



BARGE "EMS 513B"

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	- 03-1/8	03-1/8
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	- 03-1/8	03-1/8

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

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

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"

February 24, 2020

**PRECISION MEASUREMENT
& ANALYSIS, INC.**

P.O. Box 2092
 Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "EMS 513B"

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	3,622.89	0	3,985.99	0	4,348.41	0	4,697.38	0	5,028.01	0		0		0		0		0	
1/4	3,630.46	1/4	3,993.56	1/4	4,355.86	1/4	4,704.44	1/4	5,035.42	1/4		1/4		1/4		1/4		1/4	
1/2	3,638.02	1/2	4,001.12	1/2	4,363.30	1/2	4,711.50	1/2	5,042.84	1/2		1/2		1/2		1/2		1/2	
3/4	3,645.59	3/4	4,008.69	3/4	4,370.75	3/4	4,718.57	3/4	5,050.25	3/4		3/4		3/4		3/4		3/4	
1	3,653.15	1	4,016.25	1	4,378.19	1	4,725.63	1	5,057.66	1		1		1		1		1	
1/4	3,660.72	1/4	4,023.82	1/4	4,385.60	1/4	4,732.64	1/4	5,065.13	1/4		1/4		1/4		1/4		1/4	
1/2	3,668.28	1/2	4,031.38	1/2	4,393.02	1/2	4,739.64	1/2	5,072.60	1/2		1/2		1/2		1/2		1/2	
3/4	3,675.84	3/4	4,038.95	3/4	4,400.43	3/4	4,746.64	3/4	5,080.06	3/4		3/4		3/4		3/4		3/4	
2	3,683.41	2	4,046.51	2	4,407.85	2	4,753.65	2	5,087.53	2		2		2		2		2	
1/4	3,690.97	1/4	4,054.07	1/4	4,415.23	1/4	4,760.62	1/4	5,095.00	1/4		1/4		1/4		1/4		1/4	
1/2	3,698.54	1/2	4,061.64	1/2	4,422.61	1/2	4,767.59	1/2	5,102.46	1/2		1/2		1/2		1/2		1/2	
3/4	3,706.10	3/4	4,069.20	3/4	4,430.00	3/4	4,774.56	3/4	5,109.93	3/4		3/4		3/4		3/4		3/4	
3	3,713.67	3	4,076.77	3	4,437.38	3	4,781.53	3	5,117.40	3		3		3		3		3	
1/4	3,721.23	1/4	4,084.33	1/4	4,444.73	1/4	4,788.47	1/4	5,124.86	1/4		1/4		1/4		1/4		1/4	
1/2	3,728.80	1/2	4,091.90	1/2	4,452.08	1/2	4,795.40	1/2	5,132.33	1/2		1/2		1/2		1/2		1/2	
3/4	3,736.36	3/4	4,099.46	3/4	4,459.43	3/4	4,802.34	3/4	5,139.79	3/4		3/4		3/4		3/4		3/4	
4	3,743.93	4	4,107.03	4	4,466.78	4	4,809.28	4	5,147.26	4		4		4		4		4	
1/4	3,751.49	1/4	4,114.59	1/4	4,474.10	1/4	4,816.19	1/4	5,154.73	1/4		1/4		1/4		1/4		1/4	
1/2	3,759.06	1/2	4,122.16	1/2	4,481.41	1/2	4,823.10	1/2	5,162.19	1/2		1/2		1/2		1/2		1/2	
3/4	3,766.62	3/4	4,129.72	3/4	4,488.73	3/4	4,830.00	3/4	5,169.66	3/4		3/4		3/4		3/4		3/4	
5	3,774.18	5	4,137.29	5	4,496.05	5	4,836.91	5	5,177.13	5		5		5		5		5	
1/4	3,781.75	1/4	4,144.85	1/4	4,503.33	1/4	4,843.78	1/4	5,184.45	1/4		1/4		1/4		1/4		1/4	
1/2	3,789.31	1/2	4,152.41	1/2	4,510.62	1/2	4,850.65	1/2	5,191.78	1/2		1/2		1/2		1/2		1/2	
3/4	3,796.88	3/4	4,159.98	3/4	4,517.90	3/4	4,857.52	3/4	5,199.11	3/4		3/4		3/4		3/4		3/4	
6	3,804.44	6	4,167.54	6	4,525.19	6	4,864.40	6	5,206.44	6		6		6		6		6	
1/4	3,812.01	1/4	4,175.11	1/4	4,532.44	1/4	4,871.24	1/4	5,212.78	1/4		1/4		1/4		1/4		1/4	
1/2	3,819.57	1/2	4,182.67	1/2	4,539.70	1/2	4,878.08	1/2	5,219.13	1/2		1/2		1/2		1/2		1/2	
3/4	3,827.14	3/4	4,190.24	3/4	4,546.95	3/4	4,884.92	3/4	5,225.47	3/4		3/4		3/4		3/4		3/4	
7	3,834.70	7	4,197.80	7	4,554.21	7	4,891.76	7	5,231.81	7		7		7		7		7	
1/4	3,842.27	1/4	4,205.37	1/4	4,561.43	1/4	4,898.57	1/4	5,236.94	1/4		1/4		1/4		1/4		1/4	
1/2	3,849.83	1/2	4,212.93	1/2	4,568.65	1/2	4,905.39	1/2	5,242.06	1/2		1/2		1/2		1/2		1/2	
3/4	3,857.39	3/4	4,220.50	3/4	4,575.88	3/4	4,912.20	3/4	5,247.19	3/4		3/4		3/4		3/4		3/4	
8	3,864.96	8	4,228.06	8	4,583.10	8	4,919.01	8	5,252.32	8		8		8		8		8	
1/4	3,872.52	1/4	4,235.62	1/4	4,590.29	1/4	4,925.79	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,880.09	1/2	4,243.19	1/2	4,597.48	1/2	4,932.57	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,887.65	3/4	4,250.75	3/4	4,604.66	3/4	4,939.35	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,895.22	9	4,258.31	9	4,611.85	9	4,946.13	9		9		9		9		9		9	
1/4	3,902.78	1/4	4,265.86	1/4	4,619.01	1/4	4,952.88	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,910.35	1/2	4,273.40	1/2	4,626.17	1/2	4,959.63	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,917.91	3/4	4,280.94	3/4	4,633.32	3/4	4,966.38	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,925.48	10	4,288.48	10	4,640.48	10	4,973.13	10		10		10		10		10		10	
1/4	3,933.04	1/4	4,295.99	1/4	4,647.61	1/4	4,979.85	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,940.61	1/2	4,303.50	1/2	4,654.73	1/2	4,986.56	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,948.17	3/4	4,311.01	3/4	4,661.86	3/4	4,993.28	3/4		3/4		3/4		3/4		3/4		3/4	
11	3,955.73	11	4,318.51	11	4,668.99	11	4,999.99	11		11		11		11		11		11	
1/4	3,963.30	1/4	4,325.99	1/4	4,676.09	1/4	5,007.00	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,970.86	1/2	4,333.46	1/2	4,683.18	1/2	5,014.00	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,978.43	3/4	4,340.94	3/4	4,690.28	3/4	5,021.01	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 02/24/2020 JS
CALCULATED: 02/24/2020 CL
PRINTED: 02/25/2020 SW

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CANCELS AND SUPERCEDES
ALL PRIOR TO 02/2020



BARGE "EMS 513B"

