	1/2	4,158.81	1/2	4,517.54	1/2	4,858.10	1/2	5,199.76	1/2		1/2		1/2		1/2		1/2	
3/4	3,802.72	3/4	4,166.38	3/4	4,524.84	3/4	4,864.98	3/4	5,207.10	3/4		3/4		3/4		3/4		3/4	
6	3,810.30	6	4,173.96	6	4,532.14	6	4,871.87	6	5,214.44	6		6		6		6		6	
1/4	3,817.87	1/4	4,181.54	1/4	4,539.40	1/4	4,878.72	1/4	5,220.79	1/4		1/4		1/4		1/4		1/4	
1/2	3,825.45	1/2	4,189.11	1/2	4,546.67	1/2	4,885.57	1/2	5,227.14	1/2		1/2		1/2		1/2		1/2	
3/4	3,833.03	3/4	4,196.69	3/4	4,553.94	3/4	4,892.42	3/4	5,233.49	3/4		3/4		3/4		3/4		3/4	
7	3,840.60	7	4,204.27	7	4,561.20	7	4,899.27	7	5,239.85	7		7		7		7		7	
1/4	3,848.18	1/4	4,211.84	1/4	4,568.44	1/4	4,906.10	1/4	5,244.98	1/4		1/4		1/4		1/4		1/4	
1/2	3,855.76	1/2	4,219.42	1/2	4,575.67	1/2	4,912.92	1/2	5,250.11	1/2		1/2		1/2		1/2		1/2	
3/4	3,863.33	3/4	4,226.99	3/4	4,582.90	3/4	4,919.74	3/4	5,255.25	3/4		3/4		3/4		3/4		3/4	
8	3,870.91	8	4,234.57	8	4,590.14	8	4,926.56	8	5,260.38	8		8		8		8		8	
1/4	3,878.48	1/4	4,242.14	1/4	4,597.34	1/4	4,933.35	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,886.06	1/2	4,249.71	1/2	4,604.54	1/2	4,940.14	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,893.64	3/4	4,257.28	3/4	4,611.73	3/4	4,946.94	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,901.21	9	4,264.85	9	4,618.93	9	4,953.73	9		9		9		9		9		9	
1/4	3,908.79	1/4	4,272.41	1/4	4,626.10	1/4	4,960.49	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,916.37	1/2	4,279.96	1/2	4,633.27	1/2	4,967.25	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,923.94	3/4	4,287.51	3/4	4,640.44	3/4	4,974.01	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,931.52	10	4,295.06	10	4,647.61	10	4,980.77	10		10		10		10		10		10	
1/4	3,939.09	1/4	4,302.58	1/4	4,654.74	1/4	4,987.49	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,946.67	1/2	4,310.10	1/2	4,661.88	1/2	4,994.22	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,954.25	3/4	4,317.63	3/4	4,669.02	3/4	5,000.95	3/4		3/4		3/4		3/4		3/4		3/4	
11	3,961.82	11	4,325.15	11	4,676.16	11	5,007.67	11		11		11		11		11		11	
1/4	3,969.40	1/4	4,332.63	1/4	4,683.27	1/4	5,014.69	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,976.98	1/2	4,340.12	1/2	4,690.37	1/2	5,021.70	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,984.55	3/4	4,347.60	3/4	4,697.48	3/4	5,028.72	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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

PRECISION MEASUREMENT
& ANALYSIS, INC.

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CANCELS AND SUPERCEDES
ALL PRIOR TO 04/2020



BARGE "EMS 516B"

1 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	21.43	0	356.09	0	718.24	0	1,080.50	0	1,442.70	0	1,806.13	0	2,169.56	0	2,532.99	0	2,896.13	0	3,259.42
1/4	25.68	1/4	363.51	1/4	725.81	1/4	1,088.02	1/4	1,450.28	1/4	1,813.70	1/4	2,177.13	1/4	2,540.56	1/4	2,903.69	1/4	3,266.99
1/2	29.92	1/2	370.93	1/2	733.39	1/2	1,095.54	1/2	1,457.85	1/2	1,821.27	1/2	2,184.70	1/2	2,548.13	1/2	2,911.26	1/2	3,274.56
3/4	34.17	3/4	378.36	3/4	740.96	3/4	1,103.06	3/4	1,465.42	3/4	1,828.85	3/4	2,192.27	3/4	2,555.70	3/4	2,918.83	3/4	3,282.12
1	38.41	1	385.78	1	748.53	1	1,110.57	1	1,472.99	1	1,836.42	1	2,199.84	1	2,563.27	1	2,926.40	1	3,289.69
1/4	43.92	1/4	393.20	1/4	756.10	1/4	1,118.09	1/4	1,480.56	1/4	1,843.99	1/4	2,207.42	1/4	2,570.84	1/4	2,933.97	1/4	3,297.26
1/2	49.42	1/2	400.63	1/2	763.67	1/2	1,125.61	1/2	1,488.13	1/2	1,851.56	1/2	2,214.99	1/2	2,578.41	1/2	2,941.54	1/2	3,304.83
3/4	54.93	3/4	408.05	3/4	771.24	3/4	1,133.13	3/4	1,495.70	3/4	1,859.13	3/4	2,222.56	3/4	2,585.99	3/4	2,949.11	3/4	3,312.40
2	60.43	2	415.47	2	778.81	2	1,140.65	2	1,503.28	2	1,866.70	2	2,230.13	2	2,593.56	2	2,956.67	2	3,319.97
1/4	67.20	1/4	423.02	1/4	786.38	1/4	1,148.17	1/4	1,510.85	1/4	1,874.27	1/4	2,237.70	1/4	2,601.13	1/4	2,964.24	1/4	3,327.54
1/2	73.97	1/2	430.58	1/2	793.95	1/2	1,155.69	1/2	1,518.42	1/2	1,881.85	1/2	2,245.27	1/2	2,608.70	1/2	2,971.81	1/2	3,335.10
3/4	80.73	3/4	438.13	3/4	801.52	3/4	1,163.21	3/4	1,525.99	3/4	1,889.42	3/4	2,252.84	3/4	2,616.27	3/4	2,979.38	3/4	3,342.67
3	87.50	3	445.68	3	809.10	3	1,170.73	3	1,533.56	3	1,896.99	3	2,260.42	3	2,623.84	3	2,986.95	3	3,350.24
1/4	94.98	1/4	453.25	1/4	816.67	1/4	1,178.25	1/4	1,541.13	1/4	1,904.56	1/4	2,267.99	1/4	2,631.41	1/4	2,994.52	1/4	3,357.81
1/2	102.46	1/2	460.83	1/2	824.24	1/2	1,185.77	1/2	1,548.70	1/2	1,912.13	1/2	2,275.56	1/2	2,638.98	1/2	3,002.09	1/2	3,365.38
3/4	109.93	3/4	468.40	3/4	831.81	3/4	1,193.29	3/4	1,556.28	3/4	1,919.70	3/4	2,283.13	3/4	2,646.56	3/4	3,009.66	3/4	3,372.95
4	117.41	4	475.97	4	839.38	4	1,200.81	4	1,563.85	4	1,927.27	4	2,290.70	4	2,654.13	4	3,017.22	4	3,380.52
1/4	124.97	1/4	483.54	1/4	846.95	1/4	1,208.33	1/4	1,571.42	1/4	1,934.85	1/4	2,298.27	1/4	2,661.68	1/4	3,024.79	1/4	3,388.09
1/2	132.52	1/2	491.11	1/2	854.52	1/2	1,215.85	1/2	1,578.99	1/2	1,942.42	1/2	2,305.84	1/2	2,669.24	1/2	3,032.36	1/2	3,395.65
3/4	140.08	3/4	498.68	3/4	862.09	3/4	1,223.37	3/4	1,586.56	3/4	1,949.99	3/4	2,313.42	3/4	2,676.80	3/4	3,039.93	3/4	3,403.22
5	147.64	5	506.25	5	869.66	5	1,230.89	5	1,594.13	5	1,957.56	5	2,320.99	5	2,684.36	5	3,047.50	5	3,410.79
1/4	155.19	1/4	513.82	1/4	877.24	1/4	1,238.42	1/4	1,601.70	1/4	1,965.13	1/4	2,328.56	1/4	2,691.91	1/4	3,055.07	1/4	3,418.36
1/2	162.75	1/2	521.39	1/2	884.81	1/2	1,245.95	1/2	1,609.28	1/2	1,972.70	1/2	2,336.13	1/2	2,699.47	1/2	3,062.64	1/2	3,425.93
3/4	170.31	3/4	528.97	3/4	892.38	3/4	1,253.48	3/4	1,616.85	3/4	1,980.27	3/4	2,343.70	3/4	2,707.03	3/4	3,070.20	3/4	3,433.50
6	177.86	6	536.54	6	899.95	6	1,261.01	6	1,624.42	6	1,987.85	6	2,351.27	6	2,714.58	6	3,077.77	6	3,441.07
1/4	185.30	1/4	544.11	1/4	907.49	1/4	1,268.58	1/4	1,631.99	1/4	1,995.42	1/4	2,358.84	1/4	2,722.14	1/4	3,085.34	1/4	3,448.63
1/2	192.74	1/2	551.68	1/2	915.02	1/2	1,276.14	1/2	1,639.56	1/2	2,002.99	1/2	2,366.42	1/2	2,729.70	1/2	3,092.91	1/2	3,456.20
3/4	200.18	3/4	559.25	3/4	922.56	3/4	1,283.71	3/4	1,647.13	3/4	2,010.56	3/4	2,373.99	3/4	2,737.25	3/4	3,100.48	3/4	3,463.77
7	207.62	7	566.82	7	930.10	7	1,291.28	7	1,654.70	7	2,018.13	7	2,381.56	7	2,744.81	7	3,108.05	7	3,471.34
1/4	215.05	1/4	574.39	1/4	937.62	1/4	1,298.85	1/4	1,662.28	1/4	2,025.70	1/4	2,389.13	1/4	2,752.36	1/4	3,115.62	1/4	3,478.91
1/2	222.47	1/2	581.96	1/2	945.14	1/2	1,306.42	1/2	1,669.85	1/2	2,033.27	1/2	2,396.70	1/2	2,759.92	1/2	3,123.18	1/2	3,486.48
3/4	229.89	3/4	589.53	3/4	952.66	3/4	1,313.99	3/4	1,677.42	3/4	2,040.85	3/4	2,404.27	3/4	2,767.48	3/4	3,130.75	3/4	3,494.05
8	237.32	8	597.11	8	960.18	8	1,321.56	8	1,684.99	8	2,048.42	8	2,411.84	8	2,775.03	8	3,138.32	8	3,501.61
1/4	244.74	1/4	604.68	1/4	967.70	1/4	1,329.13	1/4	1,692.56	1/4	2,055.99	1/4	2,419.42	1/4	2,782.60	1/4	3,145.89	1/4	3,509.18
1/2	252.16	1/2	612.25	1/2	975.22	1/2	1,336.70	1/2	1,700.13	1/2	2,063.56	1/2	2,426.99	1/2	2,790.17	1/2	3,153.46	1/2	3,516.75
3/4	259.58	3/4	619.82	3/4	982.74	3/4	1,344.28	3/4	1,707.70	3/4	2,071.13	3/4	2,434.56	3/4	2,797.74	3/4	3,161.03	3/4	3,524.32
9	267.01	9	627.39	9	990.26	9	1,351.85	9	1,715.27	9	2,078.70	9	2,442.13	9	2,805.30	9	3,168.60	9	3,531.89
1/4	274.43	1/4	634.96	1/4	997.78	1/4	1,359.42	1/4	1,722.85	1/4	2,086.27	1/4	2,449.70	1/4	2,812.87	1/4	3,176.16	1/4	3,539.46
1/2	281.85	1/2	642.53	1/2	1,005.30	1/2	1,366.99	1/2	1,730.42	1/2	2,093.84	1/2	2,457.27	1/2	2,820.44	1/2	3,183.73	1/2	3,547.03
3/4	289.28	3/4	650.10	3/4	1,012.82	3/4	1,374.56	3/4	1,737.99	3/4	2,101.42	3/4	2,464.84	3/4	2,828.01	3/4	3,191.30	3/4	3,554.59
10	296.70	10	657.67	10	1,020.34	10	1,382.13	10	1,745.56	10	2,108.99	10	2,472.41	10	2,835.58	10	3,198.87	10	3,562.16
1/4	304.12	1/4	665.25	1/4	1,027.86	1/4	1,389.70	1/4	1,753.13	1/4	2,116.56	1/4	2,479.99	1/4	2,843.15	1/4	3,206.44	1/4	3,569.73
1/2	311.55	1/2	672.82	1/2	1,035.38	1/2	1,397.28	1/2	1,760.70	1/2	2,124.13	1/2	2,487.56	1/2	2,850.71	1/2	3,214.01	1/2	3,577.30
3/4	318.97	3/4	680.39	3/4	1,042.90	3/4	1,404.85	3/4	1,768.27	3/4	2,131.70	3/4	2,495.13	3/4	2,858.28	3/4	3,221.58	3/4	3,584.87
11	326.39	11	687.96	11	1,050.42	11	1,412.42	11	1,775.85	11	2,139.27	11	2,502.70	11	2,865.85	11	3,229.14	11	3,592.44
1/4	333.82	1/4	695.53	1/4	1,057.94	1/4	1,419.99	1/4	1,783.42	1/4	2,146.84	1/4	2,510.27	1/4	2,873.42	1/4	3,236.71	1/4	3,600.01
1/2	341.24	1/2	703.10	1/2	1,065.46	1/2	1,427.56	1/2	1,790.99	1/2	2,154.42	1/2	2,517.84	1/2	2,880.99	1/2	3,244.28	1/2	3,607.57
3/4	348.66	3/4	710.67	3/4	1,072.98	3/4	1,435.13	3/4	1,798.56	3/4	2,161.99	3/4	2,525.41	3/4	2,888.56	3/4	3,251.85	3/4	3,615.14

