



BARGE "MM 310"

INNAGE TRIM TABLE HERMETIC

	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	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8
1 STBD	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8
2 PORT	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8
2 STBD	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8
3 PORT	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8
3 STBD	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8
4 PORT	- 01-1/8	01-1/8	- 02-1/4	02-1/4	- 03-3/8	03-3/8	- 04-1/2	04-1/2	- 05-3/4	05-3/4	- 06-7/8	06-7/8
4 STBD	- 01-1/8	01-1/8	- 02-1/4	02-1/4	- 03-3/8	03-3/8	- 04-1/2	04-1/2	- 05-5/8	05-5/8	- 06-7/8	06-7/8

(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 4 PORT IS 02-1/4"
 FOR A MEASURED INNAGE GAUGE OF 4'-00" ON 4 PORT, THE TRIM CORRECTED INNAGE IS 4'-02 1/4"

LENGTH BETWEEN DRAFT MARKS: 237'-03"

April 16, 2015

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

<http://www.pmacorp.net>



BARGE "MM 310"

1 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-03"

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	17.14	0	201.23	0	442.81	0	689.03	0	936.29	0	1,183.60	0	1,431.30	0	1,679.00	0	1,926.70	0	2,174.40
1/4	19.03	1/4	205.90	1/4	447.97	1/4	694.15	1/4	941.45	1/4	1,188.76	1/4	1,436.46	1/4	1,684.16	1/4	1,931.86	1/4	2,179.56
1/2	20.91	1/2	210.58	1/2	453.13	1/2	699.28	1/2	946.61	1/2	1,193.92	1/2	1,441.62	1/2	1,689.32	1/2	1,937.02	1/2	2,184.72
3/4	22.80	3/4	215.26	3/4	458.29	3/4	704.40	3/4	951.77	3/4	1,199.08	3/4	1,446.78	3/4	1,694.48	3/4	1,942.18	3/4	2,189.88
1	24.69	1	219.94	1	463.45	1	709.53	1	956.93	1	1,204.25	1	1,451.94	1	1,699.64	1	1,947.34	1	2,195.04
1/4	27.70	1/4	224.71	1/4	468.61	1/4	714.65	1/4	962.10	1/4	1,209.41	1/4	1,457.10	1/4	1,704.80	1/4	1,952.50	1/4	2,200.20
1/2	30.70	1/2	229.48	1/2	473.77	1/2	719.77	1/2	967.26	1/2	1,214.57	1/2	1,462.27	1/2	1,709.96	1/2	1,957.66	1/2	2,205.36
3/4	33.71	3/4	234.25	3/4	478.93	3/4	724.90	3/4	972.42	3/4	1,219.73	3/4	1,467.43	3/4	1,715.12	3/4	1,962.82	3/4	2,210.52
2	36.72	2	239.01	2	484.09	2	730.02	2	977.58	2	1,224.89	2	1,472.59	2	1,720.29	2	1,967.98	2	2,215.68
1/4	40.31	1/4	243.88	1/4	489.25	1/4	735.15	1/4	982.74	1/4	1,230.05	1/4	1,477.75	1/4	1,725.45	1/4	1,973.14	1/4	2,220.84
1/2	43.91	1/2	248.74	1/2	494.41	1/2	740.27	1/2	987.90	1/2	1,235.21	1/2	1,482.91	1/2	1,730.61	1/2	1,978.31	1/2	2,226.00
3/4	47.50	3/4	253.60	3/4	499.57	3/4	745.39	3/4	993.06	3/4	1,240.37	3/4	1,488.07	3/4	1,735.77	3/4	1,983.47	3/4	2,231.16
3	51.09	3	258.46	3	504.73	3	750.52	3	998.22	3	1,245.53	3	1,493.23	3	1,740.93	3	1,988.63	3	2,236.33
1/4	54.79	1/4	263.41	1/4	509.85	1/4	755.68	1/4	1,003.38	1/4	1,250.69	1/4	1,498.39	1/4	1,746.09	1/4	1,993.79	1/4	2,241.49
1/2	58.50	1/2	268.37	1/2	514.97	1/2	760.84	1/2	1,008.54	1/2	1,255.85	1/2	1,503.55	1/2	1,751.25	1/2	1,998.95	1/2	2,246.65
3/4	62.20	3/4	273.32	3/4	520.09	3/4	766.00	3/4	1,013.70	3/4	1,261.01	3/4	1,508.71	3/4	1,756.41	3/4	2,004.11	3/4	2,251.81
4	65.90	4	278.28	4	525.21	4	771.16	4	1,018.86	4	1,266.17	4	1,513.87	4	1,761.57	4	2,009.27	4	2,256.97
1/4	69.70	1/4	283.32	1/4	530.32	1/4	776.32	1/4	1,024.02	1/4	1,271.33	1/4	1,519.03	1/4	1,766.73	1/4	2,014.43	1/4	2,262.13
1/2	73.50	1/2	288.37	1/2	535.44	1/2	781.48	1/2	1,029.18	1/2	1,276.49	1/2	1,524.19	1/2	1,771.89	1/2	2,019.59	1/2	2,267.29
3/4	77.30	3/4	293.41	3/4	540.56	3/4	786.64	3/4	1,034.34	3/4	1,281.65	3/4	1,529.35	3/4	1,777.05	3/4	2,024.75	3/4	2,272.45
5	81.10	5	298.46	5	545.68	5	791.80	5	1,039.50	5	1,286.81	5	1,534.51	5	1,782.21	5	2,029.91	5	2,277.61
1/4	85.00	1/4	303.58	1/4	550.80	1/4	796.96	1/4	1,044.66	1/4	1,291.97	1/4	1,539.67	1/4	1,787.37	1/4	2,035.07	1/4	2,282.77
1/2	88.89	1/2	308.71	1/2	555.92	1/2	802.12	1/2	1,049.82	1/2	1,297.13	1/2	1,544.83	1/2	1,792.53	1/2	2,040.23	1/2	2,287.93
3/4	92.79	3/4	313.83	3/4	561.04	3/4	807.28	3/4	1,054.98	3/4	1,302.29	3/4	1,549.99	3/4	1,797.69	3/4	2,045.39	3/4	2,293.09
6	96.68	6	318.96	6	566.16	6	812.44	6	1,060.14	6	1,307.45	6	1,555.15	6	1,802.85	6	2,050.55	6	2,298.25
1/4	100.81	1/4	324.12	1/4	571.27	1/4	817.60	1/4	1,065.30	1/4	1,312.61	1/4	1,560.31	1/4	1,808.01	1/4	2,055.71	1/4	2,303.41
1/2	104.93	1/2	329.28	1/2	576.39	1/2	822.76	1/2	1,070.46	1/2	1,317.77	1/2	1,565.47	1/2	1,813.17	1/2	2,060.87	1/2	2,308.57
3/4	109.06	3/4	334.44	3/4	581.51	3/4	827.92	3/4	1,075.62	3/4	1,322.93	3/4	1,570.63	3/4	1,818.33	3/4	2,066.03	3/4	2,313.73
7	113.19	7	339.60	7	586.63	7	833.09	7	1,080.78	7	1,328.09	7	1,575.79	7	1,823.49	7	2,071.19	7	2,318.89
1/4	117.40	1/4	344.76	1/4	591.75	1/4	838.25	1/4	1,085.92	1/4	1,333.26	1/4	1,580.95	1/4	1,828.65	1/4	2,076.35	1/4	2,324.05
1/2	121.62	1/2	349.92	1/2	596.87	1/2	843.41	1/2	1,091.06	1/2	1,338.42	1/2	1,586.11	1/2	1,833.81	1/2	2,081.51	1/2	2,329.21
3/4	125.84	3/4	355.08	3/4	601.99	3/4	848.57	3/4	1,096.19	3/4	1,343.58	3/4	1,591.28	3/4	1,838.97	3/4	2,086.67	3/4	2,334.37
8	130.06	8	360.24	8	607.11	8	853.73	8	1,101.33	8	1,348.74	8	1,596.44	8	1,844.13	8	2,091.83	8	2,339.53
1/4	134.37	1/4	365.40	1/4	612.22	1/4	858.89	1/4	1,106.47	1/4	1,353.90	1/4	1,601.60	1/4	1,849.30	1/4	2,096.99	1/4	2,344.69
1/2	138.68	1/2	370.56	1/2	617.34	1/2	864.05	1/2	1,111.60	1/2	1,359.06	1/2	1,606.76	1/2	1,854.46	1/2	2,102.15	1/2	2,349.85
3/4	142.99	3/4	375.72	3/4	622.46	3/4	869.21	3/4	1,116.74	3/4	1,364.22	3/4	1,611.92	3/4	1,859.62	3/4	2,107.32	3/4	2,355.01
9	147.30	9	380.88	9	627.58	9	874.37	9	1,121.87	9	1,369.38	9	1,617.08	9	1,864.78	9	2,112.48	9	2,360.17
1/4	151.70	1/4	386.04	1/4	632.70	1/4	879.53	1/4	1,127.01	1/4	1,374.54	1/4	1,622.24	1/4	1,869.94	1/4	2,117.64	1/4	2,365.34
1/2	156.10	1/2	391.20	1/2	637.82	1/2	884.69	1/2	1,132.15	1/2	1,379.70	1/2	1,627.40	1/2	1,875.10	1/2	2,122.80	1/2	2,370.50
3/4	160.50	3/4	396.36	3/4	642.94	3/4	889.85	3/4	1,137.28	3/4	1,384.86	3/4	1,632.56	3/4	1,880.26	3/4	2,127.96	3/4	2,375.66
10	164.91	10	401.52	10	648.06	10	895.01	10	1,142.42	10	1,390.02	10	1,637.72	10	1,885.42	10	2,133.12	10	2,380.82
1/4	169.40	1/4	406.68	1/4	653.18	1/4	900.17	1/4	1,147.55	1/4	1,395.18	1/4	1,642.88	1/4	1,890.58	1/4	2,138.28	1/4	2,385.98
1/2	173.89	1/2	411.84	1/2	658.29	1/2	905.33	1/2	1,152.69	1/2	1,400.34	1/2	1,648.04	1/2	1,895.74	1/2	2,143.44	1/2	2,391.14
3/4	178.39	3/4	417.01	3/4	663.41	3/4	910.49	3/4	1,157.83	3/4	1,405.50	3/4	1,653.20	3/4	1,900.90	3/4	2,148.60	3/4	2,396.30
11	182.88	11	422.17	11	668.53	11	915.65	11	1,162.96	11	1,410.66	11	1,658.36	11	1,906.06	11	2,153.76	11	2,401.46
1/4	187.47	1/4	427.33	1/4	673.66	1/4	920.81	1/4	1,168.12	1/4	1,415.82	1/4	1,663.52	1/4	1,911.22	1/4	2,158.92	1/4	2,406.62
1/2	192.05	1/2	432.49	1/2	678.78	1/2	925.97	1/2	1,173.28	1/2	1,420.98	1/2	1,668.68	1/2	1,916.38	1/2	2,164.08	1/2	2,411.78
3/4	196.64	3/4	437.65	3/4	683.90	3/4	931.13	3/4	1,178.44	3/4	1,426.14	3/4	1,673.84	3/4	1,921.54	3/4	2,169.24	3/4	2,416.94

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.

CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.

CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES.

GAUGE POINT: (HERMETIC - 2" VALVE) LOCATED 12'-09" OFF CENTERLINE AND 29'-06" FORWARD OF AFT BULKHEAD.

GAUGE POINT: (8" HATCH) LOCATED 12'-09" OFF CENTERLINE AND 31'-00" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
& ANALYSIS, INC.

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BARGE "MM 310"

1 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-03"

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	2,422.10	0	2,669.80	0	2,917.50	0	3,165.20	0	3,411.62	0		0		0		0		0	
1/4	2,427.26	1/4	2,674.96	1/4	2,922.66	1/4	3,170.36	1/4	3,416.71	1/4		1/4		1/4		1/4		1/4	
1/2	2,432.42	1/2	2,680.12	1/2	2,927.82	1/2	3,175.52	1/2	3,421.79	1/2		1/2		1/2		1/2		1/2	
3/4	2,437.58	3/4	2,685.28	3/4	2,932.98	3/4	3,180.68	3/4	3,426.88	3/4		3/4		3/4		3/4		3/4	
1	2,442.74	1	2,690.44	1	2,938.14	1	3,185.84	1	3,431.96	1		1		1		1		1	
1/4	2,447.90	1/4	2,695.60	1/4	2,943.30	1/4	3,191.00	1/4	3,436.55	1/4		1/4		1/4		1/4		1/4	
1/2	2,453.06	1/2	2,700.76	1/2	2,948.46	1/2	3,196.16	1/2	3,441.14	1/2		1/2		1/2		1/2		1/2	
3/4	2,458.22	3/4	2,705.92	3/4	2,953.62	3/4	3,201.32	3/4	3,445.74	3/4		3/4		3/4		3/4		3/4	
2	2,463.38	2	2,711.08	2	2,958.78	2	3,206.48	2	3,450.33	2		2		2		2		2	
1/4	2,468.54	1/4	2,716.24	1/4	2,963.94	1/4	3,211.64	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,473.70	1/2	2,721.40	1/2	2,969.10	1/2	3,216.80	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,478.86	3/4	2,726.56	3/4	2,974.26	3/4	3,221.96	3/4		3/4		3/4		3/4		3/4		3/4	
3	2,484.02	3	2,731.72	3	2,979.42	3	3,227.12	3		3		3		3		3		3	
1/4	2,489.18	1/4	2,736.88	1/4	2,984.58	1/4	3,232.28	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,494.35	1/2	2,742.04	1/2	2,989.74	1/2	3,237.44	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,499.51	3/4	2,747.20	3/4	2,994.90	3/4	3,242.60	3/4		3/4		3/4		3/4		3/4		3/4	
4	2,504.67	4	2,752.37	4	3,000.06	4	3,247.76	4		4		4		4		4		4	
1/4	2,509.83	1/4	2,757.53	1/4	3,005.22	1/4	3,252.92	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,514.99	1/2	2,762.69	1/2	3,010.39	1/2	3,258.08	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,520.15	3/4	2,767.85	3/4	3,015.55	3/4	3,263.24	3/4		3/4		3/4		3/4		3/4		3/4	
5	2,525.31	5	2,773.01	5	3,020.71	5	3,268.41	5		5		5		5		5		5	
1/4	2,530.47	1/4	2,778.17	1/4	3,025.87	1/4	3,273.57	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,535.63	1/2	2,783.33	1/2	3,031.03	1/2	3,278.73	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,540.79	3/4	2,788.49	3/4	3,036.19	3/4	3,283.89	3/4		3/4		3/4		3/4		3/4		3/4	
6	2,545.95	6	2,793.65	6	3,041.35	6	3,289.05	6		6		6		6		6		6	
1/4	2,551.11	1/4	2,798.81	1/4	3,046.51	1/4	3,294.16	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,556.27	1/2	2,803.97	1/2	3,051.67	1/2	3,299.26	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,561.43	3/4	2,809.13	3/4	3,056.83	3/4	3,304.37	3/4		3/4		3/4		3/4		3/4		3/4	
7	2,566.59	7	2,814.29	7	3,061.99	7	3,309.48	7		7		7		7		7		7	
1/4	2,571.75	1/4	2,819.45	1/4	3,067.15	1/4	3,314.59	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,576.91	1/2	2,824.61	1/2	3,072.31	1/2	3,319.70	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,582.07	3/4	2,829.77	3/4	3,077.47	3/4	3,324.81	3/4		3/4		3/4		3/4		3/4		3/4	
8	2,587.23	8	2,834.93	8	3,082.63	8	3,329.91	8		8		8		8		8		8	
1/4	2,592.39	1/4	2,840.09	1/4	3,087.79	1/4	3,335.02	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,597.55	1/2	2,845.25	1/2	3,092.95	1/2	3,340.13	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,602.71	3/4	2,850.41	3/4	3,098.11	3/4	3,345.24	3/4		3/4		3/4		3/4		3/4		3/4	
9	2,607.87	9	2,855.57	9	3,103.27	9	3,350.35	9		9		9		9		9		9	
1/4	2,613.03	1/4	2,860.73	1/4	3,108.43	1/4	3,355.46	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,618.19	1/2	2,865.89	1/2	3,113.59	1/2	3,360.56	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,623.36	3/4	2,871.05	3/4	3,118.75	3/4	3,365.67	3/4		3/4		3/4		3/4		3/4		3/4	
10	2,628.52	10	2,876.21	10	3,123.91	10	3,370.78	10		10		10		10		10		10	
1/4	2,633.68	1/4	2,881.38	1/4	3,129.07	1/4	3,375.89	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,638.84	1/2	2,886.54	1/2	3,134.23	1/2	3,381.00	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,644.00	3/4	2,891.70	3/4	3,139.40	3/4	3,386.11	3/4		3/4		3/4		3/4		3/4		3/4	
11	2,649.16	11	2,896.86	11	3,144.56	11	3,391.22	11		11		11		11		11		11	
1/4	2,654.32	1/4	2,902.02	1/4	3,149.72	1/4	3,396.32	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,659.48	1/2	2,907.18	1/2	3,154.88	1/2	3,401.42	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,664.64	3/4	2,912.34	3/4	3,160.04	3/4	3,406.52	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 04/16/2015 CL
CALCULATED: 04/16/2015 CL
PRINTED: 04/17/2015 JS

CANCELS AND SUPERCEDES
ALL PRIOR TO 04/2015

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



BARGE "MM 310"

1 STBD INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-02 1/2"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	17.14	0	201.24	0	442.74	0	690.18	0	937.80	0	1,185.02	0	1,432.64	0	1,680.26	0	1,927.87	0	2,175.49
1/4	19.02	1/4	205.91	1/4	447.90	1/4	695.34	1/4	942.96	1/4	1,190.18	1/4	1,437.80	1/4	1,685.41	1/4	1,933.03	1/4	2,180.65
1/2	20.91	1/2	210.59	1/2	453.06	1/2	700.50	1/2	948.12	1/2	1,195.34	1/2	1,442.96	1/2	1,690.57	1/2	1,938.19	1/2	2,185.81
3/4	22.80	3/4	215.27	3/4	458.22	3/4	705.66	3/4	953.28	3/4	1,200.50	3/4	1,448.11	3/4	1,695.73	3/4	1,943.35	3/4	2,190.97
1	24.69	1	219.94	1	463.37	1	710.82	1	958.43	1	1,205.66	1	1,453.27	1	1,700.89	1	1,948.51	1	2,196.13
1/4	27.70	1/4	224.71	1/4	468.53	1/4	715.98	1/4	963.59	1/4	1,210.81	1/4	1,458.43	1/4	1,706.05	1/4	1,953.67	1/4	2,201.28
1/2	30.71	1/2	229.48	1/2	473.69	1/2	721.13	1/2	968.75	1/2	1,215.97	1/2	1,463.59	1/2	1,711.21	1/2	1,958.83	1/2	2,206.44
3/4	33.72	3/4	234.25	3/4	478.85	3/4	726.29	3/4	973.91	3/4	1,221.13	3/4	1,468.75	3/4	1,716.37	3/4	1,963.98	3/4	2,211.60
2	36.73	2	239.02	2	484.01	2	731.45	2	979.07	2	1,226.29	2	1,473.91	2	1,721.53	2	1,969.14	2	2,216.76
1/4	40.32	1/4	243.88	1/4	489.17	1/4	736.61	1/4	984.23	1/4	1,231.45	1/4	1,479.07	1/4	1,726.68	1/4	1,974.30	1/4	2,221.92
1/2	43.92	1/2	248.74	1/2	494.33	1/2	741.77	1/2	989.39	1/2	1,236.61	1/2	1,484.23	1/2	1,731.84	1/2	1,979.46	1/2	2,227.08
3/4	47.51	3/4	253.60	3/4	499.48	3/4	746.93	3/4	994.55	3/4	1,241.77	3/4	1,489.38	3/4	1,737.00	3/4	1,984.62	3/4	2,232.24
3	51.10	3	258.46	3	504.64	3	752.09	3	999.70	3	1,246.93	3	1,494.54	3	1,742.16	3	1,989.78	3	2,237.40
1/4	54.81	1/4	263.41	1/4	509.80	1/4	757.25	1/4	1,004.86	1/4	1,252.08	1/4	1,499.70	1/4	1,747.32	1/4	1,994.94	1/4	2,242.55
1/2	58.51	1/2	268.36	1/2	514.95	1/2	762.40	1/2	1,010.02	1/2	1,257.24	1/2	1,504.86	1/2	1,752.48	1/2	2,000.10	1/2	2,247.71
3/4	62.21	3/4	273.31	3/4	520.10	3/4	767.56	3/4	1,015.18	3/4	1,262.40	3/4	1,510.02	3/4	1,757.64	3/4	2,005.25	3/4	2,252.87
4	65.92	4	278.27	4	525.26	4	772.72	4	1,020.34	4	1,267.56	4	1,515.18	4	1,762.80	4	2,010.41	4	2,258.03
1/4	69.72	1/4	283.31	1/4	530.41	1/4	777.88	1/4	1,025.50	1/4	1,272.72	1/4	1,520.34	1/4	1,767.95	1/4	2,015.57	1/4	2,263.19
1/2	73.52	1/2	288.35	1/2	535.56	1/2	783.04	1/2	1,030.66	1/2	1,277.88	1/2	1,525.50	1/2	1,773.11	1/2	2,020.73	1/2	2,268.35
3/4	77.32	3/4	293.40	3/4	540.72	3/4	788.20	3/4	1,035.82	3/4	1,283.04	3/4	1,530.65	3/4	1,778.27	3/4	2,025.89	3/4	2,273.51
5	81.12	5	298.44	5	545.87	5	793.36	5	1,040.97	5	1,288.19	5	1,535.81	5	1,783.43	5	2,031.05	5	2,278.67
1/4	85.01	1/4	303.56	1/4	551.02	1/4	798.52	1/4	1,046.13	1/4	1,293.35	1/4	1,540.97	1/4	1,788.59	1/4	2,036.21	1/4	2,283.82
1/2	88.91	1/2	308.69	1/2	556.18	1/2	803.67	1/2	1,051.29	1/2	1,298.51	1/2	1,546.13	1/2	1,793.75	1/2	2,041.37	1/2	2,288.98
3/4	92.80	3/4	313.81	3/4	561.33	3/4	808.83	3/4	1,056.45	3/4	1,303.67	3/4	1,551.29	3/4	1,798.91	3/4	2,046.52	3/4	2,294.14
6	96.70	6	318.94	6	566.48	6	813.99	6	1,061.61	6	1,308.83	6	1,556.45	6	1,804.06	6	2,051.68	6	2,299.30
1/4	100.83	1/4	324.09	1/4	571.64	1/4	819.15	1/4	1,066.77	1/4	1,313.99	1/4	1,561.61	1/4	1,809.22	1/4	2,056.84	1/4	2,304.46
1/2	104.95	1/2	329.25	1/2	576.79	1/2	824.31	1/2	1,071.93	1/2	1,319.15	1/2	1,566.76	1/2	1,814.38	1/2	2,062.00	1/2	2,309.62
3/4	109.08	3/4	334.41	3/4	581.94	3/4	829.47	3/4	1,077.09	3/4	1,324.31	3/4	1,571.92	3/4	1,819.54	3/4	2,067.16	3/4	2,314.78
7	113.20	7	339.57	7	587.09	7	834.63	7	1,082.24	7	1,329.46	7	1,577.08	7	1,824.70	7	2,072.32	7	2,319.93
1/4	117.42	1/4	344.73	1/4	592.25	1/4	839.78	1/4	1,087.38	1/4	1,334.62	1/4	1,582.24	1/4	1,829.86	1/4	2,077.48	1/4	2,325.09
1/2	121.64	1/2	349.89	1/2	597.40	1/2	844.94	1/2	1,092.51	1/2	1,339.78	1/2	1,587.40	1/2	1,835.02	1/2	2,082.63	1/2	2,330.25
3/4	125.86	3/4	355.05	3/4	602.55	3/4	850.10	3/4	1,097.65	3/4	1,344.94	3/4	1,592.56	3/4	1,840.18	3/4	2,087.79	3/4	2,335.41
8	130.08	8	360.20	8	607.71	8	855.26	8	1,102.78	8	1,350.10	8	1,597.72	8	1,845.33	8	2,092.95	8	2,340.57
1/4	134.39	1/4	365.36	1/4	612.86	1/4	860.42	1/4	1,107.91	1/4	1,355.26	1/4	1,602.88	1/4	1,850.49	1/4	2,098.11	1/4	2,345.73
1/2	138.70	1/2	370.52	1/2	618.01	1/2	865.58	1/2	1,113.05	1/2	1,360.42	1/2	1,608.03	1/2	1,855.65	1/2	2,103.27	1/2	2,350.89
3/4	143.01	3/4	375.68	3/4	623.17	3/4	870.74	3/4	1,118.18	3/4	1,365.58	3/4	1,613.19	3/4	1,860.81	3/4	2,108.43	3/4	2,356.05
9	147.32	9	380.84	9	628.32	9	875.90	9	1,123.32	9	1,370.73	9	1,618.35	9	1,865.97	9	2,113.59	9	2,361.20
1/4	151.72	1/4	386.00	1/4	633.47	1/4	881.05	1/4	1,128.45	1/4	1,375.89	1/4	1,623.51	1/4	1,871.13	1/4	2,118.75	1/4	2,366.36
1/2	156.12	1/2	391.16	1/2	638.63	1/2	886.21	1/2	1,133.58	1/2	1,381.05	1/2	1,628.67	1/2	1,876.29	1/2	2,123.90	1/2	2,371.52
3/4	160.52	3/4	396.31	3/4	643.78	3/4	891.37	3/4	1,138.72	3/4	1,386.21	3/4	1,633.83	3/4	1,881.45	3/4	2,129.06	3/4	2,376.68
10	164.92	10	401.47	10	648.93	10	896.53	10	1,143.85	10	1,391.37	10	1,638.99	10	1,886.60	10	2,134.22	10	2,381.84
1/4	169.42	1/4	406.63	1/4	654.09	1/4	901.69	1/4	1,148.98	1/4	1,396.53	1/4	1,644.15	1/4	1,891.76	1/4	2,139.38	1/4	2,387.00
1/2	173.91	1/2	411.79	1/2	659.24	1/2	906.85	1/2	1,154.12	1/2	1,401.69	1/2	1,649.30	1/2	1,896.92	1/2	2,144.54	1/2	2,392.16
3/4	178.40	3/4	416.95	3/4	664.39	3/4	912.01	3/4	1,159.25	3/4	1,406.85	3/4	1,654.46	3/4	1,902.08	3/4	2,149.70	3/4	2,397.32
11	182.90	11	422.11	11	669.55	11	917.17	11	1,164.39	11	1,412.00	11	1,659.62	11	1,907.24	11	2,154.86	11	2,402.47
1/4	187.48	1/4	427.26	1/4	674.71	1/4	922.32	1/4	1,169.54	1/4	1,417.16	1/4	1,664.78	1/4	1,912.40	1/4	2,160.02	1/4	2,407.63
1/2	192.07	1/2	432.42	1/2	679.87	1/2	927.48	1/2	1,174.70	1/2	1,422.32	1/2	1,669.94	1/2	1,917.56	1/2	2,165.17	1/2	2,412.79
3/4	196.65	3/4	437.58	3/4	685.02	3/4	932.64	3/4	1,179.86	3/4	1,427.48	3/4	1,675.10	3/4	1,922.72	3/4	2,170.33	3/4	2,417.95

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.

CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.

CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES.

GAUGE POINT: (HERMETIC - 2" VALVE) LOCATED 12'-09" OFF CENTERLINE AND 29'-06" FORWARD OF AFT BULKHEAD.

GAUGE POINT: (8" HATCH) LOCATED 12'-09" OFF CENTERLINE AND 31'-00" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
& ANALYSIS, INC.