1 STBD INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	3,616.28	0	3,978.93	0	4,340.89	0	4,689.42	0	5,019.63	0		0		0		0		0	
1/4	3,623.84	1/4	3,986.49	1/4	4,348.33	1/4	4,696.47	1/4	5,027.03	1/4		1/4		1/4		1/4		1/4	
1/2	3,631.39	1/2	3,994.04	1/2	4,355.76	1/2	4,703.53	1/2	5,034.44	1/2		1/2		1/2		1/2		1/2	
3/4	3,638.95	3/4	4,001.60	3/4	4,363.20	3/4	4,710.58	3/4	5,041.84	3/4		3/4		3/4		3/4		3/4	
1	3,646.50	1	4,009.15	1	4,370.63	1	4,717.63	1	5,049.25	1		1		1		1		1	
1/4	3,654.06	1/4	4,016.71	1/4	4,378.04	1/4	4,724.63	1/4	5,056.70	1/4		1/4		1/4		1/4		1/4	
1/2	3,661.61	1/2	4,024.26	1/2	4,385.44	1/2	4,731.62	1/2	5,064.16	1/2		1/2		1/2		1/2		1/2	
3/4	3,669.17	3/4	4,031.82	3/4	4,392.84	3/4	4,738.62	3/4	5,071.62	3/4		3/4		3/4		3/4		3/4	
2	3,676.72	2	4,039.37	2	4,400.25	2	4,745.62	2	5,079.07	2		2		2		2		2	
1/4	3,684.28	1/4	4,046.93	1/4	4,407.62	1/4	4,752.58	1/4	5,086.53	1/4		1/4		1/4		1/4		1/4	
1/2	3,691.84	1/2	4,054.48	1/2	4,415.00	1/2	4,759.54	1/2	5,093.99	1/2		1/2		1/2		1/2		1/2	
3/4	3,699.39	3/4	4,062.04	3/4	4,422.37	3/4	4,766.50	3/4	5,101.44	3/4		3/4		3/4		3/4		3/4	
3	3,706.95	3	4,069.60	3	4,429.75	3	4,773.46	3	5,108.90	3		3		3		3		3	
1/4	3,714.50	1/4	4,077.15	1/4	4,437.09	1/4	4,780.39	1/4	5,116.36	1/4		1/4		1/4		1/4		1/4	
1/2	3,722.06	1/2	4,084.71	1/2	4,444.43	1/2	4,787.32	1/2	5,123.82	1/2		1/2		1/2		1/2		1/2	
3/4	3,729.61	3/4	4,092.26	3/4	4,451.77	3/4	4,794.25	3/4	5,131.27	3/4		3/4		3/4		3/4		3/4	
4	3,737.17	4	4,099.82	4	4,459.11	4	4,801.18	4	5,138.73	4		4		4		4		4	
1/4	3,744.72	1/4	4,107.37	1/4	4,466.42	1/4	4,808.08	1/4	5,146.19	1/4		1/4		1/4		1/4		1/4	
1/2	3,752.28	1/2	4,114.93	1/2	4,473.73	1/2	4,814.98	1/2	5,153.64	1/2		1/2		1/2		1/2		1/2	
3/4	3,759.83	3/4	4,122.48	3/4	4,481.03	3/4	4,821.87	3/4	5,161.10	3/4		3/4		3/4		3/4		3/4	
5	3,767.39	5	4,130.04	5	4,488.34	5	4,828.77	5	5,168.56	5		5		5		5		5	
1/4	3,774.94	1/4	4,137.59	1/4	4,495.62	1/4	4,835.63	1/4	5,175.87	1/4		1/4		1/4		1/4		1/4	
1/2	3,782.50	1/2	4,145.15	1/2	4,502.89	1/2	4,842.50	1/2	5,183.19	1/2		1/2		1/2		1/2		1/2	
3/4	3,790.05	3/4	4,152.70	3/4	4,510.17	3/4	4,849.36	3/4	5,190.51	3/4		3/4		3/4		3/4		3/4	
6	3,797.61	6	4,160.26	6	4,517.45	6	4,856.22	6	5,197.83	6		6		6		6		6	
1/4	3,805.16	1/4	4,167.81	1/4	4,524.69	1/4	4,863.06	1/4	5,204.16	1/4		1/4		1/4		1/4		1/4	
1/2	3,812.72	1/2	4,175.37	1/2	4,531.94	1/2	4,869.89	1/2	5,210.50	1/2		1/2		1/2		1/2		1/2	
3/4	3,820.27	3/4	4,182.92	3/4	4,539.18	3/4	4,876.72	3/4	5,216.83	3/4		3/4		3/4		3/4		3/4	
7	3,827.83	7	4,190.48	7	4,546.43	7	4,883.56	7	5,223.17	7		7		7		7		7	
1/4	3,835.38	1/4	4,198.03	1/4	4,553.64	1/4	4,890.36	1/4	5,228.29	1/4		1/4		1/4		1/4		1/4	
1/2	3,842.94	1/2	4,205.59	1/2	4,560.86	1/2	4,897.16	1/2	5,233.41	1/2		1/2		1/2		1/2		1/2	
3/4	3,850.49	3/4	4,213.14	3/4	4,568.07	3/4	4,903.96	3/4	5,238.52	3/4		3/4		3/4		3/4		3/4	
8	3,858.05	8	4,220.70	8	4,575.28	8	4,910.77	8	5,243.64	8		8		8		8		8	
1/4	3,865.60	1/4	4,228.25	1/4	4,582.46	1/4	4,917.54	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,873.16	1/2	4,235.80	1/2	4,589.64	1/2	4,924.31	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,880.72	3/4	4,243.35	3/4	4,596.82	3/4	4,931.08	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,888.27	9	4,250.91	9	4,604.00	9	4,937.86	9		9		9		9		9		9	
1/4	3,895.83	1/4	4,258.44	1/4	4,611.15	1/4	4,944.60	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,903.38	1/2	4,265.97	1/2	4,618.30	1/2	4,951.34	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,910.94	3/4	4,273.50	3/4	4,625.44	3/4	4,958.08	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,918.49	10	4,281.03	10	4,632.59	10	4,964.82	10		10		10		10		10		10	
1/4	3,926.05	1/4	4,288.53	1/4	4,639.71	1/4	4,971.53	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,933.60	1/2	4,296.03	1/2	4,646.83	1/2	4,978.23	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,941.16	3/4	4,303.53	3/4	4,653.95	3/4	4,984.94	3/4		3/4		3/4		3/4		3/4		3/4	
11	3,948.71	11	4,311.03	11	4,661.06	11	4,991.65	11		11		11		11		11		11	
1/4	3,956.27	1/4	4,318.50	1/4	4,668.15	1/4	4,998.64	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,963.82	1/2	4,325.96	1/2	4,675.24	1/2	5,005.64	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,971.38	3/4	4,333.43	3/4	4,682.33	3/4	5,012.63	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 02/24/2020 JS
CALCULATED: 02/24/2020 CL
PRINTED: 02/25/2020 SW

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CANCELS AND SUPERCEDES
ALL PRIOR TO 02/2020



BARGE "EMS 513B"

2 PORT
INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08"

Table with 18 columns and multiple rows showing capacity data for various gauge heights from 0 to 11 feet.

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 513B"

2 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GUAGE HEIGHT 15'-08"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	3,604.50	0	3,965.76	0	4,326.32	0	4,673.51	0	5,002.45	0		0		0		0		0	
1/4	3,612.02	1/4	3,973.28	1/4	4,333.72	1/4	4,680.53	1/4	5,009.82	1/4		1/4		1/4		1/4		1/4	
1/2	3,619.55	1/2	3,980.81	1/2	4,341.13	1/2	4,687.56	1/2	5,017.20	1/2		1/2		1/2		1/2		1/2	
3/4	3,627.07	3/4	3,988.34	3/4	4,348.54	3/4	4,694.59	3/4	5,024.58	3/4		3/4		3/4		3/4		3/4	
1	3,634.60	1	3,995.86	1	4,355.94	1	4,701.62	1	5,031.95	1		1		1		1		1	
1/4	3,642.13	1/4	4,003.39	1/4	4,363.32	1/4	4,708.58	1/4	5,039.38	1/4		1/4		1/4		1/4		1/4	
1/2	3,649.65	1/2	4,010.92	1/2	4,370.69	1/2	4,715.55	1/2	5,046.81	1/2		1/2		1/2		1/2		1/2	
3/4	3,657.18	3/4	4,018.44	3/4	4,378.07	3/4	4,722.52	3/4	5,054.24	3/4		3/4		3/4		3/4		3/4	
2	3,664.71	2	4,025.97	2	4,385.45	2	4,729.49	2	5,061.66	2		2		2		2		2	
1/4	3,672.23	1/4	4,033.49	1/4	4,392.79	1/4	4,736.42	1/4	5,069.09	1/4		1/4		1/4		1/4		1/4	
1/2	3,679.76	1/2	4,041.02	1/2	4,400.14	1/2	4,743.36	1/2	5,076.52	1/2		1/2		1/2		1/2		1/2	
3/4	3,687.28	3/4	4,048.55	3/4	4,407.49	3/4	4,750.29	3/4	5,083.95	3/4		3/4		3/4		3/4		3/4	
3	3,694.81	3	4,056.07	3	4,414.83	3	4,757.23	3	5,091.38	3		3		3		3		3	
1/4	3,702.34	1/4	4,063.60	1/4	4,422.15	1/4	4,764.13	1/4	5,098.80	1/4		1/4		1/4		1/4		1/4	
1/2	3,709.86	1/2	4,071.13	1/2	4,429.46	1/2	4,771.03	1/2	5,106.23	1/2		1/2		1/2		1/2		1/2	
3/4	3,717.39	3/4	4,078.65	3/4	4,436.77	3/4	4,777.94	3/4	5,113.66	3/4		3/4		3/4		3/4		3/4	
4	3,724.92	4	4,086.18	4	4,444.08	4	4,784.84	4	5,121.09	4		4		4		4		4	
1/4	3,732.44	1/4	4,093.71	1/4	4,451.36	1/4	4,791.71	1/4	5,128.52	1/4		1/4		1/4		1/4		1/4	
1/2	3,739.97	1/2	4,101.23	1/2	4,458.64	1/2	4,798.58	1/2	5,135.94	1/2		1/2		1/2		1/2		1/2	
3/4	3,747.50	3/4	4,108.76	3/4	4,465.92	3/4	4,805.45	3/4	5,143.37	3/4		3/4		3/4		3/4		3/4	
5	3,755.02	5	4,116.28	5	4,473.20	5	4,812.32	5	5,150.80	5		5		5		5		5	
1/4	3,762.55	1/4	4,123.81	1/4	4,480.45	1/4	4,819.16	1/4	5,158.09	1/4		1/4		1/4		1/4		1/4	
1/2	3,770.07	1/2	4,131.34	1/2	4,487.70	1/2	4,826.00	1/2	5,165.38	1/2		1/2		1/2		1/2		1/2	
3/4	3,777.60	3/4	4,138.86	3/4	4,494.95	3/4	4,832.84	3/4	5,172.67	3/4		3/4		3/4		3/4		3/4	
6	3,785.13	6	4,146.39	6	4,502.19	6	4,839.67	6	5,179.97	6		6		6		6		6	
1/4	3,792.65	1/4	4,153.92	1/4	4,509.41	1/4	4,846.48	1/4	5,186.28	1/4		1/4		1/4		1/4		1/4	
1/2	3,800.18	1/2	4,161.44	1/2	4,516.63	1/2	4,853.29	1/2	5,192.59	1/2		1/2		1/2		1/2		1/2	
3/4	3,807.71	3/4	4,168.97	3/4	4,523.85	3/4	4,860.09	3/4	5,198.90	3/4		3/4		3/4		3/4		3/4	
7	3,815.23	7	4,176.49	7	4,531.07	7	4,866.90	7	5,205.21	7		7		7		7		7	
1/4	3,822.76	1/4	4,184.02	1/4	4,538.25	1/4	4,873.67	1/4	5,210.31	1/4		1/4		1/4		1/4		1/4	
1/2	3,830.28	1/2	4,191.55	1/2	4,545.44	1/2	4,880.45	1/2	5,215.41	1/2		1/2		1/2		1/2		1/2	
3/4	3,837.81	3/4	4,199.07	3/4	4,552.62	3/4	4,887.23	3/4	5,220.51	3/4		3/4		3/4		3/4		3/4	
8	3,845.34	8	4,206.60	8	4,559.81	8	4,894.00	8	5,225.61	8		8		8		8		8	
1/4	3,852.86	1/4	4,214.12	1/4	4,566.96	1/4	4,900.75	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,860.39	1/2	4,221.64	1/2	4,574.11	1/2	4,907.50	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,867.92	3/4	4,229.16	3/4	4,581.26	3/4	4,914.24	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,875.44	9	4,236.68	9	4,588.42	9	4,920.99	9		9		9		9		9		9	
1/4	3,882.97	1/4	4,244.18	1/4	4,595.54	1/4	4,927.70	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,890.49	1/2	4,251.68	1/2	4,602.66	1/2	4,934.42	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,898.02	3/4	4,259.18	3/4	4,609.78	3/4	4,941.13	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,905.55	10	4,266.69	10	4,616.90	10	4,947.85	10		10		10		10		10		10	
1/4	3,913.07	1/4	4,274.16	1/4	4,623.99	1/4	4,954.53	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,920.60	1/2	4,281.63	1/2	4,631.08	1/2	4,961.21	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,928.13	3/4	4,289.10	3/4	4,638.17	3/4	4,967.89	3/4		3/4		3/4		3/4		3/4		3/4	
11	3,935.65	11	4,296.57	11	4,645.26	11	4,974.58	11		11		11		11		11		11	
1/4	3,943.18	1/4	4,304.01	1/4	4,652.32	1/4	4,981.54	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,950.71	1/2	4,311.44	1/2	4,659.38	1/2	4,988.51	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,958.23	3/4	4,318.88	3/4	4,666.45	3/4	4,995.48	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 02/24/2020 JS
CALCULATED: 02/24/2020 CL
PRINTED: 02/25/2020 SW

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& ANALYSIS, INC.