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

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



BARGE "EMS 516B"

1 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	3,622.71	0	3,986.00	0	4,348.61	0	4,697.76	0	5,028.56	0		0		0		0		0	
1/4	3,630.28	1/4	3,993.57	1/4	4,356.06	1/4	4,704.83	1/4	5,035.98	1/4		1/4		1/4		1/4		1/4	
1/2	3,637.85	1/2	4,001.14	1/2	4,363.51	1/2	4,711.89	1/2	5,043.39	1/2		1/2		1/2		1/2		1/2	
3/4	3,645.42	3/4	4,008.71	3/4	4,370.96	3/4	4,718.96	3/4	5,050.81	3/4		3/4		3/4		3/4		3/4	
1	3,652.99	1	4,016.28	1	4,378.41	1	4,726.03	1	5,058.23	1		1		1		1		1	
1/4	3,660.55	1/4	4,023.85	1/4	4,385.82	1/4	4,733.03	1/4	5,065.70	1/4		1/4		1/4		1/4		1/4	
1/2	3,668.12	1/2	4,031.42	1/2	4,393.24	1/2	4,740.04	1/2	5,073.17	1/2		1/2		1/2		1/2		1/2	
3/4	3,675.69	3/4	4,038.98	3/4	4,400.66	3/4	4,747.05	3/4	5,080.64	3/4		3/4		3/4		3/4		3/4	
2	3,683.26	2	4,046.55	2	4,408.08	2	4,754.06	2	5,088.11	2		2		2		2		2	
1/4	3,690.83	1/4	4,054.12	1/4	4,415.46	1/4	4,761.03	1/4	5,095.58	1/4		1/4		1/4		1/4		1/4	
1/2	3,698.40	1/2	4,061.69	1/2	4,422.85	1/2	4,768.00	1/2	5,103.05	1/2		1/2		1/2		1/2		1/2	
3/4	3,705.97	3/4	4,069.26	3/4	4,430.24	3/4	4,774.98	3/4	5,110.52	3/4		3/4		3/4		3/4		3/4	
3	3,713.53	3	4,076.83	3	4,437.63	3	4,781.95	3	5,117.99	3		3		3		3		3	
1/4	3,721.10	1/4	4,084.40	1/4	4,444.98	1/4	4,788.89	1/4	5,125.46	1/4		1/4		1/4		1/4		1/4	
1/2	3,728.67	1/2	4,091.96	1/2	4,452.34	1/2	4,795.84	1/2	5,132.93	1/2		1/2		1/2		1/2		1/2	
3/4	3,736.24	3/4	4,099.53	3/4	4,459.69	3/4	4,802.78	3/4	5,140.40	3/4		3/4		3/4		3/4		3/4	
4	3,743.81	4	4,107.10	4	4,467.04	4	4,809.72	4	5,147.87	4		4		4		4		4	
1/4	3,751.38	1/4	4,114.67	1/4	4,474.36	1/4	4,816.63	1/4	5,155.34	1/4		1/4		1/4		1/4		1/4	
1/2	3,758.95	1/2	4,122.24	1/2	4,481.68	1/2	4,823.54	1/2	5,162.81	1/2		1/2		1/2		1/2		1/2	
3/4	3,766.52	3/4	4,129.81	3/4	4,489.00	3/4	4,830.45	3/4	5,170.28	3/4		3/4		3/4		3/4		3/4	
5	3,774.08	5	4,137.38	5	4,496.32	5	4,837.36	5	5,177.75	5		5		5		5		5	
1/4	3,781.65	1/4	4,144.95	1/4	4,503.61	1/4	4,844.24	1/4	5,185.08	1/4		1/4		1/4		1/4		1/4	
1/2	3,789.22	1/2	4,152.51	1/2	4,510.90	1/2	4,851.11	1/2	5,192.41	1/2		1/2		1/2		1/2		1/2	
3/4	3,796.79	3/4	4,160.08	3/4	4,518.19	3/4	4,857.99	3/4	5,199.74	3/4		3/4		3/4		3/4		3/4	
6	3,804.36	6	4,167.65	6	4,525.48	6	4,864.86	6	5,207.07	6		6		6		6		6	
1/4	3,811.93	1/4	4,175.22	1/4	4,532.74	1/4	4,871.71	1/4	5,213.42	1/4		1/4		1/4		1/4		1/4	
1/2	3,819.50	1/2	4,182.79	1/2	4,540.00	1/2	4,878.55	1/2	5,219.77	1/2		1/2		1/2		1/2		1/2	
3/4	3,827.06	3/4	4,190.36	3/4	4,547.26	3/4	4,885.40	3/4	5,226.11	3/4		3/4		3/4		3/4		3/4	
7	3,834.63	7	4,197.93	7	4,554.52	7	4,892.24	7	5,232.46	7		7		7		7		7	
1/4	3,842.20	1/4	4,205.49	1/4	4,561.74	1/4	4,899.06	1/4	5,237.59	1/4		1/4		1/4		1/4		1/4	
1/2	3,849.77	1/2	4,213.06	1/2	4,568.97	1/2	4,905.87	1/2	5,242.71	1/2		1/2		1/2		1/2		1/2	
3/4	3,857.34	3/4	4,220.63	3/4	4,576.20	3/4	4,912.69	3/4	5,247.84	3/4		3/4		3/4		3/4		3/4	
8	3,864.91	8	4,228.20	8	4,583.42	8	4,919.50	8	5,252.97	8		8		8		8		8	
1/4	3,872.48	1/4	4,235.77	1/4	4,590.61	1/4	4,926.29	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,880.04	1/2	4,243.33	1/2	4,597.81	1/2	4,933.07	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,887.61	3/4	4,250.90	3/4	4,605.00	3/4	4,939.86	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,895.18	9	4,258.47	9	4,612.19	9	4,946.64	9		9		9		9		9		9	
1/4	3,902.75	1/4	4,266.01	1/4	4,619.35	1/4	4,953.39	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,910.32	1/2	4,273.56	1/2	4,626.51	1/2	4,960.15	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,917.89	3/4	4,281.10	3/4	4,633.67	3/4	4,966.90	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,925.46	10	4,288.65	10	4,640.83	10	4,973.65	10		10		10		10		10		10	
1/4	3,933.02	1/4	4,296.16	1/4	4,647.96	1/4	4,980.37	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,940.59	1/2	4,303.67	1/2	4,655.09	1/2	4,987.09	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,948.16	3/4	4,311.19	3/4	4,662.23	3/4	4,993.81	3/4		3/4		3/4		3/4		3/4		3/4	
11	3,955.73	11	4,318.70	11	4,669.36	11	5,000.53	11		11		11		11		11		11	
1/4	3,963.30	1/4	4,326.18	1/4	4,676.46	1/4	5,007.54	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,970.87	1/2	4,333.66	1/2	4,683.56	1/2	5,014.54	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,978.44	3/4	4,341.14	3/4	4,690.66	3/4	5,021.55	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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

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CANCELS AND SUPERCEDES
ALL PRIOR TO 04/2020



BARGE "EMS 516B"