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



BARGE "MM 310"

1 STBD INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-02 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	2,423.11	0	2,670.72	0	2,918.32	0	3,165.92	0	3,412.26	0		0		0		0		0	
1/4	2,428.27	1/4	2,675.88	1/4	2,923.48	1/4	3,171.08	1/4	3,417.34	1/4		1/4		1/4		1/4		1/4	
1/2	2,433.43	1/2	2,681.04	1/2	2,928.64	1/2	3,176.24	1/2	3,422.42	1/2		1/2		1/2		1/2		1/2	
3/4	2,438.59	3/4	2,686.20	3/4	2,933.80	3/4	3,181.40	3/4	3,427.51	3/4		3/4		3/4		3/4		3/4	
1	2,443.74	1	2,691.36	1	2,938.95	1	3,186.55	1	3,432.59	1		1		1		1		1	
1/4	2,448.90	1/4	2,696.51	1/4	2,944.11	1/4	3,191.71	1/4	3,437.18	1/4		1/4		1/4		1/4		1/4	
1/2	2,454.06	1/2	2,701.67	1/2	2,949.27	1/2	3,196.87	1/2	3,441.77	1/2		1/2		1/2		1/2		1/2	
3/4	2,459.22	3/4	2,706.83	3/4	2,954.43	3/4	3,202.03	3/4	3,446.36	3/4		3/4		3/4		3/4		3/4	
2	2,464.38	2	2,711.99	2	2,959.59	2	3,207.19	2	3,450.95	2		2		2		2		2	
1/4	2,469.54	1/4	2,717.15	1/4	2,964.75	1/4	3,212.34	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,474.70	1/2	2,722.31	1/2	2,969.90	1/2	3,217.50	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,479.85	3/4	2,727.46	3/4	2,975.06	3/4	3,222.66	3/4		3/4		3/4		3/4		3/4		3/4	
3	2,485.01	3	2,732.62	3	2,980.22	3	3,227.82	3		3		3		3		3		3	
1/4	2,490.17	1/4	2,737.78	1/4	2,985.38	1/4	3,232.98	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,495.33	1/2	2,742.94	1/2	2,990.54	1/2	3,238.14	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,500.49	3/4	2,748.10	3/4	2,995.70	3/4	3,243.29	3/4		3/4		3/4		3/4		3/4		3/4	
4	2,505.65	4	2,753.26	4	3,000.85	4	3,248.45	4		4		4		4		4		4	
1/4	2,510.81	1/4	2,758.41	1/4	3,006.01	1/4	3,253.61	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,515.97	1/2	2,763.57	1/2	3,011.17	1/2	3,258.77	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,521.12	3/4	2,768.73	3/4	3,016.33	3/4	3,263.93	3/4		3/4		3/4		3/4		3/4		3/4	
5	2,526.28	5	2,773.89	5	3,021.49	5	3,269.09	5		5		5		5		5		5	
1/4	2,531.44	1/4	2,779.05	1/4	3,026.65	1/4	3,274.24	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,536.60	1/2	2,784.21	1/2	3,031.80	1/2	3,279.40	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,541.76	3/4	2,789.36	3/4	3,036.96	3/4	3,284.56	3/4		3/4		3/4		3/4		3/4		3/4	
6	2,546.92	6	2,794.52	6	3,042.12	6	3,289.72	6		6		6		6		6		6	
1/4	2,552.08	1/4	2,799.68	1/4	3,047.28	1/4	3,294.88	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,557.24	1/2	2,804.84	1/2	3,052.44	1/2	3,299.93	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,562.39	3/4	2,810.00	3/4	3,057.60	3/4	3,305.04	3/4		3/4		3/4		3/4		3/4		3/4	
7	2,567.55	7	2,815.16	7	3,062.75	7	3,310.15	7		7		7		7		7		7	
1/4	2,572.71	1/4	2,820.31	1/4	3,067.91	1/4	3,315.26	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,577.87	1/2	2,825.47	1/2	3,073.07	1/2	3,320.36	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,583.03	3/4	2,830.63	3/4	3,078.23	3/4	3,325.47	3/4		3/4		3/4		3/4		3/4		3/4	
8	2,588.19	8	2,835.79	8	3,083.39	8	3,330.58	8		8		8		8		8		8	
1/4	2,593.35	1/4	2,840.95	1/4	3,088.55	1/4	3,335.69	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,598.50	1/2	2,846.11	1/2	3,093.70	1/2	3,340.79	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,603.66	3/4	2,851.26	3/4	3,098.86	3/4	3,345.90	3/4		3/4		3/4		3/4		3/4		3/4	
9	2,608.82	9	2,856.42	9	3,104.02	9	3,351.01	9		9		9		9		9		9	
1/4	2,613.98	1/4	2,861.58	1/4	3,109.18	1/4	3,356.11	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,619.14	1/2	2,866.74	1/2	3,114.34	1/2	3,361.22	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,624.30	3/4	2,871.90	3/4	3,119.50	3/4	3,366.33	3/4		3/4		3/4		3/4		3/4		3/4	
10	2,629.46	10	2,877.06	10	3,124.65	10	3,371.44	10		10		10		10		10		10	
1/4	2,634.62	1/4	2,882.21	1/4	3,129.81	1/4	3,376.54	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,639.77	1/2	2,887.37	1/2	3,134.97	1/2	3,381.65	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,644.93	3/4	2,892.53	3/4	3,140.13	3/4	3,386.75	3/4		3/4		3/4		3/4		3/4		3/4	
11	2,650.09	11	2,897.69	11	3,145.29	11	3,391.86	11		11		11		11		11		11	
1/4	2,655.25	1/4	2,902.85	1/4	3,150.45	1/4	3,396.96	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,660.41	1/2	2,908.01	1/2	3,155.60	1/2	3,402.06	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,665.57	3/4	2,913.16	3/4	3,160.76	3/4	3,407.16	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 04/16/2015 CL
CALCULATED: 04/16/2015 CL
PRINTED: 04/17/2015 JS

CANCELS AND SUPERCEDES
ALL PRIOR TO 04/2015

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



BARGE "MM 310"

2 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-02 1/2"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	22.82	0	312.05	0	615.70	0	909.15	0	1,209.46	0	1,511.53	0	1,815.19	0	2,118.85	0	2,422.50	0	2,726.16
1/4	27.08	1/4	318.38	1/4	622.03	1/4	915.19	1/4	1,215.78	1/4	1,517.86	1/4	1,821.51	1/4	2,125.17	1/4	2,428.83	1/4	2,732.49
1/2	31.33	1/2	324.70	1/2	628.35	1/2	921.24	1/2	1,222.11	1/2	1,524.18	1/2	1,827.84	1/2	2,131.50	1/2	2,435.16	1/2	2,738.81
3/4	35.59	3/4	331.03	3/4	634.68	3/4	927.29	3/4	1,228.44	3/4	1,530.51	3/4	1,834.17	3/4	2,137.82	3/4	2,441.48	3/4	2,745.14
1	39.85	1	337.36	1	641.00	1	933.34	1	1,234.76	1	1,536.84	1	1,840.49	1	2,144.15	1	2,447.81	1	2,751.47
1/4	45.37	1/4	343.68	1/4	647.33	1/4	939.38	1/4	1,241.09	1/4	1,543.16	1/4	1,846.82	1/4	2,150.48	1/4	2,454.13	1/4	2,757.79
1/2	50.89	1/2	350.01	1/2	653.66	1/2	945.43	1/2	1,247.42	1/2	1,549.49	1/2	1,853.15	1/2	2,156.80	1/2	2,460.46	1/2	2,764.12
3/4	56.41	3/4	356.33	3/4	659.98	3/4	951.48	3/4	1,253.74	3/4	1,555.81	3/4	1,859.47	3/4	2,163.13	3/4	2,466.79	3/4	2,770.44
2	61.93	2	362.66	2	666.31	2	957.53	2	1,260.07	2	1,562.14	2	1,865.80	2	2,169.46	2	2,473.11	2	2,776.77
1/4	68.05	1/4	368.99	1/4	672.63	1/4	963.57	1/4	1,266.39	1/4	1,568.47	1/4	1,872.12	1/4	2,175.78	1/4	2,479.44	1/4	2,783.10
1/2	74.17	1/2	375.31	1/2	678.96	1/2	969.62	1/2	1,272.72	1/2	1,574.79	1/2	1,878.45	1/2	2,182.11	1/2	2,485.77	1/2	2,789.42
3/4	80.30	3/4	381.64	3/4	685.29	3/4	975.67	3/4	1,279.05	3/4	1,581.12	3/4	1,884.78	3/4	2,188.43	3/4	2,492.09	3/4	2,795.75
3	86.42	3	387.96	3	691.61	3	981.72	3	1,285.37	3	1,587.44	3	1,891.10	3	2,194.76	3	2,498.42	3	2,802.08
1/4	92.56	1/4	394.29	1/4	697.65	1/4	988.04	1/4	1,291.70	1/4	1,593.77	1/4	1,897.43	1/4	2,201.09	1/4	2,504.74	1/4	2,808.40
1/2	98.71	1/2	400.62	1/2	703.70	1/2	994.37	1/2	1,298.03	1/2	1,600.10	1/2	1,903.75	1/2	2,207.41	1/2	2,511.07	1/2	2,814.73
3/4	104.85	3/4	406.94	3/4	709.74	3/4	1,000.69	3/4	1,304.35	3/4	1,606.42	3/4	1,910.08	3/4	2,213.74	3/4	2,517.40	3/4	2,821.05
4	111.00	4	413.27	4	715.78	4	1,007.02	4	1,310.68	4	1,612.75	4	1,916.41	4	2,220.06	4	2,523.72	4	2,827.38
1/4	117.15	1/4	419.59	1/4	721.82	1/4	1,013.35	1/4	1,317.00	1/4	1,619.08	1/4	1,922.73	1/4	2,226.39	1/4	2,530.05	1/4	2,833.71
1/2	123.30	1/2	425.92	1/2	727.86	1/2	1,019.67	1/2	1,323.33	1/2	1,625.40	1/2	1,929.06	1/2	2,232.72	1/2	2,536.37	1/2	2,840.03
3/4	129.46	3/4	432.25	3/4	733.91	3/4	1,026.00	3/4	1,329.66	3/4	1,631.73	3/4	1,935.39	3/4	2,239.04	3/4	2,542.70	3/4	2,846.36
5	135.61	5	438.57	5	739.95	5	1,032.32	5	1,335.98	5	1,638.05	5	1,941.71	5	2,245.37	5	2,549.03	5	2,852.68
1/4	141.76	1/4	444.90	1/4	745.99	1/4	1,038.65	1/4	1,342.31	1/4	1,644.38	1/4	1,948.04	1/4	2,251.70	1/4	2,555.35	1/4	2,859.01
1/2	147.92	1/2	451.22	1/2	752.03	1/2	1,044.98	1/2	1,348.63	1/2	1,650.71	1/2	1,954.36	1/2	2,258.02	1/2	2,561.68	1/2	2,865.34
3/4	154.07	3/4	457.55	3/4	758.07	3/4	1,051.30	3/4	1,354.96	3/4	1,657.03	3/4	1,960.69	3/4	2,264.35	3/4	2,568.01	3/4	2,871.66
6	160.23	6	463.88	6	764.12	6	1,057.63	6	1,361.29	6	1,663.36	6	1,967.02	6	2,270.67	6	2,574.33	6	2,877.99
1/4	166.55	1/4	470.20	1/4	770.16	1/4	1,063.96	1/4	1,367.61	1/4	1,669.69	1/4	1,973.34	1/4	2,277.00	1/4	2,580.66	1/4	2,884.32
1/2	172.88	1/2	476.53	1/2	776.20	1/2	1,070.28	1/2	1,373.94	1/2	1,676.01	1/2	1,979.67	1/2	2,283.33	1/2	2,586.98	1/2	2,890.64
3/4	179.21	3/4	482.85	3/4	782.24	3/4	1,076.61	3/4	1,380.27	3/4	1,682.34	3/4	1,986.00	3/4	2,289.65	3/4	2,593.31	3/4	2,896.97
7	185.53	7	489.18	7	788.28	7	1,082.93	7	1,386.59	7	1,688.66	7	1,992.32	7	2,295.98	7	2,599.64	7	2,903.29
1/4	191.86	1/4	495.51	1/4	794.33	1/4	1,089.26	1/4	1,392.82	1/4	1,694.99	1/4	1,998.65	1/4	2,302.31	1/4	2,605.96	1/4	2,909.62
1/2	198.18	1/2	501.83	1/2	800.37	1/2	1,095.59	1/2	1,399.05	1/2	1,701.32	1/2	2,004.97	1/2	2,308.63	1/2	2,612.29	1/2	2,915.95
3/4	204.51	3/4	508.16	3/4	806.41	3/4	1,101.91	3/4	1,405.27	3/4	1,707.64	3/4	2,011.30	3/4	2,314.96	3/4	2,618.62	3/4	2,922.27
8	210.84	8	514.48	8	812.45	8	1,108.24	8	1,411.50	8	1,713.97	8	2,017.63	8	2,321.28	8	2,624.94	8	2,928.60
1/4	217.16	1/4	520.81	1/4	818.49	1/4	1,114.57	1/4	1,417.73	1/4	1,720.29	1/4	2,023.95	1/4	2,327.61	1/4	2,631.27	1/4	2,934.93
1/2	223.49	1/2	527.14	1/2	824.54	1/2	1,120.89	1/2	1,423.95	1/2	1,726.62	1/2	2,030.28	1/2	2,333.94	1/2	2,637.59	1/2	2,941.25
3/4	229.81	3/4	533.46	3/4	830.58	3/4	1,127.22	3/4	1,430.18	3/4	1,732.95	3/4	2,036.60	3/4	2,340.26	3/4	2,643.92	3/4	2,947.58
9	236.14	9	539.79	9	836.62	9	1,133.54	9	1,436.41	9	1,739.27	9	2,042.93	9	2,346.59	9	2,650.25	9	2,953.90
1/4	242.47	1/4	546.11	1/4	842.66	1/4	1,139.87	1/4	1,442.64	1/4	1,745.60	1/4	2,049.26	1/4	2,352.91	1/4	2,656.57	1/4	2,960.23
1/2	248.79	1/2	552.44	1/2	848.70	1/2	1,146.20	1/2	1,448.86	1/2	1,751.93	1/2	2,055.58	1/2	2,359.24	1/2	2,662.90	1/2	2,966.56
3/4	255.12	3/4	558.77	3/4	854.75	3/4	1,152.52	3/4	1,455.09	3/4	1,758.25	3/4	2,061.91	3/4	2,365.57	3/4	2,669.22	3/4	2,972.88
10	261.44	10	565.09	10	860.79	10	1,158.85	10	1,461.32	10	1,764.58	10	2,068.24	10	2,371.89	10	2,675.55	10	2,979.21
1/4	267.77	1/4	571.42	1/4	866.83	1/4	1,165.17	1/4	1,467.54	1/4	1,770.90	1/4	2,074.56	1/4	2,378.22	1/4	2,681.88	1/4	2,985.53
1/2	274.10	1/2	577.74	1/2	872.87	1/2	1,171.50	1/2	1,473.77	1/2	1,777.23	1/2	2,080.89	1/2	2,384.55	1/2	2,688.20	1/2	2,991.86
3/4	280.42	3/4	584.07	3/4	878.91	3/4	1,177.83	3/4	1,480.00	3/4	1,783.56	3/4	2,087.21	3/4	2,390.87	3/4	2,694.53	3/4	2,998.19
11	286.75	11	590.40	11	884.96	11	1,184.15	11	1,486.23	11	1,789.88	11	2,093.54	11	2,397.20	11	2,700.86	11	3,004.51
1/4	293.07	1/4	596.72	1/4	891.00	1/4	1,190.48	1/4	1,492.55	1/4	1,796.21	1/4	2,099.87	1/4	2,403.52	1/4	2,707.18	1/4	3,010.84
1/2	299.40	1/2	603.05	1/2	897.05	1/2	1,196.81	1/2	1,498.88	1/2	1,802.54	1/2	2,106.19	1/2	2,409.85	1/2	2,713.51	1/2	3,017.17
3/4	305.73	3/4	609.37	3/4	903.10	3/4	1,203.13	3/4	1,505.20	3/4	1,808.86	3/4	2,112.52	3/4	2,416.18	3/4	2,719.83	3/4	3,023.49

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.

CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.

CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES.

GAUGE POINT: (HERMETIC - 2" VALVE) LOCATED 12'-09" OFF CENTERLINE AND 36'-03" FORWARD OF AFT BULKHEAD.

GAUGE POINT: (8" HATCH) LOCATED 12'-09" OFF CENTERLINE AND 37'-09" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
& ANALYSIS, INC.

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



BARGE "MM 310"

2 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-02 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	3,029.82	0	3,333.47	0	3,637.12	0	3,940.77	0	4,242.87	0		0		0		0		0	
1/4	3,036.14	1/4	3,339.80	1/4	3,643.45	1/4	3,947.10	1/4	4,249.10	1/4		1/4		1/4		1/4		1/4	
1/2	3,042.47	1/2	3,346.13	1/2	3,649.77	1/2	3,953.42	1/2	4,255.34	1/2		1/2		1/2		1/2		1/2	
3/4	3,048.80	3/4	3,352.45	3/4	3,656.10	3/4	3,959.75	3/4	4,261.57	3/4		3/4		3/4		3/4		3/4	
1	3,055.12	1	3,358.78	1	3,662.43	1	3,966.07	1	4,267.80	1		1		1		1		1	
1/4	3,061.45	1/4	3,365.10	1/4	3,668.75	1/4	3,972.40	1/4	4,273.43	1/4		1/4		1/4		1/4		1/4	
1/2	3,067.78	1/2	3,371.43	1/2	3,675.08	1/2	3,978.73	1/2	4,279.06	1/2		1/2		1/2		1/2		1/2	
3/4	3,074.10	3/4	3,377.76	3/4	3,681.40	3/4	3,985.05	3/4	4,284.69	3/4		3/4		3/4		3/4		3/4	
2	3,080.43	2	3,384.08	2	3,687.73	2	3,991.38	2	4,290.32	2		2		2		2		2	
1/4	3,086.75	1/4	3,390.41	1/4	3,694.06	1/4	3,997.70	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,093.08	1/2	3,396.73	1/2	3,700.38	1/2	4,004.03	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,099.41	3/4	3,403.06	3/4	3,706.71	3/4	4,010.36	3/4		3/4		3/4		3/4		3/4		3/4	
3	3,105.73	3	3,409.39	3	3,713.03	3	4,016.68	3		3		3		3		3		3	
1/4	3,112.06	1/4	3,415.71	1/4	3,719.36	1/4	4,023.01	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,118.39	1/2	3,422.04	1/2	3,725.69	1/2	4,029.33	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,124.71	3/4	3,428.36	3/4	3,732.01	3/4	4,035.66	3/4		3/4		3/4		3/4		3/4		3/4	
4	3,131.04	4	3,434.69	4	3,738.34	4	4,041.99	4		4		4		4		4		4	
1/4	3,137.36	1/4	3,441.02	1/4	3,744.66	1/4	4,048.31	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,143.69	1/2	3,447.34	1/2	3,750.99	1/2	4,054.64	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,150.02	3/4	3,453.67	3/4	3,757.32	3/4	4,060.96	3/4		3/4		3/4		3/4		3/4		3/4	
5	3,156.34	5	3,459.99	5	3,763.64	5	4,067.29	5		5		5		5		5		5	
1/4	3,162.67	1/4	3,466.32	1/4	3,769.97	1/4	4,073.62	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,168.99	1/2	3,472.65	1/2	3,776.29	1/2	4,079.94	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,175.32	3/4	3,478.97	3/4	3,782.62	3/4	4,086.27	3/4		3/4		3/4		3/4		3/4		3/4	
6	3,181.65	6	3,485.30	6	3,788.95	6	4,092.59	6		6		6		6		6		6	
1/4	3,187.97	1/4	3,491.62	1/4	3,795.27	1/4	4,098.86	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,194.30	1/2	3,497.95	1/2	3,801.60	1/2	4,105.12	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,200.63	3/4	3,504.28	3/4	3,807.92	3/4	4,111.38	3/4		3/4		3/4		3/4		3/4		3/4	
7	3,206.95	7	3,510.60	7	3,814.25	7	4,117.65	7		7		7		7		7		7	
1/4	3,213.28	1/4	3,516.93	1/4	3,820.58	1/4	4,123.91	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,219.60	1/2	3,523.25	1/2	3,826.90	1/2	4,130.17	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,225.93	3/4	3,529.58	3/4	3,833.23	3/4	4,136.43	3/4		3/4		3/4		3/4		3/4		3/4	
8	3,232.26	8	3,535.91	8	3,839.55	8	4,142.70	8		8		8		8		8		8	
1/4	3,238.58	1/4	3,542.23	1/4	3,845.88	1/4	4,148.96	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,244.91	1/2	3,548.56	1/2	3,852.21	1/2	4,155.22	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,251.24	3/4	3,554.88	3/4	3,858.53	3/4	4,161.49	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,257.56	9	3,561.21	9	3,864.86	9	4,167.75	9		9		9		9		9		9	
1/4	3,263.89	1/4	3,567.54	1/4	3,871.18	1/4	4,174.01	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,270.21	1/2	3,573.86	1/2	3,877.51	1/2	4,180.27	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,276.54	3/4	3,580.19	3/4	3,883.84	3/4	4,186.54	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,282.87	10	3,586.51	10	3,890.16	10	4,192.80	10		10		10		10		10		10	
1/4	3,289.19	1/4	3,592.84	1/4	3,896.49	1/4	4,199.06	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,295.52	1/2	3,599.17	1/2	3,902.81	1/2	4,205.33	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,301.84	3/4	3,605.49	3/4	3,909.14	3/4	4,211.59	3/4		3/4		3/4		3/4		3/4		3/4	
11	3,308.17	11	3,611.82	11	3,915.47	11	4,217.85	11		11		11		11		11		11	
1/4	3,314.50	1/4	3,618.14	1/4	3,921.79	1/4	4,224.11	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,320.82	1/2	3,624.47	1/2	3,928.12	1/2	4,230.36	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,327.15	3/4	3,630.80	3/4	3,934.44	3/4	4,236.62	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 04/16/2015 CL
CALCULATED: 04/16/2015 CL
PRINTED: 04/17/2015 JS

CANCELS AND SUPERCEDES
ALL PRIOR TO 04/2015

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



BARGE "MM 310"

2 STBD INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-02 1/2"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	22.82	0	312.05	0	615.70	0	919.19	0	1,222.85	0	1,524.92	0	1,828.58	0	2,132.23	0	2,435.89	0	2,739.55
1/4	27.08	1/4	318.38	1/4	622.02	1/4	925.52	1/4	1,229.17	1/4	1,531.24	1/4	1,834.90	1/4	2,138.56	1/4	2,442.22	1/4	2,745.88
1/2	31.33	1/2	324.70	1/2	628.35	1/2	931.84	1/2	1,235.50	1/2	1,537.57	1/2	1,841.23	1/2	2,144.89	1/2	2,448.54	1/2	2,752.20
3/4	35.59	3/4	331.03	3/4	634.68	3/4	938.17	3/4	1,241.83	3/4	1,543.90	3/4	1,847.55	3/4	2,151.21	3/4	2,454.87	3/4	2,758.53
1	39.85	1	337.35	1	641.00	1	944.50	1	1,248.15	1	1,550.22	1	1,853.88	1	2,157.54	1	2,461.20	1	2,764.85
1/4	45.37	1/4	343.68	1/4	647.33	1/4	950.82	1/4	1,254.48	1/4	1,556.55	1/4	1,860.21	1/4	2,163.86	1/4	2,467.52	1/4	2,771.18
1/2	50.89	1/2	350.01	1/2	653.65	1/2	957.15	1/2	1,260.81	1/2	1,562.88	1/2	1,866.53	1/2	2,170.19	1/2	2,473.85	1/2	2,777.51
3/4	56.41	3/4	356.33	3/4	659.98	3/4	963.47	3/4	1,267.13	3/4	1,569.20	3/4	1,872.86	3/4	2,176.52	3/4	2,480.17	3/4	2,783.83
2	61.93	2	362.66	2	666.31	2	969.80	2	1,273.46	2	1,575.53	2	1,879.19	2	2,182.84	2	2,486.50	2	2,790.16
1/4	68.05	1/4	368.98	1/4	672.63	1/4	976.13	1/4	1,279.78	1/4	1,581.85	1/4	1,885.51	1/4	2,189.17	1/4	2,492.83	1/4	2,796.48
1/2	74.17	1/2	375.31	1/2	678.96	1/2	982.45	1/2	1,286.11	1/2	1,588.18	1/2	1,891.84	1/2	2,195.50	1/2	2,499.15	1/2	2,802.81
3/4	80.29	3/4	381.64	3/4	685.28	3/4	988.78	3/4	1,292.44	3/4	1,594.51	3/4	1,898.16	3/4	2,201.82	3/4	2,505.48	3/4	2,809.14
3	86.42	3	387.96	3	691.61	3	995.11	3	1,298.76	3	1,600.83	3	1,904.49	3	2,208.15	3	2,511.81	3	2,815.46
1/4	92.56	1/4	394.29	1/4	697.93	1/4	1,001.43	1/4	1,305.09	1/4	1,607.16	1/4	1,910.82	1/4	2,214.47	1/4	2,518.13	1/4	2,821.79
1/2	98.71	1/2	400.61	1/2	704.25	1/2	1,007.76	1/2	1,311.42	1/2	1,613.49	1/2	1,917.14	1/2	2,220.80	1/2	2,524.46	1/2	2,828.12
3/4	104.85	3/4	406.94	3/4	710.57	3/4	1,014.08	3/4	1,317.74	3/4	1,619.81	3/4	1,923.47	3/4	2,227.13	3/4	2,530.78	3/4	2,834.44
4	111.00	4	413.27	4	716.90	4	1,020.41	4	1,324.07	4	1,626.14	4	1,929.80	4	2,233.45	4	2,537.11	4	2,840.77
1/4	117.15	1/4	419.59	1/4	723.22	1/4	1,026.74	1/4	1,330.39	1/4	1,632.46	1/4	1,936.12	1/4	2,239.78	1/4	2,543.44	1/4	2,847.09
1/2	123.30	1/2	425.92	1/2	729.54	1/2	1,033.06	1/2	1,336.72	1/2	1,638.79	1/2	1,942.45	1/2	2,246.11	1/2	2,549.76	1/2	2,853.42
3/4	129.45	3/4	432.24	3/4	735.86	3/4	1,039.39	3/4	1,343.05	3/4	1,645.12	3/4	1,948.77	3/4	2,252.43	3/4	2,556.09	3/4	2,859.75
5	135.61	5	438.57	5	742.18	5	1,045.71	5	1,349.37	5	1,651.44	5	1,955.10	5	2,258.76	5	2,562.42	5	2,866.07
1/4	141.76	1/4	444.90	1/4	748.50	1/4	1,052.04	1/4	1,355.70	1/4	1,657.77	1/4	1,961.43	1/4	2,265.08	1/4	2,568.74	1/4	2,872.40
1/2	147.92	1/2	451.22	1/2	754.82	1/2	1,058.37	1/2	1,362.02	1/2	1,664.10	1/2	1,967.75	1/2	2,271.41	1/2	2,575.07	1/2	2,878.73
3/4	154.07	3/4	457.55	3/4	761.14	3/4	1,064.69	3/4	1,368.35	3/4	1,670.42	3/4	1,974.08	3/4	2,277.74	3/4	2,581.39	3/4	2,885.05
6	160.23	6	463.87	6	767.46	6	1,071.02	6	1,374.68	6	1,676.75	6	1,980.41	6	2,284.06	6	2,587.72	6	2,891.38
1/4	166.55	1/4	470.20	1/4	773.79	1/4	1,077.35	1/4	1,381.00	1/4	1,683.07	1/4	1,986.73	1/4	2,290.39	1/4	2,594.05	1/4	2,897.70
1/2	172.88	1/2	476.53	1/2	780.11	1/2	1,083.67	1/2	1,387.33	1/2	1,689.40	1/2	1,993.06	1/2	2,296.72	1/2	2,600.37	1/2	2,904.03
3/4	179.20	3/4	482.85	3/4	786.43	3/4	1,090.00	3/4	1,393.66	3/4	1,695.73	3/4	1,999.38	3/4	2,303.04	3/4	2,606.70	3/4	2,910.36
7	185.53	7	489.18	7	792.75	7	1,096.32	7	1,399.98	7	1,702.05	7	2,005.71	7	2,309.37	7	2,613.03	7	2,916.68
1/4	191.86	1/4	495.50	1/4	799.07	1/4	1,102.65	1/4	1,406.21	1/4	1,708.38	1/4	2,012.04	1/4	2,315.69	1/4	2,619.35	1/4	2,923.01
1/2	198.18	1/2	501.83	1/2	805.39	1/2	1,108.98	1/2	1,412.44	1/2	1,714.70	1/2	2,018.36	1/2	2,322.02	1/2	2,625.68	1/2	2,929.34
3/4	204.51	3/4	508.16	3/4	811.71	3/4	1,115.30	3/4	1,418.66	3/4	1,721.03	3/4	2,024.69	3/4	2,328.35	3/4	2,632.00	3/4	2,935.66
8	210.83	8	514.48	8	818.03	8	1,121.63	8	1,424.89	8	1,727.36	8	2,031.01	8	2,334.67	8	2,638.33	8	2,941.99
1/4	217.16	1/4	520.81	1/4	824.35	1/4	1,127.96	1/4	1,431.12	1/4	1,733.68	1/4	2,037.34	1/4	2,341.00	1/4	2,644.66	1/4	2,948.31
1/2	223.49	1/2	527.13	1/2	830.67	1/2	1,134.28	1/2	1,437.34	1/2	1,740.01	1/2	2,043.67	1/2	2,347.32	1/2	2,650.98	1/2	2,954.64
3/4	229.81	3/4	533.46	3/4	837.00	3/4	1,140.61	3/4	1,443.57	3/4	1,746.34	3/4	2,049.99	3/4	2,353.65	3/4	2,657.31	3/4	2,960.97
9	236.14	9	539.79	9	843.32	9	1,146.93	9	1,449.80	9	1,752.66	9	2,056.32	9	2,359.98	9	2,663.63	9	2,967.29
1/4	242.46	1/4	546.11	1/4	849.64	1/4	1,153.26	1/4	1,456.02	1/4	1,758.99	1/4	2,062.65	1/4	2,366.30	1/4	2,669.96	1/4	2,973.62
1/2	248.79	1/2	552.44	1/2	855.96	1/2	1,159.59	1/2	1,462.25	1/2	1,765.31	1/2	2,068.97	1/2	2,372.63	1/2	2,676.29	1/2	2,979.94
3/4	255.12	3/4	558.76	3/4	862.28	3/4	1,165.91	3/4	1,468.48	3/4	1,771.64	3/4	2,075.30	3/4	2,378.96	3/4	2,682.61	3/4	2,986.27
10	261.44	10	565.09	10	868.60	10	1,172.24	10	1,474.71	10	1,777.97	10	2,081.62	10	2,385.28	10	2,688.94	10	2,992.60
1/4	267.77	1/4	571.42	1/4	874.92	1/4	1,178.56	1/4	1,480.93	1/4	1,784.29	1/4	2,087.95	1/4	2,391.61	1/4	2,695.27	1/4	2,998.92
1/2	274.09	1/2	577.74	1/2	881.24	1/2	1,184.89	1/2	1,487.16	1/2	1,790.62	1/2	2,094.28	1/2	2,397.93	1/2	2,701.59	1/2	3,005.25
3/4	280.42	3/4	584.07	3/4	887.56	3/4	1,191.22	3/4	1,493.39	3/4	1,796.95	3/4	2,100.60	3/4	2,404.26	3/4	2,707.92	3/4	3,011.58
11	286.75	11	590.39	11	893.89	11	1,197.54	11	1,499.61	11	1,803.27	11	2,106.93	11	2,410.59	11	2,714.24	11	3,017.90
1/4	293.07	1/4	596.72	1/4	900.21	1/4	1,203.87	1/4	1,505.94	1/4	1,809.60	1/4	2,113.26	1/4	2,416.91	1/4	2,720.57	1/4	3,024.23
1/2	299.40	1/2	603.05	1/2	906.54	1/2	1,210.20	1/2	1,512.27	1/2	1,815.92	1/2	2,119.58	1/2	2,423.24	1/2	2,726.90	1/2	3,030.55
3/4	305.72	3/4	609.37	3/4	912.86	3/4	1,216.52	3/4	1,518.59	3/4	1,822.25	3/4	2,125.91	3/4	2,429.57	3/4	2,733.22	3/4	3,036.88

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.

CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.

CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES.

GAUGE POINT: (HERMETIC - 2" VALVE) LOCATED 12'-09" OFF CENTERLINE AND 36'-03" FORWARD OF AFT BULKHEAD.