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Pearland, Texas 77588

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CANCELS AND SUPERCEDES
ALL PRIOR TO 02/2020



BARGE "EMS 513B"

2 STBD INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08 1/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	3,585.46	0	3,946.57	0	4,306.99	0	4,654.04	0	4,982.86	0		0		0		0		0	
1/4	3,592.98	1/4	3,954.09	1/4	4,314.39	1/4	4,661.06	1/4	4,990.23	1/4		1/4		1/4		1/4		1/4	
1/2	3,600.50	1/2	3,961.62	1/2	4,321.79	1/2	4,668.09	1/2	4,997.60	1/2		1/2		1/2		1/2		1/2	
3/4	3,608.02	3/4	3,969.14	3/4	4,329.20	3/4	4,675.11	3/4	5,004.98	3/4		3/4		3/4		3/4		3/4	
1	3,615.55	1	3,976.66	1	4,336.60	1	4,682.14	1	5,012.35	1		1		1		1		1	
1/4	3,623.07	1/4	3,984.18	1/4	4,343.97	1/4	4,689.10	1/4	5,019.77	1/4		1/4		1/4		1/4		1/4	
1/2	3,630.59	1/2	3,991.71	1/2	4,351.35	1/2	4,696.07	1/2	5,027.20	1/2		1/2		1/2		1/2		1/2	
3/4	3,638.12	3/4	3,999.23	3/4	4,358.72	3/4	4,703.03	3/4	5,034.62	3/4		3/4		3/4		3/4		3/4	
2	3,645.64	2	4,006.75	2	4,366.09	2	4,710.00	2	5,042.05	2		2		2		2		2	
1/4	3,653.16	1/4	4,014.28	1/4	4,373.44	1/4	4,716.93	1/4	5,049.48	1/4		1/4		1/4		1/4		1/4	
1/2	3,660.69	1/2	4,021.80	1/2	4,380.78	1/2	4,723.86	1/2	5,056.90	1/2		1/2		1/2		1/2		1/2	
3/4	3,668.21	3/4	4,029.32	3/4	4,388.12	3/4	4,730.79	3/4	5,064.33	3/4		3/4		3/4		3/4		3/4	
3	3,675.73	3	4,036.85	3	4,395.47	3	4,737.73	3	5,071.75	3		3		3		3		3	
1/4	3,683.26	1/4	4,044.37	1/4	4,402.78	1/4	4,744.63	1/4	5,079.18	1/4		1/4		1/4		1/4		1/4	
1/2	3,690.78	1/2	4,051.89	1/2	4,410.09	1/2	4,751.53	1/2	5,086.60	1/2		1/2		1/2		1/2		1/2	
3/4	3,698.30	3/4	4,059.42	3/4	4,417.40	3/4	4,758.43	3/4	5,094.03	3/4		3/4		3/4		3/4		3/4	
4	3,705.83	4	4,066.94	4	4,424.71	4	4,765.33	4	5,101.45	4		4		4		4		4	
1/4	3,713.35	1/4	4,074.46	1/4	4,431.98	1/4	4,772.20	1/4	5,108.88	1/4		1/4		1/4		1/4		1/4	
1/2	3,720.87	1/2	4,081.99	1/2	4,439.26	1/2	4,779.07	1/2	5,116.30	1/2		1/2		1/2		1/2		1/2	
3/4	3,728.40	3/4	4,089.51	3/4	4,446.53	3/4	4,785.94	3/4	5,123.73	3/4		3/4		3/4		3/4		3/4	
5	3,735.92	5	4,097.03	5	4,453.81	5	4,792.81	5	5,131.15	5		5		5		5		5	
1/4	3,743.44	1/4	4,104.56	1/4	4,461.06	1/4	4,799.64	1/4	5,138.44	1/4		1/4		1/4		1/4		1/4	
1/2	3,750.97	1/2	4,112.08	1/2	4,468.30	1/2	4,806.47	1/2	5,145.73	1/2		1/2		1/2		1/2		1/2	
3/4	3,758.49	3/4	4,119.60	3/4	4,475.55	3/4	4,813.31	3/4	5,153.01	3/4		3/4		3/4		3/4		3/4	
6	3,766.01	6	4,127.13	6	4,482.79	6	4,820.14	6	5,160.30	6		6		6		6		6	
1/4	3,773.54	1/4	4,134.65	1/4	4,490.01	1/4	4,826.95	1/4	5,166.61	1/4		1/4		1/4		1/4		1/4	
1/2	3,781.06	1/2	4,142.17	1/2	4,497.22	1/2	4,833.75	1/2	5,172.92	1/2		1/2		1/2		1/2		1/2	
3/4	3,788.58	3/4	4,149.70	3/4	4,504.44	3/4	4,840.55	3/4	5,179.22	3/4		3/4		3/4		3/4		3/4	
7	3,796.10	7	4,157.22	7	4,511.66	7	4,847.36	7	5,185.53	7		7		7		7		7	
1/4	3,803.63	1/4	4,164.74	1/4	4,518.84	1/4	4,854.13	1/4	5,190.63	1/4		1/4		1/4		1/4		1/4	
1/2	3,811.15	1/2	4,172.26	1/2	4,526.02	1/2	4,860.91	1/2	5,195.73	1/2		1/2		1/2		1/2		1/2	
3/4	3,818.67	3/4	4,179.79	3/4	4,533.20	3/4	4,867.68	3/4	5,200.82	3/4		3/4		3/4		3/4		3/4	
8	3,826.20	8	4,187.31	8	4,540.39	8	4,874.45	8	5,205.92	8		8		8		8		8	
1/4	3,833.72	1/4	4,194.83	1/4	4,547.54	1/4	4,881.20	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,841.24	1/2	4,202.35	1/2	4,554.68	1/2	4,887.94	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,848.77	3/4	4,209.86	3/4	4,561.83	3/4	4,894.69	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,856.29	9	4,217.38	9	4,568.98	9	4,901.43	9		9		9		9		9		9	
1/4	3,863.81	1/4	4,224.88	1/4	4,576.10	1/4	4,908.14	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,871.34	1/2	4,232.38	1/2	4,583.22	1/2	4,914.86	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,878.86	3/4	4,239.88	3/4	4,590.34	3/4	4,921.57	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,886.38	10	4,247.38	10	4,597.45	10	4,928.28	10		10		10		10		10		10	
1/4	3,893.91	1/4	4,254.85	1/4	4,604.54	1/4	4,934.96	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,901.43	1/2	4,262.32	1/2	4,611.63	1/2	4,941.64	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,908.95	3/4	4,269.78	3/4	4,618.72	3/4	4,948.32	3/4		3/4		3/4		3/4		3/4		3/4	
11	3,916.48	11	4,277.25	11	4,625.81	11	4,955.00	11		11		11		11		11		11	
1/4	3,924.00	1/4	4,284.69	1/4	4,632.86	1/4	4,961.96	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,931.52	1/2	4,292.12	1/2	4,639.92	1/2	4,968.93	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,939.05	3/4	4,299.55	3/4	4,646.98	3/4	4,975.89	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 02/24/2020 JS
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CANCELS AND SUPERCEDES
ALL PRIOR TO 02/2020



BARGE "EMS 513B"