2 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	21.34	0	354.52	0	715.10	0	1,076.70	0	1,438.29	0	1,800.13	0	2,161.97	0	2,523.82	0	2,885.57	0	3,247.28
1/4	25.57	1/4	361.91	1/4	722.64	1/4	1,084.22	1/4	1,445.83	1/4	1,807.67	1/4	2,169.51	1/4	2,531.35	1/4	2,893.10	1/4	3,254.82
1/2	29.79	1/2	369.30	1/2	730.17	1/2	1,091.75	1/2	1,453.36	1/2	1,815.21	1/2	2,177.05	1/2	2,538.89	1/2	2,900.64	1/2	3,262.35
3/4	34.02	3/4	376.69	3/4	737.71	3/4	1,099.27	3/4	1,460.90	3/4	1,822.75	3/4	2,184.59	3/4	2,546.43	3/4	2,908.18	3/4	3,269.89
1	38.25	1	384.08	1	745.25	1	1,106.80	1	1,468.44	1	1,830.28	1	2,192.13	1	2,553.97	1	2,915.71	1	3,277.42
1/4	43.73	1/4	391.47	1/4	752.79	1/4	1,114.33	1/4	1,475.98	1/4	1,837.82	1/4	2,199.67	1/4	2,561.51	1/4	2,923.25	1/4	3,284.96
1/2	49.21	1/2	398.87	1/2	760.33	1/2	1,121.85	1/2	1,483.52	1/2	1,845.36	1/2	2,207.20	1/2	2,569.05	1/2	2,930.78	1/2	3,292.50
3/4	54.69	3/4	406.26	3/4	767.86	3/4	1,129.38	3/4	1,491.06	3/4	1,852.90	3/4	2,214.74	3/4	2,576.59	3/4	2,938.32	3/4	3,300.03
2	60.17	2	413.65	2	775.40	2	1,136.90	2	1,498.59	2	1,860.44	2	2,222.28	2	2,584.12	2	2,945.85	2	3,307.57
1/4	66.91	1/4	421.17	1/4	782.94	1/4	1,144.43	1/4	1,506.13	1/4	1,867.98	1/4	2,229.82	1/4	2,591.66	1/4	2,953.39	1/4	3,315.10
1/2	73.65	1/2	428.69	1/2	790.48	1/2	1,151.96	1/2	1,513.67	1/2	1,875.51	1/2	2,237.36	1/2	2,599.20	1/2	2,960.93	1/2	3,322.64
3/4	80.38	3/4	436.21	3/4	798.02	3/4	1,159.48	3/4	1,521.21	3/4	1,883.05	3/4	2,244.90	3/4	2,606.74	3/4	2,968.46	3/4	3,330.17
3	87.12	3	443.73	3	805.55	3	1,167.01	3	1,528.75	3	1,890.59	3	2,252.43	3	2,614.28	3	2,976.00	3	3,337.71
1/4	94.57	1/4	451.26	1/4	813.09	1/4	1,174.54	1/4	1,536.29	1/4	1,898.13	1/4	2,259.97	1/4	2,621.81	1/4	2,983.53	1/4	3,345.25
1/2	102.01	1/2	458.80	1/2	820.63	1/2	1,182.06	1/2	1,543.82	1/2	1,905.67	1/2	2,267.51	1/2	2,629.35	1/2	2,991.07	1/2	3,352.78
3/4	109.46	3/4	466.34	3/4	828.17	3/4	1,189.59	3/4	1,551.36	3/4	1,913.21	3/4	2,275.05	3/4	2,636.89	3/4	2,998.60	3/4	3,360.32
4	116.90	4	473.88	4	835.71	4	1,197.11	4	1,558.90	4	1,920.74	4	2,282.59	4	2,644.43	4	3,006.14	4	3,367.85
1/4	124.42	1/4	481.42	1/4	843.24	1/4	1,204.64	1/4	1,566.44	1/4	1,928.28	1/4	2,290.13	1/4	2,651.96	1/4	3,013.67	1/4	3,375.39
1/2	131.95	1/2	488.95	1/2	850.78	1/2	1,212.17	1/2	1,573.98	1/2	1,935.82	1/2	2,297.66	1/2	2,659.50	1/2	3,021.21	1/2	3,382.92
3/4	139.47	3/4	496.49	3/4	858.32	3/4	1,219.69	3/4	1,581.52	3/4	1,943.36	3/4	2,305.20	3/4	2,667.03	3/4	3,028.75	3/4	3,390.46
5	146.99	5	504.03	5	865.86	5	1,227.22	5	1,589.05	5	1,950.90	5	2,312.74	5	2,674.57	5	3,036.28	5	3,398.00
1/4	154.52	1/4	511.57	1/4	873.40	1/4	1,234.76	1/4	1,596.59	1/4	1,958.44	1/4	2,320.28	1/4	2,682.10	1/4	3,043.82	1/4	3,405.53
1/2	162.04	1/2	519.11	1/2	880.94	1/2	1,242.29	1/2	1,604.13	1/2	1,965.97	1/2	2,327.82	1/2	2,689.64	1/2	3,051.35	1/2	3,413.07
3/4	169.56	3/4	526.64	3/4	888.47	3/4	1,249.83	3/4	1,611.67	3/4	1,973.51	3/4	2,335.36	3/4	2,697.18	3/4	3,058.89	3/4	3,420.60
6	177.09	6	534.18	6	896.01	6	1,257.37	6	1,619.21	6	1,981.05	6	2,342.89	6	2,704.71	6	3,066.42	6	3,428.14
1/4	184.49	1/4	541.72	1/4	903.55	1/4	1,264.90	1/4	1,626.75	1/4	1,988.59	1/4	2,350.43	1/4	2,712.25	1/4	3,073.96	1/4	3,435.67
1/2	191.90	1/2	549.26	1/2	911.09	1/2	1,272.44	1/2	1,634.29	1/2	1,996.13	1/2	2,357.97	1/2	2,719.78	1/2	3,081.50	1/2	3,443.21
3/4	199.31	3/4	556.80	3/4	918.63	3/4	1,279.98	3/4	1,641.82	3/4	2,003.67	3/4	2,365.51	3/4	2,727.32	3/4	3,089.03	3/4	3,450.75
7	206.71	7	564.34	7	926.16	7	1,287.52	7	1,649.36	7	2,011.21	7	2,373.05	7	2,734.85	7	3,096.57	7	3,458.28
1/4	214.11	1/4	571.87	1/4	933.69	1/4	1,295.06	1/4	1,656.90	1/4	2,018.74	1/4	2,380.59	1/4	2,742.39	1/4	3,104.10	1/4	3,465.82
1/2	221.50	1/2	579.41	1/2	941.22	1/2	1,302.60	1/2	1,664.44	1/2	2,026.28	1/2	2,388.13	1/2	2,749.93	1/2	3,111.64	1/2	3,473.35
3/4	228.89	3/4	586.95	3/4	948.75	3/4	1,310.13	3/4	1,671.98	3/4	2,033.82	3/4	2,395.66	3/4	2,757.46	3/4	3,119.17	3/4	3,480.89
8	236.28	8	594.49	8	956.28	8	1,317.67	8	1,679.52	8	2,041.36	8	2,403.20	8	2,765.00	8	3,126.71	8	3,488.42
1/4	243.67	1/4	602.03	1/4	963.80	1/4	1,325.21	1/4	1,687.05	1/4	2,048.90	1/4	2,410.74	1/4	2,772.53	1/4	3,134.25	1/4	3,495.96
1/2	251.06	1/2	609.56	1/2	971.33	1/2	1,332.75	1/2	1,694.59	1/2	2,056.44	1/2	2,418.28	1/2	2,780.07	1/2	3,141.78	1/2	3,503.50
3/4	258.45	3/4	617.10	3/4	978.85	3/4	1,340.29	3/4	1,702.13	3/4	2,063.97	3/4	2,425.82	3/4	2,787.60	3/4	3,149.32	3/4	3,511.03
9	265.84	9	624.64	9	986.38	9	1,347.83	9	1,709.67	9	2,071.51	9	2,433.36	9	2,795.14	9	3,156.85	9	3,518.57
1/4	273.23	1/4	632.18	1/4	993.91	1/4	1,355.36	1/4	1,717.21	1/4	2,079.05	1/4	2,440.89	1/4	2,802.68	1/4	3,164.39	1/4	3,526.10
1/2	280.62	1/2	639.72	1/2	1,001.43	1/2	1,362.90	1/2	1,724.75	1/2	2,086.59	1/2	2,448.43	1/2	2,810.21	1/2	3,171.92	1/2	3,533.64
3/4	288.01	3/4	647.25	3/4	1,008.96	3/4	1,370.44	3/4	1,732.28	3/4	2,094.13	3/4	2,455.97	3/4	2,817.75	3/4	3,179.46	3/4	3,541.17
10	295.40	10	654.79	10	1,016.49	10	1,377.98	10	1,739.82	10	2,101.67	10	2,463.51	10	2,825.28	10	3,187.00	10	3,548.71
1/4	302.79	1/4	662.33	1/4	1,024.01	1/4	1,385.52	1/4	1,747.36	1/4	2,109.20	1/4	2,471.05	1/4	2,832.82	1/4	3,194.53	1/4	3,556.25
1/2	310.18	1/2	669.87	1/2	1,031.54	1/2	1,393.06	1/2	1,754.90	1/2	2,116.74	1/2	2,478.59	1/2	2,840.35	1/2	3,202.07	1/2	3,563.78
3/4	317.57	3/4	677.41	3/4	1,039.06	3/4	1,400.59	3/4	1,762.44	3/4	2,124.28	3/4	2,486.12	3/4	2,847.89	3/4	3,209.60	3/4	3,571.32
11	324.96	11	684.94	11	1,046.59	11	1,408.13	11	1,769.98	11	2,131.82	11	2,493.66	11	2,855.43	11	3,217.14	11	3,578.85
1/4	332.35	1/4	692.48	1/4	1,054.12	1/4	1,415.67	1/4	1,777.51	1/4	2,139.36	1/4	2,501.20	1/4	2,862.96	1/4	3,224.67	1/4	3,586.39
1/2	339.74	1/2	700.02	1/2	1,061.64	1/2	1,423.21	1/2	1,785.05	1/2	2,146.90	1/2	2,508.74	1/2	2,870.50	1/2	3,232.21	1/2	3,593.92
3/4	347.13	3/4	707.56	3/4	1,069.17	3/4	1,430.75	3/4	1,792.59	3/4	2,154.43	3/4	2,516.28	3/4	2,878.03	3/4	3,239.75	3/4	3,601.46

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

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



BARGE "EMS 516B"