GAUGE POINT: (8" HATCH) LOCATED 12'-09" OFF CENTERLINE AND 37'-09" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092
Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "MM 310"

2 STBD INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-02 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	3,043.21	0	3,346.86	0	3,650.51	0	3,954.16	0	4,256.25	0		0		0		0		0	
1/4	3,049.53	1/4	3,353.19	1/4	3,656.84	1/4	3,960.48	1/4	4,262.49	1/4		1/4		1/4		1/4		1/4	
1/2	3,055.86	1/2	3,359.51	1/2	3,663.16	1/2	3,966.81	1/2	4,268.72	1/2		1/2		1/2		1/2		1/2	
3/4	3,062.19	3/4	3,365.84	3/4	3,669.49	3/4	3,973.14	3/4	4,274.95	3/4		3/4		3/4		3/4		3/4	
1	3,068.51	1	3,372.17	1	3,675.81	1	3,979.46	1	4,281.18	1		1		1		1		1	
1/4	3,074.84	1/4	3,378.49	1/4	3,682.14	1/4	3,985.79	1/4	4,286.81	1/4		1/4		1/4		1/4		1/4	
1/2	3,081.16	1/2	3,384.82	1/2	3,688.47	1/2	3,992.11	1/2	4,292.44	1/2		1/2		1/2		1/2		1/2	
3/4	3,087.49	3/4	3,391.14	3/4	3,694.79	3/4	3,998.44	3/4	4,298.07	3/4		3/4		3/4		3/4		3/4	
2	3,093.82	2	3,397.47	2	3,701.12	2	4,004.77	2	4,303.70	2		2		2		2		2	
1/4	3,100.14	1/4	3,403.80	1/4	3,707.44	1/4	4,011.09	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,106.47	1/2	3,410.12	1/2	3,713.77	1/2	4,017.42	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,112.79	3/4	3,416.45	3/4	3,720.10	3/4	4,023.74	3/4		3/4		3/4		3/4		3/4		3/4	
3	3,119.12	3	3,422.77	3	3,726.42	3	4,030.07	3		3		3		3		3		3	
1/4	3,125.45	1/4	3,429.10	1/4	3,732.75	1/4	4,036.40	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,131.77	1/2	3,435.43	1/2	3,739.07	1/2	4,042.72	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,138.10	3/4	3,441.75	3/4	3,745.40	3/4	4,049.05	3/4		3/4		3/4		3/4		3/4		3/4	
4	3,144.43	4	3,448.08	4	3,751.73	4	4,055.37	4		4		4		4		4		4	
1/4	3,150.75	1/4	3,454.40	1/4	3,758.05	1/4	4,061.70	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,157.08	1/2	3,460.73	1/2	3,764.38	1/2	4,068.03	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,163.40	3/4	3,467.06	3/4	3,770.70	3/4	4,074.35	3/4		3/4		3/4		3/4		3/4		3/4	
5	3,169.73	5	3,473.38	5	3,777.03	5	4,080.68	5		5		5		5		5		5	
1/4	3,176.06	1/4	3,479.71	1/4	3,783.36	1/4	4,087.00	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,182.38	1/2	3,486.03	1/2	3,789.68	1/2	4,093.33	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,188.71	3/4	3,492.36	3/4	3,796.01	3/4	4,099.66	3/4		3/4		3/4		3/4		3/4		3/4	
6	3,195.04	6	3,498.69	6	3,802.33	6	4,105.98	6		6		6		6		6		6	
1/4	3,201.36	1/4	3,505.01	1/4	3,808.66	1/4	4,112.25	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,207.69	1/2	3,511.34	1/2	3,814.99	1/2	4,118.51	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,214.01	3/4	3,517.66	3/4	3,821.31	3/4	4,124.77	3/4		3/4		3/4		3/4		3/4		3/4	
7	3,220.34	7	3,523.99	7	3,827.64	7	4,131.03	7		7		7		7		7		7	
1/4	3,226.67	1/4	3,530.32	1/4	3,833.96	1/4	4,137.30	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,232.99	1/2	3,536.64	1/2	3,840.29	1/2	4,143.56	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,239.32	3/4	3,542.97	3/4	3,846.62	3/4	4,149.82	3/4		3/4		3/4		3/4		3/4		3/4	
8	3,245.65	8	3,549.29	8	3,852.94	8	4,156.09	8		8		8		8		8		8	
1/4	3,251.97	1/4	3,555.62	1/4	3,859.27	1/4	4,162.35	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,258.30	1/2	3,561.95	1/2	3,865.59	1/2	4,168.61	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,264.62	3/4	3,568.27	3/4	3,871.92	3/4	4,174.87	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,270.95	9	3,574.60	9	3,878.25	9	4,181.14	9		9		9		9		9		9	
1/4	3,277.28	1/4	3,580.92	1/4	3,884.57	1/4	4,187.40	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,283.60	1/2	3,587.25	1/2	3,890.90	1/2	4,193.66	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,289.93	3/4	3,593.58	3/4	3,897.22	3/4	4,199.93	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,296.25	10	3,599.90	10	3,903.55	10	4,206.19	10		10		10		10		10		10	
1/4	3,302.58	1/4	3,606.23	1/4	3,909.88	1/4	4,212.45	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,308.91	1/2	3,612.55	1/2	3,916.20	1/2	4,218.71	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,315.23	3/4	3,618.88	3/4	3,922.53	3/4	4,224.97	3/4		3/4		3/4		3/4		3/4		3/4	
11	3,321.56	11	3,625.21	11	3,928.85	11	4,231.24	11		11		11		11		11		11	
1/4	3,327.88	1/4	3,631.53	1/4	3,935.18	1/4	4,237.49	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,334.21	1/2	3,637.86	1/2	3,941.51	1/2	4,243.74	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,340.54	3/4	3,644.18	3/4	3,947.83	3/4	4,250.00	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 04/16/2015 CL
CALCULATED: 04/16/2015 CL
PRINTED: 04/17/2015 JS

CANCELS AND SUPERCEDES
ALL PRIOR TO 04/2015

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



BARGE "MM 310"

3 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-02 1/2"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	22.82	0	312.10	0	615.79	0	909.28	0	1,209.63	0	1,511.74	0	1,815.45	0	2,119.15	0	2,422.85	0	2,726.55
1/4	27.08	1/4	318.42	1/4	622.12	1/4	915.32	1/4	1,215.96	1/4	1,518.07	1/4	1,821.77	1/4	2,125.47	1/4	2,429.17	1/4	2,732.87
1/2	31.34	1/2	324.75	1/2	628.44	1/2	921.37	1/2	1,222.28	1/2	1,524.40	1/2	1,828.10	1/2	2,131.80	1/2	2,435.50	1/2	2,739.20
3/4	35.60	3/4	331.08	3/4	634.77	3/4	927.42	3/4	1,228.61	3/4	1,530.73	3/4	1,834.43	3/4	2,138.13	3/4	2,441.83	3/4	2,745.53
1	39.85	1	337.40	1	641.10	1	933.47	1	1,234.94	1	1,537.05	1	1,840.75	1	2,144.45	1	2,448.16	1	2,751.86
1/4	45.37	1/4	343.73	1/4	647.42	1/4	939.52	1/4	1,241.27	1/4	1,543.38	1/4	1,847.08	1/4	2,150.78	1/4	2,454.48	1/4	2,758.18
1/2	50.89	1/2	350.06	1/2	653.75	1/2	945.57	1/2	1,247.59	1/2	1,549.71	1/2	1,853.41	1/2	2,157.11	1/2	2,460.81	1/2	2,764.51
3/4	56.41	3/4	356.39	3/4	660.08	3/4	951.61	3/4	1,253.92	3/4	1,556.03	3/4	1,859.73	3/4	2,163.44	3/4	2,467.14	3/4	2,770.84
2	61.93	2	362.71	2	666.40	2	957.66	2	1,260.25	2	1,562.36	2	1,866.06	2	2,169.76	2	2,473.46	2	2,777.16
1/4	68.06	1/4	369.04	1/4	672.73	1/4	963.71	1/4	1,266.57	1/4	1,568.69	1/4	1,872.39	1/4	2,176.09	1/4	2,479.79	1/4	2,783.49
1/2	74.18	1/2	375.37	1/2	679.06	1/2	969.76	1/2	1,272.90	1/2	1,575.02	1/2	1,878.72	1/2	2,182.42	1/2	2,486.12	1/2	2,789.82
3/4	80.31	3/4	381.69	3/4	685.38	3/4	975.81	3/4	1,279.23	3/4	1,581.34	3/4	1,885.04	3/4	2,188.74	3/4	2,492.44	3/4	2,796.15
3	86.43	3	388.02	3	691.71	3	981.86	3	1,285.56	3	1,587.67	3	1,891.37	3	2,195.07	3	2,498.77	3	2,802.47
1/4	92.58	1/4	394.35	1/4	697.75	1/4	988.18	1/4	1,291.88	1/4	1,594.00	1/4	1,897.70	1/4	2,201.40	1/4	2,505.10	1/4	2,808.80
1/2	98.72	1/2	400.67	1/2	703.80	1/2	994.51	1/2	1,298.21	1/2	1,600.32	1/2	1,904.02	1/2	2,207.73	1/2	2,511.43	1/2	2,815.13
3/4	104.87	3/4	407.00	3/4	709.84	3/4	1,000.84	3/4	1,304.54	3/4	1,606.65	3/4	1,910.35	3/4	2,214.05	3/4	2,517.75	3/4	2,821.45
4	111.01	4	413.33	4	715.88	4	1,007.16	4	1,310.86	4	1,612.98	4	1,916.68	4	2,220.38	4	2,524.08	4	2,827.78
1/4	117.17	1/4	419.65	1/4	721.93	1/4	1,013.49	1/4	1,317.19	1/4	1,619.31	1/4	1,923.01	1/4	2,226.71	1/4	2,530.41	1/4	2,834.11
1/2	123.32	1/2	425.98	1/2	727.97	1/2	1,019.82	1/2	1,323.52	1/2	1,625.63	1/2	1,929.33	1/2	2,233.03	1/2	2,536.73	1/2	2,840.44
3/4	129.47	3/4	432.31	3/4	734.01	3/4	1,026.14	3/4	1,329.85	3/4	1,631.96	3/4	1,935.66	3/4	2,239.36	3/4	2,543.06	3/4	2,846.76
5	135.63	5	438.64	5	740.05	5	1,032.47	5	1,336.17	5	1,638.29	5	1,941.99	5	2,245.69	5	2,549.39	5	2,853.09
1/4	141.78	1/4	444.96	1/4	746.10	1/4	1,038.80	1/4	1,342.50	1/4	1,644.61	1/4	1,948.31	1/4	2,252.02	1/4	2,555.72	1/4	2,859.42
1/2	147.94	1/2	451.29	1/2	752.14	1/2	1,045.13	1/2	1,348.83	1/2	1,650.94	1/2	1,954.64	1/2	2,258.34	1/2	2,562.04	1/2	2,865.74
3/4	154.10	3/4	457.62	3/4	758.18	3/4	1,051.45	3/4	1,355.15	3/4	1,657.27	3/4	1,960.97	3/4	2,264.67	3/4	2,568.37	3/4	2,872.07
6	160.25	6	463.94	6	764.23	6	1,057.78	6	1,361.48	6	1,663.59	6	1,967.30	6	2,271.00	6	2,574.70	6	2,878.40
1/4	166.58	1/4	470.27	1/4	770.27	1/4	1,064.11	1/4	1,367.81	1/4	1,669.92	1/4	1,973.62	1/4	2,277.32	1/4	2,581.02	1/4	2,884.73
1/2	172.91	1/2	476.60	1/2	776.31	1/2	1,070.43	1/2	1,374.14	1/2	1,676.25	1/2	1,979.95	1/2	2,283.65	1/2	2,587.35	1/2	2,891.05
3/4	179.23	3/4	482.92	3/4	782.35	3/4	1,076.76	3/4	1,380.46	3/4	1,682.58	3/4	1,986.28	3/4	2,289.98	3/4	2,593.68	3/4	2,897.38
7	185.56	7	489.25	7	788.40	7	1,083.09	7	1,386.79	7	1,688.90	7	1,992.60	7	2,296.30	7	2,600.01	7	2,903.71
1/4	191.89	1/4	495.58	1/4	794.44	1/4	1,089.42	1/4	1,393.02	1/4	1,695.23	1/4	1,998.93	1/4	2,302.63	1/4	2,606.33	1/4	2,910.03
1/2	198.21	1/2	501.90	1/2	800.48	1/2	1,095.74	1/2	1,399.25	1/2	1,701.56	1/2	2,005.26	1/2	2,308.96	1/2	2,612.66	1/2	2,916.36
3/4	204.54	3/4	508.23	3/4	806.53	3/4	1,102.07	3/4	1,405.47	3/4	1,707.88	3/4	2,011.59	3/4	2,315.29	3/4	2,618.99	3/4	2,922.69
8	210.87	8	514.56	8	812.57	8	1,108.40	8	1,411.70	8	1,714.21	8	2,017.91	8	2,321.61	8	2,625.31	8	2,929.01
1/4	217.19	1/4	520.88	1/4	818.61	1/4	1,114.72	1/4	1,417.93	1/4	1,720.54	1/4	2,024.24	1/4	2,327.94	1/4	2,631.64	1/4	2,935.34
1/2	223.52	1/2	527.21	1/2	824.65	1/2	1,121.05	1/2	1,424.16	1/2	1,726.87	1/2	2,030.57	1/2	2,334.27	1/2	2,637.97	1/2	2,941.67
3/4	229.85	3/4	533.54	3/4	830.70	3/4	1,127.38	3/4	1,430.38	3/4	1,733.19	3/4	2,036.89	3/4	2,340.59	3/4	2,644.30	3/4	2,948.00
9	236.17	9	539.87	9	836.74	9	1,133.71	9	1,436.61	9	1,739.52	9	2,043.22	9	2,346.92	9	2,650.62	9	2,954.32
1/4	242.50	1/4	546.19	1/4	842.78	1/4	1,140.03	1/4	1,442.84	1/4	1,745.85	1/4	2,049.55	1/4	2,353.25	1/4	2,656.95	1/4	2,960.65
1/2	248.83	1/2	552.52	1/2	848.83	1/2	1,146.36	1/2	1,449.07	1/2	1,752.17	1/2	2,055.87	1/2	2,359.58	1/2	2,663.28	1/2	2,966.98
3/4	255.16	3/4	558.85	3/4	854.87	3/4	1,152.69	3/4	1,455.30	3/4	1,758.50	3/4	2,062.20	3/4	2,365.90	3/4	2,669.60	3/4	2,973.30
10	261.48	10	565.17	10	860.91	10	1,159.01	10	1,461.52	10	1,764.83	10	2,068.53	10	2,372.23	10	2,675.93	10	2,979.63
1/4	267.81	1/4	571.50	1/4	866.96	1/4	1,165.34	1/4	1,467.75	1/4	1,771.16	1/4	2,074.86	1/4	2,378.56	1/4	2,682.26	1/4	2,985.96
1/2	274.14	1/2	577.83	1/2	873.00	1/2	1,171.67	1/2	1,473.98	1/2	1,777.48	1/2	2,081.18	1/2	2,384.88	1/2	2,688.58	1/2	2,992.29
3/4	280.46	3/4	584.15	3/4	879.04	3/4	1,178.00	3/4	1,480.21	3/4	1,783.81	3/4	2,087.51	3/4	2,391.21	3/4	2,694.91	3/4	2,998.61
11	286.79	11	590.48	11	885.08	11	1,184.32	11	1,486.44	11	1,790.14	11	2,093.84	11	2,397.54	11	2,701.24	11	3,004.94
1/4	293.12	1/4	596.81	1/4	891.13	1/4	1,190.65	1/4	1,492.76	1/4	1,796.46	1/4	2,100.16	1/4	2,403.87	1/4	2,707.57	1/4	3,011.27
1/2	299.44	1/2	603.13	1/2	897.18	1/2	1,196.98	1/2	1,499.09	1/2	1,802.79	1/2	2,106.49	1/2	2,410.19	1/2	2,713.89	1/2	3,017.59
3/4	305.77	3/4	609.46	3/4	903.23	3/4	1,203.30	3/4	1,505.42	3/4	1,809.12	3/4	2,112.82	3/4	2,416.52	3/4	2,720.22	3/4	3,023.92

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.

CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.

CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES.

GAUGE POINT: (HERMETIC - 2" VALVE) LOCATED 12'-09" OFF CENTERLINE AND 36'-03" FORWARD OF AFT BULKHEAD.

GAUGE POINT: (8" HATCH) LOCATED 12'-09" OFF CENTERLINE AND 37'-09" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092
Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "MM 310"

3 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-02 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	3,030.25	0	3,333.95	0	3,637.64	0	3,941.33	0	4,243.47	0		0		0		0		0	
1/4	3,036.58	1/4	3,340.27	1/4	3,643.97	1/4	3,947.66	1/4	4,249.71	1/4		1/4		1/4		1/4		1/4	
1/2	3,042.90	1/2	3,346.60	1/2	3,650.29	1/2	3,953.98	1/2	4,255.94	1/2		1/2		1/2		1/2		1/2	
3/4	3,049.23	3/4	3,352.93	3/4	3,656.62	3/4	3,960.31	3/4	4,262.18	3/4		3/4		3/4		3/4		3/4	
1	3,055.56	1	3,359.26	1	3,662.95	1	3,966.64	1	4,268.41	1		1		1		1		1	
1/4	3,061.88	1/4	3,365.58	1/4	3,669.27	1/4	3,972.96	1/4	4,274.04	1/4		1/4		1/4		1/4		1/4	
1/2	3,068.21	1/2	3,371.91	1/2	3,675.60	1/2	3,979.29	1/2	4,279.67	1/2		1/2		1/2		1/2		1/2	
3/4	3,074.54	3/4	3,378.24	3/4	3,681.93	3/4	3,985.62	3/4	4,285.30	3/4		3/4		3/4		3/4		3/4	
2	3,080.87	2	3,384.56	2	3,688.25	2	3,991.95	2	4,290.93	2		2		2		2		2	
1/4	3,087.19	1/4	3,390.89	1/4	3,694.58	1/4	3,998.27	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,093.52	1/2	3,397.22	1/2	3,700.91	1/2	4,004.60	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,099.85	3/4	3,403.54	3/4	3,707.23	3/4	4,010.93	3/4		3/4		3/4		3/4		3/4		3/4	
3	3,106.17	3	3,409.87	3	3,713.56	3	4,017.25	3		3		3		3		3		3	
1/4	3,112.50	1/4	3,416.20	1/4	3,719.89	1/4	4,023.58	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,118.83	1/2	3,422.52	1/2	3,726.22	1/2	4,029.91	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,125.15	3/4	3,428.85	3/4	3,732.54	3/4	4,036.23	3/4		3/4		3/4		3/4		3/4		3/4	
4	3,131.48	4	3,435.18	4	3,738.87	4	4,042.56	4		4		4		4		4		4	
1/4	3,137.81	1/4	3,441.50	1/4	3,745.20	1/4	4,048.89	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,144.14	1/2	3,447.83	1/2	3,751.52	1/2	4,055.21	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,150.46	3/4	3,454.16	3/4	3,757.85	3/4	4,061.54	3/4		3/4		3/4		3/4		3/4		3/4	
5	3,156.79	5	3,460.49	5	3,764.18	5	4,067.87	5		5		5		5		5		5	
1/4	3,163.12	1/4	3,466.81	1/4	3,770.50	1/4	4,074.19	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,169.44	1/2	3,473.14	1/2	3,776.83	1/2	4,080.52	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,175.77	3/4	3,479.47	3/4	3,783.16	3/4	4,086.85	3/4		3/4		3/4		3/4		3/4		3/4	
6	3,182.10	6	3,485.79	6	3,789.48	6	4,093.18	6		6		6		6		6		6	
1/4	3,188.43	1/4	3,492.12	1/4	3,795.81	1/4	4,099.44	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,194.75	1/2	3,498.45	1/2	3,802.14	1/2	4,105.70	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,201.08	3/4	3,504.77	3/4	3,808.47	3/4	4,111.97	3/4		3/4		3/4		3/4		3/4		3/4	
7	3,207.41	7	3,511.10	7	3,814.79	7	4,118.23	7		7		7		7		7		7	
1/4	3,213.73	1/4	3,517.43	1/4	3,821.12	1/4	4,124.49	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,220.06	1/2	3,523.75	1/2	3,827.45	1/2	4,130.76	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,226.39	3/4	3,530.08	3/4	3,833.77	3/4	4,137.02	3/4		3/4		3/4		3/4		3/4		3/4	
8	3,232.72	8	3,536.41	8	3,840.10	8	4,143.29	8		8		8		8		8		8	
1/4	3,239.04	1/4	3,542.74	1/4	3,846.43	1/4	4,149.55	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,245.37	1/2	3,549.06	1/2	3,852.75	1/2	4,155.81	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,251.70	3/4	3,555.39	3/4	3,859.08	3/4	4,162.08	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,258.02	9	3,561.72	9	3,865.41	9	4,168.34	9		9		9		9		9		9	
1/4	3,264.35	1/4	3,568.04	1/4	3,871.73	1/4	4,174.60	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,270.68	1/2	3,574.37	1/2	3,878.06	1/2	4,180.87	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,277.01	3/4	3,580.70	3/4	3,884.39	3/4	4,187.13	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,283.33	10	3,587.02	10	3,890.71	10	4,193.40	10		10		10		10		10		10	
1/4	3,289.66	1/4	3,593.35	1/4	3,897.04	1/4	4,199.66	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,295.99	1/2	3,599.68	1/2	3,903.37	1/2	4,205.92	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,302.31	3/4	3,606.00	3/4	3,909.70	3/4	4,212.19	3/4		3/4		3/4		3/4		3/4		3/4	
11	3,308.64	11	3,612.33	11	3,916.02	11	4,218.45	11		11		11		11		11		11	
1/4	3,314.97	1/4	3,618.66	1/4	3,922.35	1/4	4,224.71	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,321.29	1/2	3,624.98	1/2	3,928.68	1/2	4,230.96	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,327.62	3/4	3,631.31	3/4	3,935.00	3/4	4,237.22	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 04/16/2015 CL
CALCULATED: 04/16/2015 CL
PRINTED: 04/17/2015 JS

CANCELS AND SUPERCEDES
ALL PRIOR TO 04/2015

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



BARGE "MM 310"

3 STBD INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-02"

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	22.80	0	311.78	0	615.17	0	918.40	0	1,221.80	0	1,523.61	0	1,827.01	0	2,130.41	0	2,433.81	0	2,737.20
1/4	27.05	1/4	318.10	1/4	621.49	1/4	924.72	1/4	1,228.12	1/4	1,529.93	1/4	1,833.33	1/4	2,136.73	1/4	2,440.13	1/4	2,743.53
1/2	31.31	1/2	324.42	1/2	627.81	1/2	931.04	1/2	1,234.44	1/2	1,535.25	1/2	1,839.65	1/2	2,143.05	1/2	2,446.45	1/2	2,749.85
3/4	35.56	3/4	330.75	3/4	634.13	3/4	937.36	3/4	1,240.76	3/4	1,542.57	3/4	1,845.97	3/4	2,149.37	3/4	2,452.77	3/4	2,756.17
1	39.81	1	337.07	1	640.45	1	943.68	1	1,247.08	1	1,548.89	1	1,852.29	1	2,155.69	1	2,459.09	1	2,762.49
1/4	45.33	1/4	343.39	1/4	646.78	1/4	950.01	1/4	1,253.40	1/4	1,555.22	1/4	1,858.61	1/4	2,162.01	1/4	2,465.41	1/4	2,768.81
1/2	50.84	1/2	349.71	1/2	653.10	1/2	956.33	1/2	1,259.72	1/2	1,561.54	1/2	1,864.93	1/2	2,168.33	1/2	2,471.73	1/2	2,775.13
3/4	56.36	3/4	356.03	3/4	659.42	3/4	962.65	3/4	1,266.05	3/4	1,567.86	3/4	1,871.26	3/4	2,174.65	3/4	2,478.05	3/4	2,781.45
2	61.87	2	362.35	2	665.74	2	968.97	2	1,272.37	2	1,574.18	2	1,877.58	2	2,180.97	2	2,484.37	2	2,787.77
1/4	67.99	1/4	368.67	1/4	672.06	1/4	975.29	1/4	1,278.69	1/4	1,580.50	1/4	1,883.90	1/4	2,187.30	1/4	2,490.69	1/4	2,794.09
1/2	74.11	1/2	374.99	1/2	678.38	1/2	981.61	1/2	1,285.01	1/2	1,586.82	1/2	1,890.22	1/2	2,193.62	1/2	2,497.01	1/2	2,800.41
3/4	80.23	3/4	381.31	3/4	684.70	3/4	987.93	3/4	1,291.33	3/4	1,593.14	3/4	1,896.54	3/4	2,199.94	3/4	2,503.34	3/4	2,806.73
3	86.34	3	387.63	3	691.02	3	994.25	3	1,297.65	3	1,599.46	3	1,902.86	3	2,206.26	3	2,509.66	3	2,813.05
1/4	92.48	1/4	393.95	1/4	697.33	1/4	1,000.57	1/4	1,303.97	1/4	1,605.78	1/4	1,909.18	1/4	2,212.58	1/4	2,515.98	1/4	2,819.38
1/2	98.62	1/2	400.27	1/2	703.65	1/2	1,007.89	1/2	1,310.29	1/2	1,612.10	1/2	1,915.50	1/2	2,218.90	1/2	2,522.30	1/2	2,825.70
3/4	104.76	3/4	406.59	3/4	709.97	3/4	1,013.21	3/4	1,316.61	3/4	1,618.42	3/4	1,921.82	3/4	2,225.22	3/4	2,528.62	3/4	2,832.02
4	110.90	4	412.91	4	716.28	4	1,019.53	4	1,322.93	4	1,624.74	4	1,928.14	4	2,231.54	4	2,534.94	4	2,838.34
1/4	117.05	1/4	419.23	1/4	722.60	1/4	1,025.86	1/4	1,329.25	1/4	1,631.06	1/4	1,934.46	1/4	2,237.86	1/4	2,541.26	1/4	2,844.66
1/2	123.20	1/2	425.55	1/2	728.91	1/2	1,032.18	1/2	1,335.57	1/2	1,637.39	1/2	1,940.78	1/2	2,244.18	1/2	2,547.58	1/2	2,850.98
3/4	129.34	3/4	431.87	3/4	735.23	3/4	1,038.50	3/4	1,341.90	3/4	1,643.71	3/4	1,947.10	3/4	2,250.50	3/4	2,553.90	3/4	2,857.30
5	135.49	5	438.20	5	741.54	5	1,044.82	5	1,348.22	5	1,650.03	5	1,953.43	5	2,256.82	5	2,560.22	5	2,863.62
1/4	141.64	1/4	444.52	1/4	747.86	1/4	1,051.14	1/4	1,354.54	1/4	1,656.35	1/4	1,959.75	1/4	2,263.14	1/4	2,566.54	1/4	2,869.94
1/2	147.79	1/2	450.84	1/2	754.18	1/2	1,057.46	1/2	1,360.86	1/2	1,662.67	1/2	1,966.07	1/2	2,269.47	1/2	2,572.86	1/2	2,876.26
3/4	153.94	3/4	457.16	3/4	760.49	3/4	1,063.78	3/4	1,367.18	3/4	1,668.99	3/4	1,972.39	3/4	2,275.79	3/4	2,579.18	3/4	2,882.58
6	160.09	6	463.48	6	766.81	6	1,070.10	6	1,373.50	6	1,675.31	6	1,978.71	6	2,282.11	6	2,585.51	6	2,888.90
1/4	166.41	1/4	469.80	1/4	773.12	1/4	1,076.42	1/4	1,379.82	1/4	1,681.63	1/4	1,985.03	1/4	2,288.43	1/4	2,591.83	1/4	2,895.22
1/2	172.73	1/2	476.12	1/2	779.44	1/2	1,082.74	1/2	1,386.14	1/2	1,687.95	1/2	1,991.35	1/2	2,294.75	1/2	2,598.15	1/2	2,901.55
3/4	179.05	3/4	482.44	3/4	785.75	3/4	1,089.06	3/4	1,392.46	3/4	1,694.27	3/4	1,997.67	3/4	2,301.07	3/4	2,604.47	3/4	2,907.87
7	185.37	7	488.76	7	792.07	7	1,095.38	7	1,398.78	7	1,700.59	7	2,003.99	7	2,307.39	7	2,610.79	7	2,914.19
1/4	191.69	1/4	495.08	1/4	798.38	1/4	1,101.70	1/4	1,405.00	1/4	1,706.91	1/4	2,010.31	1/4	2,313.71	1/4	2,617.11	1/4	2,920.51
1/2	198.01	1/2	501.40	1/2	804.70	1/2	1,108.03	1/2	1,411.23	1/2	1,713.24	1/2	2,016.63	1/2	2,320.03	1/2	2,623.43	1/2	2,926.83
3/4	204.33	3/4	507.72	3/4	811.02	3/4	1,114.35	3/4	1,417.45	3/4	1,719.56	3/4	2,022.95	3/4	2,326.35	3/4	2,629.75	3/4	2,933.15
8	210.65	8	514.04	8	817.33	8	1,120.67	8	1,423.67	8	1,725.88	8	2,029.28	8	2,332.67	8	2,636.07	8	2,939.47
1/4	216.97	1/4	520.36	1/4	823.65	1/4	1,126.99	1/4	1,429.89	1/4	1,732.20	1/4	2,035.60	1/4	2,338.99	1/4	2,642.39	1/4	2,945.79
1/2	223.29	1/2	526.68	1/2	829.96	1/2	1,133.31	1/2	1,436.11	1/2	1,738.52	1/2	2,041.92	1/2	2,345.32	1/2	2,648.71	1/2	2,952.11
3/4	229.62	3/4	533.00	3/4	836.28	3/4	1,139.63	3/4	1,442.33	3/4	1,744.84	3/4	2,048.24	3/4	2,351.64	3/4	2,655.03	3/4	2,958.43
9	235.94	9	539.32	9	842.59	9	1,145.95	9	1,448.56	9	1,751.16	9	2,054.56	9	2,357.96	9	2,661.36	9	2,964.75
1/4	242.26	1/4	545.65	1/4	848.91	1/4	1,152.27	1/4	1,454.78	1/4	1,757.48	1/4	2,060.88	1/4	2,364.28	1/4	2,667.68	1/4	2,971.07
1/2	248.58	1/2	551.97	1/2	855.22	1/2	1,158.59	1/2	1,461.00	1/2	1,763.80	1/2	2,067.20	1/2	2,370.60	1/2	2,674.00	1/2	2,977.40
3/4	254.90	3/4	558.29	3/4	861.54	3/4	1,164.91	3/4	1,467.22	3/4	1,770.12	3/4	2,073.52	3/4	2,376.92	3/4	2,680.32	3/4	2,983.72
10	261.22	10	564.61	10	867.86	10	1,171.23	10	1,473.44	10	1,776.44	10	2,079.84	10	2,383.24	10	2,686.64	10	2,990.04
1/4	267.54	1/4	570.93	1/4	874.17	1/4	1,177.55	1/4	1,479.66	1/4	1,782.76	1/4	2,086.16	1/4	2,389.56	1/4	2,692.96	1/4	2,996.36
1/2	273.86	1/2	577.25	1/2	880.49	1/2	1,183.88	1/2	1,485.88	1/2	1,789.08	1/2	2,092.48	1/2	2,395.88	1/2	2,699.28	1/2	3,002.68
3/4	280.18	3/4	583.57	3/4	886.80	3/4	1,190.20	3/4	1,492.11	3/4	1,795.41	3/4	2,098.80	3/4	2,402.20	3/4	2,705.60	3/4	3,009.00
11	286.50	11	589.89	11	893.12	11	1,196.52	11	1,498.33	11	1,801.73	11	2,105.12	11	2,408.52	11	2,711.92	11	3,015.32
1/4	292.82	1/4	596.21	1/4	899.44	1/4	1,202.84	1/4	1,504.65	1/4	1,808.05	1/4	2,111.45	1/4	2,414.84	1/4	2,718.24	1/4	3,021.64
1/2	299.14	1/2	602.53	1/2	905.76	1/2	1,209.16	1/2	1,510.97	1/2	1,814.37	1/2	2,117.77	1/2	2,421.16	1/2	2,724.56	1/2	3,027.96
3/4	305.46	3/4	608.85	3/4	912.08	3/4	1,215.48	3/4	1,517.29	3/4	1,820.69	3/4	2,124.09	3/4	2,427.49	3/4	2,730.88	3/4	3,034.28

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
 CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES.
 GAUGE POINT: (HERMETIC - 2" VALVE) LOCATED 12'-09" OFF CENTERLINE AND 36'-03" FORWARD OF AFT BULKHEAD.
 GAUGE POINT: (8" HATCH) LOCATED 12'-09" OFF CENTERLINE AND 37'-09" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
 & ANALYSIS, INC.
 P.O. Box 2092
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BARGE "MM 310"

3 STBD INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-02"

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	3,040.60	0	3,344.00	0	3,647.38	0	3,950.77	0	4,252.61	0		0		0		0		0	
1/4	3,046.92	1/4	3,350.32	1/4	3,653.70	1/4	3,957.09	1/4	4,258.84	1/4		1/4		1/4		1/4		1/4	
1/2	3,053.24	1/2	3,356.64	1/2	3,660.02	1/2	3,963.41	1/2	4,265.07	1/2		1/2		1/2		1/2		1/2	
3/4	3,059.57	3/4	3,362.96	3/4	3,666.34	3/4	3,969.73	3/4	4,271.29	3/4		3/4		3/4		3/4		3/4	
1	3,065.89	1	3,369.28	1	3,672.67	1	3,976.05	1	4,277.52	1		1		1		1		1	
1/4	3,072.21	1/4	3,375.60	1/4	3,678.99	1/4	3,982.37	1/4	4,283.14	1/4		1/4		1/4		1/4		1/4	
1/2	3,078.53	1/2	3,381.92	1/2	3,685.31	1/2	3,988.69	1/2	4,288.77	1/2		1/2		1/2		1/2		1/2	
3/4	3,084.85	3/4	3,388.24	3/4	3,691.63	3/4	3,995.01	3/4	4,294.39	3/4		3/4		3/4		3/4		3/4	
2	3,091.17	2	3,394.56	2	3,697.95	2	4,001.33	2	4,300.02	2		2		2		2		2	
1/4	3,097.49	1/4	3,400.88	1/4	3,704.27	1/4	4,007.65	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,103.81	1/2	3,407.20	1/2	3,710.59	1/2	4,013.97	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,110.13	3/4	3,413.52	3/4	3,716.91	3/4	4,020.29	3/4		3/4		3/4		3/4		3/4		3/4	
3	3,116.45	3	3,419.85	3	3,723.23	3	4,026.61	3		3		3		3		3		3	
1/4	3,122.77	1/4	3,426.17	1/4	3,729.55	1/4	4,032.93	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,129.09	1/2	3,432.49	1/2	3,735.87	1/2	4,039.25	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,135.42	3/4	3,438.81	3/4	3,742.19	3/4	4,045.57	3/4		3/4		3/4		3/4		3/4		3/4	
4	3,141.74	4	3,445.13	4	3,748.51	4	4,051.90	4		4		4		4		4		4	
1/4	3,148.06	1/4	3,451.45	1/4	3,754.83	1/4	4,058.22	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,154.38	1/2	3,457.77	1/2	3,761.15	1/2	4,064.54	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,160.70	3/4	3,464.09	3/4	3,767.47	3/4	4,070.86	3/4		3/4		3/4		3/4		3/4		3/4	
5	3,167.02	5	3,470.41	5	3,773.79	5	4,077.18	5		5		5		5		5		5	
1/4	3,173.34	1/4	3,476.73	1/4	3,780.11	1/4	4,083.50	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,179.66	1/2	3,483.05	1/2	3,786.43	1/2	4,089.82	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,185.98	3/4	3,489.37	3/4	3,792.75	3/4	4,096.14	3/4		3/4		3/4		3/4		3/4		3/4	
6	3,192.30	6	3,495.69	6	3,799.08	6	4,102.46	6		6		6		6		6		6	
1/4	3,198.62	1/4	3,502.01	1/4	3,805.40	1/4	4,108.72	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,204.94	1/2	3,508.33	1/2	3,811.72	1/2	4,114.97	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,211.26	3/4	3,514.65	3/4	3,818.04	3/4	4,121.23	3/4		3/4		3/4		3/4		3/4		3/4	
7	3,217.59	7	3,520.97	7	3,824.36	7	4,127.49	7		7		7		7		7		7	
1/4	3,223.91	1/4	3,527.29	1/4	3,830.68	1/4	4,133.75	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,230.23	1/2	3,533.61	1/2	3,837.00	1/2	4,140.00	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,236.55	3/4	3,539.93	3/4	3,843.32	3/4	4,146.26	3/4		3/4		3/4		3/4		3/4		3/4	
8	3,242.87	8	3,546.26	8	3,849.64	8	4,152.52	8		8		8		8		8		8	
1/4	3,249.19	1/4	3,552.58	1/4	3,855.96	1/4	4,158.78	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,255.51	1/2	3,558.90	1/2	3,862.28	1/2	4,165.03	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,261.83	3/4	3,565.22	3/4	3,868.60	3/4	4,171.29	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,268.15	9	3,571.54	9	3,874.92	9	4,177.55	9		9		9		9		9		9	
1/4	3,274.47	1/4	3,577.86	1/4	3,881.24	1/4	4,183.81	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,280.79	1/2	3,584.18	1/2	3,887.56	1/2	4,190.06	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,287.11	3/4	3,590.50	3/4	3,893.88	3/4	4,196.32	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,293.44	10	3,596.82	10	3,900.20	10	4,202.58	10		10		10		10		10		10	
1/4	3,299.76	1/4	3,603.14	1/4	3,906.52	1/4	4,208.84	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,306.08	1/2	3,609.46	1/2	3,912.84	1/2	4,215.10	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,312.40	3/4	3,615.78	3/4	3,919.16	3/4	4,221.36	3/4		3/4		3/4		3/4		3/4		3/4	
11	3,318.72	11	3,622.10	11	3,925.49	11	4,227.61	11		11		11		11		11		11	
1/4	3,325.04	1/4	3,628.42	1/4	3,931.81	1/4	4,233.86	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,331.36	1/2	3,634.74	1/2	3,938.13	1/2	4,240.11	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,337.68	3/4	3,641.06	3/4	3,944.45	3/4	4,246.36	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 04/16/2015 CL
CALCULATED: 04/16/2015 CL
PRINTED: 04/17/2015 JS