3 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08 1/2"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	3,547.49	0	3,741.26	0	3,934.34	0	4,114.10	0	4,276.40	0		0		0		0		0	
1/4	3,551.52	1/4	3,745.29	1/4	3,938.26	1/4	4,117.64	1/4	4,280.33	1/4		1/4		1/4		1/4		1/4	
1/2	3,555.56	1/2	3,749.33	1/2	3,942.17	1/2	4,121.18	1/2	4,284.26	1/2		1/2		1/2		1/2		1/2	
3/4	3,559.60	3/4	3,753.37	3/4	3,946.09	3/4	4,124.72	3/4	4,288.19	3/4		3/4		3/4		3/4		3/4	
1	3,563.63	1	3,757.40	1	3,950.01	1	4,128.26	1	4,292.12	1		1		1		1		1	
1/4	3,567.67	1/4	3,761.44	1/4	3,953.90	1/4	4,131.75	1/4	4,296.11	1/4		1/4		1/4		1/4		1/4	
1/2	3,571.71	1/2	3,765.48	1/2	3,957.78	1/2	4,135.25	1/2	4,300.09	1/2		1/2		1/2		1/2		1/2	
3/4	3,575.74	3/4	3,769.51	3/4	3,961.67	3/4	4,138.74	3/4	4,304.08	3/4		3/4		3/4		3/4		3/4	
2	3,579.78	2	3,773.55	2	3,965.56	2	4,142.23	2	4,308.06	2		2		2		2		2	
1/4	3,583.82	1/4	3,777.59	1/4	3,969.42	1/4	4,145.69	1/4	4,312.04	1/4		1/4		1/4		1/4		1/4	
1/2	3,587.85	1/2	3,781.63	1/2	3,973.27	1/2	4,149.16	1/2	4,316.03	1/2		1/2		1/2		1/2		1/2	
3/4	3,591.89	3/4	3,785.66	3/4	3,977.13	3/4	4,152.62	3/4	4,320.01	3/4		3/4		3/4		3/4		3/4	
3	3,595.93	3	3,789.70	3	3,980.99	3	4,156.08	3	4,324.00	3		3		3		3		3	
1/4	3,599.96	1/4	3,793.74	1/4	3,984.81	1/4	4,159.51	1/4	4,327.98	1/4		1/4		1/4		1/4		1/4	
1/2	3,604.00	1/2	3,797.77	1/2	3,988.64	1/2	4,162.94	1/2	4,331.96	1/2		1/2		1/2		1/2		1/2	
3/4	3,608.04	3/4	3,801.81	3/4	3,992.46	3/4	4,166.37	3/4	4,335.95	3/4		3/4		3/4		3/4		3/4	
4	3,612.08	4	3,805.85	4	3,996.29	4	4,169.81	4	4,339.93	4		4		4		4		4	
1/4	3,616.11	1/4	3,809.88	1/4	4,000.08	1/4	4,173.20	1/4	4,343.92	1/4		1/4		1/4		1/4		1/4	
1/2	3,620.15	1/2	3,813.92	1/2	4,003.87	1/2	4,176.60	1/2	4,347.90	1/2		1/2		1/2		1/2		1/2	
3/4	3,624.19	3/4	3,817.96	3/4	4,007.66	3/4	4,180.00	3/4	4,351.88	3/4		3/4		3/4		3/4		3/4	
5	3,628.22	5	3,821.99	5	4,011.45	5	4,183.40	5	4,355.87	5		5		5		5		5	
1/4	3,632.26	1/4	3,826.03	1/4	4,015.21	1/4	4,186.77	1/4	4,359.72	1/4		1/4		1/4		1/4		1/4	
1/2	3,636.30	1/2	3,830.07	1/2	4,018.97	1/2	4,190.13	1/2	4,363.57	1/2		1/2		1/2		1/2		1/2	
3/4	3,640.33	3/4	3,834.11	3/4	4,022.73	3/4	4,193.50	3/4	4,367.42	3/4		3/4		3/4		3/4		3/4	
6	3,644.37	6	3,838.14	6	4,026.49	6	4,196.86	6	4,371.27	6		6		6		6		6	
1/4	3,648.41	1/4	3,842.18	1/4	4,030.22	1/4	4,200.19	1/4	4,374.14	1/4		1/4		1/4		1/4		1/4	
1/2	3,652.44	1/2	3,846.22	1/2	4,033.95	1/2	4,203.53	1/2	4,377.01	1/2		1/2		1/2		1/2		1/2	
3/4	3,656.48	3/4	3,850.25	3/4	4,037.68	3/4	4,206.86	3/4	4,379.88	3/4		3/4		3/4		3/4		3/4	
7	3,660.52	7	3,854.29	7	4,041.41	7	4,210.20	7	4,382.76	7		7		7		7		7	
1/4	3,664.56	1/4	3,858.33	1/4	4,045.11	1/4	4,213.50	1/4	4,384.41	1/4		1/4		1/4		1/4		1/4	
1/2	3,668.59	1/2	3,862.36	1/2	4,048.81	1/2	4,216.81	1/2	4,386.06	1/2		1/2		1/2		1/2		1/2	
3/4	3,672.63	3/4	3,866.40	3/4	4,052.51	3/4	4,220.11	3/4	4,387.72	3/4		3/4		3/4		3/4		3/4	
8	3,676.67	8	3,870.44	8	4,056.20	8	4,223.42	8	4,389.37	8		8		8		8		8	
1/4	3,680.70	1/4	3,874.47	1/4	4,059.87	1/4	4,226.69	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,684.74	1/2	3,878.50	1/2	4,063.53	1/2	4,229.97	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,688.78	3/4	3,882.53	3/4	4,067.19	3/4	4,233.24	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,692.81	9	3,886.57	9	4,070.86	9	4,236.51	9		9		9		9		9		9	
1/4	3,696.85	1/4	3,890.58	1/4	4,074.49	1/4	4,239.76	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,700.89	1/2	3,894.59	1/2	4,078.12	1/2	4,243.00	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,704.92	3/4	3,898.61	3/4	4,081.76	3/4	4,246.24	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,708.96	10	3,902.62	10	4,085.39	10	4,249.48	10		10		10		10		10		10	
1/4	3,713.00	1/4	3,906.60	1/4	4,088.99	1/4	4,252.69	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,717.04	1/2	3,910.58	1/2	4,092.60	1/2	4,255.90	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,721.07	3/4	3,914.57	3/4	4,096.20	3/4	4,259.10	3/4		3/4		3/4		3/4		3/4		3/4	
11	3,725.11	11	3,918.55	11	4,099.80	11	4,262.31	11		11		11		11		11		11	
1/4	3,729.15	1/4	3,922.50	1/4	4,103.38	1/4	4,265.83	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,733.18	1/2	3,926.44	1/2	4,106.95	1/2	4,269.35	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,737.22	3/4	3,930.39	3/4	4,110.52	3/4	4,272.88	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 02/24/2020 JS
CALCULATED: 02/24/2020 CL
PRINTED: 02/25/2020 SW

PRECISION MEASUREMENT
& ANALYSIS, INC.

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Pearland, Texas 77588

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CANCELS AND SUPERCEDES
ALL PRIOR TO 02/2020



BARGE "EMS 513B"

3 STBD INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GUAGE HEIGHT 15'-09"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	3,520.23	0	3,713.26	0	3,905.61	0	4,084.63	0	4,246.19	0		0		0		0		0	
1/4	3,524.25	1/4	3,717.28	1/4	3,909.51	1/4	4,088.15	1/4	4,250.11	1/4		1/4		1/4		1/4		1/4	
1/2	3,528.27	1/2	3,721.30	1/2	3,913.41	1/2	4,091.68	1/2	4,254.03	1/2		1/2		1/2		1/2		1/2	
3/4	3,532.29	3/4	3,725.33	3/4	3,917.31	3/4	4,095.20	3/4	4,257.94	3/4		3/4		3/4		3/4		3/4	
1	3,536.31	1	3,729.35	1	3,921.21	1	4,098.73	1	4,261.86	1		1		1		1		1	
1/4	3,540.34	1/4	3,733.37	1/4	3,925.09	1/4	4,102.21	1/4	4,265.83	1/4		1/4		1/4		1/4		1/4	
1/2	3,544.36	1/2	3,737.39	1/2	3,928.96	1/2	4,105.68	1/2	4,269.80	1/2		1/2		1/2		1/2		1/2	
3/4	3,548.38	3/4	3,741.41	3/4	3,932.83	3/4	4,109.16	3/4	4,273.77	3/4		3/4		3/4		3/4		3/4	
2	3,552.40	2	3,745.43	2	3,936.70	2	4,112.64	2	4,277.73	2		2		2		2		2	
1/4	3,556.42	1/4	3,749.45	1/4	3,940.55	1/4	4,116.09	1/4	4,281.70	1/4		1/4		1/4		1/4		1/4	
1/2	3,560.44	1/2	3,753.48	1/2	3,944.39	1/2	4,119.53	1/2	4,285.67	1/2		1/2		1/2		1/2		1/2	
3/4	3,564.47	3/4	3,757.50	3/4	3,948.23	3/4	4,122.98	3/4	4,289.64	3/4		3/4		3/4		3/4		3/4	
3	3,568.49	3	3,761.52	3	3,952.07	3	4,126.43	3	4,293.61	3		3		3		3		3	
1/4	3,572.51	1/4	3,765.54	1/4	3,955.88	1/4	4,129.84	1/4	4,297.58	1/4		1/4		1/4		1/4		1/4	
1/2	3,576.53	1/2	3,769.56	1/2	3,959.69	1/2	4,133.26	1/2	4,301.55	1/2		1/2		1/2		1/2		1/2	
3/4	3,580.55	3/4	3,773.58	3/4	3,963.50	3/4	4,136.67	3/4	4,305.51	3/4		3/4		3/4		3/4		3/4	
4	3,584.57	4	3,777.60	4	3,967.31	4	4,140.09	4	4,309.48	4		4		4		4		4	
1/4	3,588.59	1/4	3,781.63	1/4	3,971.08	1/4	4,143.47	1/4	4,313.45	1/4		1/4		1/4		1/4		1/4	
1/2	3,592.62	1/2	3,785.65	1/2	3,974.86	1/2	4,146.86	1/2	4,317.42	1/2		1/2		1/2		1/2		1/2	
3/4	3,596.64	3/4	3,789.67	3/4	3,978.63	3/4	4,150.24	3/4	4,321.39	3/4		3/4		3/4		3/4		3/4	
5	3,600.66	5	3,793.69	5	3,982.41	5	4,153.62	5	4,325.36	5		5		5		5		5	
1/4	3,604.68	1/4	3,797.71	1/4	3,986.16	1/4	4,156.97	1/4	4,329.19	1/4		1/4		1/4		1/4		1/4	
1/2	3,608.70	1/2	3,801.73	1/2	3,989.90	1/2	4,160.32	1/2	4,333.02	1/2		1/2		1/2		1/2		1/2	
3/4	3,612.72	3/4	3,805.76	3/4	3,993.65	3/4	4,163.67	3/4	4,336.86	3/4		3/4		3/4		3/4		3/4	
6	3,616.74	6	3,809.78	6	3,997.39	6	4,167.02	6	4,340.69	6		6		6		6		6	
1/4	3,620.77	1/4	3,813.80	1/4	4,001.11	1/4	4,170.34	1/4	4,343.55	1/4		1/4		1/4		1/4		1/4	
1/2	3,624.79	1/2	3,817.82	1/2	4,004.82	1/2	4,173.66	1/2	4,346.40	1/2		1/2		1/2		1/2		1/2	
3/4	3,628.81	3/4	3,821.84	3/4	4,008.54	3/4	4,176.98	3/4	4,349.26	3/4		3/4		3/4		3/4		3/4	
7	3,632.83	7	3,825.86	7	4,012.25	7	4,180.30	7	4,352.12	7		7		7		7		7	
1/4	3,636.85	1/4	3,829.88	1/4	4,015.93	1/4	4,183.59	1/4	4,353.76	1/4		1/4		1/4		1/4		1/4	
1/2	3,640.87	1/2	3,833.91	1/2	4,019.61	1/2	4,186.88	1/2	4,355.40	1/2		1/2		1/2		1/2		1/2	
3/4	3,644.90	3/4	3,837.93	3/4	4,023.30	3/4	4,190.17	3/4	4,357.04	3/4		3/4		3/4		3/4		3/4	
8	3,648.92	8	3,841.95	8	4,026.98	8	4,193.46	8	4,358.67	8		8		8		8		8	
1/4	3,652.94	1/4	3,845.97	1/4	4,030.63	1/4	4,196.72	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,656.96	1/2	3,849.98	1/2	4,034.28	1/2	4,199.98	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,660.98	3/4	3,854.00	3/4	4,037.92	3/4	4,203.24	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,665.00	9	3,858.02	9	4,041.57	9	4,206.49	9		9		9		9		9		9	
1/4	3,669.02	1/4	3,862.02	1/4	4,045.19	1/4	4,209.72	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,673.05	1/2	3,866.02	1/2	4,048.81	1/2	4,212.95	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,677.07	3/4	3,870.01	3/4	4,052.43	3/4	4,216.17	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,681.09	10	3,874.01	10	4,056.04	10	4,219.40	10		10		10		10		10		10	
1/4	3,685.11	1/4	3,877.98	1/4	4,059.63	1/4	4,222.59	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,689.13	1/2	3,881.94	1/2	4,063.22	1/2	4,225.78	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,693.15	3/4	3,885.91	3/4	4,066.81	3/4	4,228.98	3/4		3/4		3/4		3/4		3/4		3/4	
11	3,697.17	11	3,889.88	11	4,070.40	11	4,232.17	11		11		11		11		11		11	
1/4	3,701.20	1/4	3,893.81	1/4	4,073.95	1/4	4,235.67	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,705.22	1/2	3,897.74	1/2	4,077.51	1/2	4,239.18	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,709.24	3/4	3,901.67	3/4	4,081.07	3/4	4,242.69	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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CANCELS AND SUPERCEDES
ALL PRIOR TO 02/2020