2 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	3,609.00	0	3,970.71	0	4,331.72	0	4,679.34	0	5,008.69	0		0		0		0		0	
1/4	3,616.53	1/4	3,978.24	1/4	4,339.13	1/4	4,686.38	1/4	5,016.08	1/4		1/4		1/4		1/4		1/4	
1/2	3,624.07	1/2	3,985.78	1/2	4,346.55	1/2	4,693.41	1/2	5,023.46	1/2		1/2		1/2		1/2		1/2	
3/4	3,631.60	3/4	3,993.32	3/4	4,353.96	3/4	4,700.45	3/4	5,030.85	3/4		3/4		3/4		3/4		3/4	
1	3,639.14	1	4,000.85	1	4,361.38	1	4,707.48	1	5,038.23	1		1		1		1		1	
1/4	3,646.67	1/4	4,008.39	1/4	4,368.76	1/4	4,714.46	1/4	5,045.67	1/4		1/4		1/4		1/4		1/4	
1/2	3,654.21	1/2	4,015.92	1/2	4,376.15	1/2	4,721.44	1/2	5,053.11	1/2		1/2		1/2		1/2		1/2	
3/4	3,661.75	3/4	4,023.46	3/4	4,383.54	3/4	4,728.41	3/4	5,060.54	3/4		3/4		3/4		3/4		3/4	
2	3,669.28	2	4,030.99	2	4,390.92	2	4,735.39	2	5,067.98	2		2		2		2		2	
1/4	3,676.82	1/4	4,038.53	1/4	4,398.28	1/4	4,742.33	1/4	5,075.42	1/4		1/4		1/4		1/4		1/4	
1/2	3,684.35	1/2	4,046.07	1/2	4,405.63	1/2	4,749.28	1/2	5,082.86	1/2		1/2		1/2		1/2		1/2	
3/4	3,691.89	3/4	4,053.60	3/4	4,412.99	3/4	4,756.22	3/4	5,090.29	3/4		3/4		3/4		3/4		3/4	
3	3,699.42	3	4,061.14	3	4,420.34	3	4,763.16	3	5,097.73	3		3		3		3		3	
1/4	3,706.96	1/4	4,068.67	1/4	4,427.66	1/4	4,770.08	1/4	5,105.17	1/4		1/4		1/4		1/4		1/4	
1/2	3,714.50	1/2	4,076.21	1/2	4,434.99	1/2	4,776.99	1/2	5,112.60	1/2		1/2		1/2		1/2		1/2	
3/4	3,722.03	3/4	4,083.74	3/4	4,442.31	3/4	4,783.90	3/4	5,120.04	3/4		3/4		3/4		3/4		3/4	
4	3,729.57	4	4,091.28	4	4,449.63	4	4,790.81	4	5,127.48	4		4		4		4		4	
1/4	3,737.10	1/4	4,098.82	1/4	4,456.92	1/4	4,797.69	1/4	5,134.92	1/4		1/4		1/4		1/4		1/4	
1/2	3,744.64	1/2	4,106.35	1/2	4,464.21	1/2	4,804.57	1/2	5,142.35	1/2		1/2		1/2		1/2		1/2	
3/4	3,752.17	3/4	4,113.89	3/4	4,471.49	3/4	4,811.45	3/4	5,149.79	3/4		3/4		3/4		3/4		3/4	
5	3,759.71	5	4,121.42	5	4,478.78	5	4,818.33	5	5,157.23	5		5		5		5		5	
1/4	3,767.24	1/4	4,128.96	1/4	4,486.04	1/4	4,825.18	1/4	5,164.53	1/4		1/4		1/4		1/4		1/4	
1/2	3,774.78	1/2	4,136.49	1/2	4,493.30	1/2	4,832.02	1/2	5,171.83	1/2		1/2		1/2		1/2		1/2	
3/4	3,782.32	3/4	4,144.03	3/4	4,500.56	3/4	4,838.87	3/4	5,179.13	3/4		3/4		3/4		3/4		3/4	
6	3,789.85	6	4,151.57	6	4,507.81	6	4,845.71	6	5,186.43	6		6		6		6		6	
1/4	3,797.39	1/4	4,159.10	1/4	4,515.04	1/4	4,852.53	1/4	5,192.75	1/4		1/4		1/4		1/4		1/4	
1/2	3,804.92	1/2	4,166.64	1/2	4,522.27	1/2	4,859.34	1/2	5,199.07	1/2		1/2		1/2		1/2		1/2	
3/4	3,812.46	3/4	4,174.17	3/4	4,529.50	3/4	4,866.16	3/4	5,205.38	3/4		3/4		3/4		3/4		3/4	
7	3,819.99	7	4,181.71	7	4,536.72	7	4,872.97	7	5,211.70	7		7		7		7		7	
1/4	3,827.53	1/4	4,189.24	1/4	4,543.92	1/4	4,879.76	1/4	5,216.81	1/4		1/4		1/4		1/4		1/4	
1/2	3,835.07	1/2	4,196.78	1/2	4,551.11	1/2	4,886.54	1/2	5,221.91	1/2		1/2		1/2		1/2		1/2	
3/4	3,842.60	3/4	4,204.32	3/4	4,558.31	3/4	4,893.33	3/4	5,227.02	3/4		3/4		3/4		3/4		3/4	
8	3,850.14	8	4,211.85	8	4,565.50	8	4,900.11	8	5,232.13	8		8		8		8		8	
1/4	3,857.67	1/4	4,219.38	1/4	4,572.66	1/4	4,906.87	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,865.21	1/2	4,226.91	1/2	4,579.82	1/2	4,913.62	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,872.74	3/4	4,234.44	3/4	4,586.98	3/4	4,920.38	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,880.28	9	4,241.96	9	4,594.14	9	4,927.13	9		9		9		9		9		9	
1/4	3,887.82	1/4	4,249.48	1/4	4,601.27	1/4	4,933.85	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,895.35	1/2	4,256.99	1/2	4,608.40	1/2	4,940.58	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,902.89	3/4	4,264.50	3/4	4,615.53	3/4	4,947.30	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,910.42	10	4,272.01	10	4,622.66	10	4,954.03	10		10		10		10		10		10	
1/4	3,917.96	1/4	4,279.49	1/4	4,629.76	1/4	4,960.72	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,925.49	1/2	4,286.97	1/2	4,636.86	1/2	4,967.41	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,933.03	3/4	4,294.45	3/4	4,643.96	3/4	4,974.09	3/4		3/4		3/4		3/4		3/4		3/4	
11	3,940.57	11	4,301.93	11	4,651.06	11	4,980.78	11		11		11		11		11		11	
1/4	3,948.10	1/4	4,309.38	1/4	4,658.13	1/4	4,987.76	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,955.64	1/2	4,316.82	1/2	4,665.20	1/2	4,994.74	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,963.17	3/4	4,324.27	3/4	4,672.27	3/4	5,001.71	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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

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CANCELS AND SUPERCEDES
ALL PRIOR TO 04/2020



BARGE "EMS 516B"

2 STBD INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08 1/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	21.34	0	354.57	0	715.19	0	1,069.05	0	1,422.57	0	1,784.46	0	2,146.35	0	2,508.24	0	2,868.32	0	3,230.08
1/4	25.57	1/4	361.96	1/4	722.73	1/4	1,076.24	1/4	1,430.11	1/4	1,792.00	1/4	2,153.89	1/4	2,515.78	1/4	2,875.86	1/4	3,237.62
1/2	29.80	1/2	369.35	1/2	730.27	1/2	1,083.44	1/2	1,437.65	1/2	1,799.54	1/2	2,161.43	1/2	2,523.32	1/2	2,883.40	1/2	3,245.15
3/4	34.02	3/4	376.74	3/4	737.81	3/4	1,090.63	3/4	1,445.19	3/4	1,807.08	3/4	2,168.97	3/4	2,530.86	3/4	2,890.93	3/4	3,252.69
1	38.25	1	384.13	1	745.35	1	1,097.83	1	1,452.73	1	1,814.62	1	2,176.51	1	2,538.40	1	2,898.47	1	3,260.23
1/4	43.73	1/4	391.53	1/4	752.88	1/4	1,105.03	1/4	1,460.27	1/4	1,822.16	1/4	2,184.05	1/4	2,545.94	1/4	2,906.01	1/4	3,267.76
1/2	49.21	1/2	398.92	1/2	760.42	1/2	1,112.22	1/2	1,467.81	1/2	1,829.70	1/2	2,191.59	1/2	2,553.48	1/2	2,913.54	1/2	3,275.30
3/4	54.70	3/4	406.31	3/4	767.96	3/4	1,119.42	3/4	1,475.35	3/4	1,837.24	3/4	2,199.13	3/4	2,561.02	3/4	2,921.08	3/4	3,282.84
2	60.18	2	413.70	2	775.50	2	1,126.61	2	1,482.89	2	1,844.78	2	2,206.67	2	2,568.56	2	2,928.62	2	3,290.37
1/4	66.92	1/4	421.22	1/4	783.04	1/4	1,133.81	1/4	1,490.43	1/4	1,852.32	1/4	2,214.21	1/4	2,576.10	1/4	2,936.15	1/4	3,297.91
1/2	73.65	1/2	428.74	1/2	790.58	1/2	1,141.01	1/2	1,497.97	1/2	1,859.86	1/2	2,221.75	1/2	2,583.64	1/2	2,943.69	1/2	3,305.45
3/4	80.39	3/4	436.26	3/4	798.12	3/4	1,148.20	3/4	1,505.50	3/4	1,867.40	3/4	2,229.29	3/4	2,591.18	3/4	2,951.23	3/4	3,312.98
3	87.13	3	443.78	3	805.66	3	1,155.40	3	1,513.04	3	1,874.94	3	2,236.83	3	2,598.72	3	2,958.76	3	3,320.52
1/4	94.58	1/4	451.32	1/4	813.20	1/4	1,162.59	1/4	1,520.58	1/4	1,882.47	1/4	2,244.37	1/4	2,606.25	1/4	2,966.30	1/4	3,328.06
1/2	102.02	1/2	458.86	1/2	820.74	1/2	1,169.79	1/2	1,528.12	1/2	1,890.01	1/2	2,251.91	1/2	2,613.79	1/2	2,973.84	1/2	3,335.59
3/4	109.47	3/4	466.40	3/4	828.28	3/4	1,176.98	3/4	1,535.66	3/4	1,897.55	3/4	2,259.44	3/4	2,621.32	3/4	2,981.37	3/4	3,343.13
4	116.91	4	473.94	4	835.82	4	1,184.18	4	1,543.20	4	1,905.09	4	2,266.98	4	2,628.86	4	2,988.91	4	3,350.67
1/4	124.44	1/4	481.48	1/4	843.35	1/4	1,191.38	1/4	1,550.74	1/4	1,912.63	1/4	2,274.52	1/4	2,636.30	1/4	2,996.45	1/4	3,358.20
1/2	131.96	1/2	489.02	1/2	850.89	1/2	1,198.57	1/2	1,558.28	1/2	1,920.17	1/2	2,282.06	1/2	2,643.74	1/2	3,003.98	1/2	3,365.74
3/4	139.49	3/4	496.56	3/4	858.43	3/4	1,205.77	3/4	1,565.82	3/4	1,927.71	3/4	2,289.60	3/4	2,651.19	3/4	3,011.52	3/4	3,373.28
5	147.01	5	504.09	5	865.97	5	1,212.96	5	1,573.36	5	1,935.25	5	2,297.14	5	2,658.63	5	3,019.06	5	3,380.81
1/4	154.54	1/4	511.63	1/4	873.51	1/4	1,220.17	1/4	1,580.90	1/4	1,942.79	1/4	2,304.68	1/4	2,666.06	1/4	3,026.59	1/4	3,388.35
1/2	162.06	1/2	519.17	1/2	881.05	1/2	1,227.38	1/2	1,588.44	1/2	1,950.33	1/2	2,312.22	1/2	2,673.49	1/2	3,034.13	1/2	3,395.89
3/4	169.58	3/4	526.71	3/4	888.59	3/4	1,234.58	3/4	1,595.98	3/4	1,957.87	3/4	2,319.76	3/4	2,680.92	3/4	3,041.67	3/4	3,403.42
6	177.11	6	534.25	6	896.13	6	1,241.79	6	1,603.52	6	1,965.41	6	2,327.30	6	2,688.35	6	3,049.20	6	3,410.96
1/4	184.52	1/4	541.79	1/4	903.38	1/4	1,249.29	1/4	1,611.06	1/4	1,972.95	1/4	2,334.84	1/4	2,695.78	1/4	3,056.74	1/4	3,418.50
1/2	191.92	1/2	549.33	1/2	910.62	1/2	1,256.79	1/2	1,618.60	1/2	1,980.49	1/2	2,342.38	1/2	2,703.21	1/2	3,064.28	1/2	3,426.03
3/4	199.33	3/4	556.87	3/4	917.87	3/4	1,264.29	3/4	1,626.13	3/4	1,988.03	3/4	2,349.92	3/4	2,710.64	3/4	3,071.81	3/4	3,433.57
7	206.74	7	564.41	7	925.12	7	1,271.78	7	1,633.67	7	1,995.57	7	2,357.46	7	2,718.07	7	3,079.35	7	3,441.11
1/4	214.13	1/4	571.95	1/4	932.32	1/4	1,279.32	1/4	1,641.21	1/4	2,003.10	1/4	2,365.00	1/4	2,725.50	1/4	3,086.89	1/4	3,448.64
1/2	221.52	1/2	579.49	1/2	939.52	1/2	1,286.86	1/2	1,648.75	1/2	2,010.64	1/2	2,372.54	1/2	2,732.93	1/2	3,094.42	1/2	3,456.18
3/4	228.91	3/4	587.02	3/4	946.71	3/4	1,294.40	3/4	1,656.29	3/4	2,018.18	3/4	2,380.07	3/4	2,740.36	3/4	3,101.96	3/4	3,463.72
8	236.31	8	594.56	8	953.91	8	1,301.94	8	1,663.83	8	2,025.72	8	2,387.61	8	2,747.79	8	3,109.50	8	3,471.25
1/4	243.70	1/4	602.10	1/4	961.11	1/4	1,309.48	1/4	1,671.37	1/4	2,033.26	1/4	2,395.15	1/4	2,755.31	1/4	3,117.03	1/4	3,478.79
1/2	251.09	1/2	609.64	1/2	968.30	1/2	1,317.02	1/2	1,678.91	1/2	2,040.80	1/2	2,402.69	1/2	2,762.84	1/2	3,124.57	1/2	3,486.33
3/4	258.48	3/4	617.18	3/4	975.50	3/4	1,324.56	3/4	1,686.45	3/4	2,048.34	3/4	2,410.23	3/4	2,770.36	3/4	3,132.10	3/4	3,493.86
9	265.87	9	624.72	9	982.70	9	1,332.10	9	1,693.99	9	2,055.88	9	2,417.77	9	2,777.88	9	3,139.64	9	3,501.40
1/4	273.26	1/4	632.26	1/4	989.89	1/4	1,339.64	1/4	1,701.53	1/4	2,063.42	1/4	2,425.31	1/4	2,785.42	1/4	3,147.18	1/4	3,508.93
1/2	280.65	1/2	639.80	1/2	997.09	1/2	1,347.18	1/2	1,709.07	1/2	2,070.96	1/2	2,432.85	1/2	2,792.96	1/2	3,154.71	1/2	3,516.47
3/4	288.05	3/4	647.34	3/4	1,004.28	3/4	1,354.72	3/4	1,716.61	3/4	2,078.50	3/4	2,440.39	3/4	2,800.49	3/4	3,162.25	3/4	3,524.01
10	295.44	10	654.88	10	1,011.48	10	1,362.26	10	1,724.15	10	2,086.04	10	2,447.93	10	2,808.03	10	3,169.79	10	3,531.54
1/4	302.83	1/4	662.42	1/4	1,018.68	1/4	1,369.80	1/4	1,731.69	1/4	2,093.58	1/4	2,455.47	1/4	2,815.57	1/4	3,177.32	1/4	3,539.08
1/2	310.22	1/2	669.95	1/2	1,025.87	1/2	1,377.33	1/2	1,739.23	1/2	2,101.12	1/2	2,463.01	1/2	2,823.10	1/2	3,184.86	1/2	3,546.62
3/4	317.61	3/4	677.49	3/4	1,033.07	3/4	1,384.87	3/4	1,746.77	3/4	2,108.66	3/4	2,470.55	3/4	2,830.64	3/4	3,192.40	3/4	3,554.15
11	325.00	11	685.03	11	1,040.26	11	1,392.41	11	1,754.30	11	2,116.20	11	2,478.09	11	2,838.18	11	3,199.93	11	3,561.69
1/4	332.39	1/4	692.57	1/4	1,047.46	1/4	1,399.95	1/4	1,761.84	1/4	2,123.74	1/4	2,485.63	1/4	2,845.71	1/4	3,207.47	1/4	3,569.23
1/2	339.79	1/2	700.11	1/2	1,054.65	1/2	1,407.49	1/2	1,769.38	1/2	2,131.27	1/2	2,493.17	1/2	2,853.25	1/2	3,215.01	1/2	3,576.76
3/4	347.18	3/4	707.65	3/4	1,061.85	3/4	1,415.03	3/4	1,776.92	3/4	2,138.81	3/4	2,500.71	3/4	2,860.79	3/4	3,222.54	3/4	3,584.30