CANCELS AND SUPERCEDES
ALL PRIOR TO 04/2015

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



BARGE "MM 310"

4 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 10'-08"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.	IN	10 FT.
0	17.09	0	227.63	0	445.83	0	656.76	0	872.38	0	1,087.89	0	1,305.78	0	1,523.38	0	1,740.78	0	1,958.18	0	
1/4	20.27	1/4	232.18	1/4	450.38	1/4	661.11	1/4	876.92	1/4	1,092.43	1/4	1,310.33	1/4	1,527.91	1/4	1,745.31	1/4	1,962.66	1/4	
1/2	23.45	1/2	236.72	1/2	454.92	1/2	665.45	1/2	881.45	1/2	1,096.96	1/2	1,314.87	1/2	1,532.44	1/2	1,749.84	1/2	1,967.15	1/2	
3/4	26.63	3/4	241.27	3/4	459.47	3/4	669.80	3/4	885.99	3/4	1,101.49	3/4	1,319.41	3/4	1,536.97	3/4	1,754.37	3/4	1,971.63	3/4	
1	29.81	1	245.81	1	464.01	1	674.15	1	890.53	1	1,106.03	1	1,323.95	1	1,541.50	1	1,758.90	1	1,976.11	1	
1/4	33.89	1/4	250.36	1/4	468.56	1/4	678.51	1/4	895.06	1/4	1,110.56	1/4	1,328.49	1/4	1,546.03	1/4	1,763.43	1/4	1,980.60	1/4	
1/2	37.97	1/2	254.91	1/2	473.10	1/2	682.88	1/2	899.60	1/2	1,115.10	1/2	1,333.03	1/2	1,550.56	1/2	1,767.95	1/2	1,985.08	1/2	
3/4	42.04	3/4	259.45	3/4	477.65	3/4	687.24	3/4	904.14	3/4	1,119.63	3/4	1,337.58	3/4	1,555.09	3/4	1,772.48	3/4	1,989.57	3/4	
2	46.12	2	264.00	2	482.20	2	691.61	2	908.67	2	1,124.17	2	1,342.12	2	1,559.62	2	1,777.01	2	1,994.05	2	
1/4	50.63	1/4	268.54	1/4	486.74	1/4	695.97	1/4	913.21	1/4	1,128.70	1/4	1,346.66	1/4	1,564.15	1/4	1,781.54	1/4	1,998.54	1/4	
1/2	55.15	1/2	273.09	1/2	491.29	1/2	700.33	1/2	917.75	1/2	1,133.24	1/2	1,351.20	1/2	1,568.67	1/2	1,786.07	1/2	2,003.02	1/2	
3/4	59.66	3/4	277.63	3/4	495.83	3/4	704.70	3/4	922.28	3/4	1,137.77	3/4	1,355.74	3/4	1,573.20	3/4	1,790.60	3/4	2,007.50	3/4	
3	64.17	3	282.18	3	500.38	3	709.06	3	926.82	3	1,142.31	3	1,360.29	3	1,577.73	3	1,795.13	3	2,011.99	3	
1/4	68.70	1/4	286.73	1/4	504.72	1/4	713.60	1/4	931.35	1/4	1,146.84	1/4	1,364.83	1/4	1,582.26	1/4	1,799.66	1/4	2,016.47	1/4	
1/2	73.23	1/2	291.27	1/2	509.07	1/2	718.13	1/2	935.89	1/2	1,151.38	1/2	1,369.37	1/2	1,586.79	1/2	1,804.19	1/2	2,020.96	1/2	
3/4	77.75	3/4	295.82	3/4	513.41	3/4	722.67	3/4	940.43	3/4	1,155.91	3/4	1,373.91	3/4	1,591.32	3/4	1,808.72	3/4	2,025.44	3/4	
4	82.28	4	300.36	4	517.76	4	727.21	4	944.96	4	1,160.45	4	1,378.45	4	1,595.85	4	1,813.25	4	2,029.93	4	
1/4	86.81	1/4	304.91	1/4	522.11	1/4	731.74	1/4	949.46	1/4	1,164.99	1/4	1,382.98	1/4	1,600.38	1/4	1,817.77	1/4	2,034.41	1/4	
1/2	91.35	1/2	309.46	1/2	526.45	1/2	736.28	1/2	953.96	1/2	1,169.53	1/2	1,387.51	1/2	1,604.91	1/2	1,822.30	1/2	2,038.89	1/2	
3/4	95.88	3/4	314.00	3/4	530.80	3/4	740.82	3/4	958.46	3/4	1,174.07	3/4	1,392.04	3/4	1,609.44	3/4	1,826.83	3/4	2,043.38	3/4	
5	100.41	5	318.55	5	535.14	5	745.35	5	962.96	5	1,178.61	5	1,396.57	5	1,613.97	5	1,831.36	5	2,047.86	5	
1/4	104.95	1/4	323.09	1/4	539.48	1/4	749.89	1/4	967.46	1/4	1,183.15	1/4	1,401.10	1/4	1,618.49	1/4	1,835.89	1/4	2,052.34	1/4	
1/2	109.48	1/2	327.64	1/2	543.83	1/2	754.43	1/2	971.96	1/2	1,187.70	1/2	1,405.63	1/2	1,623.02	1/2	1,840.42	1/2	2,056.82	1/2	
3/4	114.02	3/4	332.18	3/4	548.17	3/4	758.96	3/4	976.46	3/4	1,192.24	3/4	1,410.16	3/4	1,627.55	3/4	1,844.95	3/4	2,061.29	3/4	
6	118.55	6	336.73	6	552.51	6	763.50	6	980.96	6	1,196.78	6	1,414.69	6	1,632.08	6	1,849.48	6	2,065.77	6	
1/4	123.09	1/4	341.28	1/4	556.85	1/4	768.04	1/4	985.45	1/4	1,201.32	1/4	1,419.21	1/4	1,636.61	1/4	1,854.01	1/4	2,070.23	1/4	
1/2	127.64	1/2	345.82	1/2	561.20	1/2	772.57	1/2	989.95	1/2	1,205.86	1/2	1,423.74	1/2	1,641.14	1/2	1,858.54	1/2	2,074.70	1/2	
3/4	132.18	3/4	350.37	3/4	565.54	3/4	777.11	3/4	994.45	3/4	1,210.41	3/4	1,428.27	3/4	1,645.67	3/4	1,863.07	3/4	2,079.16	3/4	
7	136.73	7	354.91	7	569.88	7	781.65	7	998.95	7	1,214.95	7	1,432.80	7	1,650.20	7	1,867.59	7	2,083.62	7	
1/4	141.27	1/4	359.46	1/4	574.23	1/4	786.18	1/4	1,003.39	1/4	1,219.49	1/4	1,437.33	1/4	1,654.73	1/4	1,872.12	1/4	2,087.66	1/4	
1/2	145.82	1/2	364.00	1/2	578.57	1/2	790.72	1/2	1,007.82	1/2	1,224.03	1/2	1,441.86	1/2	1,659.26	1/2	1,876.65	1/2	2,091.71	1/2	
3/4	150.36	3/4	368.55	3/4	582.91	3/4	795.26	3/4	1,012.25	3/4	1,228.57	3/4	1,446.39	3/4	1,663.79	3/4	1,881.18	3/4	2,095.75	3/4	
8	154.90	8	373.10	8	587.25	8	799.79	8	1,016.69	8	1,233.11	8	1,450.92	8	1,668.31	8	1,885.71	8	2,099.79	8	
1/4	159.45	1/4	377.64	1/4	591.60	1/4	804.33	1/4	1,021.12	1/4	1,237.66	1/4	1,455.45	1/4	1,672.84	1/4	1,890.24	1/4	2,102.92	1/4	
1/2	163.99	1/2	382.19	1/2	595.94	1/2	808.87	1/2	1,025.56	1/2	1,242.20	1/2	1,459.98	1/2	1,677.37	1/2	1,894.77	1/2		1/2	
3/4	168.54	3/4	386.73	3/4	600.28	3/4	813.40	3/4	1,029.99	3/4	1,246.74	3/4	1,464.51	3/4	1,681.90	3/4	1,899.30	3/4		3/4	
9	173.08	9	391.28	9	604.62	9	817.94	9	1,034.42	9	1,251.28	9	1,469.03	9	1,686.43	9	1,903.83	9		9	
1/4	177.63	1/4	395.83	1/4	608.97	1/4	822.48	1/4	1,038.86	1/4	1,255.82	1/4	1,473.56	1/4	1,690.96	1/4	1,908.36	1/4		1/4	
1/2	182.17	1/2	400.37	1/2	613.31	1/2	827.01	1/2	1,043.29	1/2	1,260.37	1/2	1,478.09	1/2	1,695.49	1/2	1,912.89	1/2		1/2	
3/4	186.72	3/4	404.92	3/4	617.65	3/4	831.55	3/4	1,047.73	3/4	1,264.91	3/4	1,482.62	3/4	1,700.02	3/4	1,917.42	3/4		3/4	
10	191.26	10	409.46	10	622.00	10	836.09	10	1,052.16	10	1,269.45	10	1,487.15	10	1,704.55	10	1,921.94	10		10	
1/4	195.81	1/4	414.01	1/4	626.34	1/4	840.62	1/4	1,056.59	1/4	1,273.99	1/4	1,491.68	1/4	1,709.08	1/4	1,926.47	1/4		1/4	
1/2	200.36	1/2	418.55	1/2	630.68	1/2	845.16	1/2	1,061.03	1/2	1,278.53	1/2	1,496.21	1/2	1,713.61	1/2	1,931.00	1/2		1/2	
3/4	204.90	3/4	423.10	3/4	635.02	3/4	849.70	3/4	1,065.46	3/4	1,283.07	3/4	1,500.74	3/4	1,718.13	3/4	1,935.53	3/4		3/4	
11	209.45	11	427.65	11	639.37	11	854.23	11	1,069.90	11	1,287.62	11	1,505.27	11	1,722.66	11	1,940.06	11		11	
1/4	213.99	1/4	432.19	1/4	643.71	1/4	858.77	1/4	1,074.39	1/4	1,292.16	1/4	1,509.80	1/4	1,727.19	1/4	1,944.59	1/4		1/4	
1/2	218.54	1/2	436.74	1/2	648.06	1/2	863.31	1/2	1,078.89	1/2	1,296.70	1/2	1,514.33	1/2	1,731.72	1/2	1,949.12	1/2		1/2	
3/4	223.09	3/4	441.28	3/4	652.41	3/4	867.84	3/4	1,083.39	3/4	1,301.24	3/4	1,518.85	3/4	1,736.25	3/4	1,953.65	3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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

GAUGE POINT: (HERMETIC - 2" VALVE) LOCATED 12'-09" OFF CENTERLINE AND 48'-09" FORWARD OF AFT BULKHEAD.
GAUGE POINT: (8" HATCH) LOCATED 12'-09" OFF CENTERLINE AND 49'-09" FORWARD OF AFT BULKHEAD.

STRAPPED: 04/16/2015 CL
CALCULATED: 04/16/2015 CL
PRINTED: 04/17/2015 JS

CANCELS AND SUPERCEDES
ALL PRIOR TO 04/2015

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



BARGE "MM 310"

4 STBD INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 10'-07 3/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.	IN	10 FT.
0	17.12	0	228.58	0	447.73	0	666.14	0	885.23	0	1,103.35	0	1,322.50	0	1,541.23	0	1,759.76	0	1,978.29	0	
1/4	20.31	1/4	233.14	1/4	452.30	1/4	670.69	1/4	889.80	1/4	1,107.92	1/4	1,327.06	1/4	1,545.79	1/4	1,764.32	1/4	1,982.80	1/4	
1/2	23.50	1/2	237.71	1/2	456.86	1/2	675.24	1/2	894.37	1/2	1,112.49	1/2	1,331.63	1/2	1,550.34	1/2	1,768.87	1/2	1,987.31	1/2	
3/4	26.68	3/4	242.27	3/4	461.43	3/4	679.79	3/4	898.93	3/4	1,117.05	3/4	1,336.20	3/4	1,554.89	3/4	1,773.42	3/4	1,991.82	3/4	
1	29.87	1	246.84	1	465.99	1	684.34	1	903.50	1	1,121.62	1	1,340.76	1	1,559.44	1	1,777.97	1	1,996.32	1	
1/4	33.96	1/4	251.41	1/4	470.56	1/4	688.90	1/4	908.06	1/4	1,126.18	1/4	1,345.33	1/4	1,564.00	1/4	1,782.53	1/4	2,000.83	1/4	
1/2	38.06	1/2	255.97	1/2	475.13	1/2	693.47	1/2	912.63	1/2	1,130.75	1/2	1,349.89	1/2	1,568.55	1/2	1,787.08	1/2	2,005.34	1/2	
3/4	42.15	3/4	260.54	3/4	479.69	3/4	698.04	3/4	917.19	3/4	1,135.31	3/4	1,354.46	3/4	1,573.10	3/4	1,791.63	3/4	2,009.85	3/4	
2	46.25	2	265.10	2	484.26	2	702.60	2	921.76	2	1,139.88	2	1,359.02	2	1,577.65	2	1,796.18	2	2,014.35	2	
1/4	50.78	1/4	269.67	1/4	488.82	1/4	707.17	1/4	926.33	1/4	1,144.44	1/4	1,363.59	1/4	1,582.21	1/4	1,800.74	1/4	2,018.86	1/4	
1/2	55.31	1/2	274.23	1/2	493.39	1/2	711.73	1/2	930.89	1/2	1,149.01	1/2	1,368.15	1/2	1,586.76	1/2	1,805.29	1/2	2,023.37	1/2	
3/4	59.85	3/4	278.80	3/4	497.95	3/4	716.30	3/4	935.46	3/4	1,153.58	3/4	1,372.72	3/4	1,591.31	3/4	1,809.84	3/4	2,027.88	3/4	
3	64.38	3	283.37	3	502.52	3	720.87	3	940.02	3	1,158.14	3	1,377.28	3	1,595.87	3	1,814.39	3	2,032.39	3	
1/4	68.93	1/4	287.93	1/4	507.06	1/4	725.43	1/4	944.59	1/4	1,162.71	1/4	1,381.85	1/4	1,600.42	1/4	1,818.95	1/4	2,036.89	1/4	
1/2	73.47	1/2	292.50	1/2	511.61	1/2	730.00	1/2	949.16	1/2	1,167.27	1/2	1,386.42	1/2	1,604.97	1/2	1,823.50	1/2	2,041.40	1/2	
3/4	78.02	3/4	297.06	3/4	516.15	3/4	734.56	3/4	953.72	3/4	1,171.84	3/4	1,390.98	3/4	1,609.52	3/4	1,828.05	3/4	2,045.91	3/4	
4	82.57	4	301.63	4	520.70	4	739.13	4	958.29	4	1,176.40	4	1,395.55	4	1,614.08	4	1,832.61	4	2,050.42	4	
1/4	87.12	1/4	306.19	1/4	525.24	1/4	743.69	1/4	962.85	1/4	1,180.97	1/4	1,400.10	1/4	1,618.63	1/4	1,837.16	1/4	2,054.92	1/4	
1/2	91.67	1/2	310.76	1/2	529.79	1/2	748.26	1/2	967.42	1/2	1,185.53	1/2	1,404.65	1/2	1,623.18	1/2	1,841.71	1/2	2,059.43	1/2	
3/4	96.23	3/4	315.33	3/4	534.33	3/4	752.83	3/4	971.98	3/4	1,190.10	3/4	1,409.20	3/4	1,627.73	3/4	1,846.26	3/4	2,063.93	3/4	
5	100.78	5	319.89	5	538.87	5	757.39	5	976.55	5	1,194.66	5	1,413.76	5	1,632.29	5	1,850.82	5	2,068.44	5	
1/4	105.34	1/4	324.46	1/4	543.42	1/4	761.96	1/4	981.12	1/4	1,199.23	1/4	1,418.31	1/4	1,636.84	1/4	1,855.37	1/4	2,072.94	1/4	
1/2	109.89	1/2	329.02	1/2	547.96	1/2	766.52	1/2	985.68	1/2	1,203.80	1/2	1,422.86	1/2	1,641.39	1/2	1,859.92	1/2	2,077.44	1/2	
3/4	114.45	3/4	333.59	3/4	552.51	3/4	771.09	3/4	990.25	3/4	1,208.36	3/4	1,427.42	3/4	1,645.95	3/4	1,864.47	3/4	2,081.94	3/4	
6	119.00	6	338.15	6	557.05	6	775.65	6	994.81	6	1,212.93	6	1,431.97	6	1,650.50	6	1,869.03	6	2,086.44	6	
1/4	123.57	1/4	342.72	1/4	561.60	1/4	780.22	1/4	999.38	1/4	1,217.49	1/4	1,436.52	1/4	1,655.05	1/4	1,873.58	1/4	2,090.93	1/4	
1/2	128.13	1/2	347.29	1/2	566.14	1/2	784.79	1/2	1,003.95	1/2	1,222.06	1/2	1,441.07	1/2	1,659.60	1/2	1,878.13	1/2	2,095.42	1/2	
3/4	132.70	3/4	351.85	3/4	570.69	3/4	789.35	3/4	1,008.51	3/4	1,226.62	3/4	1,445.63	3/4	1,664.16	3/4	1,882.69	3/4	2,099.90	3/4	
7	137.26	7	356.42	7	575.23	7	793.92	7	1,013.08	7	1,231.19	7	1,450.18	7	1,668.71	7	1,887.24	7	2,104.39	7	
1/4	141.83	1/4	360.98	1/4	579.77	1/4	798.48	1/4	1,017.58	1/4	1,235.75	1/4	1,454.73	1/4	1,673.26	1/4	1,891.79	1/4	2,108.44	1/4	
1/2	146.40	1/2	365.55	1/2	584.32	1/2	803.05	1/2	1,022.08	1/2	1,240.32	1/2	1,459.28	1/2	1,677.81	1/2	1,896.34	1/2	2,112.49	1/2	
3/4	150.96	3/4	370.11	3/4	588.86	3/4	807.62	3/4	1,026.58	3/4	1,244.89	3/4	1,463.84	3/4	1,682.37	3/4	1,900.90	3/4	2,116.54	3/4	
8	155.53	8	374.68	8	593.41	8	812.18	8	1,031.08	8	1,249.45	8	1,468.39	8	1,686.92	8	1,905.45	8	2,120.59	8	
1/4	160.09	1/4	379.25	1/4	597.95	1/4	816.75	1/4	1,035.58	1/4	1,254.02	1/4	1,472.94	1/4	1,691.47	1/4	1,910.00	1/4	2,123.73	1/4	
1/2	164.66	1/2	383.81	1/2	602.50	1/2	821.31	1/2	1,040.08	1/2	1,258.58	1/2	1,477.50	1/2	1,696.02	1/2	1,914.55	1/2		1/2	
3/4	169.22	3/4	388.38	3/4	607.04	3/4	825.88	3/4	1,044.58	3/4	1,263.15	3/4	1,482.05	3/4	1,700.58	3/4	1,919.11	3/4		3/4	
9	173.79	9	392.94	9	611.59	9	830.44	9	1,049.08	9	1,267.71	9	1,486.60	9	1,705.13	9	1,923.66	9		9	
1/4	178.36	1/4	397.51	1/4	616.13	1/4	835.01	1/4	1,053.59	1/4	1,272.28	1/4	1,491.15	1/4	1,709.68	1/4	1,928.21	1/4		1/4	
1/2	182.92	1/2	402.07	1/2	620.67	1/2	839.58	1/2	1,058.09	1/2	1,276.84	1/2	1,495.71	1/2	1,714.24	1/2	1,932.77	1/2		1/2	
3/4	187.49	3/4	406.64	3/4	625.22	3/4	844.14	3/4	1,062.59	3/4	1,281.41	3/4	1,500.26	3/4	1,718.79	3/4	1,937.32	3/4		3/4	
10	192.05	10	411.21	10	629.76	10	848.71	10	1,067.09	10	1,285.97	10	1,504.81	10	1,723.34	10	1,941.87	10		10	
1/4	196.62	1/4	415.77	1/4	634.31	1/4	853.27	1/4	1,071.59	1/4	1,290.54	1/4	1,509.36	1/4	1,727.89	1/4	1,946.42	1/4		1/4	
1/2	201.18	1/2	420.34	1/2	638.85	1/2	857.84	1/2	1,076.09	1/2	1,295.11	1/2	1,513.92	1/2	1,732.45	1/2	1,950.98	1/2		1/2	
3/4	205.75	3/4	424.90	3/4	643.40	3/4	862.41	3/4	1,080.59	3/4	1,299.67	3/4	1,518.47	3/4	1,737.00	3/4	1,955.53	3/4		3/4	
11	210.32	11	429.47	11	647.94	11	866.97	11	1,085.09	11	1,304.24	11	1,523.02	11	1,741.55	11	1,960.08	11		11	
1/4	214.88	1/4	434.03	1/4	652.49	1/4	871.54	1/4	1,089.66	1/4	1,308.80	1/4	1,527.57	1/4	1,746.10	1/4	1,964.63	1/4		1/4	
1/2	219.45	1/2	438.60	1/2	657.04	1/2	876.10	1/2	1,094.22	1/2	1,313.37	1/2	1,532.13	1/2	1,750.66	1/2	1,969.19	1/2		1/2	
3/4	224.01	3/4	443.17	3/4	661.59	3/4	880.67	3/4	1,098.79	3/4	1,317.93	3/4	1,536.68	3/4	1,755.21	3/4	1,973.74	3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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

GAUGE POINT: (HERMETIC - 2" VALVE) LOCATED 12'-09" OFF CENTERLINE AND 48'-09" FORWARD OF AFT BULKHEAD.
GAUGE POINT: (8" HATCH) LOCATED 12'-09" OFF CENTERLINE AND 49'-09" FORWARD OF AFT BULKHEAD.

STRAPPED: 04/16/2015 CL
CALCULATED: 04/16/2015 CL
PRINTED: 04/17/2015 JS

CANCELS AND SUPERCEDES
ALL PRIOR TO 04/2015

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



BARGE "MM 310"

PORT FUEL TANK INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	0	0	640	0	1,513	0	2,432	0	3,268	0		0		0		0		0	
1/4	8	1/4	657	1/4	1,532	1/4	2,451	1/4	3,283	1/4		1/4		1/4		1/4		1/4	
1/2	16	1/2	673	1/2	1,551	1/2	2,470	1/2	3,299	1/2		1/2		1/2		1/2		1/2	
3/4	23	3/4	690	3/4	1,570	3/4	2,488	3/4	3,314	3/4		3/4		3/4		3/4		3/4	
1	31	1	707	1	1,589	1	2,507	1	3,329	1		1		1		1		1	
1/4	41	1/4	724	1/4	1,609	1/4	2,526	1/4	3,344	1/4		1/4		1/4		1/4		1/4	
1/2	51	1/2	742	1/2	1,628	1/2	2,544	1/2	3,358	1/2		1/2		1/2		1/2		1/2	
3/4	61	3/4	759	3/4	1,647	3/4	2,563	3/4	3,373	3/4		3/4		3/4		3/4		3/4	
2	70	2	776	2	1,666	2	2,581	2	3,388	2		2		2		2		2	
1/4	81	1/4	794	1/4	1,685	1/4	2,600	1/4	3,402	1/4		1/4		1/4		1/4		1/4	
1/2	92	1/2	811	1/2	1,705	1/2	2,618	1/2	3,416	1/2		1/2		1/2		1/2		1/2	
3/4	104	3/4	829	3/4	1,724	3/4	2,636	3/4	3,430	3/4		3/4		3/4		3/4		3/4	
3	115	3	846	3	1,743	3	2,655	3	3,444	3		3		3		3		3	
1/4	127	1/4	864	1/4	1,763	1/4	2,673	1/4	3,457	1/4		1/4		1/4		1/4		1/4	
1/2	139	1/2	882	1/2	1,782	1/2	2,691	1/2	3,471	1/2		1/2		1/2		1/2		1/2	
3/4	151	3/4	899	3/4	1,801	3/4	2,709	3/4	3,484	3/4		3/4		3/4		3/4		3/4	
4	163	4	917	4	1,820	4	2,727	4	3,497	4		4		4		4		4	
1/4	176	1/4	935	1/4	1,840	1/4	2,745	1/4	3,510	1/4		1/4		1/4		1/4		1/4	
1/2	189	1/2	953	1/2	1,859	1/2	2,763	1/2	3,523	1/2		1/2		1/2		1/2		1/2	
3/4	201	3/4	971	3/4	1,878	3/4	2,781	3/4	3,535	3/4		3/4		3/4		3/4		3/4	
5	214	5	989	5	1,897	5	2,799	5	3,548	5		5		5		5		5	
1/4	228	1/4	1,007	1/4	1,917	1/4	2,817	1/4	3,560	1/4		1/4		1/4		1/4		1/4	
1/2	241	1/2	1,026	1/2	1,936	1/2	2,835	1/2	3,572	1/2		1/2		1/2		1/2		1/2	
3/4	255	3/4	1,044	3/4	1,955	3/4	2,852	3/4	3,584	3/4		3/4		3/4		3/4		3/4	
6	269	6	1,062	6	1,975	6	2,870	6	3,595	6		6		6		6		6	
1/4	283	1/4	1,081	1/4	1,994	1/4	2,887	1/4	3,606	1/4		1/4		1/4		1/4		1/4	
1/2	297	1/2	1,099	1/2	2,013	1/2	2,905	1/2	3,617	1/2		1/2		1/2		1/2		1/2	
3/4	311	3/4	1,117	3/4	2,032	3/4	2,922	3/4	3,628	3/4		3/4		3/4		3/4		3/4	
7	325	7	1,136	7	2,052	7	2,940	7	3,639	7		7		7		7		7	
1/4	340	1/4	1,154	1/4	2,071	1/4	2,957	1/4	3,648	1/4		1/4		1/4		1/4		1/4	
1/2	355	1/2	1,173	1/2	2,090	1/2	2,974	1/2	3,657	1/2		1/2		1/2		1/2		1/2	
3/4	370	3/4	1,192	3/4	2,109	3/4	2,991	3/4	3,667	3/4		3/4		3/4		3/4		3/4	
8	385	8	1,210	8	2,128	8	3,008	8	3,676	8		8		8		8		8	
1/4	400	1/4	1,229	1/4	2,148	1/4	3,025	1/4	3,684	1/4		1/4		1/4		1/4		1/4	
1/2	415	1/2	1,248	1/2	2,167	1/2	3,042	1/2	3,691	1/2		1/2		1/2		1/2		1/2	
3/4	431	3/4	1,266	3/4	2,186	3/4	3,059	3/4	3,699	3/4		3/4		3/4		3/4		3/4	
9	446	9	1,285	9	2,205	9	3,076	9	3,708	9		9		9		9		9	
1/4	462	1/4	1,304	1/4	2,224	1/4	3,092	1/4	3,716	1/4		1/4		1/4		1/4		1/4	
1/2	477	1/2	1,323	1/2	2,243	1/2	3,108	1/2	3,724	1/2		1/2		1/2		1/2		1/2	
3/4	493	3/4	1,342	3/4	2,262	3/4	3,125	3/4	3,732	3/4		3/4		3/4		3/4		3/4	
10	509	10	1,361	10	2,281	10	3,141	10	3,740	10		10		10		10		10	
1/4	525	1/4	1,380	1/4	2,300	1/4	3,157	1/4	3,748	1/4		1/4		1/4		1/4		1/4	
1/2	541	1/2	1,398	1/2	2,319	1/2	3,174	1/2	3,756	1/2		1/2		1/2		1/2		1/2	
3/4	557	3/4	1,417	3/4	2,338	3/4	3,190	3/4	3,764	3/4		3/4		3/4		3/4		3/4	
11	573	11	1,436	11	2,357	11	3,206	11	3,772	11		11		11		11		11	
1/4	590	1/4	1,456	1/4	2,376	1/4	3,221	1/4	3,780	1/4		1/4		1/4		1/4		1/4	
1/2	607	1/2	1,475	1/2	2,395	1/2	3,237	1/2	3,788	1/2		1/2		1/2		1/2		1/2	
3/4	623	3/4	1,494	3/4	2,413	3/4	3,253	3/4	3,796	3/4		3/4		3/4		3/4		3/4	

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

STRAPPED: 04/16/2015 CL
CALCULATED: 04/16/2015 CL
PRINTED: 04/16/2015 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 04/2015

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT
& ANALYSIS, INC.