BARGE "EMS 513B"

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	03-1/8	- 03-1/8
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	03-1/8	- 03-1/8

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

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

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"

February 24, 2020

PRECISION MEASUREMENT
& ANALYSIS, INC.

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 Pearland, Texas 77588

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BARGE "EMS 513B"

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	4,925.79	0	4,590.29	0	4,235.63	0	3,872.53	0	3,509.43	0	3,146.33	0	2,783.23	0	2,420.04
11		11	4,952.89	11	4,619.01	11	4,265.86	11	3,902.79	11	3,539.69	11	3,176.59	11	2,813.48	11	2,450.31	11	2,087.07
1/4		1/4	4,946.14	1/4	4,611.86	1/4	4,258.32	1/4	3,895.22	1/4	3,532.12	1/4	3,169.02	1/4	2,805.92	1/4	2,442.74	1/4	2,079.51
1/2		1/2	4,939.36	1/2	4,604.67	1/2	4,250.76	1/2	3,887.66	1/2	3,524.56	1/2	3,161.46	1/2	2,798.36	1/2	2,435.17	1/2	2,071.94
3/4		3/4	4,932.57	3/4	4,597.48	3/4	4,243.19	3/4	3,880.09	3/4	3,516.99	3/4	3,153.89	3/4	2,790.79	3/4	2,427.61	3/4	2,064.37

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP OF 2" DIAMETER "HERMETIC" VALVE.
 GAUGE POINT: (HERMETIC) LOCATED 10'-06" OFF CENTERLINE AND 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 513B"

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	2,056.80	0	1,693.57	0	1,330.33	0	967.53	0	604.36	0	244.61	0		0		0		0	
1/4	2,049.24	1/4	1,686.00	1/4	1,322.77	1/4	959.98	1/4	596.80	1/4	237.19	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,041.67	1/2	1,678.43	1/2	1,315.20	1/2	952.42	1/2	589.23	1/2	229.78	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,034.10	3/4	1,670.87	3/4	1,307.63	3/4	944.86	3/4	581.66	3/4	222.36	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	2,026.53	1	1,663.30	1	1,300.06	1	937.31	1	574.09	1	214.94	1	1	1	1	1	1	1	1
1/4	2,018.97	1/4	1,655.73	1/4	1,292.50	1/4	929.75	1/4	566.53	1/4	207.52	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,011.40	1/2	1,648.16	1/2	1,284.93	1/2	922.18	1/2	558.96	1/2	200.08	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,003.83	3/4	1,640.60	3/4	1,277.36	3/4	914.61	3/4	551.39	3/4	192.64	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	1,996.26	2	1,633.03	2	1,269.79	2	907.05	2	543.83	2	185.21	2	2	2	2	2	2	2	2
1/4	1,988.70	1/4	1,625.46	1/4	1,262.23	1/4	899.48	1/4	536.26	1/4	177.77	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,981.13	1/2	1,617.89	1/2	1,254.66	1/2	891.91	1/2	528.69	1/2	170.22	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,973.56	3/4	1,610.33	3/4	1,247.09	3/4	884.35	3/4	521.12	3/4	162.67	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	1,966.00	3	1,602.76	3	1,239.53	3	876.78	3	513.56	3	155.12	3	3	3	3	3	3	3	3
1/4	1,958.43	1/4	1,595.19	1/4	1,231.96	1/4	869.21	1/4	505.99	1/4	147.56	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,950.86	1/2	1,587.63	1/2	1,224.41	1/2	861.64	1/2	498.42	1/2	140.01	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,943.29	3/4	1,580.06	3/4	1,216.85	3/4	854.08	3/4	490.86	3/4	132.46	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	1,935.73	4	1,572.49	4	1,209.30	4	846.51	4	483.29	4	124.91	4	4	4	4	4	4	4	4
1/4	1,928.16	1/4	1,564.92	1/4	1,201.74	1/4	838.94	1/4	475.72	1/4	117.35	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,920.59	1/2	1,557.36	1/2	1,194.19	1/2	831.38	1/2	468.15	1/2	109.88	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,913.02	3/4	1,549.79	3/4	1,186.63	3/4	823.81	3/4	460.59	3/4	102.41	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	1,905.46	5	1,542.22	5	1,179.08	5	816.24	5	453.02	5	94.93	5	5	5	5	5	5	5	5
1/4	1,897.89	1/4	1,534.65	1/4	1,171.52	1/4	808.67	1/4	445.45	1/4	87.46	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,890.32	1/2	1,527.09	1/2	1,163.97	1/2	801.11	1/2	437.90	1/2	80.70	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,882.75	3/4	1,519.52	3/4	1,156.41	3/4	793.54	3/4	430.36	3/4	73.93	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	1,875.19	6	1,511.95	6	1,148.86	6	785.97	6	422.81	6	67.17	6	6	6	6	6	6	6	6
1/4	1,867.62	1/4	1,504.38	1/4	1,141.30	1/4	778.41	1/4	415.26	1/4	60.41	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,860.05	1/2	1,496.82	1/2	1,133.74	1/2	770.84	1/2	407.84	1/2	54.90	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,852.48	3/4	1,489.25	3/4	1,126.19	3/4	763.27	3/4	400.42	3/4	49.40	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	1,844.92	7	1,481.68	7	1,118.63	7	755.70	7	393.00	7	43.90	7	7	7	7	7	7	7	7
1/4	1,837.35	1/4	1,474.11	1/4	1,111.08	1/4	748.14	1/4	385.58	1/4	38.40	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,829.78	1/2	1,466.55	1/2	1,103.52	1/2	740.57	1/2	378.16	1/2	34.15	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,822.21	3/4	1,458.98	3/4	1,095.97	3/4	733.00	3/4	370.74	3/4	29.91	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	1,814.65	8	1,451.41	8	1,088.41	8	725.44	8	363.32	8	25.67	8	8	8	8	8	8	8	8
1/4	1,807.08	1/4	1,443.84	1/4	1,080.86	1/4	717.87	1/4	355.90	1/4	21.42	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,799.51	1/2	1,436.28	1/2	1,073.30	1/2	710.30	1/2	348.48	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,791.95	3/4	1,428.71	3/4	1,065.75	3/4	702.73	3/4	341.06	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	1,784.38	9	1,421.14	9	1,058.19	9	695.17	9	333.65	9		9	9	9	9	9	9	9	9
1/4	1,776.81	1/4	1,413.58	1/4	1,050.64	1/4	687.60	1/4	326.23	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,769.24	1/2	1,406.01	1/2	1,043.08	1/2	680.03	1/2	318.81	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,761.68	3/4	1,398.44	3/4	1,035.53	3/4	672.47	3/4	311.39	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	1,754.11	10	1,390.87	10	1,027.97	10	664.90	10	303.97	10		10	10	10	10	10	10	10	10
1/4	1,746.54	1/4	1,383.31	1/4	1,020.42	1/4	657.33	1/4	296.55	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,738.97	1/2	1,375.74	1/2	1,012.86	1/2	649.77	1/2	289.13	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,731.41	3/4	1,368.17	3/4	1,005.31	3/4	642.20	3/4	281.71	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	1,723.84	11	1,360.60	11	997.75	11	634.63	11	274.29	11		11	11	11	11	11	11	11	11
1/4	1,716.27	1/4	1,353.04	1/4	990.20	1/4	627.06	1/4	266.87	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,708.70	1/2	1,345.47	1/2	982.64	1/2	619.50	1/2	259.45	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,701.14	3/4	1,337.90	3/4	975.09	3/4	611.93	3/4	252.03	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: 02/24/2020 JS
CALCULATED: 02/24/2020 CL
PRINTED: 02/25/2020 SW