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

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT
 & ANALYSIS, INC.
 P.O. Box 2092
 Pearland, Texas 77588
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BARGE "EMS 516B"

2 STBD INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08 1/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	3,591.84	0	3,953.59	0	4,314.65	0	4,662.32	0	4,991.73	0		0		0		0		0	
1/4	3,599.37	1/4	3,961.13	1/4	4,322.07	1/4	4,669.36	1/4	4,999.11	1/4		1/4	1/4	1/4	1/4		1/4	1/4	
1/2	3,606.91	1/2	3,968.67	1/2	4,329.49	1/2	4,676.40	1/2	5,006.50	1/2		1/2	1/2	1/2	1/2		1/2	1/2	
3/4	3,614.45	3/4	3,976.20	3/4	4,336.90	3/4	4,683.43	3/4	5,013.88	3/4		3/4	3/4	3/4	3/4		3/4	3/4	
1	3,621.98	1	3,983.74	1	4,344.32	1	4,690.47	1	5,021.27	1		1		1		1		1	
1/4	3,629.52	1/4	3,991.28	1/4	4,351.70	1/4	4,697.45	1/4	5,028.71	1/4		1/4	1/4	1/4	1/4		1/4	1/4	
1/2	3,637.06	1/2	3,998.81	1/2	4,359.09	1/2	4,704.43	1/2	5,036.15	1/2		1/2	1/2	1/2	1/2		1/2	1/2	
3/4	3,644.59	3/4	4,006.35	3/4	4,366.48	3/4	4,711.41	3/4	5,043.59	3/4		3/4	3/4	3/4	3/4		3/4	3/4	
2	3,652.13	2	4,013.89	2	4,373.86	2	4,718.38	2	5,051.02	2		2		2		2		2	
1/4	3,659.67	1/4	4,021.42	1/4	4,381.22	1/4	4,725.33	1/4	5,058.46	1/4		1/4	1/4	1/4	1/4		1/4	1/4	
1/2	3,667.20	1/2	4,028.96	1/2	4,388.58	1/2	4,732.27	1/2	5,065.90	1/2		1/2	1/2	1/2	1/2		1/2	1/2	
3/4	3,674.74	3/4	4,036.50	3/4	4,396.93	3/4	4,739.21	3/4	5,073.34	3/4		3/4	3/4	3/4	3/4		3/4	3/4	
3	3,682.28	3	4,044.03	3	4,403.29	3	4,746.16	3	5,080.78	3		3		3		3		3	
1/4	3,689.81	1/4	4,051.57	1/4	4,410.61	1/4	4,753.07	1/4	5,088.22	1/4		1/4	1/4	1/4	1/4		1/4	1/4	
1/2	3,697.35	1/2	4,059.11	1/2	4,417.94	1/2	4,759.99	1/2	5,095.65	1/2		1/2	1/2	1/2	1/2		1/2	1/2	
3/4	3,704.89	3/4	4,066.64	3/4	4,425.26	3/4	4,766.90	3/4	5,103.09	3/4		3/4	3/4	3/4	3/4		3/4	3/4	
4	3,712.42	4	4,074.18	4	4,432.58	4	4,773.81	4	5,110.53	4		4		4		4		4	
1/4	3,719.96	1/4	4,081.72	1/4	4,439.87	1/4	4,780.69	1/4	5,117.97	1/4		1/4	1/4	1/4	1/4		1/4	1/4	
1/2	3,727.50	1/2	4,089.25	1/2	4,447.16	1/2	4,787.57	1/2	5,125.41	1/2		1/2	1/2	1/2	1/2		1/2	1/2	
3/4	3,735.03	3/4	4,096.79	3/4	4,454.45	3/4	4,794.46	3/4	5,132.85	3/4		3/4	3/4	3/4	3/4		3/4	3/4	
5	3,742.57	5	4,104.33	5	4,461.74	5	4,801.34	5	5,140.28	5		5		5		5		5	
1/4	3,750.11	1/4	4,111.86	1/4	4,469.00	1/4	4,808.18	1/4	5,147.58	1/4		1/4	1/4	1/4	1/4		1/4	1/4	
1/2	3,757.64	1/2	4,119.40	1/2	4,476.25	1/2	4,815.03	1/2	5,154.88	1/2		1/2	1/2	1/2	1/2		1/2	1/2	
3/4	3,765.18	3/4	4,126.94	3/4	4,483.51	3/4	4,821.88	3/4	5,162.18	3/4		3/4	3/4	3/4	3/4		3/4	3/4	
6	3,772.72	6	4,134.47	6	4,490.77	6	4,828.72	6	5,169.49	6		6		6		6		6	
1/4	3,780.25	1/4	4,142.01	1/4	4,498.00	1/4	4,835.54	1/4	5,175.80	1/4		1/4	1/4	1/4	1/4		1/4	1/4	
1/2	3,787.79	1/2	4,149.55	1/2	4,505.23	1/2	4,842.35	1/2	5,182.12	1/2		1/2	1/2	1/2	1/2		1/2	1/2	
3/4	3,795.33	3/4	4,157.08	3/4	4,512.46	3/4	4,849.17	3/4	5,188.44	3/4		3/4	3/4	3/4	3/4		3/4	3/4	
7	3,802.86	7	4,164.62	7	4,519.69	7	4,855.99	7	5,194.76	7		7		7		7		7	
1/4	3,810.40	1/4	4,172.16	1/4	4,526.88	1/4	4,862.77	1/4	5,199.87	1/4		1/4	1/4	1/4	1/4		1/4	1/4	
1/2	3,817.94	1/2	4,179.69	1/2	4,534.08	1/2	4,869.56	1/2	5,204.97	1/2		1/2	1/2	1/2	1/2		1/2	1/2	
3/4	3,825.47	3/4	4,187.23	3/4	4,541.27	3/4	4,876.34	3/4	5,210.08	3/4		3/4	3/4	3/4	3/4		3/4	3/4	
8	3,833.01	8	4,194.77	8	4,548.47	8	4,883.13	8	5,215.19	8		8		8		8		8	
1/4	3,840.55	1/4	4,202.30	1/4	4,555.63	1/4	4,889.89	1/4		1/4		1/4	1/4	1/4	1/4		1/4	1/4	
1/2	3,848.08	1/2	4,209.83	1/2	4,562.79	1/2	4,896.64	1/2		1/2		1/2	1/2	1/2	1/2		1/2	1/2	
3/4	3,855.62	3/4	4,217.36	3/4	4,569.95	3/4	4,903.40	3/4		3/4		3/4	3/4	3/4	3/4		3/4	3/4	
9	3,863.16	9	4,224.89	9	4,577.11	9	4,910.15	9		9		9		9		9		9	
1/4	3,870.69	1/4	4,232.40	1/4	4,584.24	1/4	4,916.88	1/4		1/4		1/4	1/4	1/4	1/4		1/4	1/4	
1/2	3,878.23	1/2	4,239.91	1/2	4,591.37	1/2	4,923.60	1/2		1/2		1/2	1/2	1/2	1/2		1/2	1/2	
3/4	3,885.76	3/4	4,247.43	3/4	4,598.51	3/4	4,930.33	3/4		3/4		3/4	3/4	3/4	3/4		3/4	3/4	
10	3,893.30	10	4,254.94	10	4,605.64	10	4,937.05	10		10		10		10		10		10	
1/4	3,900.84	1/4	4,262.42	1/4	4,612.74	1/4	4,943.74	1/4		1/4		1/4	1/4	1/4	1/4		1/4	1/4	
1/2	3,908.37	1/2	4,269.90	1/2	4,619.84	1/2	4,950.43	1/2		1/2		1/2	1/2	1/2	1/2		1/2	1/2	
3/4	3,915.91	3/4	4,277.38	3/4	4,626.94	3/4	4,957.13	3/4		3/4		3/4	3/4	3/4	3/4		3/4	3/4	
11	3,923.45	11	4,284.86	11	4,634.04	11	4,963.82	11		11		11		11		11		11	
1/4	3,930.98	1/4	4,292.31	1/4	4,641.11	1/4	4,970.79	1/4		1/4		1/4	1/4	1/4	1/4		1/4	1/4	
1/2	3,938.52	1/2	4,299.76	1/2	4,648.18	1/2	4,977.77	1/2		1/2		1/2	1/2	1/2	1/2		1/2	1/2	
3/4	3,946.06	3/4	4,307.21	3/4	4,655.25	3/4	4,984.75	3/4		3/4		3/4	3/4	3/4	3/4		3/4	3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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

PRECISION MEASUREMENT
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CANCELS AND SUPERCEDES
ALL PRIOR TO 04/2020



BARGE "EMS 516B"