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



BARGE "MM 310"

STBD FUEL TANK INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	0	0	640	0	1,513	0	2,432	0	3,268	0		0		0		0		0	
1/4	8	1/4	657	1/4	1,532	1/4	2,451	1/4	3,283	1/4		1/4		1/4		1/4		1/4	
1/2	16	1/2	673	1/2	1,551	1/2	2,470	1/2	3,299	1/2		1/2		1/2		1/2		1/2	
3/4	23	3/4	690	3/4	1,570	3/4	2,488	3/4	3,314	3/4		3/4		3/4		3/4		3/4	
1	31	1	707	1	1,589	1	2,507	1	3,329	1		1		1		1		1	
1/4	41	1/4	724	1/4	1,609	1/4	2,526	1/4	3,344	1/4		1/4		1/4		1/4		1/4	
1/2	51	1/2	742	1/2	1,628	1/2	2,544	1/2	3,358	1/2		1/2		1/2		1/2		1/2	
3/4	61	3/4	759	3/4	1,647	3/4	2,563	3/4	3,373	3/4		3/4		3/4		3/4		3/4	
2	70	2	776	2	1,666	2	2,581	2	3,388	2		2		2		2		2	
1/4	81	1/4	794	1/4	1,685	1/4	2,600	1/4	3,402	1/4		1/4		1/4		1/4		1/4	
1/2	92	1/2	811	1/2	1,705	1/2	2,618	1/2	3,416	1/2		1/2		1/2		1/2		1/2	
3/4	104	3/4	829	3/4	1,724	3/4	2,636	3/4	3,430	3/4		3/4		3/4		3/4		3/4	
3	115	3	846	3	1,743	3	2,655	3	3,444	3		3		3		3		3	
1/4	127	1/4	864	1/4	1,763	1/4	2,673	1/4	3,457	1/4		1/4		1/4		1/4		1/4	
1/2	139	1/2	882	1/2	1,782	1/2	2,691	1/2	3,471	1/2		1/2		1/2		1/2		1/2	
3/4	151	3/4	899	3/4	1,801	3/4	2,709	3/4	3,484	3/4		3/4		3/4		3/4		3/4	
4	163	4	917	4	1,820	4	2,727	4	3,497	4		4		4		4		4	
1/4	176	1/4	935	1/4	1,840	1/4	2,745	1/4	3,510	1/4		1/4		1/4		1/4		1/4	
1/2	189	1/2	953	1/2	1,859	1/2	2,763	1/2	3,523	1/2		1/2		1/2		1/2		1/2	
3/4	201	3/4	971	3/4	1,878	3/4	2,781	3/4	3,535	3/4		3/4		3/4		3/4		3/4	
5	214	5	989	5	1,897	5	2,799	5	3,548	5		5		5		5		5	
1/4	228	1/4	1,007	1/4	1,917	1/4	2,817	1/4	3,560	1/4		1/4		1/4		1/4		1/4	
1/2	241	1/2	1,026	1/2	1,936	1/2	2,835	1/2	3,572	1/2		1/2		1/2		1/2		1/2	
3/4	255	3/4	1,044	3/4	1,955	3/4	2,852	3/4	3,584	3/4		3/4		3/4		3/4		3/4	
6	269	6	1,062	6	1,975	6	2,870	6	3,595	6		6		6		6		6	
1/4	283	1/4	1,081	1/4	1,994	1/4	2,887	1/4	3,606	1/4		1/4		1/4		1/4		1/4	
1/2	297	1/2	1,099	1/2	2,013	1/2	2,905	1/2	3,617	1/2		1/2		1/2		1/2		1/2	
3/4	311	3/4	1,117	3/4	2,032	3/4	2,922	3/4	3,628	3/4		3/4		3/4		3/4		3/4	
7	325	7	1,136	7	2,052	7	2,940	7	3,639	7		7		7		7		7	
1/4	340	1/4	1,154	1/4	2,071	1/4	2,957	1/4	3,648	1/4		1/4		1/4		1/4		1/4	
1/2	355	1/2	1,173	1/2	2,090	1/2	2,974	1/2	3,657	1/2		1/2		1/2		1/2		1/2	
3/4	370	3/4	1,192	3/4	2,109	3/4	2,991	3/4	3,667	3/4		3/4		3/4		3/4		3/4	
8	385	8	1,210	8	2,128	8	3,008	8	3,676	8		8		8		8		8	
1/4	400	1/4	1,229	1/4	2,148	1/4	3,025	1/4	3,684	1/4		1/4		1/4		1/4		1/4	
1/2	415	1/2	1,248	1/2	2,167	1/2	3,042	1/2	3,691	1/2		1/2		1/2		1/2		1/2	
3/4	431	3/4	1,266	3/4	2,186	3/4	3,059	3/4	3,699	3/4		3/4		3/4		3/4		3/4	
9	446	9	1,285	9	2,205	9	3,076	9		9		9		9		9		9	
1/4	462	1/4	1,304	1/4	2,224	1/4	3,092	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	477	1/2	1,323	1/2	2,243	1/2	3,108	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	493	3/4	1,342	3/4	2,262	3/4	3,125	3/4		3/4		3/4		3/4		3/4		3/4	
10	509	10	1,361	10	2,281	10	3,141	10		10		10		10		10		10	
1/4	525	1/4	1,380	1/4	2,300	1/4	3,157	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	541	1/2	1,398	1/2	2,319	1/2	3,174	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	557	3/4	1,417	3/4	2,338	3/4	3,190	3/4		3/4		3/4		3/4		3/4		3/4	
11	573	11	1,436	11	2,357	11	3,206	11		11		11		11		11		11	
1/4	590	1/4	1,456	1/4	2,376	1/4	3,221	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	607	1/2	1,475	1/2	2,395	1/2	3,237	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	623	3/4	1,494	3/4	2,413	3/4	3,253	3/4		3/4		3/4		3/4		3/4		3/4	

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

STRAPPED: 04/16/2015 CL
CALCULATED: 04/16/2015 CL
PRINTED: 04/17/2015 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 04/2015

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT
& ANALYSIS, INC.

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



BARGE "MM 310"

INNAGE TRIM TABLE 8" HATCH

	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	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/4	00-1/4	- 00-1/4	00-1/4	- 00-3/8	00-3/8	- 00-3/8	00-3/8
1 STBD	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/4	00-1/4	- 00-1/4	00-1/4	- 00-3/8	00-3/8	- 00-3/8	00-3/8
2 PORT	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/4	00-1/4	- 00-1/4	00-1/4	- 00-3/8	00-3/8	- 00-3/8	00-3/8
2 STBD	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/4	00-1/4	- 00-1/4	00-1/4	- 00-3/8	00-3/8	- 00-3/8	00-3/8
3 PORT	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/4	00-1/4	- 00-1/4	00-1/4	- 00-3/8	00-3/8	- 00-3/8	00-3/8
3 STBD	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/4	00-1/4	- 00-1/4	00-1/4	- 00-3/8	00-3/8	- 00-3/8	00-3/8
4 PORT	- 01-1/4	01-1/4	- 02-3/8	02-3/8	- 03-5/8	03-5/8	- 04-6/8	04-6/8	- 06-0/8	06-0/8	- 07-1/8	07-1/8
4 STBD	- 01-1/4	01-1/4	- 02-3/8	02-3/8	- 03-4/8	03-4/8	- 04-6/8	04-6/8	- 05-7/8	05-7/8	- 07-1/8	07-1/8

(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 2 PORT IS 00-1/8"
 FOR A MEASURED INNAGE GAUGE OF 4'-00" ON 4 PORT, THE TRIM CORRECTED INNAGE IS 4'-00 1/8"

LENGTH BETWEEN DRAFT MARKS: 237'-03"

April 16, 2015

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

<http://www.pmacorp.net>



BARGE "MM 310"

ULLAGE TRIM TABLE HERMETIC

	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	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8
1 STBD	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8
2 PORT	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8
2 STBD	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8
3 PORT	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8
3 STBD	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8
4 PORT	01-1/8	- 01-1/8	02-1/4	- 02-1/4	03-3/8	- 03-3/8	04-1/2	- 04-1/2	05-3/4	- 05-3/4	06-7/8	- 06-7/8
4 STBD	01-1/8	- 01-1/8	02-1/4	- 02-1/4	03-3/8	- 03-3/8	04-1/2	- 04-1/2	05-5/8	- 05-5/8	06-7/8	- 06-7/8

(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 4 PORT IS - 02-1/4"
 FOR A MEASURED ULLAGE GAUGE OF 4'-00" ON 4 PORT, THE TRIM CORRECTED ULLAGE IS 3'-09 3/4"

LENGTH BETWEEN DRAFT MARKS: 237'-03"

April 16, 2015

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

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BARGE "MM 310"

1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-03"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0		0	3,227.12	0	2,979.43	0	2,731.73	0	2,484.03	0	2,236.33	0	1,988.63	0	1,740.93	0	1,493.23
1/4		1/4		1/4	3,221.96	1/4	2,974.27	1/4	2,726.57	1/4	2,478.87	1/4	2,231.17	1/4	1,983.47	1/4	1,735.77	1/4	1,488.07
1/2		1/2		1/2	3,216.80	1/2	2,969.10	1/2	2,721.41	1/2	2,473.71	1/2	2,226.01	1/2	1,978.31	1/2	1,730.61	1/2	1,482.91
3/4		3/4		3/4	3,211.64	3/4	2,963.94	3/4	2,716.25	3/4	2,468.55	3/4	2,220.85	3/4	1,973.15	3/4	1,725.45	3/4	1,477.75
1		1	3,450.33	1	3,206.48	1	2,958.78	1	2,711.08	1	2,463.39	1	2,215.69	1	1,967.99	1	1,720.29	1	1,472.59
1/4		1/4	3,445.74	1/4	3,201.32	1/4	2,953.62	1/4	2,705.92	1/4	2,458.23	1/4	2,210.53	1/4	1,962.83	1/4	1,715.13	1/4	1,467.43
1/2		1/2	3,441.15	1/2	3,196.16	1/2	2,948.46	1/2	2,700.76	1/2	2,453.06	1/2	2,205.37	1/2	1,957.67	1/2	1,709.97	1/2	1,462.27
3/4		3/4	3,436.55	3/4	3,191.00	3/4	2,943.30	3/4	2,695.60	3/4	2,447.90	3/4	2,200.21	3/4	1,952.51	3/4	1,704.81	3/4	1,457.11
2		2	3,431.96	2	3,185.84	2	2,938.14	2	2,690.44	2	2,442.74	2	2,195.04	2	1,947.35	2	1,699.65	2	1,451.95
1/4		1/4	3,426.88	1/4	3,180.68	1/4	2,932.98	1/4	2,685.28	1/4	2,437.58	1/4	2,189.88	1/4	1,942.19	1/4	1,694.49	1/4	1,446.79
1/2		1/2	3,421.79	1/2	3,175.52	1/2	2,927.82	1/2	2,680.12	1/2	2,432.42	1/2	2,184.72	1/2	1,937.02	1/2	1,689.33	1/2	1,441.63
3/4		3/4	3,416.71	3/4	3,170.36	3/4	2,922.66	3/4	2,674.96	3/4	2,427.26	3/4	2,179.56	3/4	1,931.86	3/4	1,684.17	3/4	1,436.47
3		3	3,411.63	3	3,165.20	3	2,917.50	3	2,669.80	3	2,422.10	3	2,174.40	3	1,926.70	3	1,679.00	3	1,431.31
1/4		1/4	3,406.52	1/4	3,160.04	1/4	2,912.34	1/4	2,664.64	1/4	2,416.94	1/4	2,169.24	1/4	1,921.54	1/4	1,673.84	1/4	1,426.15
1/2		1/2	3,401.42	1/2	3,154.88	1/2	2,907.18	1/2	2,659.48	1/2	2,411.78	1/2	2,164.08	1/2	1,916.38	1/2	1,668.68	1/2	1,420.98
3/4		3/4	3,396.32	3/4	3,149.72	3/4	2,902.02	3/4	2,654.32	3/4	2,406.62	3/4	2,158.92	3/4	1,911.22	3/4	1,663.52	3/4	1,415.82
4		4	3,391.22	4	3,144.56	4	2,896.86	4	2,649.16	4	2,401.46	4	2,153.76	4	1,906.06	4	1,658.36	4	1,410.66
1/4		1/4	3,386.11	1/4	3,139.40	1/4	2,891.70	1/4	2,644.00	1/4	2,396.30	1/4	2,148.60	1/4	1,900.90	1/4	1,653.20	1/4	1,405.50
1/2		1/2	3,381.00	1/2	3,134.24	1/2	2,886.54	1/2	2,638.84	1/2	2,391.14	1/2	2,143.44	1/2	1,895.74	1/2	1,648.04	1/2	1,400.34
3/4		3/4	3,375.89	3/4	3,129.08	3/4	2,881.38	3/4	2,633.68	3/4	2,385.98	3/4	2,138.28	3/4	1,890.58	3/4	1,642.88	3/4	1,395.18
5		5	3,370.78	5	3,123.92	5	2,876.22	5	2,628.52	5	2,380.82	5	2,133.12	5	1,885.42	5	1,637.72	5	1,390.02
1/4		1/4	3,365.68	1/4	3,118.76	1/4	2,871.06	1/4	2,623.36	1/4	2,375.66	1/4	2,127.96	1/4	1,880.26	1/4	1,632.56	1/4	1,384.86
1/2		1/2	3,360.57	1/2	3,113.60	1/2	2,865.90	1/2	2,618.20	1/2	2,370.50	1/2	2,122.80	1/2	1,875.10	1/2	1,627.40	1/2	1,379.70
3/4		3/4	3,355.46	3/4	3,108.44	3/4	2,860.74	3/4	2,613.04	3/4	2,365.34	3/4	2,117.64	3/4	1,869.94	3/4	1,622.24	3/4	1,374.54
6		6	3,350.35	6	3,103.28	6	2,855.58	6	2,607.88	6	2,360.18	6	2,112.48	6	1,864.78	6	1,617.08	6	1,369.38
1/4		1/4	3,345.24	1/4	3,098.11	1/4	2,850.42	1/4	2,602.72	1/4	2,355.02	1/4	2,107.32	1/4	1,859.62	1/4	1,611.92	1/4	1,364.22
1/2		1/2	3,340.13	1/2	3,092.95	1/2	2,845.26	1/2	2,597.56	1/2	2,349.86	1/2	2,102.16	1/2	1,854.46	1/2	1,606.76	1/2	1,359.06
3/4		3/4	3,335.03	3/4	3,087.79	3/4	2,840.09	3/4	2,592.40	3/4	2,344.70	3/4	2,097.00	3/4	1,849.30	3/4	1,601.60	3/4	1,353.90
7		7	3,329.92	7	3,082.63	7	2,834.93	7	2,587.24	7	2,339.54	7	2,091.84	7	1,844.14	7	1,596.44	7	1,348.74
1/4		1/4	3,324.81	1/4	3,077.47	1/4	2,829.77	1/4	2,582.07	1/4	2,334.38	1/4	2,086.68	1/4	1,838.98	1/4	1,591.28	1/4	1,343.58
1/2		1/2	3,319.70	1/2	3,072.31	1/2	2,824.61	1/2	2,576.91	1/2	2,329.22	1/2	2,081.52	1/2	1,833.82	1/2	1,586.12	1/2	1,338.42
3/4		3/4	3,314.59	3/4	3,067.15	3/4	2,819.45	3/4	2,571.75	3/4	2,324.05	3/4	2,076.36	3/4	1,828.66	3/4	1,580.96	3/4	1,333.26
8		8	3,309.48	8	3,061.99	8	2,814.29	8	2,566.59	8	2,318.89	8	2,071.20	8	1,823.50	8	1,575.80	8	1,328.10
1/4		1/4	3,304.37	1/4	3,056.83	1/4	2,809.13	1/4	2,561.43	1/4	2,313.73	1/4	2,066.03	1/4	1,818.34	1/4	1,570.64	1/4	1,322.94
1/2		1/2	3,299.27	1/2	3,051.67	1/2	2,803.97	1/2	2,556.27	1/2	2,308.57	1/2	2,060.87	1/2	1,813.18	1/2	1,565.48	1/2	1,317.78
3/4		3/4	3,294.16	3/4	3,046.51	3/4	2,798.81	3/4	2,551.11	3/4	2,303.41	3/4	2,055.71	3/4	1,808.01	3/4	1,560.32	3/4	1,312.62
9		9	3,289.05	9	3,041.35	9	2,793.65	9	2,545.95	9	2,298.25	9	2,050.55	9	1,802.85	9	1,555.16	9	1,307.46
1/4		1/4	3,283.99	1/4	3,036.19	1/4	2,788.49	1/4	2,540.79	1/4	2,293.09	1/4	2,045.39	1/4	1,797.69	1/4	1,549.99	1/4	1,302.30
1/2		1/2	3,278.73	1/2	3,031.03	1/2	2,783.33	1/2	2,535.63	1/2	2,287.93	1/2	2,040.23	1/2	1,792.53	1/2	1,544.83	1/2	1,297.14
3/4		3/4	3,273.57	3/4	3,025.87	3/4	2,778.17	3/4	2,530.47	3/4	2,282.77	3/4	2,035.07	3/4	1,787.37	3/4	1,539.67	3/4	1,291.97
10		10	3,268.41	10	3,020.71	10	2,773.01	10	2,525.31	10	2,277.61	10	2,029.91	10	1,782.21	10	1,534.51	10	1,286.81
1/4		1/4	3,263.25	1/4	3,015.55	1/4	2,767.85	1/4	2,520.15	1/4	2,272.45	1/4	2,024.75	1/4	1,777.05	1/4	1,529.35	1/4	1,281.65
1/2		1/2	3,258.09	1/2	3,010.39	1/2	2,762.69	1/2	2,514.99	1/2	2,267.29	1/2	2,019.59	1/2	1,771.89	1/2	1,524.19	1/2	1,276.49
3/4		3/4	3,252.93	3/4	3,005.23	3/4	2,757.53	3/4	2,509.83	3/4	2,262.13	3/4	2,014.43	3/4	1,766.73	3/4	1,519.03	3/4	1,271.33
11		11	3,247.77	11	3,000.07	11	2,752.37	11	2,504.67	11	2,256.97	11	2,009.27	11	1,761.57	11	1,513.87	11	1,266.17
1/4		1/4	3,242.61	1/4	2,994.91	1/4	2,747.21	1/4	2,499.51	1/4	2,251.81	1/4	2,004.11	1/4	1,756.41	1/4	1,508.71	1/4	1,261.01
1/2		1/2	3,237.45	1/2	2,989.75	1/2	2,742.05	1/2	2,494.35	1/2	2,246.65	1/2	2,000.05	1/2	1,751.25	1/2	1,503.55	1/2	1,255.85
3/4		3/4	3,232.29	3/4	2,984.59	3/4	2,736.89	3/4	2,489.19	3/4	2,241.49	3/4	1,993.79	3/4	1,746.09	3/4	1,498.39	3/4	1,250.69

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.

CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.

CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES.

GAUGE POINT: (HERMETIC - 2" VALVE) LOCATED 12'-09" OFF CENTERLINE AND 29'-06" FORWARD OF AFT BULKHEAD.

GAUGE POINT: (8" HATCH) LOCATED 12'-09" OFF CENTERLINE AND 31'-00" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
& ANALYSIS, INC.

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BARGE "MM 310"

1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-03"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	1,245.53	0	998.22	0	750.52	0	504.73	0	258.46	0	51.09	0		0		0		0	
1/4	1,240.37	1/4	993.06	1/4	745.40	1/4	499.57	1/4	253.60	1/4	47.50	1/4		1/4		1/4		1/4	
1/2	1,235.21	1/2	987.90	1/2	740.27	1/2	494.41	1/2	248.74	1/2	43.91	1/2		1/2		1/2		1/2	
3/4	1,230.05	3/4	982.74	3/4	735.15	3/4	489.25	3/4	243.88	3/4	40.32	3/4		3/4		3/4		3/4	
1	1,224.89	1	977.58	1	730.02	1	484.09	1	239.02	1	36.72	1		1		1		1	
1/4	1,219.73	1/4	972.42	1/4	724.90	1/4	478.93	1/4	234.25	1/4	33.71	1/4		1/4		1/4		1/4	
1/2	1,214.57	1/2	967.26	1/2	719.78	1/2	473.77	1/2	229.48	1/2	30.71	1/2		1/2		1/2		1/2	
3/4	1,209.41	3/4	962.10	3/4	714.65	3/4	468.61	3/4	224.71	3/4	27.70	3/4		3/4		3/4		3/4	
2	1,204.25	2	956.94	2	709.53	2	463.45	2	219.94	2	24.69	2		2		2		2	
1/4	1,199.09	1/4	951.78	1/4	704.40	1/4	458.29	1/4	215.26	1/4	22.80	1/4		1/4		1/4		1/4	
1/2	1,193.93	1/2	946.62	1/2	699.28	1/2	453.13	1/2	210.58	1/2	20.92	1/2		1/2		1/2		1/2	
3/4	1,188.77	3/4	941.46	3/4	694.16	3/4	447.97	3/4	205.91	3/4	19.03	3/4		3/4		3/4		3/4	
3	1,183.61	3	936.30	3	689.03	3	442.81	3	201.23	3	17.14	3		3		3		3	
1/4	1,178.45	1/4	931.14	1/4	683.91	1/4	437.65	1/4	196.64	1/4		1/4		1/4		1/4		1/4	
1/2	1,173.29	1/2	925.98	1/2	678.78	1/2	432.49	1/2	192.06	1/2		1/2		1/2		1/2		1/2	
3/4	1,168.13	3/4	920.81	3/4	673.66	3/4	427.33	3/4	187.47	3/4		3/4		3/4		3/4		3/4	
4	1,162.96	4	915.65	4	668.53	4	422.17	4	182.88	4		4		4		4		4	
1/4	1,157.83	1/4	910.49	1/4	663.42	1/4	417.01	1/4	178.39	1/4		1/4		1/4		1/4		1/4	
1/2	1,152.69	1/2	905.33	1/2	658.30	1/2	411.85	1/2	173.90	1/2		1/2		1/2		1/2		1/2	
3/4	1,147.56	3/4	900.17	3/4	653.18	3/4	406.69	3/4	169.40	3/4		3/4		3/4		3/4		3/4	
5	1,142.42	5	895.01	5	648.06	5	401.53	5	164.91	5		5		5		5		5	
1/4	1,137.28	1/4	889.85	1/4	642.94	1/4	396.37	1/4	160.51	1/4		1/4		1/4		1/4		1/4	
1/2	1,132.15	1/2	884.69	1/2	637.82	1/2	391.21	1/2	156.11	1/2		1/2		1/2		1/2		1/2	
3/4	1,127.01	3/4	879.53	3/4	632.70	3/4	386.05	3/4	151.70	3/4		3/4		3/4		3/4		3/4	
6	1,121.88	6	874.37	6	627.58	6	380.89	6	147.30	6		6		6		6		6	
1/4	1,116.74	1/4	869.21	1/4	622.47	1/4	375.73	1/4	142.99	1/4		1/4		1/4		1/4		1/4	
1/2	1,111.60	1/2	864.05	1/2	617.35	1/2	370.56	1/2	138.68	1/2		1/2		1/2		1/2		1/2	
3/4	1,106.47	3/4	858.89	3/4	612.23	3/4	365.40	3/4	134.37	3/4		3/4		3/4		3/4		3/4	
7	1,101.33	7	853.73	7	607.11	7	360.24	7	130.06	7		7		7		7		7	
1/4	1,096.20	1/4	848.57	1/4	601.99	1/4	355.08	1/4	125.84	1/4		1/4		1/4		1/4		1/4	
1/2	1,091.06	1/2	843.41	1/2	596.87	1/2	349.92	1/2	121.62	1/2		1/2		1/2		1/2		1/2	
3/4	1,085.92	3/4	838.25	3/4	591.75	3/4	344.76	3/4	117.41	3/4		3/4		3/4		3/4		3/4	
8	1,080.79	8	833.09	8	586.63	8	339.60	8	113.19	8		8		8		8		8	
1/4	1,075.63	1/4	827.93	1/4	581.51	1/4	334.44	1/4	109.06	1/4		1/4		1/4		1/4		1/4	
1/2	1,070.47	1/2	822.77	1/2	576.40	1/2	329.28	1/2	104.94	1/2		1/2		1/2		1/2		1/2	
3/4	1,065.31	3/4	817.61	3/4	571.28	3/4	324.12	3/4	100.81	3/4		3/4		3/4		3/4		3/4	
9	1,060.15	9	812.45	9	566.16	9	318.96	9	96.68	9		9		9		9		9	
1/4	1,054.99	1/4	807.29	1/4	561.04	1/4	313.84	1/4	92.79	1/4		1/4		1/4		1/4		1/4	
1/2	1,049.82	1/2	802.13	1/2	555.92	1/2	308.71	1/2	88.89	1/2		1/2		1/2		1/2		1/2	
3/4	1,044.66	3/4	796.97	3/4	550.80	3/4	303.58	3/4	85.00	3/4		3/4		3/4		3/4		3/4	
10	1,039.50	10	791.80	10	545.68	10	298.46	10	81.10	10		10		10		10		10	
1/4	1,034.34	1/4	786.64	1/4	540.56	1/4	293.41	1/4	77.30	1/4		1/4		1/4		1/4		1/4	
1/2	1,029.18	1/2	781.48	1/2	535.45	1/2	288.37	1/2	73.50	1/2		1/2		1/2		1/2		1/2	
3/4	1,024.02	3/4	776.32	3/4	530.33	3/4	283.32	3/4	69.70	3/4		3/4		3/4		3/4		3/4	
11	1,018.86	11	771.16	11	525.21	11	278.28	11	65.90	11		11		11		11		11	
1/4	1,013.70	1/4	766.00	1/4	520.09	1/4	273.32	1/4	62.20	1/4		1/4		1/4		1/4		1/4	
1/2	1,008.54	1/2	760.84	1/2	514.97	1/2	268.37	1/2	58.50	1/2		1/2		1/2		1/2		1/2	
3/4	1,003.38	3/4	755.68	3/4	509.85	3/4	263.42	3/4	54.80	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 04/16/2015 CL
CALCULATED: 04/16/2015 CL
PRINTED: 04/17/2015 JS

CANCELS AND SUPERCEDES
ALL PRIOR TO 04/2015

PRECISION MEASUREMENT
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BARGE "MM 310"

1 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-02 1/2"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0		0	3,217.50	0	2,969.90	0	2,722.31	0	2,474.70	0	2,227.08	0	1,979.46	0	1,731.84	0	1,484.23
1/4		1/4		1/4	3,212.34	1/4	2,964.75	1/4	2,717.15	1/4	2,469.54	1/4	2,221.92	1/4	1,974.30	1/4	1,726.68	1/4	1,479.07
1/2		1/2		1/2	3,450.95	1/2	3,207.19	1/2	2,959.59	1/2	2,711.99	1/2	2,464.38	1/2	2,216.76	1/2	1,969.14	1/2	1,721.53
3/4		3/4		3/4	3,446.36	3/4	3,202.03	3/4	2,954.43	3/4	2,706.83	3/4	2,459.22	3/4	2,211.60	3/4	1,963.98	3/4	1,716.37
1		1		1	3,441.77	1	3,196.87	1	2,949.27	1	2,701.67	1	2,454.06	1	2,206.44	1	1,958.83	1	1,711.21
1/4		1/4		1/4	3,437.18	1/4	3,191.71	1/4	2,944.11	1/4	2,696.51	1/4	2,448.90	1/4	2,201.28	1/4	1,953.67	1/4	1,706.05
1/2		1/2		1/2	3,432.59	1/2	3,186.55	1/2	2,938.95	1/2	2,691.36	1/2	2,443.74	1/2	2,196.13	1/2	1,948.51	1/2	1,700.89
3/4		3/4		3/4	3,427.51	3/4	3,181.39	3/4	2,933.80	3/4	2,686.20	3/4	2,438.58	3/4	2,190.97	3/4	1,943.35	3/4	1,695.73
2		2		2	3,422.42	2	3,176.24	2	2,928.64	2	2,681.04	2	2,433.43	2	2,185.81	2	1,938.19	2	1,690.57
1/4		1/4		1/4	3,417.34	1/4	3,171.08	1/4	2,923.48	1/4	2,675.88	1/4	2,428.27	1/4	2,180.65	1/4	1,933.03	1/4	1,685.41
1/2		1/2		1/2	3,412.26	1/2	3,165.92	1/2	2,918.32	1/2	2,670.72	1/2	2,423.11	1/2	2,175.49	1/2	1,927.87	1/2	1,680.26
3/4		3/4		3/4	3,407.16	3/4	3,160.76	3/4	2,913.16	3/4	2,665.56	3/4	2,417.95	3/4	2,170.33	3/4	1,922.71	3/4	1,675.10
3		3		3	3,402.06	3	3,155.60	3	2,908.00	3	2,660.41	3	2,412.79	3	2,165.17	3	1,917.56	3	1,669.94
1/4		1/4		1/4	3,396.96	1/4	3,150.44	1/4	2,902.85	1/4	2,655.25	1/4	2,407.63	1/4	2,160.01	1/4	1,912.40	1/4	1,664.78
1/2		1/2		1/2	3,391.86	1/2	3,145.29	1/2	2,897.69	1/2	2,650.09	1/2	2,402.47	1/2	2,154.86	1/2	1,907.24	1/2	1,659.62
3/4		3/4		3/4	3,386.75	3/4	3,140.13	3/4	2,892.53	3/4	2,644.93	3/4	2,397.31	3/4	2,149.70	3/4	1,902.08	3/4	1,654.46
4		4		4	3,381.65	4	3,134.97	4	2,887.37	4	2,639.77	4	2,392.16	4	2,144.54	4	1,896.92	4	1,649.30
1/4		1/4		1/4	3,376.54	1/4	3,129.81	1/4	2,882.21	1/4	2,634.61	1/4	2,387.00	1/4	2,139.38	1/4	1,891.76	1/4	1,644.14
1/2		1/2		1/2	3,371.44	1/2	3,124.65	1/2	2,877.05	1/2	2,629.46	1/2	2,381.84	1/2	2,134.22	1/2	1,886.60	1/2	1,638.99
3/4		3/4		3/4	3,366.33	3/4	3,119.49	3/4	2,871.90	3/4	2,624.30	3/4	2,376.68	3/4	2,129.06	3/4	1,881.44	3/4	1,633.83
5		5		5	3,361.22	5	3,114.34	5	2,866.74	5	2,619.14	5	2,371.52	5	2,123.90	5	1,876.29	5	1,628.67
1/4		1/4		1/4	3,356.11	1/4	3,109.18	1/4	2,861.58	1/4	2,613.98	1/4	2,366.36	1/4	2,118.75	1/4	1,871.13	1/4	1,623.51
1/2		1/2		1/2	3,351.01	1/2	3,104.02	1/2	2,856.42	1/2	2,608.82	1/2	2,361.20	1/2	2,113.59	1/2	1,865.97	1/2	1,618.35
3/4		3/4		3/4	3,345.90	3/4	3,098.86	3/4	2,851.26	3/4	2,603.66	3/4	2,356.05	3/4	2,108.43	3/4	1,860.81	3/4	1,613.19
6		6		6	3,340.79	6	3,093.70	6	2,846.10	6	2,598.50	6	2,350.89	6	2,103.27	6	1,855.65	6	1,608.03
1/4		1/4		1/4	3,335.68	1/4	3,088.55	1/4	2,840.95	1/4	2,593.35	1/4	2,345.73	1/4	2,098.11	1/4	1,850.49	1/4	1,602.88
1/2		1/2		1/2	3,330.58	1/2	3,083.39	1/2	2,835.79	1/2	2,588.19	1/2	2,340.57	1/2	2,092.95	1/2	1,845.33	1/2	1,597.72
3/4		3/4		3/4	3,325.47	3/4	3,078.23	3/4	2,830.63	3/4	2,583.03	3/4	2,335.41	3/4	2,087.79	3/4	1,840.18	3/4	1,592.56
7		7		7	3,320.36	7	3,073.07	7	2,825.47	7	2,577.87	7	2,330.25	7	2,082.63	7	1,835.02	7	1,587.40
1/4		1/4		1/4	3,315.26	1/4	3,067.91	1/4	2,820.31	1/4	2,572.71	1/4	2,325.09	1/4	2,077.48	1/4	1,829.86	1/4	1,582.24
1/2		1/2		1/2	3,310.15	1/2	3,062.75	1/2	2,815.16	1/2	2,567.55	1/2	2,319.93	1/2	2,072.32	1/2	1,824.70	1/2	1,577.08
3/4		3/4		3/4	3,305.04	3/4	3,057.60	3/4	2,810.00	3/4	2,562.39	3/4	2,314.78	3/4	2,067.16	3/4	1,819.54	3/4	1,571.92
8		8		8	3,299.93	8	3,052.44	8	2,804.84	8	2,557.23	8	2,309.62	8	2,062.00	8	1,814.38	8	1,566.76
1/4		1/4		1/4	3,294.83	1/4	3,047.28	1/4	2,799.68	1/4	2,552.08	1/4	2,304.46	1/4	2,056.84	1/4	1,809.22	1/4	1,561.61
1/2		1/2		1/2	3,289.72	1/2	3,042.12	1/2	2,794.52	1/2	2,546.92	1/2	2,299.30	1/2	2,051.68	1/2	1,804.06	1/2	1,556.45
3/4		3/4		3/4	3,284.56	3/4	3,036.96	3/4	2,789.36	3/4	2,541.76	3/4	2,294.14	3/4	2,046.52	3/4	1,798.91	3/4	1,551.29
9		9		9	3,279.40	9	3,031.80	9	2,784.21	9	2,536.60	9	2,288.98	9	2,041.36	9	1,793.75	9	1,546.13
1/4		1/4		1/4	3,274.24	1/4	3,026.65	1/4	2,779.05	1/4	2,531.44	1/4	2,283.82	1/4	2,036.21	1/4	1,788.59	1/4	1,540.97
1/2		1/2		1/2	3,269.09	1/2	3,021.49	1/2	2,773.89	1/2	2,526.28	1/2	2,278.66	1/2	2,031.05	1/2	1,783.43	1/2	1,535.81
3/4		3/4		3/4	3,263.93	3/4	3,016.33	3/4	2,768.73	3/4	2,521.12	3/4	2,273.51	3/4	2,025.89	3/4	1,778.27	3/4	1,530.65
10		10		10	3,258.77	10	3,011.17	10	2,763.57	10	2,515.96	10	2,268.35	10	2,020.73	10	1,773.11	10	1,525.49
1/4		1/4		1/4	3,253.61	1/4	3,006.01	1/4	2,758.41	1/4	2,510.81	1/4	2,263.19	1/4	2,015.57	1/4	1,767.95	1/4	1,520.34
1/2		1/2		1/2	3,248.45	1/2	3,000.85	1/2	2,753.26	1/2	2,505.65	1/2	2,258.03	1/2	2,010.41	1/2	1,762.79	1/2	1,515.18
3/4		3/4		3/4	3,243.29	3/4	2,995.70	3/4	2,748.10	3/4	2,500.49	3/4	2,252.87	3/4	2,005.25	3/4	1,757.64	3/4	1,510.02
11		11		11	3,238.14	11	2,990.54	11	2,742.94	11	2,495.33	11	2,247.71	11	2,000.10	11	1,752.48	11	1,504.86
1/4		1/4		1/4	3,232.98	1/4	2,985.38	1/4	2,737.78	1/4	2,490.17	1/4	2,242.55	1/4	1,994.94	1/4	1,747.32	1/4	1,499.70
1/2		1/2		1/2	3,227.82	1/2	2,980.22	1/2	2,732.62	1/2	2,485.01	1/2	2,237.40	1/2	1,989.78	1/2	1,742.16	1/2	1,494.54
3/4		3/4		3/4	3,222.66	3/4	2,975.06	3/4	2,727.46	3/4	2,479.85	3/4	2,232.24	3/4	1,984.62	3/4	1,737.00	3/4	1,489.38

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.

CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.

CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES.

GAUGE POINT: (HERMETIC - 2" VALVE) LOCATED 12'-09" OFF CENTERLINE AND 29'-06" FORWARD OF AFT BULKHEAD.

GAUGE POINT: (8" HATCH) LOCATED 12'-09" OFF CENTERLINE AND 31'-00" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
& ANALYSIS, INC.

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BARGE "MM 310"

1 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-02 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	1,236.61	0	989.39	0	741.77	0	494.32	0	248.74	0	43.92	0		0		0		0	
1/4	1,231.45	1/4	984.23	1/4	736.61	1/4	489.17	1/4	243.88	1/4	40.32	1/4		1/4	1/4	1/4		1/4	1/4
1/2	1,226.29	1/2	979.07	1/2	731.45	1/2	484.01	1/2	239.02	1/2	36.73	1/2		1/2	1/2	1/2		1/2	1/2
3/4	1,221.13	3/4	973.91	3/4	726.29	3/4	478.85	3/4	234.25	3/4	33.72	3/4		3/4	3/4	3/4		3/4	3/4
1	1,215.97	1	968.75	1	721.13	1	473.69	1	229.48	1	30.71	1		1	1	1		1	1
1/4	1,210.81	1/4	963.59	1/4	715.98	1/4	468.53	1/4	224.71	1/4	27.70	1/4		1/4	1/4	1/4		1/4	1/4
1/2	1,205.66	1/2	958.43	1/2	710.82	1/2	463.37	1/2	219.94	1/2	24.69	1/2		1/2	1/2	1/2		1/2	1/2
3/4	1,200.50	3/4	953.28	3/4	705.66	3/4	458.22	3/4	215.26	3/4	22.80	3/4		3/4	3/4	3/4		3/4	3/4
2	1,195.34	2	948.12	2	700.50	2	453.06	2	210.59	2	20.91	2		2	2	2		2	2
1/4	1,190.18	1/4	942.96	1/4	695.34	1/4	447.90	1/4	205.91	1/4	19.02	1/4		1/4	1/4	1/4		1/4	1/4
1/2	1,185.02	1/2	937.80	1/2	690.18	1/2	442.74	1/2	201.23	1/2	17.14	1/2		1/2	1/2	1/2		1/2	1/2
3/4	1,179.86	3/4	932.64	3/4	685.02	3/4	437.58	3/4	196.65	3/4		3/4		3/4	3/4	3/4		3/4	3/4
3	1,174.70	3	927.48	3	679.86	3	432.42	3	192.06	3		3		3	3	3		3	3
1/4	1,169.54	1/4	922.32	1/4	674.71	1/4	427.26	1/4	187.48	1/4		1/4		1/4	1/4	1/4		1/4	1/4
1/2	1,164.39	1/2	917.16	1/2	669.55	1/2	422.11	1/2	182.89	1/2		1/2		1/2	1/2	1/2		1/2	1/2
3/4	1,159.25	3/4	912.01	3/4	664.39	3/4	416.95	3/4	178.40	3/4		3/4		3/4	3/4	3/4		3/4	3/4
4	1,154.12	4	906.85	4	659.24	4	411.79	4	173.91	4		4		4	4	4		4	4
1/4	1,148.98	1/4	901.69	1/4	654.09	1/4	406.63	1/4	169.41	1/4		1/4		1/4	1/4	1/4		1/4	1/4
1/2	1,143.85	1/2	896.53	1/2	648.93	1/2	401.47	1/2	164.92	1/2		1/2		1/2	1/2	1/2		1/2	1/2
3/4	1,138.72	3/4	891.37	3/4	643.78	3/4	396.31	3/4	160.52	3/4		3/4		3/4	3/4	3/4		3/4	3/4
5	1,133.58	5	886.21	5	638.63	5	391.15	5	156.12	5		5		5	5	5		5	5
1/4	1,128.45	1/4	881.05	1/4	633.47	1/4	386.00	1/4	151.72	1/4		1/4		1/4	1/4	1/4		1/4	1/4
1/2	1,123.31	1/2	875.90	1/2	628.32	1/2	380.84	1/2	147.32	1/2		1/2		1/2	1/2	1/2		1/2	1/2
3/4	1,118.18	3/4	870.74	3/4	623.17	3/4	375.68	3/4	143.01	3/4		3/4		3/4	3/4	3/4		3/4	3/4
6	1,113.05	6	865.58	6	618.01	6	370.52	6	138.70	6		6		6	6	6		6	6
1/4	1,107.91	1/4	860.42	1/4	612.86	1/4	365.36	1/4	134.39	1/4		1/4		1/4	1/4	1/4		1/4	1/4
1/2	1,102.78	1/2	855.26	1/2	607.71	1/2	360.20	1/2	130.08	1/2		1/2		1/2	1/2	1/2		1/2	1/2
3/4	1,097.64	3/4	850.10	3/4	602.55	3/4	355.05	3/4	125.86	3/4		3/4		3/4	3/4	3/4		3/4	3/4
7	1,092.51	7	844.94	7	597.40	7	349.89	7	121.64	7		7		7	7	7		7	7
1/4	1,087.38	1/4	839.78	1/4	592.25	1/4	344.73	1/4	117.42	1/4		1/4		1/4	1/4	1/4		1/4	1/4
1/2	1,082.24	1/2	834.63	1/2	587.09	1/2	339.57	1/2	113.20	1/2		1/2		1/2	1/2	1/2		1/2	1/2
3/4	1,077.08	3/4	829.47	3/4	581.94	3/4	334.41	3/4	109.08	3/4		3/4		3/4	3/4	3/4		3/4	3/4
8	1,071.93	8	824.31	8	576.79	8	329.25	8	104.95	8		8		8	8	8		8	8
1/4	1,066.77	1/4	819.15	1/4	571.63	1/4	324.09	1/4	100.82	1/4		1/4		1/4	1/4	1/4		1/4	1/4
1/2	1,061.61	1/2	813.99	1/2	566.48	1/2	318.94	1/2	96.70	1/2		1/2		1/2	1/2	1/2		1/2	1/2
3/4	1,056.45	3/4	808.83	3/4	561.33	3/4	313.81	3/4	92.80	3/4		3/4		3/4	3/4	3/4		3/4	3/4
9	1,051.29	9	803.67	9	556.17	9	308.69	9	88.91	9		9		9	9	9		9	9
1/4	1,046.13	1/4	798.51	1/4	551.02	1/4	303.56	1/4	85.01	1/4		1/4		1/4	1/4	1/4		1/4	1/4
1/2	1,040.97	1/2	793.36	1/2	545.87	1/2	298.44	1/2	81.12	1/2		1/2		1/2	1/2	1/2		1/2	1/2
3/4	1,035.81	3/4	788.20	3/4	540.71	3/4	293.40	3/4	77.32	3/4		3/4		3/4	3/4	3/4		3/4	3/4
10	1,030.66	10	783.04	10	535.56	10	288.35	10	73.52	10		10		10	10	10		10	10
1/4	1,025.50	1/4	777.88	1/4	530.41	1/4	283.31	1/4	69.72	1/4		1/4		1/4	1/4	1/4		1/4	1/4
1/2	1,020.34	1/2	772.72	1/2	525.25	1/2	278.26	1/2	65.91	1/2		1/2		1/2	1/2	1/2		1/2	1/2
3/4	1,015.18	3/4	767.56	3/4	520.10	3/4	273.31	3/4	62.21	3/4		3/4		3/4	3/4	3/4		3/4	3/4
11	1,010.02	11	762.40	11	514.95	11	268.36	11	58.51	11		11		11	11	11		11	11
1/4	1,004.86	1/4	757.25	1/4	509.79	1/4	263.41	1/4	54.81	1/4		1/4		1/4	1/4	1/4		1/4	1/4
1/2	999.70	1/2	752.09	1/2	504.64	1/2	258.46	1/2	51.10	1/2		1/2		1/2	1/2	1/2		1/2	1/2
3/4	994.55	3/4	746.93	3/4	499.48	3/4	253.60	3/4	47.51	3/4		3/4		3/4	3/4	3/4		3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 04/16/2015 CL
CALCULATED: 04/16/2015 CL
PRINTED: 04/17/2015 JS

CANCELS AND SUPERCEDES
ALL PRIOR TO 04/2015

PRECISION MEASUREMENT
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BARGE "MM 310"

2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-02 1/2"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0		0	4,004.03	0	3,700.38	0	3,396.74	0	3,093.08	0	2,789.42	0	2,485.77	0	2,182.11	0	1,878.45
1/4		1/4		1/4	3,997.71	1/4	3,694.06	1/4	3,390.41	1/4	3,086.75	1/4	2,783.10	1/4	2,479.44	1/4	2,175.78	1/4	1,872.12
1/2		1/2		1/2	4,290.32	1/2	3,991.38	1/2	3,687.73	1/2	3,384.08	1/2	3,080.43	1/2	2,776.77	1/2	2,473.11	1/2	1,865.80
3/4		3/4		3/4	4,284.69	3/4	3,985.05	3/4	3,681.41	3/4	3,377.76	3/4	3,074.10	3/4	2,770.45	3/4	2,466.79	3/4	1,859.47
1		1		1	4,279.06	1	3,978.73	1	3,675.08	1	3,371.43	1	3,067.78	1	2,764.12	1	2,460.46	1	1,853.15
1/4		1/4		1/4	4,273.43	1/4	3,972.40	1/4	3,668.75	1/4	3,365.11	1/4	3,061.45	1/4	2,757.79	1/4	2,454.14	1/4	1,846.82
1/2		1/2		1/2	4,267.80	1/2	3,966.08	1/2	3,662.43	1/2	3,358.78	1/2	3,055.12	1/2	2,751.47	1/2	2,447.81	1/2	1,840.49
3/4		3/4		3/4	4,261.57	3/4	3,959.75	3/4	3,656.10	3/4	3,352.45	3/4	3,048.80	3/4	2,745.14	3/4	2,441.48	3/4	1,834.17
2		2		2	4,255.34	2	3,953.42	2	3,649.78	2	3,346.13	2	3,042.47	2	2,738.81	2	2,435.16	2	1,827.84
1/4		1/4		1/4	4,249.10	1/4	3,947.10	1/4	3,643.45	1/4	3,339.80	1/4	3,036.15	1/4	2,732.49	1/4	2,428.83	1/4	1,821.52
1/2		1/2		1/2	4,242.87	1/2	3,940.77	1/2	3,637.12	1/2	3,333.48	1/2	3,029.82	1/2	2,726.16	1/2	2,422.50	1/2	1,815.19
3/4		3/4		3/4	4,236.62	3/4	3,934.45	3/4	3,630.80	3/4	3,327.15	3/4	3,023.49	3/4	2,719.84	3/4	2,416.18	3/4	1,808.86
3		3		3	4,230.36	3	3,928.12	3	3,624.47	3	3,320.82	3	3,017.17	3	2,713.51	3	2,409.85	3	1,802.54
1/4		1/4		1/4	4,224.11	1/4	3,921.79	1/4	3,618.15	1/4	3,314.50	1/4	3,010.84	1/4	2,707.18	1/4	2,403.53	1/4	1,796.21
1/2		1/2		1/2	4,217.85	1/2	3,915.47	1/2	3,611.82	1/2	3,308.17	1/2	3,004.51	1/2	2,700.86	1/2	2,397.20	1/2	1,789.88
3/4		3/4		3/4	4,211.59	3/4	3,909.14	3/4	3,605.49	3/4	3,301.85	3/4	2,998.19	3/4	2,694.53	3/4	2,390.87	3/4	1,783.56
4		4		4	4,205.33	4	3,902.82	4	3,599.17	4	3,295.52	4	2,991.86	4	2,688.20	4	2,384.55	4	1,777.23
1/4		1/4		1/4	4,199.06	1/4	3,896.49	1/4	3,592.84	1/4	3,289.19	1/4	2,985.54	1/4	2,681.88	1/4	2,378.22	1/4	1,770.91
1/2		1/2		1/2	4,192.80	1/2	3,890.16	1/2	3,586.52	1/2	3,282.87	1/2	2,979.21	1/2	2,675.55	1/2	2,371.89	1/2	1,764.58
3/4		3/4		3/4	4,186.54	3/4	3,883.84	3/4	3,580.19	3/4	3,276.54	3/4	2,972.88	3/4	2,669.23	3/4	2,365.57	3/4	1,758.25
5		5		5	4,180.27	5	3,877.51	5	3,573.86	5	3,270.21	5	2,966.56	5	2,662.90	5	2,359.24	5	1,751.93
1/4		1/4		1/4	4,174.01	1/4	3,871.19	1/4	3,567.54	1/4	3,263.89	1/4	2,960.23	1/4	2,656.57	1/4	2,352.92	1/4	1,745.60
1/2		1/2		1/2	4,167.75	1/2	3,864.86	1/2	3,561.21	1/2	3,257.56	1/2	2,953.90	1/2	2,650.25	1/2	2,346.59	1/2	1,739.27
3/4		3/4		3/4	4,161.49	3/4	3,858.53	3/4	3,554.89	3/4	3,251.24	3/4	2,947.58	3/4	2,643.92	3/4	2,340.26	3/4	1,732.95
6		6		6	4,155.22	6	3,852.21	6	3,548.56	6	3,244.91	6	2,941.25	6	2,637.59	6	2,333.94	6	1,726.62
1/4		1/4		1/4	4,148.96	1/4	3,845.88	1/4	3,542.23	1/4	3,238.58	1/4	2,934.93	1/4	2,631.27	1/4	2,327.61	1/4	1,720.30
1/2		1/2		1/2	4,142.70	1/2	3,839.56	1/2	3,535.91	1/2	3,232.26	1/2	2,928.60	1/2	2,624.94	1/2	2,321.28	1/2	1,713.97
3/4		3/4		3/4	4,136.43	3/4	3,833.23	3/4	3,529.58	3/4	3,225.93	3/4	2,922.27	3/4	2,618.62	3/4	2,314.96	3/4	1,707.64
7		7		7	4,130.17	7	3,826.90	7	3,523.26	7	3,219.61	7	2,915.95	7	2,612.29	7	2,308.63	7	1,701.32
1/4		1/4		1/4	4,123.91	1/4	3,820.58	1/4	3,516.93	1/4	3,213.28	1/4	2,909.62	1/4	2,605.96	1/4	2,302.31	1/4	1,694.99
1/2		1/2		1/2	4,117.65	1/2	3,814.25	1/2	3,510.60	1/2	3,206.95	1/2	2,903.30	1/2	2,599.64	1/2	2,295.98	1/2	1,688.66
3/4		3/4		3/4	4,111.38	3/4	3,807.93	3/4	3,504.28	3/4	3,200.63	3/4	2,896.97	3/4	2,593.31	3/4	2,289.65	3/4	1,682.34
8		8		8	4,105.12	8	3,801.60	8	3,497.95	8	3,194.30	8	2,890.64	8	2,586.99	8	2,283.33	8	1,676.01
1/4		1/4		1/4	4,098.86	1/4	3,795.27	1/4	3,491.63	1/4	3,187.97	1/4	2,884.32	1/4	2,580.66	1/4	2,277.00	1/4	1,669.69
1/2		1/2		1/2	4,092.60	1/2	3,788.95	1/2	3,485.30	1/2	3,181.65	1/2	2,877.99	1/2	2,574.33	1/2	2,270.68	1/2	1,663.36
3/4		3/4		3/4	4,086.27	3/4	3,782.62	3/4	3,478.97	3/4	3,175.32	3/4	2,871.66	3/4	2,568.01	3/4	2,264.35	3/4	1,657.03
9		9		9	4,079.94	9	3,776.30	9	3,472.65	9	3,169.00	9	2,865.34	9	2,561.68	9	2,258.02	9	1,650.71
1/4		1/4		1/4	4,073.62	1/4	3,769.97	1/4	3,466.32	1/4	3,162.67	1/4	2,859.01	1/4	2,555.35	1/4	2,251.70	1/4	1,644.38
1/2		1/2		1/2	4,067.29	1/2	3,763.64	1/2	3,460.00	1/2	3,156.34	1/2	2,852.69	1/2	2,549.03	1/2	2,245.37	1/2	1,638.06
3/4		3/4		3/4	4,060.97	3/4	3,757.32	3/4	3,453.67	3/4	3,150.02	3/4	2,846.36	3/4	2,542.70	3/4	2,239.04	3/4	1,631.73
10		10		10	4,054.64	10	3,750.99	10	3,447.34	10	3,143.69	10	2,840.03	10	2,536.38	10	2,232.72	10	1,625.40
1/4		1/4		1/4	4,048.31	1/4	3,744.67	1/4	3,441.02	1/4	3,137.36	1/4	2,833.71	1/4	2,530.05	1/4	2,226.39	1/4	1,619.08
1/2		1/2		1/2	4,041.99	1/2	3,738.34	1/2	3,434.69	1/2	3,131.04	1/2	2,827.38	1/2	2,523.72	1/2	2,220.07	1/2	1,612.75
3/4		3/4		3/4	4,035.66	3/4	3,732.01	3/4	3,428.37	3/4	3,124.71	3/4	2,821.05	3/4	2,517.40	3/4	2,213.74	3/4	1,606.42
11		11		11	4,029.34	11	3,725.69	11	3,422.04	11	3,118.39	11	2,814.73	11	2,511.07	11	2,207.41	11	1,600.10
1/4		1/4		1/4	4,023.01	1/4	3,719.36	1/4	3,415.71	1/4	3,112.06	1/4	2,808.40	1/4	2,504.74	1/4	2,201.09	1/4	1,593.77
1/2		1/2		1/2	4,016.68	1/2	3,713.04	1/2	3,409.39	1/2	3,105.73	1/2	2,802.08	1/2	2,498.42	1/2	2,194.76	1/2	1,587.45
3/4		3/4		3/4	4,010.36	3/4	3,706.71	3/4	3,403.06	3/4	3,099.41	3/4	2,795.75	3/4	2,492.09	3/4	2,188.43	3/4	1,581.12

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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

GAUGE POINT: (HERMETIC - 2" VALVE) LOCATED 12'-09" OFF CENTERLINE AND 36'-03" FORWARD OF AFT BULKHEAD.
GAUGE POINT: (8" HATCH) LOCATED 12'-09" OFF CENTERLINE AND 37'-09" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
& ANALYSIS, INC.
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BARGE "MM 310"

2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-02 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	1,574.79	0	1,272.72	0	969.62	0	678.96	0	375.31	0	74.17	0		0		0		0	
1/4	1,568.47	1/4	1,266.40	1/4	963.57	1/4	672.64	1/4	368.99	1/4	68.05	1/4		1/4		1/4		1/4	
1/2	1,562.14	1/2	1,260.07	1/2	957.53	1/2	666.31	1/2	362.66	1/2	61.93	1/2		1/2		1/2		1/2	
3/4	1,555.81	3/4	1,253.74	3/4	951.48	3/4	659.98	3/4	356.34	3/4	56.41	3/4		3/4		3/4		3/4	
1	1,549.49	1	1,247.42	1	945.43	1	653.66	1	350.01	1	50.89	1		1		1		1	
1/4	1,543.16	1/4	1,241.09	1/4	939.38	1/4	647.33	1/4	343.68	1/4	45.37	1/4		1/4		1/4		1/4	
1/2	1,536.84	1/2	1,234.76	1/2	933.34	1/2	641.01	1/2	337.36	1/2	39.85	1/2		1/2		1/2		1/2	
3/4	1,530.51	3/4	1,228.44	3/4	927.29	3/4	634.68	3/4	331.03	3/4	35.59	3/4		3/4		3/4		3/4	
2	1,524.18	2	1,222.11	2	921.24	2	628.35	2	324.71	2	31.33	2		2		2		2	
1/4	1,517.86	1/4	1,215.79	1/4	915.19	1/4	622.03	1/4	318.38	1/4	27.08	1/4		1/4		1/4		1/4	
1/2	1,511.53	1/2	1,209.46	1/2	909.15	1/2	615.70	1/2	312.05	1/2	22.82	1/2		1/2		1/2		1/2	
3/4	1,505.21	3/4	1,203.13	3/4	903.10	3/4	609.38	3/4	305.73	3/4		3/4		3/4		3/4		3/4	
3	1,498.88	3	1,196.81	3	897.05	3	603.05	3	299.40	3		3		3		3		3	
1/4	1,492.55	1/4	1,190.48	1/4	891.01	1/4	596.72	1/4	293.08	1/4		1/4		1/4		1/4		1/4	
1/2	1,486.23	1/2	1,184.15	1/2	884.96	1/2	590.40	1/2	286.75	1/2		1/2		1/2		1/2		1/2	
3/4	1,480.00	3/4	1,177.83	3/4	878.92	3/4	584.07	3/4	280.42	3/4		3/4		3/4		3/4		3/4	
4	1,473.77	4	1,171.50	4	872.87	4	577.75	4	274.10	4		4		4		4		4	
1/4	1,467.55	1/4	1,165.18	1/4	866.83	1/4	571.42	1/4	267.77	1/4		1/4		1/4		1/4		1/4	
1/2	1,461.32	1/2	1,158.85	1/2	860.79	1/2	565.09	1/2	261.45	1/2		1/2		1/2		1/2		1/2	
3/4	1,455.09	3/4	1,152.52	3/4	854.75	3/4	558.77	3/4	255.12	3/4		3/4		3/4		3/4		3/4	
5	1,448.86	5	1,146.20	5	848.71	5	552.44	5	248.79	5		5		5		5		5	
1/4	1,442.64	1/4	1,139.87	1/4	842.66	1/4	546.12	1/4	242.47	1/4		1/4		1/4		1/4		1/4	
1/2	1,436.41	1/2	1,133.54	1/2	836.62	1/2	539.79	1/2	236.14	1/2		1/2		1/2		1/2		1/2	
3/4	1,430.18	3/4	1,127.22	3/4	830.58	3/4	533.46	3/4	229.82	3/4		3/4		3/4		3/4		3/4	
6	1,423.96	6	1,120.89	6	824.54	6	527.14	6	223.49	6		6		6		6		6	
1/4	1,417.73	1/4	1,114.57	1/4	818.50	1/4	520.81	1/4	217.16	1/4		1/4		1/4		1/4		1/4	
1/2	1,411.50	1/2	1,108.24	1/2	812.45	1/2	514.49	1/2	210.84	1/2		1/2		1/2		1/2		1/2	
3/4	1,405.27	3/4	1,101.91	3/4	806.41	3/4	508.16	3/4	204.51	3/4		3/4		3/4		3/4		3/4	
7	1,399.05	7	1,095.59	7	800.37	7	501.83	7	198.19	7		7		7		7		7	
1/4	1,392.82	1/4	1,089.26	1/4	794.33	1/4	495.51	1/4	191.86	1/4		1/4		1/4		1/4		1/4	
1/2	1,386.59	1/2	1,082.94	1/2	788.29	1/2	489.18	1/2	185.53	1/2		1/2		1/2		1/2		1/2	
3/4	1,380.27	3/4	1,076.61	3/4	782.24	3/4	482.86	3/4	179.21	3/4		3/4		3/4		3/4		3/4	
8	1,373.94	8	1,070.28	8	776.20	8	476.53	8	172.88	8		8		8		8		8	
1/4	1,367.61	1/4	1,063.96	1/4	770.16	1/4	470.20	1/4	166.56	1/4		1/4		1/4		1/4		1/4	
1/2	1,361.29	1/2	1,057.63	1/2	764.12	1/2	463.88	1/2	160.23	1/2		1/2		1/2		1/2		1/2	
3/4	1,354.96	3/4	1,051.30	3/4	758.08	3/4	457.55	3/4	154.07	3/4		3/4		3/4		3/4		3/4	
9	1,348.64	9	1,044.98	9	752.03	9	451.23	9	147.92	9		9		9		9		9	
1/4	1,342.31	1/4	1,038.65	1/4	745.99	1/4	444.90	1/4	141.76	1/4		1/4		1/4		1/4		1/4	
1/2	1,335.98	1/2	1,032.33	1/2	739.95	1/2	438.57	1/2	135.61	1/2		1/2		1/2		1/2		1/2	
3/4	1,329.66	3/4	1,026.00	3/4	733.91	3/4	432.25	3/4	129.46	3/4		3/4		3/4		3/4		3/4	
10	1,323.33	10	1,019.67	10	727.87	10	425.92	10	123.30	10		10		10		10		10	
1/4	1,317.00	1/4	1,013.35	1/4	721.82	1/4	419.60	1/4	117.15	1/4		1/4		1/4		1/4		1/4	
1/2	1,310.68	1/2	1,007.02	1/2	715.78	1/2	413.27	1/2	111.00	1/2		1/2		1/2		1/2		1/2	
3/4	1,304.35	3/4	1,000.69	3/4	709.74	3/4	406.94	3/4	104.85	3/4		3/4		3/4		3/4		3/4	
11	1,298.03	11	994.37	11	703.70	11	400.62	11	98.71	11		11		11		11		11	
1/4	1,291.70	1/4	988.04	1/4	697.66	1/4	394.29	1/4	92.56	1/4		1/4		1/4		1/4		1/4	
1/2	1,285.37	1/2	981.72	1/2	691.61	1/2	387.97	1/2	86.42	1/2		1/2		1/2		1/2		1/2	
3/4	1,279.05	3/4	975.67	3/4	685.29	3/4	381.64	3/4	80.30	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 04/16/2015 CL
CALCULATED: 04/16/2015 CL
PRINTED: 04/17/2015 JS

CANCELS AND SUPERCEDES
ALL PRIOR TO 04/2015

PRECISION MEASUREMENT
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BARGE "MM 310"

2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-02 1/2"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0		0	4,017.42	0	3,713.77	0	3,410.12	0	3,106.47	0	2,802.81	0	2,499.15	0	2,195.49	0	1,891.84
1/4		1/4		1/4	4,011.09	1/4	3,707.44	1/4	3,403.80	1/4	3,100.14	1/4	2,796.48	1/4	2,492.83	1/4	2,189.17	1/4	1,885.51
1/2		1/2		1/2	4,303.70	1/2	3,701.12	1/2	3,397.47	1/2	3,093.82	1/2	2,790.16	1/2	2,486.50	1/2	2,182.84	1/2	1,879.18
3/4		3/4		3/4	4,298.07	3/4	3,998.44	3/4	3,694.79	3/4	3,391.14	3/4	3,087.49	3/4	2,783.83	3/4	2,480.17	3/4	2,176.52
1		1		1	4,292.44	1	3,992.11	1	3,688.47	1	3,384.82	1	3,081.16	1	2,777.51	1	2,473.85	1	2,170.19
1/4		1/4		1/4	4,286.81	1/4	3,985.79	1/4	3,682.14	1/4	3,378.49	1/4	3,074.84	1/4	2,771.18	1/4	2,467.52	1/4	2,163.86
1/2		1/2		1/2	4,281.18	1/2	3,979.46	1/2	3,675.81	1/2	3,372.17	1/2	3,068.51	1/2	2,764.85	1/2	2,461.20	1/2	2,157.54
3/4		3/4		3/4	4,274.95	3/4	3,973.14	3/4	3,669.49	3/4	3,365.84	3/4	3,062.18	3/4	2,758.53	3/4	2,454.87	3/4	2,151.21
2		2		2	4,268.72	2	3,966.81	2	3,663.16	2	3,359.51	2	3,055.86	2	2,752.20	2	2,448.54	2	2,144.89
1/4		1/4		1/4	4,262.48	1/4	3,960.48	1/4	3,656.84	1/4	3,353.19	1/4	3,049.53	1/4	2,745.87	1/4	2,442.22	1/4	2,138.56
1/2		1/2		1/2	4,256.25	1/2	3,954.16	1/2	3,650.51	1/2	3,346.86	1/2	3,043.21	1/2	2,739.55	1/2	2,435.89	1/2	2,132.23
3/4		3/4		3/4	4,250.00	3/4	3,947.83	3/4	3,644.18	3/4	3,340.54	3/4	3,036.88	3/4	2,733.22	3/4	2,429.56	3/4	2,125.91
3		3		3	4,243.74	3	3,941.51	3	3,637.86	3	3,334.21	3	3,030.55	3	2,726.90	3	2,423.24	3	2,119.58
1/4		1/4		1/4	4,237.49	1/4	3,935.18	1/4	3,631.53	1/4	3,327.88	1/4	3,024.23	1/4	2,720.57	1/4	2,416.91	1/4	2,113.25
1/2		1/2		1/2	4,231.23	1/2	3,928.85	1/2	3,625.21	1/2	3,321.56	1/2	3,017.90	1/2	2,714.24	1/2	2,410.59	1/2	2,106.93
3/4		3/4		3/4	4,224.97	3/4	3,922.53	3/4	3,618.88	3/4	3,315.23	3/4	3,011.57	3/4	2,707.92	3/4	2,404.26	3/4	2,100.60
4		4		4	4,218.71	4	3,916.20	4	3,612.55	4	3,308.91	4	3,005.25	4	2,701.59	4	2,397.93	4	2,094.28
1/4		1/4		1/4	4,212.45	1/4	3,909.88	1/4	3,606.23	1/4	3,302.58	1/4	2,998.92	1/4	2,695.26	1/4	2,391.61	1/4	2,087.95
1/2		1/2		1/2	4,206.19	1/2	3,903.55	1/2	3,599.90	1/2	3,296.25	1/2	2,992.60	1/2	2,688.94	1/2	2,385.28	1/2	2,081.62
3/4		3/4		3/4	4,199.93	3/4	3,897.22	3/4	3,593.58	3/4	3,289.93	3/4	2,986.27	3/4	2,682.61	3/4	2,378.95	3/4	2,075.30
5		5		5	4,193.66	5	3,890.90	5	3,587.25	5	3,283.60	5	2,979.94	5	2,676.29	5	2,372.63	5	2,068.97
1/4		1/4		1/4	4,187.40	1/4	3,884.57	1/4	3,580.92	1/4	3,277.28	1/4	2,973.62	1/4	2,669.96	1/4	2,366.30	1/4	2,062.64
1/2		1/2		1/2	4,181.14	1/2	3,878.25	1/2	3,574.60	1/2	3,270.95	1/2	2,967.29	1/2	2,663.63	1/2	2,359.98	1/2	2,056.32
3/4		3/4		3/4	4,174.87	3/4	3,871.92	3/4	3,568.27	3/4	3,264.62	3/4	2,960.97	3/4	2,657.31	3/4	2,353.65	3/4	2,049.99
6		6		6	4,168.61	6	3,865.59	6	3,561.95	6	3,258.30	6	2,954.64	6	2,650.98	6	2,347.32	6	2,043.67
1/4		1/4		1/4	4,162.35	1/4	3,859.27	1/4	3,555.62	1/4	3,251.97	1/4	2,948.31	1/4	2,644.66	1/4	2,341.00	1/4	2,037.34
1/2		1/2		1/2	4,156.08	1/2	3,852.94	1/2	3,549.29	1/2	3,245.64	1/2	2,941.99	1/2	2,638.33	1/2	2,334.67	1/2	2,031.01
3/4		3/4		3/4	4,149.82	3/4	3,846.62	3/4	3,542.97	3/4	3,239.32	3/4	2,935.66	3/4	2,632.00	3/4	2,328.35	3/4	2,024.69
7		7		7	4,143.56	7	3,840.29	7	3,536.64	7	3,232.99	7	2,929.33	7	2,625.68	7	2,322.02	7	2,018.36
1/4		1/4		1/4	4,137.30	1/4	3,833.96	1/4	3,530.32	1/4	3,226.67	1/4	2,923.01	1/4	2,619.35	1/4	2,315.69	1/4	2,012.04
1/2		1/2		1/2	4,131.03	1/2	3,827.64	1/2	3,523.99	1/2	3,220.34	1/2	2,916.68	1/2	2,613.02	1/2	2,309.37	1/2	2,005.71
3/4		3/4		3/4	4,124.77	3/4	3,821.31	3/4	3,517.66	3/4	3,214.01	3/4	2,910.36	3/4	2,606.70	3/4	2,303.04	3/4	1,999.38
8		8		8	4,118.51	8	3,814.99	8	3,511.34	8	3,207.69	8	2,904.03	8	2,600.37	8	2,296.71	8	1,993.06
1/4		1/4		1/4	4,112.24	1/4	3,808.66	1/4	3,505.01	1/4	3,201.36	1/4	2,897.70	1/4	2,594.05	1/4	2,290.39	1/4	1,986.73
1/2		1/2		1/2	4,105.98	1/2	3,802.33	1/2	3,498.69	1/2	3,195.03	1/2	2,891.38	1/2	2,587.72	1/2	2,284.06	1/2	1,980.40
3/4		3/4		3/4	4,099.66	3/4	3,796.01	3/4	3,492.36	3/4	3,188.71	3/4	2,885.05	3/4	2,581.39	3/4	2,277.74	3/4	1,974.08
9		9		9	4,093.33	9	3,789.68	9	3,486.03	9	3,182.38	9	2,878.72	9	2,575.07	9	2,271.41	9	1,967.75
1/4		1/4		1/4	4,087.00	1/4	3,783.36	1/4	3,479.71	1/4	3,176.06	1/4	2,872.40	1/4	2,568.74	1/4	2,265.08	1/4	1,961.43
1/2		1/2		1/2	4,080.68	1/2	3,777.03	1/2	3,473.38	1/2	3,169.73	1/2	2,866.07	1/2	2,562.41	1/2	2,258.76	1/2	1,955.10
3/4		3/4		3/4	4,074.35	3/4	3,770.70	3/4	3,467.06	3/4	3,163.40	3/4	2,859.75	3/4	2,556.09	3/4	2,252.43	3/4	1,948.77
10		10		10	4,068.03	10	3,764.38	10	3,460.73	10	3,157.08	10	2,853.42	10	2,549.76	10	2,246.10	10	1,942.45
1/4		1/4		1/4	4,061.70	1/4	3,758.05	1/4	3,454.40	1/4	3,150.75	1/4	2,847.09	1/4	2,543.44	1/4	2,239.78	1/4	1,936.12
1/2		1/2		1/2	4,055.37	1/2	3,751.73	1/2	3,448.08	1/2	3,144.42	1/2	2,840.77	1/2	2,537.11	1/2	2,233.45	1/2	1,929.79
3/4		3/4		3/4	4,049.05	3/4	3,745.40	3/4	3,441.75	3/4	3,138.10	3/4	2,834.44	3/4	2,530.78	3/4	2,227.13	3/4	1,923.47
11		11		11	4,042.72	11	3,739.07	11	3,435.43	11	3,131.77	11	2,828.11	11	2,524.46	11	2,220.80	11	1,917.14
1/4		1/4		1/4	4,036.40	1/4	3,732.75	1/4	3,429.10	1/4	3,125.45	1/4	2,821.79	1/4	2,518.13	1/4	2,214.47	1/4	1,910.82
1/2		1/2		1/2	4,030.07	1/2	3,726.42	1/2	3,422.77	1/2	3,119.12	1/2	2,815.46	1/2	2,511.80	1/2	2,208.15	1/2	1,904.49
3/4		3/4		3/4	4,023.74	3/4	3,720.10	3/4	3,416.45	3/4	3,112.79	3/4	2,809.14	3/4	2,505.48	3/4	2,201.82	3/4	1,898.16

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.

CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.

CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES.

GAUGE POINT: (HERMETIC - 2" VALVE) LOCATED 12'-09" OFF CENTERLINE AND 36'-03" FORWARD OF AFT BULKHEAD.

GAUGE POINT: (8" HATCH) LOCATED 12'-09" OFF CENTERLINE AND 37'-09" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
& ANALYSIS, INC.

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BARGE "MM 310"

2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-02 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	1,588.18	0	1,286.11	0	982.45	0	678.96	0	375.31	0	74.17	0		0		0		0	
1/4	1,581.85	1/4	1,279.78	1/4	976.13	1/4	672.63	1/4	368.98	1/4	68.05	1/4		1/4	1/4	1/4		1/4	
1/2	1,575.53	1/2	1,273.46	1/2	969.80	1/2	666.31	1/2	362.66	1/2	61.92	1/2		1/2	1/2	1/2		1/2	
3/4	1,569.20	3/4	1,267.13	3/4	963.47	3/4	659.98	3/4	356.33	3/4	56.40	3/4		3/4	3/4	3/4		3/4	
1	1,562.87	1	1,260.80	1	957.15	1	653.65	1	350.01	1	50.89	1		1	1	1		1	
1/4	1,556.55	1/4	1,254.48	1/4	950.82	1/4	647.33	1/4	343.68	1/4	45.37	1/4		1/4	1/4	1/4		1/4	
1/2	1,550.22	1/2	1,248.15	1/2	944.49	1/2	641.00	1/2	337.35	1/2	39.85	1/2		1/2	1/2	1/2		1/2	
3/4	1,543.90	3/4	1,241.83	3/4	938.17	3/4	634.68	3/4	331.03	3/4	35.59	3/4		3/4	3/4	3/4		3/4	
2	1,537.57	2	1,235.50	2	931.84	2	628.35	2	324.70	2	31.33	2		2	2	2		2	
1/4	1,531.24	1/4	1,229.17	1/4	925.52	1/4	622.02	1/4	318.38	1/4	27.08	1/4		1/4	1/4	1/4		1/4	
1/2	1,524.92	1/2	1,222.85	1/2	919.19	1/2	615.70	1/2	312.05	1/2	22.82	1/2		1/2	1/2	1/2		1/2	
3/4	1,518.59	3/4	1,216.52	3/4	912.86	3/4	609.37	3/4	305.72	3/4		3/4		3/4	3/4	3/4		3/4	
3	1,512.27	3	1,210.19	3	906.54	3	603.05	3	299.40	3		3		3	3	3		3	
1/4	1,505.94	1/4	1,203.87	1/4	900.21	1/4	596.72	1/4	293.07	1/4		1/4		1/4	1/4	1/4		1/4	
1/2	1,499.61	1/2	1,197.54	1/2	893.88	1/2	590.39	1/2	286.75	1/2		1/2		1/2	1/2	1/2		1/2	
3/4	1,493.39	3/4	1,191.22	3/4	887.56	3/4	584.07	3/4	280.42	3/4		3/4		3/4	3/4	3/4		3/4	
4	1,487.16	4	1,184.89	4	881.24	4	577.74	4	274.09	4		4		4	4	4		4	
1/4	1,480.93	1/4	1,178.56	1/4	874.92	1/4	571.42	1/4	267.77	1/4		1/4		1/4	1/4	1/4		1/4	
1/2	1,474.70	1/2	1,172.24	1/2	868.60	1/2	565.09	1/2	261.44	1/2		1/2		1/2	1/2	1/2		1/2	
3/4	1,468.48	3/4	1,165.91	3/4	862.28	3/4	558.76	3/4	255.12	3/4		3/4		3/4	3/4	3/4		3/4	
5	1,462.25	5	1,159.59	5	855.96	5	552.44	5	248.79	5		5		5	5	5		5	
1/4	1,456.02	1/4	1,153.26	1/4	849.64	1/4	546.11	1/4	242.46	1/4		1/4		1/4	1/4	1/4		1/4	
1/2	1,449.80	1/2	1,146.93	1/2	843.32	1/2	539.79	1/2	236.14	1/2		1/2		1/2	1/2	1/2		1/2	
3/4	1,443.57	3/4	1,140.61	3/4	836.99	3/4	533.46	3/4	229.81	3/4		3/4		3/4	3/4	3/4		3/4	
6	1,437.34	6	1,134.28	6	830.67	6	527.13	6	223.49	6		6		6	6	6		6	
1/4	1,431.12	1/4	1,127.95	1/4	824.35	1/4	520.81	1/4	217.16	1/4		1/4		1/4	1/4	1/4		1/4	
1/2	1,424.89	1/2	1,121.63	1/2	818.03	1/2	514.48	1/2	210.83	1/2		1/2		1/2	1/2	1/2		1/2	
3/4	1,418.66	3/4	1,115.30	3/4	811.71	3/4	508.16	3/4	204.51	3/4		3/4		3/4	3/4	3/4		3/4	
7	1,412.43	7	1,108.98	7	805.39	7	501.83	7	198.18	7		7		7	7	7		7	
1/4	1,406.21	1/4	1,102.65	1/4	799.07	1/4	495.50	1/4	191.86	1/4		1/4		1/4	1/4	1/4		1/4	
1/2	1,399.98	1/2	1,096.32	1/2	792.75	1/2	489.18	1/2	185.53	1/2		1/2		1/2	1/2	1/2		1/2	
3/4	1,393.65	3/4	1,090.00	3/4	786.43	3/4	482.85	3/4	179.20	3/4		3/4		3/4	3/4	3/4		3/4	
8	1,387.33	8	1,083.67	8	780.11	8	476.53	8	172.88	8		8		8	8	8		8	
1/4	1,381.00	1/4	1,077.34	1/4	773.78	1/4	470.20	1/4	166.55	1/4		1/4		1/4	1/4	1/4		1/4	
1/2	1,374.68	1/2	1,071.02	1/2	767.46	1/2	463.87	1/2	160.23	1/2		1/2		1/2	1/2	1/2		1/2	
3/4	1,368.35	3/4	1,064.69	3/4	761.14	3/4	457.55	3/4	154.07	3/4		3/4		3/4	3/4	3/4		3/4	
9	1,362.02	9	1,058.37	9	754.82	9	451.22	9	147.92	9		9		9	9	9		9	
1/4	1,355.70	1/4	1,052.04	1/4	748.50	1/4	444.90	1/4	141.76	1/4		1/4		1/4	1/4	1/4		1/4	
1/2	1,349.37	1/2	1,045.71	1/2	742.18	1/2	438.57	1/2	135.61	1/2		1/2		1/2	1/2	1/2		1/2	
3/4	1,343.05	3/4	1,039.39	3/4	735.86	3/4	432.24	3/4	129.45	3/4		3/4		3/4	3/4	3/4		3/4	
10	1,336.72	10	1,033.06	10	729.54	10	425.92	10	123.30	10		10		10	10	10		10	
1/4	1,330.39	1/4	1,026.74	1/4	723.22	1/4	419.59	1/4	117.15	1/4		1/4		1/4	1/4	1/4		1/4	
1/2	1,324.07	1/2	1,020.41	1/2	716.89	1/2	413.27	1/2	111.00	1/2		1/2		1/2	1/2	1/2		1/2	
3/4	1,317.74	3/4	1,014.08	3/4	710.57	3/4	406.94	3/4	104.85	3/4		3/4		3/4	3/4	3/4		3/4	
11	1,311.41	11	1,007.76	11	704.25	11	400.61	11	98.71	11		11		11	11	11		11	
1/4	1,305.09	1/4	1,001.43	1/4	697.93	1/4	394.29	1/4	92.56	1/4		1/4		1/4	1/4	1/4		1/4	
1/2	1,298.76	1/2	995.10	1/2	691.61	1/2	387.96	1/2	86.42	1/2		1/2		1/2	1/2	1/2		1/2	
3/4	1,292.44	3/4	988.78	3/4	685.28	3/4	381.64	3/4	80.29	3/4		3/4		3/4	3/4	3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 04/16/2015 CL
CALCULATED: 04/16/2015 CL
PRINTED: 04/17/2015 JS

CANCELS AND SUPERCEDES
ALL PRIOR TO 04/2015

PRECISION MEASUREMENT
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BARGE "MM 310"

3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-02 1/2"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0		0	4,004.60	0	3,700.91	0	3,397.22	0	3,093.52	0	2,789.82	0	2,486.12	0	2,182.42	0	1,878.72
1/4		1/4		1/4	3,998.27	1/4	3,694.58	1/4	3,390.89	1/4	3,087.19	1/4	2,783.49	1/4	2,479.79	1/4	2,176.09	1/4	1,872.39
1/2		1/2		1/2	4,290.93	1/2	3,991.95	1/2	3,688.25	1/2	3,384.56	1/2	3,080.87	1/2	2,777.16	1/2	2,473.46	1/2	1,866.06
3/4		3/4		3/4	4,285.30	3/4	3,985.62	3/4	3,681.93	3/4	3,378.24	3/4	3,074.54	3/4	2,770.84	3/4	2,467.14	3/4	1,859.74
1		1		1	4,279.67	1	3,979.29	1	3,675.60	1	3,371.91	1	3,068.21	1	2,764.51	1	2,460.81	1	1,853.41
1/4		1/4		1/4	4,274.04	1/4	3,972.96	1/4	3,669.27	1/4	3,365.58	1/4	3,061.88	1/4	2,758.18	1/4	2,454.48	1/4	1,847.08
1/2		1/2		1/2	4,268.41	1/2	3,966.64	1/2	3,662.95	1/2	3,359.26	1/2	3,055.56	1/2	2,751.86	1/2	2,448.16	1/2	1,840.75
3/4		3/4		3/4	4,262.18	3/4	3,960.31	3/4	3,656.62	3/4	3,352.93	3/4	3,049.23	3/4	2,745.53	3/4	2,441.83	3/4	1,834.43
2		2		2	4,255.94	2	3,953.98	2	3,650.29	2	3,346.60	2	3,042.90	2	2,739.20	2	2,435.50	2	1,828.10
1/4		1/4		1/4	4,249.71	1/4	3,947.66	1/4	3,643.97	1/4	3,340.27	1/4	3,036.58	1/4	2,732.88	1/4	2,429.17	1/4	1,821.77
1/2		1/2		1/2	4,243.47	1/2	3,941.33	1/2	3,637.64	1/2	3,333.95	1/2	3,030.25	1/2	2,726.55	1/2	2,422.85	1/2	1,815.45
3/4		3/4		3/4	4,237.22	3/4	3,935.00	3/4	3,631.31	3/4	3,327.62	3/4	3,023.92	3/4	2,720.22	3/4	2,416.52	3/4	1,809.12
3		3		3	4,230.96	3	3,928.68	3	3,624.99	3	3,321.29	3	3,017.59	3	2,713.89	3	2,410.19	3	1,802.79
1/4		1/4		1/4	4,224.71	1/4	3,922.35	1/4	3,618.66	1/4	3,314.97	1/4	3,011.27	1/4	2,707.57	1/4	2,403.87	1/4	1,796.46
1/2		1/2		1/2	4,218.45	1/2	3,916.02	1/2	3,612.33	1/2	3,308.64	1/2	3,004.94	1/2	2,701.24	1/2	2,397.54	1/2	1,790.14
3/4		3/4		3/4	4,212.19	3/4	3,909.70	3/4	3,606.00	3/4	3,302.31	3/4	2,998.61	3/4	2,694.91	3/4	2,391.21	3/4	1,783.81
4		4		4	4,205.92	4	3,903.37	4	3,599.68	4	3,295.99	4	2,992.29	4	2,688.59	4	2,384.88	4	1,777.48
1/4		1/4		1/4	4,199.66	1/4	3,897.04	1/4	3,593.35	1/4	3,289.66	1/4	2,985.96	1/4	2,682.26	1/4	2,378.56	1/4	1,771.16
1/2		1/2		1/2	4,193.40	1/2	3,890.72	1/2	3,587.02	1/2	3,283.33	1/2	2,979.63	1/2	2,675.93	1/2	2,372.23	1/2	1,764.83
3/4		3/4		3/4	4,187.13	3/4	3,884.39	3/4	3,580.70	3/4	3,277.01	3/4	2,973.30	3/4	2,669.60	3/4	2,365.90	3/4	1,758.50
5		5		5	4,180.87	5	3,878.06	5	3,574.37	5	3,270.68	5	2,966.98	5	2,663.28	5	2,359.58	5	1,752.17
1/4		1/4		1/4	4,174.61	1/4	3,871.73	1/4	3,568.04	1/4	3,264.35	1/4	2,960.65	1/4	2,656.95	1/4	2,353.25	1/4	1,745.85
1/2		1/2		1/2	4,168.34	1/2	3,865.41	1/2	3,561.72	1/2	3,258.02	1/2	2,954.32	1/2	2,650.62	1/2	2,346.92	1/2	1,739.52
3/4		3/4		3/4	4,162.08	3/4	3,859.08	3/4	3,555.39	3/4	3,251.70	3/4	2,948.00	3/4	2,644.30	3/4	2,340.59	3/4	1,733.19
6		6		6	4,155.81	6	3,852.75	6	3,549.06	6	3,245.37	6	2,941.67	6	2,637.97	6	2,334.27	6	1,726.87
1/4		1/4		1/4	4,149.55	1/4	3,846.43	1/4	3,542.74	1/4	3,239.04	1/4	2,935.34	1/4	2,631.64	1/4	2,327.94	1/4	1,720.54
1/2		1/2		1/2	4,143.29	1/2	3,840.10	1/2	3,536.41	1/2	3,232.72	1/2	2,929.02	1/2	2,625.31	1/2	2,321.61	1/2	1,714.21
3/4		3/4		3/4	4,137.02	3/4	3,833.77	3/4	3,530.08	3/4	3,226.39	3/4	2,922.69	3/4	2,618.99	3/4	2,315.29	3/4	1,707.88
7		7		7	4,130.76	7	3,827.45	7	3,523.76	7	3,220.06	7	2,916.36	7	2,612.66	7	2,308.96	7	1,701.56
1/4		1/4		1/4	4,124.50	1/4	3,821.12	1/4	3,517.43	1/4	3,213.73	1/4	2,910.03	1/4	2,606.33	1/4	2,302.63	1/4	1,695.23
1/2		1/2		1/2	4,118.23	1/2	3,814.79	1/2	3,511.10	1/2	3,207.41	1/2	2,903.71	1/2	2,600.01	1/2	2,296.31	1/2	1,688.90
3/4		3/4		3/4	4,111.97	3/4	3,808.47	3/4	3,504.77	3/4	3,201.08	3/4	2,897.38	3/4	2,593.68	3/4	2,289.98	3/4	1,682.58
8		8		8	4,105.70	8	3,802.14	8	3,498.45	8	3,194.75	8	2,891.05	8	2,587.35	8	2,283.65	8	1,676.25
1/4		1/4		1/4	4,099.44	1/4	3,795.81	1/4	3,492.12	1/4	3,188.43	1/4	2,884.73	1/4	2,581.02	1/4	2,277.32	1/4	1,669.92
1/2		1/2		1/2	4,093.18	1/2	3,789.48	1/2	3,485.79	1/2	3,182.10	1/2	2,878.40	1/2	2,574.70	1/2	2,271.00	1/2	1,663.60
3/4		3/4		3/4	4,086.85	3/4	3,783.16	3/4	3,479.47	3/4	3,175.77	3/4	2,872.07	3/4	2,568.37	3/4	2,264.67	3/4	1,657.27
9		9		9	4,080.52	9	3,776.83	9	3,473.14	9	3,169.45	9	2,865.74	9	2,562.04	9	2,258.34	9	1,650.94
1/4		1/4		1/4	4,074.20	1/4	3,770.50	1/4	3,466.81	1/4	3,163.12	1/4	2,859.42	1/4	2,555.72	1/4	2,252.02	1/4	1,644.61
1/2		1/2		1/2	4,067.87	1/2	3,764.18	1/2	3,460.49	1/2	3,156.79	1/2	2,853.09	1/2	2,549.39	1/2	2,245.69	1/2	1,638.29
3/4		3/4		3/4	4,061.54	3/4	3,757.85	3/4	3,454.16	3/4	3,150.46	3/4	2,846.76	3/4	2,543.06	3/4	2,239.36	3/4	1,631.96
10		10		10	4,055.21	10	3,751.52	10	3,447.83	10	3,144.14	10	2,840.44	10	2,536.74	10	2,233.03	10	1,625.63
1/4		1/4		1/4	4,048.89	1/4	3,745.20	1/4	3,441.51	1/4	3,137.81	1/4	2,834.11	1/4	2,530.41	1/4	2,226.71	1/4	1,619.31
1/2		1/2		1/2	4,042.56	1/2	3,738.87	1/2	3,435.18	1/2	3,131.48	1/2	2,827.78	1/2	2,524.08	1/2	2,220.38	1/2	1,612.98
3/4		3/4		3/4	4,036.23	3/4	3,732.54	3/4	3,428.85	3/4	3,125.16	3/4	2,821.45	3/4	2,517.75	3/4	2,214.05	3/4	1,606.65
11		11		11	4,029.91	11	3,726.22	11	3,422.52	11	3,118.83	11	2,815.13	11	2,511.43	11	2,207.73	11	1,600.32
1/4		1/4		1/4	4,023.58	1/4	3,719.89	1/4	3,416.20	1/4	3,112.50	1/4	2,808.80	1/4	2,505.10	1/4	2,201.40	1/4	1,594.00
1/2		1/2		1/2	4,017.25	1/2	3,713.56	1/2	3,409.87	1/2	3,106.17	1/2	2,802.47	1/2	2,498.77	1/2	2,195.07	1/2	1,587.67
3/4		3/4		3/4	4,010.93	3/4	3,707.24	3/4	3,403.54	3/4	3,099.85	3/4	2,796.15	3/4	2,492.45	3/4	2,188.74	3/4	1,581.34

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.

CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.

CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES.

GAUGE POINT: (HERMETIC - 2" VALVE) LOCATED 12'-09" OFF CENTERLINE AND 36'-03" FORWARD OF AFT BULKHEAD.

GAUGE POINT: (8" HATCH) LOCATED 12'-09" OFF CENTERLINE AND 37'-09" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
& ANALYSIS, INC.

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BARGE "MM 310"

3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-02 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	1,575.02	0	1,272.90	0	969.76	0	679.06	0	375.37	0	74.18	0		0		0		0	
1/4	1,568.69	1/4	1,266.58	1/4	963.71	1/4	672.73	1/4	369.04	1/4	68.06	1/4		1/4		1/4		1/4	
1/2	1,562.36	1/2	1,260.25	1/2	957.66	1/2	666.40	1/2	362.71	1/2	61.94	1/2		1/2		1/2		1/2	
3/4	1,556.03	3/4	1,253.92	3/4	951.61	3/4	660.08	3/4	356.39	3/4	56.41	3/4		3/4		3/4		3/4	
1	1,549.71	1	1,247.59	1	945.57	1	653.75	1	350.06	1	50.89	1		1		1		1	
1/4	1,543.38	1/4	1,241.27	1/4	939.52	1/4	647.42	1/4	343.73	1/4	45.37	1/4		1/4		1/4		1/4	
1/2	1,537.05	1/2	1,234.94	1/2	933.47	1/2	641.10	1/2	337.41	1/2	39.85	1/2		1/2		1/2		1/2	
3/4	1,530.73	3/4	1,228.61	3/4	927.42	3/4	634.77	3/4	331.08	3/4	35.60	3/4		3/4		3/4		3/4	
2	1,524.40	2	1,222.29	2	921.37	2	628.44	2	324.75	2	31.34	2		2		2		2	
1/4	1,518.07	1/4	1,215.96	1/4	915.33	1/4	622.12	1/4	318.42	1/4	27.08	1/4		1/4		1/4		1/4	
1/2	1,511.74	1/2	1,209.63	1/2	909.28	1/2	615.79	1/2	312.10	1/2	22.82	1/2		1/2		1/2		1/2	
3/4	1,505.42	3/4	1,203.30	3/4	903.23	3/4	609.46	3/4	305.77	3/4		3/4		3/4		3/4		3/4	
3	1,499.09	3	1,196.98	3	897.18	3	603.14	3	299.44	3		3		3		3		3	
1/4	1,492.76	1/4	1,190.65	1/4	891.13	1/4	596.81	1/4	293.12	1/4		1/4		1/4		1/4		1/4	
1/2	1,486.44	1/2	1,184.32	1/2	885.08	1/2	590.48	1/2	286.79	1/2		1/2		1/2		1/2		1/2	
3/4	1,480.21	3/4	1,178.00	3/4	879.04	3/4	584.15	3/4	280.46	3/4		3/4		3/4		3/4		3/4	
4	1,473.98	4	1,171.67	4	873.00	4	577.83	4	274.14	4		4		4		4		4	
1/4	1,467.75	1/4	1,165.34	1/4	866.96	1/4	571.50	1/4	267.81	1/4		1/4		1/4		1/4		1/4	
1/2	1,461.52	1/2	1,159.01	1/2	860.91	1/2	565.17	1/2	261.48	1/2		1/2		1/2		1/2		1/2	
3/4	1,455.30	3/4	1,152.69	3/4	854.87	3/4	558.85	3/4	255.16	3/4		3/4		3/4		3/4		3/4	
5	1,449.07	5	1,146.36	5	848.83	5	552.52	5	248.83	5		5		5		5		5	
1/4	1,442.84	1/4	1,140.03	1/4	842.78	1/4	546.19	1/4	242.50	1/4		1/4		1/4		1/4		1/4	
1/2	1,436.61	1/2	1,133.71	1/2	836.74	1/2	539.87	1/2	236.17	1/2		1/2		1/2		1/2		1/2	
3/4	1,430.39	3/4	1,127.38	3/4	830.70	3/4	533.54	3/4	229.85	3/4		3/4		3/4		3/4		3/4	
6	1,424.16	6	1,121.05	6	824.66	6	527.21	6	223.52	6		6		6		6		6	
1/4	1,417.93	1/4	1,114.72	1/4	818.61	1/4	520.89	1/4	217.19	1/4		1/4		1/4		1/4		1/4	
1/2	1,411.70	1/2	1,108.40	1/2	812.57	1/2	514.56	1/2	210.87	1/2		1/2		1/2		1/2		1/2	
3/4	1,405.47	3/4	1,102.07	3/4	806.53	3/4	508.23	3/4	204.54	3/4		3/4		3/4		3/4		3/4	
7	1,399.25	7	1,095.74	7	800.48	7	501.90	7	198.21	7		7		7		7		7	
1/4	1,393.02	1/4	1,089.42	1/4	794.44	1/4	495.58	1/4	191.89	1/4		1/4		1/4		1/4		1/4	
1/2	1,386.79	1/2	1,083.09	1/2	788.40	1/2	489.25	1/2	185.56	1/2		1/2		1/2		1/2		1/2	
3/4	1,380.46	3/4	1,076.76	3/4	782.36	3/4	482.92	3/4	179.23	3/4		3/4		3/4		3/4		3/4	
8	1,374.14	8	1,070.44	8	776.31	8	476.60	8	172.91	8		8		8		8		8	
1/4	1,367.81	1/4	1,064.11	1/4	770.27	1/4	470.27	1/4	166.58	1/4		1/4		1/4		1/4		1/4	
1/2	1,361.48	1/2	1,057.78	1/2	764.23	1/2	463.94	1/2	160.25	1/2		1/2		1/2		1/2		1/2	
3/4	1,355.15	3/4	1,051.45	3/4	758.18	3/4	457.62	3/4	154.10	3/4		3/4		3/4		3/4		3/4	
9	1,348.83	9	1,045.13	9	752.14	9	451.29	9	147.94	9		9		9		9		9	
1/4	1,342.50	1/4	1,038.80	1/4	746.10	1/4	444.96	1/4	141.78	1/4		1/4		1/4		1/4		1/4	
1/2	1,336.17	1/2	1,032.47	1/2	740.05	1/2	438.64	1/2	135.63	1/2		1/2		1/2		1/2		1/2	
3/4	1,329.85	3/4	1,026.15	3/4	734.01	3/4	432.31	3/4	129.47	3/4		3/4		3/4		3/4		3/4	
10	1,323.52	10	1,019.82	10	727.97	10	425.98	10	123.32	10		10		10		10		10	
1/4	1,317.19	1/4	1,013.49	1/4	721.93	1/4	419.65	1/4	117.17	1/4		1/4		1/4		1/4		1/4	
1/2	1,310.86	1/2	1,007.16	1/2	715.88	1/2	413.33	1/2	111.01	1/2		1/2		1/2		1/2		1/2	
3/4	1,304.54	3/4	1,000.84	3/4	709.84	3/4	407.00	3/4	104.87	3/4		3/4		3/4		3/4		3/4	
11	1,298.21	11	994.51	11	703.80	11	400.67	11	98.72	11		11		11		11		11	
1/4	1,291.88	1/4	988.18	1/4	697.75	1/4	394.35	1/4	92.58	1/4		1/4		1/4		1/4		1/4	
1/2	1,285.56	1/2	981.86	1/2	691.71	1/2	388.02	1/2	86.43	1/2		1/2		1/2		1/2		1/2	
3/4	1,279.23	3/4	975.81	3/4	685.38	3/4	381.69	3/4	80.31	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 04/16/2015 CL
CALCULATED: 04/16/2015 CL
PRINTED: 04/17/2015 JS

CANCELS AND SUPERCEDES
ALL PRIOR TO 04/2015

PRECISION MEASUREMENT
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<http://www.pmacorp.net>



BARGE "MM 310"