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CANCELS AND SUPERCEDES
ALL PRIOR TO 02/2020



BARGE "EMS 513B"

2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GUAGE HEIGHT 15'-08"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,038.82	0	1,677.43	0	1,316.03	0	955.09	0	593.75	0	235.99	0		0		0		0	
1/4	2,031.29	1/4	1,669.90	1/4	1,308.51	1/4	947.57	1/4	586.22	1/4	228.61	1/4		1/4		1/4		1/4	
1/2	2,023.76	1/2	1,662.37	1/2	1,300.98	1/2	940.05	1/2	578.69	1/2	221.22	1/2		1/2		1/2		1/2	
3/4	2,016.23	3/4	1,654.84	3/4	1,293.45	3/4	932.53	3/4	571.17	3/4	213.84	3/4		3/4		3/4		3/4	
1	2,008.70	1	1,647.31	1	1,285.92	1	925.01	1	563.64	1	206.46	1		1		1		1	
1/4	2,001.17	1/4	1,639.78	1/4	1,278.39	1/4	917.49	1/4	556.11	1/4	199.06	1/4		1/4		1/4		1/4	
1/2	1,993.64	1/2	1,632.25	1/2	1,270.86	1/2	909.96	1/2	548.58	1/2	191.67	1/2		1/2		1/2		1/2	
3/4	1,986.12	3/4	1,624.72	3/4	1,263.33	3/4	902.43	3/4	541.05	3/4	184.27	3/4		3/4		3/4		3/4	
2	1,978.59	2	1,617.19	2	1,255.80	2	894.90	2	533.52	2	176.87	2		2		2		2	
1/4	1,971.06	1/4	1,609.67	1/4	1,248.28	1/4	887.37	1/4	525.99	1/4	169.36	1/4		1/4		1/4		1/4	
1/2	1,963.53	1/2	1,602.14	1/2	1,240.75	1/2	879.84	1/2	518.46	1/2	161.84	1/2		1/2		1/2		1/2	
3/4	1,956.00	3/4	1,594.61	3/4	1,233.22	3/4	872.31	3/4	510.94	3/4	154.33	3/4		3/4		3/4		3/4	
3	1,948.47	3	1,587.08	3	1,225.69	3	864.78	3	503.41	3	146.82	3		3		3		3	
1/4	1,940.94	1/4	1,579.55	1/4	1,218.18	1/4	857.26	1/4	495.88	1/4	139.30	1/4		1/4		1/4		1/4	
1/2	1,933.41	1/2	1,572.02	1/2	1,210.66	1/2	849.73	1/2	488.35	1/2	131.79	1/2		1/2		1/2		1/2	
3/4	1,925.88	3/4	1,564.49	3/4	1,203.14	3/4	842.20	3/4	480.82	3/4	124.27	3/4		3/4		3/4		3/4	
4	1,918.35	4	1,556.96	4	1,195.63	4	834.67	4	473.29	4	116.76	4		4		4		4	
1/4	1,910.83	1/4	1,549.43	1/4	1,188.11	1/4	827.14	1/4	465.76	1/4	109.32	1/4		1/4		1/4		1/4	
1/2	1,903.30	1/2	1,541.90	1/2	1,180.59	1/2	819.61	1/2	458.23	1/2	101.89	1/2		1/2		1/2		1/2	
3/4	1,895.77	3/4	1,534.38	3/4	1,173.08	3/4	812.08	3/4	450.71	3/4	94.45	3/4		3/4		3/4		3/4	
5	1,888.24	5	1,526.85	5	1,165.56	5	804.56	5	443.18	5	87.02	5		5		5		5	
1/4	1,880.71	1/4	1,519.32	1/4	1,158.04	1/4	797.03	1/4	435.67	1/4	80.29	1/4		1/4		1/4		1/4	
1/2	1,873.18	1/2	1,511.79	1/2	1,150.53	1/2	789.50	1/2	428.16	1/2	73.56	1/2		1/2		1/2		1/2	
3/4	1,865.65	3/4	1,504.26	3/4	1,143.01	3/4	781.97	3/4	420.65	3/4	66.83	3/4		3/4		3/4		3/4	
6	1,858.12	6	1,496.73	6	1,135.49	6	774.44	6	413.14	6	60.10	6		6		6		6	
1/4	1,850.59	1/4	1,489.20	1/4	1,127.98	1/4	766.91	1/4	405.75	1/4	54.63	1/4		1/4		1/4		1/4	
1/2	1,843.06	1/2	1,481.67	1/2	1,120.46	1/2	759.38	1/2	398.37	1/2	49.15	1/2		1/2		1/2		1/2	
3/4	1,835.54	3/4	1,474.14	3/4	1,112.94	3/4	751.85	3/4	390.99	3/4	43.68	3/4		3/4		3/4		3/4	
7	1,828.01	7	1,466.61	7	1,105.43	7	744.33	7	383.61	7	38.20	7		7		7		7	
1/4	1,820.48	1/4	1,459.09	1/4	1,097.91	1/4	736.80	1/4	376.23	1/4	33.98	1/4		1/4		1/4		1/4	
1/2	1,812.95	1/2	1,451.56	1/2	1,090.39	1/2	729.27	1/2	368.85	1/2	29.76	1/2		1/2		1/2		1/2	
3/4	1,805.42	3/4	1,444.03	3/4	1,082.87	3/4	721.74	3/4	361.47	3/4	25.54	3/4		3/4		3/4		3/4	
8	1,797.89	8	1,436.50	8	1,075.36	8	714.21	8	354.09	8	21.32	8		8		8		8	
1/4	1,790.36	1/4	1,428.97	1/4	1,067.84	1/4	706.68	1/4	346.71	1/4		1/4		1/4		1/4		1/4	
1/2	1,782.83	1/2	1,421.44	1/2	1,060.32	1/2	699.15	1/2	339.32	1/2		1/2		1/2		1/2		1/2	
3/4	1,775.30	3/4	1,413.91	3/4	1,052.81	3/4	691.62	3/4	331.94	3/4		3/4		3/4		3/4		3/4	
9	1,767.77	9	1,406.38	9	1,045.29	9	684.10	9	324.56	9		9		9		9		9	
1/4	1,760.25	1/4	1,398.85	1/4	1,037.77	1/4	676.57	1/4	317.18	1/4		1/4		1/4		1/4		1/4	
1/2	1,752.72	1/2	1,391.32	1/2	1,030.26	1/2	669.04	1/2	309.80	1/2		1/2		1/2		1/2		1/2	
3/4	1,745.19	3/4	1,383.80	3/4	1,022.74	3/4	661.51	3/4	302.42	3/4		3/4		3/4		3/4		3/4	
10	1,737.66	10	1,376.27	10	1,015.22	10	653.98	10	295.04	10		10		10		10		10	
1/4	1,730.13	1/4	1,368.74	1/4	1,007.71	1/4	646.45	1/4	287.66	1/4		1/4		1/4		1/4		1/4	
1/2	1,722.60	1/2	1,361.21	1/2	1,000.19	1/2	638.92	1/2	280.27	1/2		1/2		1/2		1/2		1/2	
3/4	1,715.07	3/4	1,353.68	3/4	992.67	3/4	631.40	3/4	272.89	3/4		3/4		3/4		3/4		3/4	
11	1,707.54	11	1,346.15	11	985.16	11	623.87	11	265.51	11		11		11		11		11	
1/4	1,700.01	1/4	1,338.62	1/4	977.64	1/4	616.34	1/4	258.13	1/4		1/4		1/4		1/4		1/4	
1/2	1,692.48	1/2	1,331.09	1/2	970.12	1/2	608.81	1/2	250.75	1/2		1/2		1/2		1/2		1/2	
3/4	1,684.96	3/4	1,323.56	3/4	962.61	3/4	601.28	3/4	243.37	3/4		3/4		3/4		3/4		3/4	

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CANCELS AND SUPERCEDES
ALL PRIOR TO 02/2020



BARGE "EMS 513B"