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	21.25	0	352.91	0	711.86	0	1,071.86	0	1,431.90	0	1,792.12	0	2,152.30	0	2,512.43	0	2,872.37	0	3,231.43
1/4	25.46	1/4	360.27	1/4	719.36	1/4	1,079.35	1/4	1,439.41	1/4	1,799.62	1/4	2,159.81	1/4	2,519.94	1/4	2,879.86	1/4	3,238.88
1/2	29.66	1/2	367.63	1/2	726.87	1/2	1,086.85	1/2	1,446.91	1/2	1,807.13	1/2	2,167.31	1/2	2,527.44	1/2	2,887.35	1/2	3,246.34
3/4	33.87	3/4	374.98	3/4	734.37	3/4	1,094.34	3/4	1,454.42	3/4	1,814.63	3/4	2,174.81	3/4	2,534.94	3/4	2,894.84	3/4	3,253.79
1	38.08	1	382.34	1	741.88	1	1,101.84	1	1,461.92	1	1,822.14	1	2,182.32	1	2,542.45	1	2,902.33	1	3,261.25
1/4	43.53	1/4	389.70	1/4	749.38	1/4	1,109.33	1/4	1,469.43	1/4	1,829.64	1/4	2,189.82	1/4	2,549.95	1/4	2,909.81	1/4	3,268.70
1/2	48.99	1/2	397.05	1/2	756.89	1/2	1,116.83	1/2	1,476.93	1/2	1,837.15	1/2	2,197.32	1/2	2,557.45	1/2	2,917.30	1/2	3,276.15
3/4	54.45	3/4	404.41	3/4	764.39	3/4	1,124.32	3/4	1,484.44	3/4	1,844.65	3/4	2,204.82	3/4	2,564.95	3/4	2,924.79	3/4	3,283.61
2	59.90	2	411.77	2	771.89	2	1,131.82	2	1,491.94	2	1,852.16	2	2,212.33	2	2,572.46	2	2,932.28	2	3,291.06
1/4	66.61	1/4	419.25	1/4	779.40	1/4	1,139.31	1/4	1,499.44	1/4	1,859.66	1/4	2,219.83	1/4	2,579.96	1/4	2,939.77	1/4	3,298.52
1/2	73.32	1/2	426.74	1/2	786.90	1/2	1,146.81	1/2	1,506.95	1/2	1,867.16	1/2	2,227.33	1/2	2,587.46	1/2	2,947.26	1/2	3,305.97
3/4	80.02	3/4	434.22	3/4	794.41	3/4	1,154.30	3/4	1,514.45	3/4	1,874.67	3/4	2,234.83	3/4	2,594.96	3/4	2,954.75	3/4	3,313.43
3	86.73	3	441.71	3	801.91	3	1,161.80	3	1,521.96	3	1,882.17	3	2,242.34	3	2,602.47	3	2,962.23	3	3,320.88
1/4	94.14	1/4	449.21	1/4	809.41	1/4	1,169.29	1/4	1,529.46	1/4	1,889.68	1/4	2,249.84	1/4	2,609.97	1/4	2,969.72	1/4	3,328.35
1/2	101.55	1/2	456.72	1/2	816.92	1/2	1,176.79	1/2	1,536.97	1/2	1,897.18	1/2	2,257.34	1/2	2,617.47	1/2	2,977.21	1/2	3,335.82
3/4	108.97	3/4	464.22	3/4	824.42	3/4	1,184.28	3/4	1,544.47	3/4	1,904.69	3/4	2,264.85	3/4	2,624.97	3/4	2,984.70	3/4	3,343.28
4	116.38	4	471.73	4	831.93	4	1,191.78	4	1,551.98	4	1,912.19	4	2,272.35	4	2,632.47	4	2,992.19	4	3,350.75
1/4	123.87	1/4	479.23	1/4	839.43	1/4	1,199.28	1/4	1,559.48	1/4	1,919.70	1/4	2,279.85	1/4	2,639.97	1/4	2,999.68	1/4	3,358.22
1/2	131.36	1/2	486.73	1/2	846.94	1/2	1,206.78	1/2	1,566.98	1/2	1,927.20	1/2	2,287.35	1/2	2,647.47	1/2	3,007.16	1/2	3,365.69
3/4	138.84	3/4	494.24	3/4	854.44	3/4	1,214.28	3/4	1,574.49	3/4	1,934.71	3/4	2,294.86	3/4	2,654.97	3/4	3,014.65	3/4	3,373.16
5	146.33	5	501.74	5	861.94	5	1,221.78	5	1,581.99	5	1,942.21	5	2,302.36	5	2,662.48	5	3,022.14	5	3,380.63
1/4	153.82	1/4	509.25	1/4	869.45	1/4	1,229.28	1/4	1,589.50	1/4	1,949.71	1/4	2,309.86	1/4	2,669.98	1/4	3,029.63	1/4	3,388.10
1/2	161.31	1/2	516.75	1/2	876.95	1/2	1,236.79	1/2	1,597.00	1/2	1,957.22	1/2	2,317.36	1/2	2,677.48	1/2	3,037.12	1/2	3,395.57
3/4	168.80	3/4	524.26	3/4	884.46	3/4	1,244.29	3/4	1,604.51	3/4	1,964.72	3/4	2,324.87	3/4	2,684.98	3/4	3,044.61	3/4	3,403.04
6	176.29	6	531.76	6	891.96	6	1,251.80	6	1,612.01	6	1,972.23	6	2,332.37	6	2,692.48	6	3,052.10	6	3,410.51
1/4	183.66	1/4	539.26	1/4	899.46	1/4	1,259.30	1/4	1,619.52	1/4	1,979.73	1/4	2,339.87	1/4	2,699.98	1/4	3,059.58	1/4	3,417.98
1/2	191.04	1/2	546.77	1/2	906.96	1/2	1,266.80	1/2	1,627.02	1/2	1,987.24	1/2	2,347.37	1/2	2,707.48	1/2	3,067.07	1/2	3,425.45
3/4	198.41	3/4	554.27	3/4	914.46	3/4	1,274.31	3/4	1,634.53	3/4	1,994.74	3/4	2,354.88	3/4	2,714.99	3/4	3,074.56	3/4	3,432.92
7	205.78	7	561.78	7	921.95	7	1,281.81	7	1,642.03	7	2,002.25	7	2,362.38	7	2,722.49	7	3,082.05	7	3,440.39
1/4	213.14	1/4	569.28	1/4	929.45	1/4	1,289.32	1/4	1,649.53	1/4	2,009.75	1/4	2,369.88	1/4	2,729.99	1/4	3,089.54	1/4	3,447.86
1/2	220.50	1/2	576.78	1/2	936.94	1/2	1,296.82	1/2	1,657.04	1/2	2,017.25	1/2	2,377.39	1/2	2,737.49	1/2	3,097.03	1/2	3,455.33
3/4	227.85	3/4	584.29	3/4	944.44	3/4	1,304.33	3/4	1,664.54	3/4	2,024.76	3/4	2,384.89	3/4	2,744.99	3/4	3,104.52	3/4	3,462.80
8	235.21	8	591.79	8	951.94	8	1,311.83	8	1,672.05	8	2,032.26	8	2,392.39	8	2,752.49	8	3,112.00	8	3,470.27
1/4	242.57	1/4	599.30	1/4	959.43	1/4	1,319.34	1/4	1,679.55	1/4	2,039.77	1/4	2,399.89	1/4	2,759.99	1/4	3,119.49	1/4	3,477.74
1/2	249.92	1/2	606.80	1/2	966.93	1/2	1,326.84	1/2	1,687.06	1/2	2,047.27	1/2	2,407.40	1/2	2,767.50	1/2	3,126.98	1/2	3,485.21
3/4	257.28	3/4	614.31	3/4	974.42	3/4	1,334.35	3/4	1,694.56	3/4	2,054.77	3/4	2,414.90	3/4	2,775.00	3/4	3,134.47	3/4	3,492.68
9	264.64	9	621.81	9	981.92	9	1,341.85	9	1,702.07	9	2,062.27	9	2,422.40	9	2,782.50	9	3,141.96	9	3,500.15
1/4	271.99	1/4	629.31	1/4	989.41	1/4	1,349.35	1/4	1,709.57	1/4	2,069.78	1/4	2,429.90	1/4	2,789.99	1/4	3,149.42	1/4	3,507.62
1/2	279.35	1/2	636.82	1/2	996.91	1/2	1,356.86	1/2	1,717.07	1/2	2,077.28	1/2	2,437.41	1/2	2,797.48	1/2	3,156.88	1/2	3,509.09
3/4	286.71	3/4	644.32	3/4	1,004.40	3/4	1,364.36	3/4	1,724.58	3/4	2,084.78	3/4	2,444.91	3/4	2,804.97	3/4	3,164.33	3/4	3,513.56
10	294.06	10	651.83	10	1,011.90	10	1,371.87	10	1,732.08	10	2,092.28	10	2,452.41	10	2,812.46	10	3,171.79	10	3,518.03
1/4	301.42	1/4	659.33	1/4	1,019.39	1/4	1,379.37	1/4	1,739.59	1/4	2,099.79	1/4	2,459.92	1/4	2,819.95	1/4	3,179.25	1/4	3,522.07
1/2	308.77	1/2	666.84	1/2	1,026.89	1/2	1,386.88	1/2	1,747.09	1/2	2,107.29	1/2	2,467.42	1/2	2,827.44	1/2	3,186.70	1/2	3,526.11
3/4	316.13	3/4	674.34	3/4	1,034.38	3/4	1,394.38	3/4	1,754.60	3/4	2,114.79	3/4	2,474.92	3/4	2,834.93	3/4	3,194.16	3/4	3,530.15
11	323.49	11	681.84	11	1,041.88	11	1,401.89	11	1,762.10	11	2,122.29	11	2,482.42	11	2,842.42	11	3,201.61	11	3,534.19
1/4	330.84	1/4	689.35	1/4	1,049.37	1/4	1,409.39	1/4	1,769.61	1/4	2,129.80	1/4	2,489.93	1/4	2,849.91	1/4	3,209.06	1/4	3,538.23
1/2	338.20	1/2	696.85	1/2	1,056.87	1/2	1,416.89	1/2	1,777.11	1/2	2,137.30	1/2	2,497.43	1/2	2,857.39	1/2	3,216.52	1/2	3,542.27
3/4	345.56	3/4	704.36	3/4	1,064.36	3/4	1,424.40	3/4	1,784.62	3/4	2,144.80	3/4	2,504.93	3/4	2,864.88	3/4	3,223.97	3/4	3,546.31

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
 CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN TO TOP OF 2" DIAMETER "HERMETIC" VALVE.
 GAUGE POINT: (HERMETIC) LOCATED 10'-06" OFF CENTERLINE AND 55'-00" 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 516B"