2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08 1/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,029.65	0	1,668.40	0	1,307.15	0	959.40	0	601.03	0	243.26	0		0		0		0	
1/4	2,022.12	1/4	1,660.87	1/4	1,299.63	1/4	952.21	1/4	593.51	1/4	235.88	1/4		1/4		1/4		1/4	
1/2	2,014.60	1/2	1,653.35	1/2	1,292.10	1/2	945.03	1/2	585.98	1/2	228.51	1/2		1/2		1/2		1/2	
3/4	2,007.07	3/4	1,645.82	3/4	1,284.57	3/4	937.85	3/4	578.45	3/4	221.13	3/4		3/4		3/4		3/4	
1	1,999.54	1	1,638.30	1	1,277.05	1	930.66	1	570.93	1	213.75	1		1		1		1	
1/4	1,992.02	1/4	1,630.77	1/4	1,269.52	1/4	923.48	1/4	563.40	1/4	206.37	1/4		1/4		1/4		1/4	
1/2	1,984.49	1/2	1,623.24	1/2	1,262.04	1/2	916.24	1/2	555.88	1/2	198.98	1/2		1/2		1/2		1/2	
3/4	1,976.97	3/4	1,615.72	3/4	1,254.55	3/4	909.00	3/4	548.35	3/4	191.58	3/4		3/4		3/4		3/4	
2	1,969.44	2	1,608.19	2	1,247.07	2	901.77	2	540.83	2	184.19	2		2		2		2	
1/4	1,961.91	1/4	1,600.67	1/4	1,239.58	1/4	894.53	1/4	533.30	1/4	176.79	1/4		1/4		1/4		1/4	
1/2	1,954.39	1/2	1,593.14	1/2	1,232.39	1/2	887.01	1/2	525.77	1/2	169.28	1/2		1/2		1/2		1/2	
3/4	1,946.86	3/4	1,585.61	3/4	1,225.20	3/4	879.48	3/4	518.25	3/4	161.77	3/4		3/4		3/4		3/4	
3	1,939.34	3	1,578.09	3	1,218.00	3	871.96	3	510.72	3	154.26	3		3		3		3	
1/4	1,931.81	1/4	1,570.56	1/4	1,210.81	1/4	864.43	1/4	503.20	1/4	146.75	1/4		1/4		1/4		1/4	
1/2	1,924.28	1/2	1,563.04	1/2	1,203.63	1/2	856.90	1/2	495.67	1/2	139.24	1/2		1/2		1/2		1/2	
3/4	1,916.76	3/4	1,555.51	3/4	1,196.44	3/4	849.38	3/4	488.15	3/4	131.73	3/4		3/4		3/4		3/4	
4	1,909.23	4	1,547.98	4	1,189.26	4	841.85	4	480.62	4	124.22	4		4		4		4	
1/4	1,901.71	1/4	1,540.46	1/4	1,182.08	1/4	834.33	1/4	473.09	1/4	116.70	1/4		1/4		1/4		1/4	
1/2	1,894.18	1/2	1,532.93	1/2	1,174.89	1/2	826.80	1/2	465.57	1/2	109.27	1/2		1/2		1/2		1/2	
3/4	1,886.65	3/4	1,525.41	3/4	1,167.71	3/4	819.28	3/4	458.04	3/4	101.84	3/4		3/4		3/4		3/4	
5	1,879.13	5	1,517.88	5	1,160.53	5	811.75	5	450.52	5	94.41	5		5		5		5	
1/4	1,871.60	1/4	1,510.35	1/4	1,153.34	1/4	804.22	1/4	442.99	1/4	86.97	1/4		1/4		1/4		1/4	
1/2	1,864.08	1/2	1,502.83	1/2	1,146.16	1/2	796.70	1/2	435.48	1/2	80.25	1/2		1/2		1/2		1/2	
3/4	1,856.55	3/4	1,495.30	3/4	1,138.98	3/4	789.17	3/4	427.98	3/4	73.52	3/4		3/4		3/4		3/4	
6	1,849.02	6	1,487.78	6	1,131.79	6	781.65	6	420.47	6	66.79	6		6		6		6	
1/4	1,841.50	1/4	1,480.25	1/4	1,124.61	1/4	774.12	1/4	412.96	1/4	60.07	1/4		1/4		1/4		1/4	
1/2	1,833.97	1/2	1,472.72	1/2	1,117.43	1/2	766.60	1/2	405.58	1/2	54.60	1/2		1/2		1/2		1/2	
3/4	1,826.45	3/4	1,465.20	3/4	1,110.25	3/4	759.07	3/4	398.21	3/4	49.12	3/4		3/4		3/4		3/4	
7	1,818.92	7	1,457.67	7	1,103.06	7	751.54	7	390.83	7	43.65	7		7		7		7	
1/4	1,811.39	1/4	1,450.15	1/4	1,095.88	1/4	744.02	1/4	383.45	1/4	38.18	1/4		1/4		1/4		1/4	
1/2	1,803.87	1/2	1,442.62	1/2	1,088.70	1/2	736.49	1/2	376.07	1/2	33.96	1/2		1/2		1/2		1/2	
3/4	1,796.34	3/4	1,435.09	3/4	1,081.51	3/4	728.97	3/4	368.69	3/4	29.74	3/4		3/4		3/4		3/4	
8	1,788.82	8	1,427.57	8	1,074.33	8	721.44	8	361.32	8	25.52	8		8		8		8	
1/4	1,781.29	1/4	1,420.04	1/4	1,067.15	1/4	713.92	1/4	353.94	1/4	21.31	1/4		1/4		1/4		1/4	
1/2	1,773.76	1/2	1,412.52	1/2	1,059.96	1/2	706.39	1/2	346.56	1/2		1/2		1/2		1/2		1/2	
3/4	1,766.24	3/4	1,404.99	3/4	1,052.78	3/4	698.86	3/4	339.18	3/4		3/4		3/4		3/4		3/4	
9	1,758.71	9	1,397.46	9	1,045.60	9	691.34	9	331.80	9		9		9		9		9	
1/4	1,751.19	1/4	1,389.94	1/4	1,038.41	1/4	683.81	1/4	324.42	1/4		1/4		1/4		1/4		1/4	
1/2	1,743.66	1/2	1,382.41	1/2	1,031.23	1/2	676.29	1/2	317.05	1/2		1/2		1/2		1/2		1/2	
3/4	1,736.13	3/4	1,374.89	3/4	1,024.05	3/4	668.76	3/4	309.67	3/4		3/4		3/4		3/4		3/4	
10	1,728.61	10	1,367.36	10	1,016.86	10	661.24	10	302.29	10		10		10		10		10	
1/4	1,721.08	1/4	1,359.83	1/4	1,009.68	1/4	653.71	1/4	294.91	1/4		1/4		1/4		1/4		1/4	
1/2	1,713.56	1/2	1,352.31	1/2	1,002.50	1/2	646.19	1/2	287.53	1/2		1/2		1/2		1/2		1/2	
3/4	1,706.03	3/4	1,344.78	3/4	995.31	3/4	638.66	3/4	280.15	3/4		3/4		3/4		3/4		3/4	
11	1,698.50	11	1,337.26	11	988.13	11	631.13	11	272.78	11		11		11		11		11	
1/4	1,690.98	1/4	1,329.73	1/4	980.95	1/4	623.61	1/4	265.40	1/4		1/4		1/4		1/4		1/4	
1/2	1,683.45	1/2	1,322.20	1/2	973.76	1/2	616.08	1/2	258.02	1/2		1/2		1/2		1/2		1/2	
3/4	1,675.93	3/4	1,314.68	3/4	966.58	3/4	608.56	3/4	250.64	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 02/24/2020 JS
CALCULATED: 02/24/2020 CL
PRINTED: 02/25/2020 SW

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

CANCELS AND SUPERCEDES
ALL PRIOR TO 02/2020





BARGE "EMS 513B"

3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08 1/2"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,045.62	0	1,685.70	0	1,325.77	0	966.15	0	606.31	0	249.72	0		0		0		0	
1/4	2,038.12	1/4	1,678.20	1/4	1,318.27	1/4	958.66	1/4	598.81	1/4	242.37	1/4		1/4		1/4		1/4	
1/2	2,030.63	1/2	1,670.70	1/2	1,310.77	1/2	951.17	1/2	591.32	1/2	235.02	1/2		1/2		1/2		1/2	
3/4	2,023.13	3/4	1,663.20	3/4	1,303.28	3/4	943.68	3/4	583.82	3/4	227.67	3/4		3/4		3/4		3/4	
1	2,015.63	1	1,655.70	1	1,295.78	1	936.19	1	576.32	1	220.32	1		1		1		1	
1/4	2,008.13	1/4	1,648.21	1/4	1,288.28	1/4	928.70	1/4	568.82	1/4	212.97	1/4		1/4		1/4		1/4	
1/2	2,000.64	1/2	1,640.71	1/2	1,280.78	1/2	921.21	1/2	561.32	1/2	205.62	1/2		1/2		1/2		1/2	
3/4	1,993.14	3/4	1,633.21	3/4	1,273.28	3/4	913.72	3/4	553.82	3/4	198.25	3/4		3/4		3/4		3/4	
2	1,985.64	2	1,625.71	2	1,265.78	2	906.23	2	546.33	2	190.88	2		2		2		2	
1/4	1,978.14	1/4	1,618.21	1/4	1,258.28	1/4	898.74	1/4	538.83	1/4	183.52	1/4		1/4		1/4		1/4	
1/2	1,970.64	1/2	1,610.71	1/2	1,250.79	1/2	891.24	1/2	531.33	1/2	176.15	1/2		1/2		1/2		1/2	
3/4	1,963.14	3/4	1,603.22	3/4	1,243.29	3/4	883.75	3/4	523.83	3/4	168.66	3/4		3/4		3/4		3/4	
3	1,955.64	3	1,595.72	3	1,235.79	3	876.25	3	516.33	3	161.18	3		3		3		3	
1/4	1,948.15	1/4	1,588.22	1/4	1,228.29	1/4	868.75	1/4	508.84	1/4	153.70	1/4		1/4		1/4		1/4	
1/2	1,940.65	1/2	1,580.72	1/2	1,220.79	1/2	861.25	1/2	501.34	1/2	146.21	1/2		1/2		1/2		1/2	
3/4	1,933.15	3/4	1,573.22	3/4	1,213.30	3/4	853.75	3/4	493.84	3/4	138.73	3/4		3/4		3/4		3/4	
4	1,925.65	4	1,565.72	4	1,205.80	4	846.25	4	486.34	4	131.25	4		4		4		4	
1/4	1,918.15	1/4	1,558.22	1/4	1,198.31	1/4	838.76	1/4	478.84	1/4	123.76	1/4		1/4		1/4		1/4	
1/2	1,910.65	1/2	1,550.73	1/2	1,190.82	1/2	831.26	1/2	471.34	1/2	116.28	1/2		1/2		1/2		1/2	
3/4	1,903.16	3/4	1,543.23	3/4	1,183.33	3/4	823.76	3/4	463.85	3/4	108.88	3/4		3/4		3/4		3/4	
5	1,895.66	5	1,535.73	5	1,175.84	5	816.26	5	456.35	5	101.47	5		5		5		5	
1/4	1,888.16	1/4	1,528.23	1/4	1,168.35	1/4	808.76	1/4	448.85	1/4	94.07	1/4		1/4		1/4		1/4	
1/2	1,880.66	1/2	1,520.73	1/2	1,160.86	1/2	801.27	1/2	441.35	1/2	86.66	1/2		1/2		1/2		1/2	
3/4	1,873.16	3/4	1,513.23	3/4	1,153.37	3/4	793.77	3/4	433.87	3/4	79.96	3/4		3/4		3/4		3/4	
6	1,865.66	6	1,505.73	6	1,145.88	6	786.27	6	426.39	6	73.26	6		6		6		6	
1/4	1,858.16	1/4	1,498.24	1/4	1,138.39	1/4	778.77	1/4	418.91	1/4	66.55	1/4		1/4		1/4		1/4	
1/2	1,850.67	1/2	1,490.74	1/2	1,130.90	1/2	771.27	1/2	411.43	1/2	59.85	1/2		1/2		1/2		1/2	
3/4	1,843.17	3/4	1,483.24	3/4	1,123.41	3/4	763.77	3/4	404.08	3/4	54.40	3/4		3/4		3/4		3/4	
7	1,835.67	7	1,475.74	7	1,115.93	7	756.28	7	396.73	7	48.95	7		7		7		7	
1/4	1,828.17	1/4	1,468.24	1/4	1,108.44	1/4	748.78	1/4	389.38	1/4	43.50	1/4		1/4		1/4		1/4	
1/2	1,820.67	1/2	1,460.74	1/2	1,100.95	1/2	741.28	1/2	382.03	1/2	38.04	1/2		1/2		1/2		1/2	
3/4	1,813.17	3/4	1,453.25	3/4	1,093.46	3/4	733.78	3/4	374.68	3/4	33.84	3/4		3/4		3/4		3/4	
8	1,805.67	8	1,445.75	8	1,085.97	8	726.28	8	367.33	8	29.64	8		8		8		8	
1/4	1,798.18	1/4	1,438.25	1/4	1,078.48	1/4	718.79	1/4	359.98	1/4	25.43	1/4		1/4		1/4		1/4	
1/2	1,790.68	1/2	1,430.75	1/2	1,070.99	1/2	711.29	1/2	352.63	1/2	21.23	1/2		1/2		1/2		1/2	
3/4	1,783.18	3/4	1,423.25	3/4	1,063.50	3/4	703.79	3/4	345.28	3/4	---	3/4		3/4		3/4		3/4	
9	1,775.68	9	1,415.75	9	1,056.01	9	696.29	9	337.93	9		9		9		9		9	
1/4	1,768.18	1/4	1,408.25	1/4	1,048.52	1/4	688.79	1/4	330.58	1/4		1/4		1/4		1/4		1/4	
1/2	1,760.68	1/2	1,400.76	1/2	1,041.04	1/2	681.29	1/2	323.23	1/2		1/2		1/2		1/2		1/2	
3/4	1,753.19	3/4	1,393.26	3/4	1,033.55	3/4	673.80	3/4	315.88	3/4		3/4		3/4		3/4		3/4	
10	1,745.69	10	1,385.76	10	1,026.06	10	666.30	10	308.53	10		10		10		10		10	
1/4	1,738.19	1/4	1,378.26	1/4	1,018.57	1/4	658.80	1/4	301.17	1/4		1/4		1/4		1/4		1/4	
1/2	1,730.69	1/2	1,370.76	1/2	1,011.08	1/2	651.30	1/2	293.82	1/2		1/2		1/2		1/2		1/2	
3/4	1,723.19	3/4	1,363.26	3/4	1,003.59	3/4	643.80	3/4	286.47	3/4		3/4		3/4		3/4		3/4	
11	1,715.69	11	1,355.76	11	996.10	11	636.31	11	279.12	11		11		11		11		11	
1/4	1,708.19	1/4	1,348.27	1/4	988.61	1/4	628.81	1/4	271.77	1/4		1/4		1/4		1/4		1/4	
1/2	1,700.70	1/2	1,340.77	1/2	981.12	1/2	621.31	1/2	264.42	1/2		1/2		1/2		1/2		1/2	
3/4	1,693.20	3/4	1,333.27	3/4	973.63	3/4	613.81	3/4	257.07	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 02/24/2020 JS
CALCULATED: 02/24/2020 CL
PRINTED: 02/25/2020 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 02/2020