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	3,550.35	0	3,744.28	0	3,937.51	0	4,117.42	0	4,279.85	0		0		0		0		0	
1/4	3,554.39	1/4	3,748.32	1/4	3,941.43	1/4	4,120.96	1/4	4,283.78	1/4		1/4		1/4		1/4		1/4	
1/2	3,558.43	1/2	3,752.36	1/2	3,945.35	1/2	4,124.50	1/2	4,287.72	1/2		1/2		1/2		1/2		1/2	
3/4	3,562.47	3/4	3,756.40	3/4	3,949.27	3/4	4,128.04	3/4	4,291.65	3/4		3/4		3/4		3/4		3/4	
1	3,566.51	1	3,760.44	1	3,953.19	1	4,131.59	1	4,295.59	1		1		1		1		1	
1/4	3,570.55	1/4	3,764.48	1/4	3,957.09	1/4	4,135.08	1/4	4,299.57	1/4		1/4		1/4		1/4		1/4	
1/2	3,574.59	1/2	3,768.52	1/2	3,960.98	1/2	4,138.58	1/2	4,303.56	1/2		1/2		1/2		1/2		1/2	
3/4	3,578.63	3/4	3,772.56	3/4	3,964.87	3/4	4,142.08	3/4	4,307.55	3/4		3/4		3/4		3/4		3/4	
2	3,582.67	2	3,776.60	2	3,968.76	2	4,145.57	2	4,311.54	2		2		2		2		2	
1/4	3,586.71	1/4	3,780.64	1/4	3,972.62	1/4	4,149.04	1/4	4,315.52	1/4		1/4		1/4		1/4		1/4	
1/2	3,590.75	1/2	3,784.68	1/2	3,976.48	1/2	4,152.50	1/2	4,319.51	1/2		1/2		1/2		1/2		1/2	
3/4	3,594.79	3/4	3,788.72	3/4	3,980.34	3/4	4,155.97	3/4	4,323.50	3/4		3/4		3/4		3/4		3/4	
3	3,598.83	3	3,792.76	3	3,984.20	3	4,159.43	3	4,327.48	3		3		3		3		3	
1/4	3,602.87	1/4	3,796.80	1/4	3,988.03	1/4	4,162.87	1/4	4,331.47	1/4		1/4		1/4		1/4		1/4	
1/2	3,606.91	1/2	3,800.84	1/2	3,991.86	1/2	4,166.30	1/2	4,335.46	1/2		1/2		1/2		1/2		1/2	
3/4	3,610.95	3/4	3,804.88	3/4	3,995.68	3/4	4,169.73	3/4	4,339.45	3/4		3/4		3/4		3/4		3/4	
4	3,614.99	4	3,808.92	4	3,999.51	4	4,173.17	4	4,343.43	4		4		4		4		4	
1/4	3,619.03	1/4	3,812.96	1/4	4,003.30	1/4	4,176.57	1/4	4,347.42	1/4		1/4		1/4		1/4		1/4	
1/2	3,623.07	1/2	3,817.00	1/2	4,007.10	1/2	4,179.97	1/2	4,351.41	1/2		1/2		1/2		1/2		1/2	
3/4	3,627.11	3/4	3,821.04	3/4	4,010.89	3/4	4,183.37	3/4	4,355.39	3/4		3/4		3/4		3/4		3/4	
5	3,631.15	5	3,825.08	5	4,014.69	5	4,186.77	5	4,359.38	5		5		5		5		5	
1/4	3,635.19	1/4	3,829.12	1/4	4,018.45	1/4	4,190.14	1/4	4,363.23	1/4		1/4		1/4		1/4		1/4	
1/2	3,639.23	1/2	3,833.16	1/2	4,022.21	1/2	4,193.51	1/2	4,367.09	1/2		1/2		1/2		1/2		1/2	
3/4	3,643.27	3/4	3,837.20	3/4	4,025.98	3/4	4,196.88	3/4	4,370.94	3/4		3/4		3/4		3/4		3/4	
6	3,647.31	6	3,841.24	6	4,029.74	6	4,200.25	6	4,374.79	6		6		6		6		6	
1/4	3,651.35	1/4	3,845.28	1/4	4,033.47	1/4	4,203.58	1/4	4,377.67	1/4		1/4		1/4		1/4		1/4	
1/2	3,655.39	1/2	3,849.32	1/2	4,037.21	1/2	4,206.92	1/2	4,380.54	1/2		1/2		1/2		1/2		1/2	
3/4	3,659.43	3/4	3,853.36	3/4	4,040.94	3/4	4,210.26	3/4	4,383.42	3/4		3/4		3/4		3/4		3/4	
7	3,663.47	7	3,857.40	7	4,044.67	7	4,213.59	7	4,386.29	7		7		7		7		7	
1/4	3,667.51	1/4	3,861.44	1/4	4,048.37	1/4	4,216.90	1/4	4,387.95	1/4		1/4		1/4		1/4		1/4	
1/2	3,671.55	1/2	3,865.48	1/2	4,052.07	1/2	4,220.21	1/2	4,389.60	1/2		1/2		1/2		1/2		1/2	
3/4	3,675.59	3/4	3,869.52	3/4	4,055.77	3/4	4,223.52	3/4	4,391.26	3/4		3/4		3/4		3/4		3/4	
8	3,679.63	8	3,873.56	8	4,059.47	8	4,226.82	8	4,392.91	8		8		8		8		8	
1/4	3,683.67	1/4	3,877.60	1/4	4,063.14	1/4	4,230.10	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,687.71	1/2	3,881.63	1/2	4,066.81	1/2	4,233.38	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,691.75	3/4	3,885.67	3/4	4,070.47	3/4	4,236.65	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,695.79	9	3,889.70	9	4,074.14	9	4,239.93	9		9		9		9		9		9	
1/4	3,699.83	1/4	3,893.72	1/4	4,077.78	1/4	4,243.18	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,703.87	1/2	3,897.74	1/2	4,081.41	1/2	4,246.42	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,707.91	3/4	3,901.75	3/4	4,085.05	3/4	4,249.66	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,711.95	10	3,905.77	10	4,088.69	10	4,252.91	10		10		10		10		10		10	
1/4	3,715.99	1/4	3,909.75	1/4	4,092.29	1/4	4,256.12	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,720.04	1/2	3,913.74	1/2	4,095.90	1/2	4,259.33	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,724.08	3/4	3,917.72	3/4	4,099.50	3/4	4,262.54	3/4		3/4		3/4		3/4		3/4		3/4	
11	3,728.12	11	3,921.71	11	4,103.11	11	4,265.75	11		11		11		11		11		11	
1/4	3,732.16	1/4	3,925.66	1/4	4,106.69	1/4	4,269.27	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,736.20	1/2	3,929.61	1/2	4,110.26	1/2	4,272.80	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,740.24	3/4	3,933.56	3/4	4,113.84	3/4	4,276.32	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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

PRECISION MEASUREMENT
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CANCELS AND SUPERCEDES
ALL PRIOR TO 04/2020



BARGE "EMS 516B"

3 STBD INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08 3/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	21.29	0	353.09	0	712.18	0	1,060.97	0	1,414.72	0	1,774.45	0	2,134.68	0	2,494.84	0	2,853.11	0	3,212.03
1/4	25.51	1/4	360.45	1/4	719.69	1/4	1,068.14	1/4	1,422.16	1/4	1,781.95	1/4	2,142.18	1/4	2,502.35	1/4	2,860.60	1/4	3,219.48
1/2	29.72	1/2	367.81	1/2	727.20	1/2	1,075.31	1/2	1,429.61	1/2	1,789.46	1/2	2,149.68	1/2	2,509.85	1/2	2,868.09	1/2	3,226.94
3/4	33.94	3/4	375.17	3/4	734.71	3/4	1,082.48	3/4	1,437.05	3/4	1,796.97	3/4	2,157.19	3/4	2,517.35	3/4	2,875.58	3/4	3,234.39
1	38.15	1	382.53	1	742.21	1	1,089.64	1	1,444.49	1	1,804.47	1	2,164.69	1	2,524.86	1	2,883.07	1	3,241.85
1/4	43.61	1/4	389.89	1/4	749.72	1/4	1,096.81	1/4	1,451.94	1/4	1,811.98	1/4	2,172.19	1/4	2,532.36	1/4	2,890.55	1/4	3,249.30
1/2	49.07	1/2	397.25	1/2	757.23	1/2	1,103.98	1/2	1,459.38	1/2	1,819.48	1/2	2,179.70	1/2	2,539.86	1/2	2,898.04	1/2	3,256.76
3/4	54.52	3/4	404.61	3/4	764.74	3/4	1,111.15	3/4	1,466.83	3/4	1,826.99	3/4	2,187.20	3/4	2,547.37	3/4	2,905.52	3/4	3,264.21
2	59.98	2	411.97	2	772.24	2	1,118.32	2	1,474.27	2	1,834.49	2	2,194.70	2	2,554.87	2	2,913.00	2	3,271.67
1/4	66.68	1/4	419.46	1/4	779.75	1/4	1,125.49	1/4	1,481.77	1/4	1,842.00	1/4	2,202.21	1/4	2,562.38	1/4	2,920.48	1/4	3,279.12
1/2	73.38	1/2	426.94	1/2	787.26	1/2	1,132.66	1/2	1,489.26	1/2	1,849.50	1/2	2,209.71	1/2	2,569.88	1/2	2,927.97	1/2	3,286.58
3/4	80.08	3/4	434.43	3/4	794.77	3/4	1,139.83	3/4	1,496.76	3/4	1,857.01	3/4	2,217.21	3/4	2,577.38	3/4	2,935.45	3/4	3,294.03
3	86.78	3	441.92	3	802.27	3	1,147.00	3	1,504.26	3	1,864.51	3	2,224.72	3	2,584.89	3	2,942.93	3	3,301.49
1/4	94.20	1/4	449.43	1/4	809.53	1/4	1,154.42	1/4	1,511.76	1/4	1,872.02	1/4	2,232.22	1/4	2,592.39	1/4	2,950.41	1/4	3,308.95
1/2	101.61	1/2	456.94	1/2	816.79	1/2	1,161.83	1/2	1,519.27	1/2	1,879.52	1/2	2,239.72	1/2	2,599.89	1/2	2,957.89	1/2	3,316.42
3/4	109.02	3/4	464.44	3/4	824.05	3/4	1,169.25	3/4	1,526.77	3/4	1,887.03	3/4	2,247.23	3/4	2,607.39	3/4	2,965.37	3/4	3,323.89
4	116.44	4	471.95	4	831.31	4	1,176.67	4	1,534.28	4	1,894.53	4	2,254.73	4	2,614.89	4	2,972.86	4	3,331.36
1/4	123.93	1/4	479.46	1/4	838.51	1/4	1,184.10	1/4	1,541.79	1/4	1,902.04	1/4	2,262.24	1/4	2,622.30	1/4	2,980.34	1/4	3,338.83
1/2	131.43	1/2	486.97	1/2	845.71	1/2	1,191.53	1/2	1,549.29	1/2	1,909.55	1/2	2,269.74	1/2	2,629.71	1/2	2,987.82	1/2	3,346.30
3/4	138.93	3/4	494.47	3/4	852.90	3/4	1,198.95	3/4	1,556.80	3/4	1,917.05	3/4	2,277.24	3/4	2,637.12	3/4	2,995.30	3/4	3,353.77
5	146.43	5	501.98	5	860.10	5	1,206.38	5	1,564.30	5	1,924.56	5	2,284.75	5	2,644.53	5	3,002.78	5	3,361.24
1/4	153.92	1/4	509.49	1/4	867.30	1/4	1,213.81	1/4	1,571.81	1/4	1,932.06	1/4	2,292.25	1/4	2,651.92	1/4	3,010.27	1/4	3,368.71
1/2	161.41	1/2	517.00	1/2	874.49	1/2	1,221.23	1/2	1,579.31	1/2	1,939.57	1/2	2,299.75	1/2	2,659.32	1/2	3,017.75	1/2	3,376.19
3/4	168.91	3/4	524.50	3/4	881.69	3/4	1,228.66	3/4	1,586.82	3/4	1,947.07	3/4	2,307.26	3/4	2,666.71	3/4	3,025.23	3/4	3,383.66
6	176.40	6	532.01	6	888.88	6	1,236.09	6	1,594.32	6	1,954.58	6	2,314.76	6	2,674.11	6	3,032.71	6	3,391.13
1/4	183.78	1/4	539.52	1/4	896.06	1/4	1,243.53	1/4	1,601.83	1/4	1,962.08	1/4	2,322.26	1/4	2,681.51	1/4	3,040.19	1/4	3,398.60
1/2	191.15	1/2	547.02	1/2	903.23	1/2	1,250.97	1/2	1,609.33	1/2	1,969.59	1/2	2,329.77	1/2	2,688.90	1/2	3,047.67	1/2	3,406.07
3/4	198.53	3/4	554.53	3/4	910.41	3/4	1,258.41	3/4	1,616.84	3/4	1,977.09	3/4	2,337.27	3/4	2,696.30	3/4	3,055.16	3/4	3,413.54
7	205.90	7	562.04	7	917.58	7	1,265.85	7	1,624.34	7	1,984.60	7	2,344.77	7	2,703.69	7	3,062.64	7	3,421.01
1/4	213.26	1/4	569.55	1/4	924.75	1/4	1,273.30	1/4	1,631.85	1/4	1,992.10	1/4	2,352.28	1/4	2,711.09	1/4	3,070.13	1/4	3,428.48
1/2	220.62	1/2	577.05	1/2	931.92	1/2	1,280.74	1/2	1,639.35	1/2	1,999.61	1/2	2,359.78	1/2	2,718.48	1/2	3,077.61	1/2	3,435.95
3/4	227.98	3/4	584.56	3/4	939.09	3/4	1,288.18	3/4	1,646.86	3/4	2,007.11	3/4	2,367.28	3/4	2,725.88	3/4	3,085.10	3/4	3,443.42
8	235.34	8	592.07	8	946.26	8	1,295.63	8	1,654.36	8	2,014.62	8	2,374.79	8	2,733.27	8	3,092.59	8	3,450.89
1/4	242.70	1/4	599.58	1/4	953.43	1/4	1,303.07	1/4	1,661.87	1/4	2,022.12	1/4	2,382.29	1/4	2,740.76	1/4	3,100.08	1/4	3,458.36
1/2	250.06	1/2	607.08	1/2	960.60	1/2	1,310.51	1/2	1,669.38	1/2	2,029.63	1/2	2,389.79	1/2	2,748.25	1/2	3,107.57	1/2	3,465.83
3/4	257.42	3/4	614.59	3/4	967.77	3/4	1,317.96	3/4	1,676.88	3/4	2,037.13	3/4	2,397.30	3/4	2,755.74	3/4	3,115.06	3/4	3,473.30
9	264.78	9	622.10	9	974.94	9	1,325.40	9	1,684.39	9	2,044.63	9	2,404.80	9	2,763.24	9	3,122.55	9	3,480.78
1/4	272.14	1/4	629.60	1/4	982.11	1/4	1,332.84	1/4	1,691.89	1/4	2,052.14	1/4	2,412.31	1/4	2,770.73	1/4	3,130.01	1/4	3,488.24
1/2	279.50	1/2	637.11	1/2	989.28	1/2	1,340.29	1/2	1,699.40	1/2	2,059.64	1/2	2,419.81	1/2	2,778.22	1/2	3,137.47	1/2	3,495.70
3/4	286.86	3/4	644.62	3/4	996.44	3/4	1,347.73	3/4	1,706.90	3/4	2,067.14	3/4	2,427.31	3/4	2,785.71	3/4	3,144.93	3/4	3,494.16
10	294.22	10	652.13	10	1,003.61	10	1,355.17	10	1,714.41	10	2,074.65	10	2,434.82	10	2,793.20	10	3,152.39	10	3,498.63
1/4	301.58	1/4	659.63	1/4	1,010.78	1/4	1,362.62	1/4	1,721.91	1/4	2,082.15	1/4	2,442.32	1/4	2,800.69	1/4	3,159.84	1/4	3,502.66
1/2	308.94	1/2	667.14	1/2	1,017.95	1/2	1,370.06	1/2	1,729.42	1/2	2,089.65	1/2	2,449.82	1/2	2,808.18	1/2	3,167.30	1/2	3,506.69
3/4	316.30	3/4	674.65	3/4	1,025.12	3/4	1,377.50	3/4	1,736.92	3/4	2,097.16	3/4	2,457.33	3/4	2,815.67	3/4	3,174.75	3/4	3,510.73
11	323.65	11	682.16	11	1,032.29	11	1,384.95	11	1,744.43	11	2,104.66	11	2,464.83	11	2,823.16	11	3,182.21	11	3,514.76
1/4	331.01	1/4	689.66	1/4	1,039.46	1/4	1,392.39	1/4	1,751.93	1/4	2,112.17	1/4	2,472.33	1/4	2,830.65	1/4	3,189.66	1/4	3,518.80
1/2	338.37	1/2	697.17	1/2	1,046.63	1/2	1,399.83	1/2	1,759.44	1/2	2,119.67	1/2	2,479.84	1/2	2,838.14	1/2	3,197.12	1/2	3,522.83
3/4	345.73	3/4	704.68	3/4	1,053.80	3/4	1,407.28	3/4	1,766.94	3/4	2,127.17	3/4	2,487.34	3/4	2,845.63	3/4	3,204.57	3/4	3,526.86

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
 CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN TO TOP OF 2" DIAMETER "HERMETIC" VALVE.
 GAUGE POINT: (HERMETIC) LOCATED 10'-06" OFF CENTERLINE AND 55'-00" 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 516B"

3 STBD INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08 3/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	3,530.90	0	3,724.51	0	3,917.44	0	4,097.01	0	4,259.06	0		0		0		0		0	
1/4	3,534.93	1/4	3,728.55	1/4	3,921.36	1/4	4,100.54	1/4	4,262.99	1/4		1/4		1/4		1/4		1/4	
1/2	3,538.96	1/2	3,732.58	1/2	3,925.27	1/2	4,104.08	1/2	4,266.92	1/2		1/2		1/2		1/2		1/2	
3/4	3,543.00	3/4	3,736.62	3/4	3,929.18	3/4	4,107.61	3/4	4,270.85	3/4		3/4		3/4		3/4		3/4	
1	3,547.03	1	3,740.65	1	3,933.10	1	4,111.15	1	4,274.77	1		1		1		1		1	
1/4	3,551.07	1/4	3,744.68	1/4	3,936.98	1/4	4,114.64	1/4	4,278.75	1/4		1/4		1/4		1/4		1/4	
1/2	3,555.10	1/2	3,748.72	1/2	3,940.87	1/2	4,118.13	1/2	4,282.74	1/2		1/2		1/2		1/2		1/2	
3/4	3,559.13	3/4	3,752.75	3/4	3,944.75	3/4	4,121.61	3/4	4,286.72	3/4		3/4		3/4		3/4		3/4	
2	3,563.17	2	3,756.78	2	3,948.63	2	4,125.10	2	4,290.70	2		2		2		2		2	
1/4	3,567.20	1/4	3,760.82	1/4	3,952.49	1/4	4,128.56	1/4	4,294.68	1/4		1/4		1/4		1/4		1/4	
1/2	3,571.23	1/2	3,764.85	1/2	3,956.34	1/2	4,132.02	1/2	4,298.66	1/2		1/2		1/2		1/2		1/2	
3/4	3,575.27	3/4	3,768.89	3/4	3,960.19	3/4	4,135.47	3/4	4,302.64	3/4		3/4		3/4		3/4		3/4	
3	3,579.30	3	3,772.92	3	3,964.05	3	4,138.93	3	4,306.62	3		3		3		3		3	
1/4	3,583.33	1/4	3,776.95	1/4	3,967.87	1/4	4,142.36	1/4	4,310.60	1/4		1/4		1/4		1/4		1/4	
1/2	3,587.37	1/2	3,780.99	1/2	3,971.69	1/2	4,145.78	1/2	4,314.58	1/2		1/2		1/2		1/2		1/2	
3/4	3,591.40	3/4	3,785.02	3/4	3,975.51	3/4	4,149.21	3/4	4,318.56	3/4		3/4		3/4		3/4		3/4	
4	3,595.44	4	3,789.05	4	3,979.33	4	4,152.64	4	4,322.54	4		4		4		4		4	
1/4	3,599.47	1/4	3,793.09	1/4	3,983.12	1/4	4,156.03	1/4	4,326.52	1/4		1/4		1/4		1/4		1/4	
1/2	3,603.50	1/2	3,797.12	1/2	3,986.90	1/2	4,159.42	1/2	4,330.50	1/2		1/2		1/2		1/2		1/2	
3/4	3,607.54	3/4	3,801.15	3/4	3,990.69	3/4	4,162.82	3/4	4,334.48	3/4		3/4		3/4		3/4		3/4	
5	3,611.57	5	3,805.19	5	3,994.48	5	4,166.21	5	4,338.46	5		5		5		5		5	
1/4	3,615.60	1/4	3,809.22	1/4	3,998.23	1/4	4,169.57	1/4	4,342.31	1/4		1/4		1/4		1/4		1/4	
1/2	3,619.64	1/2	3,813.26	1/2	4,001.99	1/2	4,172.93	1/2	4,346.15	1/2		1/2		1/2		1/2		1/2	
3/4	3,623.67	3/4	3,817.29	3/4	4,005.75	3/4	4,176.29	3/4	4,350.00	3/4		3/4		3/4		3/4		3/4	
6	3,627.71	6	3,821.32	6	4,009.50	6	4,179.65	6	4,353.85	6		6		6		6		6	
1/4	3,631.74	1/4	3,825.36	1/4	4,013.23	1/4	4,182.98	1/4	4,356.71	1/4		1/4		1/4		1/4		1/4	
1/2	3,635.77	1/2	3,829.39	1/2	4,016.96	1/2	4,186.31	1/2	4,359.58	1/2		1/2		1/2		1/2		1/2	
3/4	3,639.81	3/4	3,833.42	3/4	4,020.68	3/4	4,189.64	3/4	4,362.44	3/4		3/4		3/4		3/4		3/4	
7	3,643.84	7	3,837.46	7	4,024.41	7	4,192.97	7	4,365.31	7		7		7		7		7	
1/4	3,647.87	1/4	3,841.49	1/4	4,028.10	1/4	4,196.27	1/4	4,366.95	1/4		1/4		1/4		1/4		1/4	
1/2	3,651.91	1/2	3,845.53	1/2	4,031.80	1/2	4,199.57	1/2	4,368.59	1/2		1/2		1/2		1/2		1/2	
3/4	3,655.94	3/4	3,849.56	3/4	4,035.49	3/4	4,202.87	3/4	4,370.24	3/4		3/4		3/4		3/4		3/4	
8	3,659.98	8	3,853.59	8	4,039.18	8	4,206.16	8	4,371.88	8		8		8		8		8	
1/4	3,664.01	1/4	3,857.62	1/4	4,042.84	1/4	4,209.43	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,668.04	1/2	3,861.65	1/2	4,046.50	1/2	4,212.70	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,672.08	3/4	3,865.68	3/4	4,050.16	3/4	4,215.97	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,676.11	9	3,869.71	9	4,053.82	9	4,219.24	9		9		9		9		9		9	
1/4	3,680.14	1/4	3,873.72	1/4	4,057.45	1/4	4,222.48	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,684.18	1/2	3,877.73	1/2	4,061.08	1/2	4,225.71	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,688.21	3/4	3,881.74	3/4	4,064.71	3/4	4,228.95	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,692.24	10	3,885.75	10	4,068.33	10	4,232.19	10		10		10		10		10		10	
1/4	3,696.28	1/4	3,889.73	1/4	4,071.93	1/4	4,235.39	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,700.31	1/2	3,893.71	1/2	4,075.53	1/2	4,238.59	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,704.35	3/4	3,897.69	3/4	4,079.13	3/4	4,241.79	3/4		3/4		3/4		3/4		3/4		3/4	
11	3,708.38	11	3,901.66	11	4,082.73	11	4,244.99	11		11		11		11		11		11	
1/4	3,712.41	1/4	3,905.61	1/4	4,086.30	1/4	4,248.51	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,716.45	1/2	3,909.55	1/2	4,089.87	1/2	4,252.03	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,720.48	3/4	3,913.50	3/4	4,093.44	3/4	4,255.54	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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PRECISION MEASUREMENT
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CANCELS AND SUPERCEDES
ALL PRIOR TO 04/2020