PRECISION MEASUREMENT
& ANALYSIS, INC.

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



BARGE "EMS 513B"

3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-09"

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	2,038.45	0	1,679.29	0	1,321.39	0	971.99	0	620.21	0	263.98	0		0		0		0	
1/4	2,030.97	1/4	1,671.81	1/4	1,313.97	1/4	964.84	1/4	612.73	1/4	256.64	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,023.49	1/2	1,664.33	1/2	1,306.55	1/2	957.69	1/2	605.24	1/2	249.30	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,016.01	3/4	1,656.84	3/4	1,299.13	3/4	950.54	3/4	597.76	3/4	241.96	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	2,008.53	1	1,649.36	1	1,291.71	1	943.40	1	590.27	1	234.63	1	1	1	1	1	1	1	1
1/4	2,001.04	1/4	1,641.88	1/4	1,284.29	1/4	936.25	1/4	582.79	1/4	227.29	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,993.56	1/2	1,634.40	1/2	1,276.87	1/2	929.10	1/2	575.31	1/2	219.95	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,986.08	3/4	1,626.91	3/4	1,269.45	3/4	921.95	3/4	567.82	3/4	212.62	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	1,978.60	2	1,619.43	2	1,262.02	2	914.81	2	560.34	2	205.28	2	2	2	2	2	2	2	2
1/4	1,971.11	1/4	1,611.95	1/4	1,254.61	1/4	907.65	1/4	552.85	1/4	197.92	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,963.63	1/2	1,604.47	1/2	1,247.19	1/2	900.50	1/2	545.37	1/2	190.57	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,956.15	3/4	1,596.98	3/4	1,239.77	3/4	893.35	3/4	537.88	3/4	183.22	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	1,948.67	3	1,589.50	3	1,232.35	3	886.19	3	530.40	3	175.86	3	3	3	3	3	3	3	3
1/4	1,941.18	1/4	1,582.02	1/4	1,224.94	1/4	879.02	1/4	522.91	1/4	168.39	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,933.70	1/2	1,574.54	1/2	1,217.54	1/2	871.85	1/2	515.43	1/2	160.92	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,926.22	3/4	1,567.05	3/4	1,210.14	3/4	864.67	3/4	507.94	3/4	153.45	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	1,918.74	4	1,559.57	4	1,202.73	4	857.50	4	500.46	4	145.98	4	4	4	4	4	4	4	4
1/4	1,911.25	1/4	1,552.09	1/4	1,195.33	1/4	850.32	1/4	492.98	1/4	138.51	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,903.77	1/2	1,544.61	1/2	1,187.92	1/2	843.15	1/2	485.49	1/2	131.03	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,896.29	3/4	1,537.12	3/4	1,180.52	3/4	835.97	3/4	478.01	3/4	123.56	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	1,888.81	5	1,529.64	5	1,173.11	5	828.79	5	470.52	5	116.08	5	5	5	5	5	5	5	5
1/4	1,881.32	1/4	1,522.16	1/4	1,165.72	1/4	821.56	1/4	463.04	1/4	108.69	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,873.84	1/2	1,514.68	1/2	1,158.32	1/2	814.32	1/2	455.55	1/2	101.30	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,866.36	3/4	1,507.19	3/4	1,150.93	3/4	807.08	3/4	448.07	3/4	93.91	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	1,858.87	6	1,499.71	6	1,143.53	6	799.84	6	440.58	6	86.52	6	6	6	6	6	6	6	6
1/4	1,851.39	1/4	1,492.23	1/4	1,136.38	1/4	792.36	1/4	433.12	1/4	79.84	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,843.91	1/2	1,484.76	1/2	1,129.23	1/2	784.87	1/2	425.65	1/2	73.16	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,836.43	3/4	1,477.28	3/4	1,122.09	3/4	777.39	3/4	418.19	3/4	66.48	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	1,828.94	7	1,469.81	7	1,114.94	7	769.91	7	410.72	7	59.80	7	7	7	7	7	7	7	7
1/4	1,821.46	1/4	1,462.39	1/4	1,107.79	1/4	762.42	1/4	403.38	1/4	54.36	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,813.98	1/2	1,454.97	1/2	1,100.64	1/2	754.94	1/2	396.05	1/2	48.91	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,806.50	3/4	1,447.55	3/4	1,093.50	3/4	747.45	3/4	388.71	3/4	43.47	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	1,799.01	8	1,440.13	8	1,086.35	8	739.97	8	381.37	8	38.03	8	8	8	8	8	8	8	8
1/4	1,791.53	1/4	1,432.71	1/4	1,079.20	1/4	732.48	1/4	374.03	1/4	33.83	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,784.05	1/2	1,425.28	1/2	1,072.05	1/2	725.00	1/2	366.70	1/2	29.63	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,776.57	3/4	1,417.86	3/4	1,064.91	3/4	717.51	3/4	359.36	3/4	25.42	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	1,769.08	9	1,410.44	9	1,057.76	9	710.03	9	352.02	9	21.23	9	9	9	9	9	9	9	9
1/4	1,761.60	1/4	1,403.02	1/4	1,050.61	1/4	702.54	1/4	344.68	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,754.12	1/2	1,395.60	1/2	1,043.46	1/2	695.06	1/2	337.35	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,746.64	3/4	1,388.18	3/4	1,036.32	3/4	687.57	3/4	330.01	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	1,739.15	10	1,380.76	10	1,029.17	10	680.09	10	322.67	10	10	10	10	10	10	10	10	10	10
1/4	1,731.67	1/4	1,373.34	1/4	1,022.02	1/4	672.61	1/4	315.34	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,724.19	1/2	1,365.92	1/2	1,014.87	1/2	665.12	1/2	308.00	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,716.71	3/4	1,358.50	3/4	1,007.73	3/4	657.64	3/4	300.66	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	1,709.22	11	1,351.08	11	1,000.58	11	650.15	11	293.32	11	11	11	11	11	11	11	11	11	11
1/4	1,701.74	1/4	1,343.65	1/4	993.43	1/4	642.67	1/4	285.99	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,694.26	1/2	1,336.23	1/2	986.28	1/2	635.18	1/2	278.65	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,686.78	3/4	1,328.81	3/4	979.14	3/4	627.70	3/4	271.31	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 02/24/2020 JS
CALCULATED: 02/24/2020 CL
PRINTED: 02/25/2020 SW

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