3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-02"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0	4,300.02	0	4,001.33	0	3,697.95	0	3,394.57	0	3,091.17	0	2,787.77	0	2,484.37	0	2,180.98	0	1,877.58
1/4		1/4	4,294.40	1/4	3,995.01	1/4	3,691.63	1/4	3,388.24	1/4	3,084.85	1/4	2,781.45	1/4	2,478.05	1/4	2,174.66	1/4	1,871.26
1/2		1/2	4,288.77	1/2	3,988.69	1/2	3,685.31	1/2	3,381.92	1/2	3,078.53	1/2	2,775.13	1/2	2,471.73	1/2	2,168.33	1/2	1,864.94
3/4		3/4	4,283.15	3/4	3,982.37	3/4	3,678.99	3/4	3,375.60	3/4	3,072.21	3/4	2,768.81	3/4	2,465.41	3/4	2,162.01	3/4	1,858.62
1		1	4,277.52	1	3,976.05	1	3,672.67	1	3,369.28	1	3,065.89	1	2,762.49	1	2,459.09	1	2,155.69	1	1,852.29
1/4		1/4	4,271.29	1/4	3,969.73	1/4	3,666.35	1/4	3,362.96	1/4	3,059.57	1/4	2,756.17	1/4	2,452.77	1/4	2,149.37	1/4	1,845.97
1/2		1/2	4,265.07	1/2	3,963.41	1/2	3,660.03	1/2	3,356.64	1/2	3,053.25	1/2	2,749.85	1/2	2,446.45	1/2	2,143.05	1/2	1,839.65
3/4		3/4	4,258.84	3/4	3,957.09	3/4	3,653.71	3/4	3,350.32	3/4	3,046.93	3/4	2,743.53	3/4	2,440.13	3/4	2,136.73	3/4	1,833.33
2		2	4,252.61	2	3,950.77	2	3,647.39	2	3,344.00	2	3,040.61	2	2,737.21	2	2,433.81	2	2,130.41	2	1,827.01
1/4		1/4	4,246.36	1/4	3,944.45	1/4	3,641.06	1/4	3,337.68	1/4	3,034.28	1/4	2,730.89	1/4	2,427.49	1/4	2,124.09	1/4	1,820.69
1/2		1/2	4,240.11	1/2	3,938.13	1/2	3,634.74	1/2	3,331.36	1/2	3,027.96	1/2	2,724.57	1/2	2,421.17	1/2	2,117.77	1/2	1,814.37
3/4		3/4	4,233.87	3/4	3,931.81	3/4	3,628.42	3/4	3,325.04	3/4	3,021.64	3/4	2,718.24	3/4	2,414.85	3/4	2,111.45	3/4	1,808.05
3		3	4,227.62	3	3,925.49	3	3,622.10	3	3,318.72	3	3,015.32	3	2,711.92	3	2,408.53	3	2,105.13	3	1,801.73
1/4		1/4	4,221.36	1/4	3,919.17	1/4	3,615.78	1/4	3,312.40	1/4	3,009.00	1/4	2,705.60	1/4	2,402.20	1/4	2,098.81	1/4	1,795.41
1/2		1/2	4,215.10	1/2	3,912.85	1/2	3,609.46	1/2	3,306.08	1/2	3,002.68	1/2	2,699.28	1/2	2,395.88	1/2	2,092.49	1/2	1,789.09
3/4		3/4	4,208.84	3/4	3,906.53	3/4	3,603.14	3/4	3,299.76	3/4	2,996.36	3/4	2,692.96	3/4	2,389.56	3/4	2,086.16	3/4	1,782.77
4		4	4,202.58	4	3,900.21	4	3,596.82	4	3,293.44	4	2,990.04	4	2,686.64	4	2,383.24	4	2,079.84	4	1,776.45
1/4		1/4	4,196.32	1/4	3,893.88	1/4	3,590.50	1/4	3,287.12	1/4	2,983.72	1/4	2,680.32	1/4	2,376.92	1/4	2,073.52	1/4	1,770.12
1/2		1/2	4,190.07	1/2	3,887.56	1/2	3,584.18	1/2	3,280.80	1/2	2,977.40	1/2	2,674.00	1/2	2,370.60	1/2	2,067.20	1/2	1,763.80
3/4		3/4	4,183.81	3/4	3,881.24	3/4	3,577.86	3/4	3,274.47	3/4	2,971.08	3/4	2,667.68	3/4	2,364.28	3/4	2,060.88	3/4	1,757.48
5		5	4,177.55	5	3,874.92	5	3,571.54	5	3,268.15	5	2,964.76	5	2,661.36	5	2,357.96	5	2,054.56	5	1,751.16
1/4		1/4	4,171.29	1/4	3,868.60	1/4	3,565.22	1/4	3,261.83	1/4	2,958.43	1/4	2,655.04	1/4	2,351.64	1/4	2,048.24	1/4	1,744.84
1/2		1/2	4,165.04	1/2	3,862.28	1/2	3,558.90	1/2	3,255.51	1/2	2,952.11	1/2	2,648.72	1/2	2,345.32	1/2	2,041.92	1/2	1,738.52
3/4		3/4	4,158.78	3/4	3,855.96	3/4	3,552.58	3/4	3,249.19	3/4	2,945.79	3/4	2,642.39	3/4	2,339.00	3/4	2,035.60	3/4	1,732.20
6		6	4,152.52	6	3,849.64	6	3,546.26	6	3,242.87	6	2,939.47	6	2,636.07	6	2,332.68	6	2,029.28	6	1,725.88
1/4		1/4	4,146.26	1/4	3,843.32	1/4	3,539.94	1/4	3,236.55	1/4	2,933.15	1/4	2,629.75	1/4	2,326.35	1/4	2,022.96	1/4	1,719.56
1/2		1/2	4,140.01	1/2	3,837.00	1/2	3,533.62	1/2	3,230.23	1/2	2,926.83	1/2	2,623.43	1/2	2,320.03	1/2	2,016.64	1/2	1,713.24
3/4		3/4	4,133.75	3/4	3,830.68	3/4	3,527.30	3/4	3,223.91	3/4	2,920.51	3/4	2,617.11	3/4	2,313.71	3/4	2,010.31	3/4	1,706.92
7		7	4,127.49	7	3,824.36	7	3,520.98	7	3,217.59	7	2,914.19	7	2,610.79	7	2,307.39	7	2,003.99	7	1,700.60
1/4		1/4	4,121.23	1/4	3,818.04	1/4	3,514.65	1/4	3,211.27	1/4	2,907.87	1/4	2,604.47	1/4	2,301.07	1/4	1,997.67	1/4	1,694.27
1/2		1/2	4,114.98	1/2	3,811.72	1/2	3,508.33	1/2	3,204.95	1/2	2,901.55	1/2	2,598.15	1/2	2,294.75	1/2	1,991.35	1/2	1,687.95
3/4		3/4	4,108.72	3/4	3,805.40	3/4	3,502.01	3/4	3,198.63	3/4	2,895.23	3/4	2,591.83	3/4	2,288.43	3/4	1,985.03	3/4	1,681.63
8		8	4,102.46	8	3,799.08	8	3,495.69	8	3,192.30	8	2,888.91	8	2,585.51	8	2,282.11	8	1,978.71	8	1,675.31
1/4		1/4	4,096.14	1/4	3,792.76	1/4	3,489.37	1/4	3,185.98	1/4	2,882.59	1/4	2,579.19	1/4	2,275.79	1/4	1,972.39	1/4	1,668.99
1/2		1/2	4,089.82	1/2	3,786.44	1/2	3,483.05	1/2	3,179.66	1/2	2,876.26	1/2	2,572.87	1/2	2,269.47	1/2	1,966.07	1/2	1,662.67
3/4		3/4	4,083.50	3/4	3,780.12	3/4	3,476.73	3/4	3,173.34	3/4	2,869.94	3/4	2,566.55	3/4	2,263.15	3/4	1,959.75	3/4	1,656.35
9		9	4,077.18	9	3,773.80	9	3,470.41	9	3,167.02	9	2,863.62	9	2,560.22	9	2,256.83	9	1,953.43	9	1,650.03
1/4		1/4	4,070.86	1/4	3,767.47	1/4	3,464.09	1/4	3,160.70	1/4	2,857.30	1/4	2,553.90	1/4	2,250.51	1/4	1,947.11	1/4	1,643.71
1/2		1/2	4,064.54	1/2	3,761.15	1/2	3,457.77	1/2	3,154.38	1/2	2,850.98	1/2	2,547.58	1/2	2,244.18	1/2	1,940.79	1/2	1,637.39
3/4		3/4	4,058.22	3/4	3,754.83	3/4	3,451.45	3/4	3,148.06	3/4	2,844.66	3/4	2,541.26	3/4	2,237.86	3/4	1,934.47	3/4	1,631.07
10		10	4,051.90	10	3,748.51	10	3,445.13	10	3,141.74	10	2,838.34	10	2,534.94	10	2,231.54	10	1,928.14	10	1,624.75
1/4		1/4	4,045.58	1/4	3,742.19	1/4	3,438.81	1/4	3,135.42	1/4	2,832.02	1/4	2,528.62	1/4	2,225.22	1/4	1,921.82	1/4	1,618.43
1/2		1/2	4,039.26	1/2	3,735.87	1/2	3,432.49	1/2	3,129.10	1/2	2,825.70	1/2	2,522.30	1/2	2,218.90	1/2	1,915.50	1/2	1,612.10
3/4		3/4	4,032.94	3/4	3,729.55	3/4	3,426.17	3/4	3,122.78	3/4	2,819.38	3/4	2,515.98	3/4	2,212.58	3/4	1,909.18	3/4	1,605.78
11		11	4,026.62	11	3,723.23	11	3,419.85	11	3,116.45	11	2,813.06	11	2,509.66	11	2,206.26	11	1,902.86	11	1,599.46
1/4		1/4	4,020.29	1/4	3,716.91	1/4	3,413.53	1/4	3,110.13	1/4	2,806.74	1/4	2,503.34	1/4	2,199.94	1/4	1,896.54	1/4	1,593.14
1/2		1/2	4,013.97	1/2	3,710.59	1/2	3,407.21	1/2	3,103.81	1/2	2,800.41	1/2	2,497.02	1/2	2,193.62	1/2	1,890.22	1/2	1,586.82
3/4		3/4	4,007.65	3/4	3,704.27	3/4	3,400.89	3/4	3,097.49	3/4	2,794.09	3/4	2,490.70	3/4	2,187.30	3/4	1,883.90	3/4	1,580.50

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.

CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.

CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES.

GAUGE POINT: (HERMETIC - 2" VALVE) LOCATED 12'-09" OFF CENTERLINE AND 36'-03" FORWARD OF AFT BULKHEAD.

GAUGE POINT: (8" HATCH) LOCATED 12'-09" OFF CENTERLINE AND 37'-09" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
& ANALYSIS, INC.

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Pearland, Texas 77588
<http://www.pmacorp.net>



BARGE "MM 310"

3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-02"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	1,574.18	0	1,272.37	0	968.97	0	665.74	0	362.35	0	61.87	0		0		0		0	
1/4	1,567.86	1/4	1,266.05	1/4	962.65	1/4	659.42	1/4	356.03	1/4	56.36	1/4		1/4		1/4		1/4	
1/2	1,561.54	1/2	1,259.73	1/2	956.33	1/2	653.10	1/2	349.71	1/2	50.84	1/2		1/2		1/2		1/2	
3/4	1,555.22	3/4	1,253.41	3/4	950.01	3/4	646.78	3/4	343.39	3/4	45.33	3/4		3/4		3/4		3/4	
1	1,548.90	1	1,247.09	1	943.69	1	640.46	1	337.07	1	39.82	1		1		1		1	
1/4	1,542.58	1/4	1,240.76	1/4	937.37	1/4	634.14	1/4	330.75	1/4	35.56	1/4		1/4		1/4		1/4	
1/2	1,536.25	1/2	1,234.44	1/2	931.05	1/2	627.82	1/2	324.43	1/2	31.31	1/2		1/2		1/2		1/2	
3/4	1,529.93	3/4	1,228.12	3/4	924.72	3/4	621.49	3/4	318.11	3/4	27.06	3/4		3/4		3/4		3/4	
2	1,523.61	2	1,221.80	2	918.40	2	615.17	2	311.79	2	22.80	2		2		2		2	
1/4	1,517.29	1/4	1,215.48	1/4	912.08	1/4	608.85	1/4	305.46	1/4		1/4		1/4		1/4		1/4	
1/2	1,510.97	1/2	1,209.16	1/2	905.76	1/2	602.53	1/2	299.14	1/2		1/2		1/2		1/2		1/2	
3/4	1,504.65	3/4	1,202.84	3/4	899.44	3/4	596.21	3/4	292.82	3/4		3/4		3/4		3/4		3/4	
3	1,498.33	3	1,196.52	3	893.12	3	589.89	3	286.50	3		3		3		3		3	
1/4	1,492.11	1/4	1,190.20	1/4	886.80	1/4	583.57	1/4	280.18	1/4		1/4		1/4		1/4		1/4	
1/2	1,485.89	1/2	1,183.88	1/2	880.49	1/2	577.25	1/2	273.86	1/2		1/2		1/2		1/2		1/2	
3/4	1,479.67	3/4	1,177.56	3/4	874.17	3/4	570.93	3/4	267.54	3/4		3/4		3/4		3/4		3/4	
4	1,473.44	4	1,171.24	4	867.86	4	564.61	4	261.22	4		4		4		4		4	
1/4	1,467.22	1/4	1,164.91	1/4	861.54	1/4	558.29	1/4	254.90	1/4		1/4		1/4		1/4		1/4	
1/2	1,461.00	1/2	1,158.59	1/2	855.23	1/2	551.97	1/2	248.58	1/2		1/2		1/2		1/2		1/2	
3/4	1,454.78	3/4	1,152.27	3/4	848.91	3/4	545.65	3/4	242.26	3/4		3/4		3/4		3/4		3/4	
5	1,448.56	5	1,145.95	5	842.60	5	539.33	5	235.94	5		5		5		5		5	
1/4	1,442.34	1/4	1,139.63	1/4	836.28	1/4	533.01	1/4	229.62	1/4		1/4		1/4		1/4		1/4	
1/2	1,436.11	1/2	1,133.31	1/2	829.96	1/2	526.69	1/2	223.30	1/2		1/2		1/2		1/2		1/2	
3/4	1,429.89	3/4	1,126.99	3/4	823.65	3/4	520.37	3/4	216.98	3/4		3/4		3/4		3/4		3/4	
6	1,423.67	6	1,120.67	6	817.33	6	514.04	6	210.66	6		6		6		6		6	
1/4	1,417.45	1/4	1,114.35	1/4	811.02	1/4	507.72	1/4	204.34	1/4		1/4		1/4		1/4		1/4	
1/2	1,411.23	1/2	1,108.03	1/2	804.70	1/2	501.40	1/2	198.01	1/2		1/2		1/2		1/2		1/2	
3/4	1,405.01	3/4	1,101.71	3/4	798.39	3/4	495.08	3/4	191.69	3/4		3/4		3/4		3/4		3/4	
7	1,398.78	7	1,095.39	7	792.07	7	488.76	7	185.37	7		7		7		7		7	
1/4	1,392.46	1/4	1,089.07	1/4	785.76	1/4	482.44	1/4	179.05	1/4		1/4		1/4		1/4		1/4	
1/2	1,386.14	1/2	1,082.74	1/2	779.44	1/2	476.12	1/2	172.73	1/2		1/2		1/2		1/2		1/2	
3/4	1,379.82	3/4	1,076.42	3/4	773.12	3/4	469.80	3/4	166.41	3/4		3/4		3/4		3/4		3/4	
8	1,373.50	8	1,070.10	8	766.81	8	463.48	8	160.09	8		8		8		8		8	
1/4	1,367.18	1/4	1,063.78	1/4	760.49	1/4	457.16	1/4	153.94	1/4		1/4		1/4		1/4		1/4	
1/2	1,360.86	1/2	1,057.46	1/2	754.18	1/2	450.84	1/2	147.79	1/2		1/2		1/2		1/2		1/2	
3/4	1,354.54	3/4	1,051.14	3/4	747.86	3/4	444.52	3/4	141.64	3/4		3/4		3/4		3/4		3/4	
9	1,348.22	9	1,044.82	9	741.55	9	438.20	9	135.49	9		9		9		9		9	
1/4	1,341.90	1/4	1,038.50	1/4	735.23	1/4	431.88	1/4	129.34	1/4		1/4		1/4		1/4		1/4	
1/2	1,335.58	1/2	1,032.18	1/2	728.91	1/2	425.56	1/2	123.20	1/2		1/2		1/2		1/2		1/2	
3/4	1,329.26	3/4	1,025.86	3/4	722.60	3/4	419.24	3/4	117.05	3/4		3/4		3/4		3/4		3/4	
10	1,322.93	10	1,019.54	10	716.28	10	412.91	10	110.90	10		10		10		10		10	
1/4	1,316.61	1/4	1,013.22	1/4	709.97	1/4	406.59	1/4	104.76	1/4		1/4		1/4		1/4		1/4	
1/2	1,310.29	1/2	1,006.89	1/2	703.65	1/2	400.27	1/2	98.62	1/2		1/2		1/2		1/2		1/2	
3/4	1,303.97	3/4	1,000.57	3/4	697.34	3/4	393.95	3/4	92.49	3/4		3/4		3/4		3/4		3/4	
11	1,297.65	11	994.25	11	691.02	11	387.63	11	86.35	11		11		11		11		11	
1/4	1,291.33	1/4	987.93	1/4	684.70	1/4	381.31	1/4	80.23	1/4		1/4		1/4		1/4		1/4	
1/2	1,285.01	1/2	981.61	1/2	678.38	1/2	374.99	1/2	74.11	1/2		1/2		1/2		1/2		1/2	
3/4	1,278.69	3/4	975.29	3/4	672.06	3/4	368.67	3/4	67.99	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 04/16/2015 CL
CALCULATED: 04/16/2015 CL
PRINTED: 04/17/2015 JS

CANCELS AND SUPERCEDES
ALL PRIOR TO 04/2015

PRECISION MEASUREMENT
& ANALYSIS, INC.
P.O. Box 2092
Pearland, Texas 77588
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BARGE "MM 310"

4 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GUAGE HEIGHT 10'-08"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.		10 FT.	
IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT
0		0	2,099.79	0	1,885.71	0	1,668.31	0	1,450.91	0	1,233.11	0	1,016.68	0	799.79	0	587.25	0	373.09	0	154.90
1/4	1/4	1/4	2,095.75	1/4	1,881.18	1/4	1,663.78	1/4	1,446.39	1/4	1,228.57	1/4	1,012.25	1/4	795.25	1/4	582.91	1/4	368.55	1/4	150.36
1/2	1/2	1/2	2,091.70	1/2	1,876.65	1/2	1,659.25	1/2	1,441.86	1/2	1,224.03	1/2	1,007.82	1/2	790.72	1/2	578.56	1/2	364.00	1/2	145.81
3/4	3/4	3/4	2,087.66	3/4	1,872.12	3/4	1,654.72	3/4	1,437.33	3/4	1,219.49	3/4	1,003.38	3/4	786.18	3/4	574.22	3/4	359.46	3/4	141.27
1	1	1	2,083.62	1	1,867.59	1	1,650.19	1	1,432.80	1	1,214.94	1	998.95	1	781.64	1	569.88	1	354.91	1	136.72
1/4	1/4	1/4	2,079.15	1/4	1,863.06	1/4	1,645.67	1/4	1,428.27	1/4	1,210.40	1/4	994.45	1/4	777.11	1/4	565.54	1/4	350.36	1/4	132.18
1/2	1/2	1/2	2,074.69	1/2	1,858.53	1/2	1,641.14	1/2	1,423.74	1/2	1,205.86	1/2	989.95	1/2	772.57	1/2	561.19	1/2	345.82	1/2	127.63
3/4	3/4	3/4	2,070.23	3/4	1,854.00	3/4	1,636.61	3/4	1,419.21	3/4	1,201.32	3/4	985.45	3/4	768.03	3/4	556.85	3/4	341.27	3/4	123.09
2	2	2	2,065.77	2	1,849.47	2	1,632.08	2	1,414.68	2	1,196.78	2	980.95	2	763.50	2	552.51	2	336.73	2	118.55
1/4	1/4	1/4	2,061.29	1/4	1,844.95	1/4	1,627.55	1/4	1,410.15	1/4	1,192.23	1/4	976.45	1/4	758.96	1/4	548.17	1/4	332.18	1/4	114.01
1/2	1/2	1/2	2,056.81	1/2	1,840.42	1/2	1,623.02	1/2	1,405.62	1/2	1,187.69	1/2	971.95	1/2	754.42	1/2	543.82	1/2	327.63	1/2	109.48
3/4	3/4	3/4	2,052.34	3/4	1,835.89	3/4	1,618.49	3/4	1,401.09	3/4	1,183.15	3/4	967.46	3/4	749.89	3/4	539.48	3/4	323.09	3/4	104.94
3	3	3	2,047.86	3	1,831.36	3	1,613.96	3	1,396.56	3	1,178.61	3	962.96	3	745.35	3	535.14	3	318.54	3	100.41
1/4	1/4	1/4	2,043.37	1/4	1,826.83	1/4	1,609.43	1/4	1,392.04	1/4	1,174.07	1/4	958.46	1/4	740.81	1/4	530.79	1/4	314.00	1/4	95.88
1/2	1/2	1/2	2,038.89	1/2	1,822.30	1/2	1,604.90	1/2	1,387.51	1/2	1,169.53	1/2	953.96	1/2	736.28	1/2	526.45	1/2	309.45	1/2	91.34
3/4	3/4	3/4	2,034.41	3/4	1,817.77	3/4	1,600.37	3/4	1,382.98	3/4	1,164.98	3/4	949.46	3/4	731.74	3/4	522.10	3/4	304.91	3/4	86.81
4	4	4	2,029.92	4	1,813.24	4	1,595.85	4	1,378.45	4	1,160.44	4	944.96	4	727.20	4	517.76	4	300.36	4	82.28
1/4	1/4	1/4	2,025.44	1/4	1,808.71	1/4	1,591.32	1/4	1,373.91	1/4	1,155.91	1/4	940.42	1/4	722.67	1/4	513.41	1/4	295.81	1/4	77.75
1/2	1/2	1/2	2,020.95	1/2	1,804.18	1/2	1,586.79	1/2	1,369.36	1/2	1,151.37	1/2	935.89	1/2	718.13	1/2	509.07	1/2	291.27	1/2	73.22
3/4	3/4	3/4	2,016.47	3/4	1,799.65	3/4	1,582.26	3/4	1,364.82	3/4	1,146.84	3/4	931.35	3/4	713.59	3/4	504.72	3/4	286.72	3/4	68.69
5	5	5	2,011.98	5	1,795.13	5	1,577.73	5	1,360.28	5	1,142.30	5	926.81	5	709.06	5	500.38	5	282.18	5	64.17
1/4	1/4	1/4	2,007.50	1/4	1,790.60	1/4	1,573.20	1/4	1,355.74	1/4	1,137.77	1/4	922.28	1/4	704.69	1/4	495.83	1/4	277.63	1/4	59.65
1/2	1/2	1/2	2,003.02	1/2	1,786.07	1/2	1,568.67	1/2	1,351.20	1/2	1,133.23	1/2	917.74	1/2	700.33	1/2	491.28	1/2	273.09	1/2	55.14
3/4	3/4	3/4	1,998.53	3/4	1,781.54	3/4	1,564.14	3/4	1,346.66	3/4	1,128.70	3/4	913.20	3/4	695.97	3/4	486.74	3/4	268.54	3/4	50.63
6	6	6	1,994.05	6	1,777.01	6	1,559.61	6	1,342.11	6	1,124.16	6	908.67	6	691.60	6	482.19	6	263.99	6	46.12
1/4	1/4	1/4	1,989.56	1/4	1,772.48	1/4	1,555.08	1/4	1,337.57	1/4	1,119.63	1/4	904.13	1/4	687.24	1/4	477.65	1/4	259.45	1/4	42.04
1/2	1/2	1/2	1,985.08	1/2	1,767.95	1/2	1,550.55	1/2	1,333.03	1/2	1,115.10	1/2	899.59	1/2	682.87	1/2	473.10	1/2	254.90	1/2	37.96
3/4	3/4	3/4	1,980.59	3/4	1,763.42	3/4	1,546.03	3/4	1,328.49	3/4	1,110.56	3/4	895.06	3/4	678.51	3/4	468.55	3/4	250.36	3/4	33.89
7	7	7	1,976.11	7	1,758.89	7	1,541.50	7	1,323.95	7	1,106.03	7	890.52	7	674.15	7	464.01	7	245.81	7	29.81
1/4	1/4	1/4	1,971.63	1/4	1,754.36	1/4	1,536.97	1/4	1,319.41	1/4	1,101.49	1/4	885.99	1/4	669.80	1/4	459.46	1/4	241.26	1/4	26.63
1/2	1/2	1/2	1,967.14	1/2	1,749.83	1/2	1,532.44	1/2	1,314.86	1/2	1,096.96	1/2	881.45	1/2	665.45	1/2	454.92	1/2	236.72	1/2	23.45
3/4	3/4	3/4	1,962.66	3/4	1,745.31	3/4	1,527.91	3/4	1,310.32	3/4	1,092.42	3/4	876.91	3/4	661.10	3/4	450.37	3/4	232.17	3/4	20.27
8	8	8	1,958.17	8	1,740.78	8	1,523.38	8	1,305.78	8	1,087.89	8	872.38	8	656.75	8	445.83	8	227.63	8	17.09
1/4	1/4	1/4	1,953.64	1/4	1,736.25	1/4	1,518.85	1/4	1,301.24	1/4	1,083.39	1/4	867.84	1/4	652.41	1/4	441.28	1/4	223.08	1/4	
1/2	1/2	1/2	1,949.12	1/2	1,731.72	1/2	1,514.32	1/2	1,296.70	1/2	1,078.89	1/2	863.30	1/2	648.06	1/2	436.73	1/2	218.54	1/2	
3/4	3/4	3/4	1,944.59	3/4	1,727.19	3/4	1,509.79	3/4	1,292.15	3/4	1,074.39	3/4	858.77	3/4	643.71	3/4	432.19	3/4	213.99	3/4	
9	9	9	1,940.06	9	1,722.66	9	1,505.26	9	1,287.61	9	1,069.89	9	854.23	9	639.36	9	427.64	9	209.44	9	
1/4	1/4	1/4	1,935.53	1/4	1,718.13	1/4	1,500.73	1/4	1,283.07	1/4	1,065.46	1/4	849.69	1/4	635.02	1/4	423.10	1/4	204.90	1/4	
1/2	1/2	1/2	1,931.00	1/2	1,713.60	1/2	1,496.21	1/2	1,278.53	1/2	1,061.02	1/2	845.16	1/2	630.68	1/2	418.55	1/2	200.35	1/2	
3/4	3/4	3/4	1,926.47	3/4	1,709.07	3/4	1,491.68	3/4	1,273.99	3/4	1,056.59	3/4	840.62	3/4	626.33	3/4	414.01	3/4	195.81	3/4	
10	10	10	1,921.94	10	1,704.54	10	1,487.15	10	1,269.45	10	1,052.16	10	836.08	10	621.99	10	409.46	10	191.26	10	
1/4	1/4	1/4	1,917.41	1/4	1,700.01	1/4	1,482.62	1/4	1,264.90	1/4	1,047.72	1/4	831.55	1/4	617.65	1/4	404.91	1/4	186.72	1/4	
1/2	1/2	1/2	1,912.88	1/2	1,695.49	1/2	1,478.09	1/2	1,260.36	1/2	1,043.29	1/2	827.01	1/2	613.31	1/2	400.37	1/2	182.17	1/2	
3/4	3/4	3/4	1,908.35	3/4	1,690.96	3/4	1,473.56	3/4	1,255.82	3/4	1,038.85	3/4	822.47	3/4	608.96	3/4	395.82	3/4	177.62	3/4	
11	11	11	1,903.82	11	1,686.43	11	1,469.03	11	1,251.28	11	1,034.42	11	817.94	11	604.62	11	391.28	11	173.08	11	
1/4	1/4	1/4	1,899.30	1/4	1,681.90	1/4	1,464.50	1/4	1,246.74	1/4	1,029.99	1/4	813.40	1/4	600.28	1/4	386.73	1/4	168.53	1/4	
1/2	1/2	1/2	1,894.77	1/2	1,677.37	1/2	1,459.97	1/2	1,242.19	1/2	1,025.55	1/2	808.86	1/2	595.94	1/2	382.18	1/2	163.99	1/2	
3/4	3/4	3/4	2,102.92	3/4	1,890.24	3/4	1,672.84	3/4	1,455.44	3/4	1,237.65	3/4	804.33	3/4	591.59	3/4	377.64	3/4	159.44	3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES.
 GAUGE POINT: (HERMETIC - 2" VALVE) LOCATED 12'-09" OFF CENTERLINE AND 48'-09" FORWARD OF AFT BULKHEAD.
 GAUGE POINT: (8" HATCH) LOCATED 12'-09" OFF CENTERLINE AND 49'-09" FORWARD OF AFT BULKHEAD.

STRAPPED: 04/16/2015 CL
 CALCULATED: 04/16/2015 CL
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CANCELS AND SUPERCEDES
 ALL PRIOR TO 04/2015

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



BARGE "MM 310"

4 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 10'-07 3/4"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.		10 FT.	
IN		IN		IN		IN		IN		IN		IN		IN		IN		IN		IN	
0		0	2,116.54	0	1,900.90	0	1,682.37	0	1,463.84	0	1,244.89	0	1,026.58	0	807.62	0	588.87	0	370.12	0	150.97
1/4	1/4	1/4	2,112.49	1/4	1,896.35	1/4	1,677.82	1/4	1,459.29	1/4	1,240.32	1/4	1,022.08	1/4	803.05	1/4	584.32	1/4	365.55	1/4	146.40
1/2	1/2	1/2	2,108.44	1/2	1,891.80	1/2	1,673.27	1/2	1,454.74	1/2	1,235.76	1/2	1,017.58	1/2	798.49	1/2	579.78	1/2	360.99	1/2	141.83
3/4	3/4	3/4	2,104.39	3/4	1,887.24	3/4	1,668.71	3/4	1,450.18	3/4	1,231.19	3/4	1,013.08	3/4	793.92	3/4	575.24	3/4	356.42	3/4	137.27
1	1	1	2,099.91	1	1,882.69	1	1,664.16	1	1,445.63	1	1,226.63	1	1,008.52	1	789.36	1	570.69	1	351.86	1	132.70
1/4	1/4	1/4	2,095.42	1/4	1,878.14	1/4	1,659.61	1/4	1,441.08	1/4	1,222.06	1/4	1,003.95	1/4	784.79	1/4	566.15	1/4	347.29	1/4	128.14
1/2	1/2	1/2	2,090.94	1/2	1,873.58	1/2	1,655.06	1/2	1,436.53	1/2	1,217.50	1/2	999.38	1/2	780.23	1/2	561.60	1/2	342.73	1/2	123.57
3/4	3/4	3/4	2,086.45	3/4	1,869.03	3/4	1,650.50	3/4	1,431.97	3/4	1,212.93	3/4	994.82	3/4	775.66	3/4	557.06	3/4	338.16	3/4	119.01
2	2	2	2,081.95	2	1,864.48	2	1,645.95	2	1,427.42	2	1,208.37	2	990.25	2	771.09	2	552.51	2	333.59	2	114.45
1/4	1/4	1/4	2,077.45	1/4	1,859.93	1/4	1,641.40	1/4	1,422.87	1/4	1,203.80	1/4	985.69	1/4	766.53	1/4	547.97	1/4	329.03	1/4	109.90
1/2	1/2	1/2	2,072.95	1/2	1,855.37	1/2	1,636.84	1/2	1,418.31	1/2	1,199.23	1/2	981.12	1/2	761.96	1/2	543.42	1/2	324.46	1/2	105.34
3/4	3/4	3/4	2,068.45	3/4	1,850.82	3/4	1,632.29	3/4	1,413.76	3/4	1,194.67	3/4	976.56	3/4	757.40	3/4	538.88	3/4	319.90	3/4	100.78
3	3	3	2,063.94	3	1,846.27	3	1,627.74	3	1,409.21	3	1,190.10	3	971.99	3	752.83	3	534.34	3	315.33	3	96.23
1/4	1/4	1/4	2,059.43	1/4	1,841.72	1/4	1,623.19	1/4	1,404.66	1/4	1,185.54	1/4	967.42	1/4	748.27	1/4	529.79	1/4	310.77	1/4	91.68
1/2	1/2	1/2	2,054.93	1/2	1,837.16	1/2	1,618.63	1/2	1,400.10	1/2	1,180.97	1/2	962.86	1/2	743.70	1/2	525.25	1/2	306.20	1/2	87.13
3/4	3/4	3/4	2,050.42	3/4	1,832.61	3/4	1,614.08	3/4	1,395.55	3/4	1,176.41	3/4	958.29	3/4	739.13	3/4	520.70	3/4	301.63	3/4	82.57
4	4	4	2,045.91	4	1,828.06	4	1,609.53	4	1,390.99	4	1,171.84	4	953.73	4	734.57	4	516.16	4	297.07	4	78.03
1/4	1/4	1/4	2,041.41	1/4	1,823.51	1/4	1,604.98	1/4	1,386.42	1/4	1,167.28	1/4	949.16	1/4	730.00	1/4	511.61	1/4	292.50	1/4	73.48
1/2	1/2	1/2	2,036.90	1/2	1,818.95	1/2	1,600.42	1/2	1,381.85	1/2	1,162.71	1/2	944.59	1/2	725.44	1/2	507.07	1/2	287.94	1/2	68.93
3/4	3/4	3/4	2,032.39	3/4	1,814.40	3/4	1,595.87	3/4	1,377.29	3/4	1,158.15	3/4	940.03	3/4	720.87	3/4	502.52	3/4	283.37	3/4	64.38
5	5	5	2,027.88	5	1,809.85	5	1,591.32	5	1,372.72	5	1,153.58	5	935.46	5	716.30	5	497.96	5	278.81	5	59.85
1/4	1/4	1/4	2,023.38	1/4	1,805.29	1/4	1,586.76	1/4	1,368.16	1/4	1,149.01	1/4	930.90	1/4	711.74	1/4	493.39	1/4	274.24	1/4	55.32
1/2	1/2	1/2	2,018.87	1/2	1,800.74	1/2	1,582.21	1/2	1,363.59	1/2	1,144.45	1/2	926.33	1/2	707.17	1/2	488.83	1/2	269.67	1/2	50.79
3/4	3/4	3/4	2,014.36	3/4	1,796.19	3/4	1,577.66	3/4	1,359.03	3/4	1,139.88	3/4	921.77	3/4	702.61	3/4	484.26	3/4	265.11	3/4	46.26
6	6	6	2,009.85	6	1,791.64	6	1,573.11	6	1,354.46	6	1,135.32	6	917.20	6	698.04	6	479.70	6	260.54	6	42.16
1/4	1/4	1/4	2,005.34	1/4	1,787.08	1/4	1,568.55	1/4	1,349.90	1/4	1,130.75	1/4	912.63	1/4	693.48	1/4	475.13	1/4	255.98	1/4	38.06
1/2	1/2	1/2	2,000.84	1/2	1,782.53	1/2	1,564.00	1/2	1,345.33	1/2	1,126.19	1/2	908.07	1/2	688.91	1/2	470.56	1/2	251.41	1/2	33.97
3/4	3/4	3/4	1,996.33	3/4	1,777.98	3/4	1,559.45	3/4	1,340.77	3/4	1,121.62	3/4	903.50	3/4	684.34	3/4	466.00	3/4	246.85	3/4	29.87
7	7	7	1,991.82	7	1,773.43	7	1,554.90	7	1,336.20	7	1,117.06	7	898.94	7	679.79	7	461.43	7	242.28	7	26.69
1/4	1/4	1/4	1,987.31	1/4	1,768.87	1/4	1,550.34	1/4	1,331.63	1/4	1,112.49	1/4	894.37	1/4	675.24	1/4	456.87	1/4	237.71	1/4	23.50
1/2	1/2	1/2	1,982.80	1/2	1,764.32	1/2	1,545.79	1/2	1,327.07	1/2	1,107.92	1/2	889.80	1/2	670.69	1/2	452.30	1/2	233.15	1/2	20.31
3/4	3/4	3/4	1,978.30	3/4	1,759.77	3/4	1,541.24	3/4	1,322.50	3/4	1,103.36	3/4	885.24	3/4	666.14	3/4	447.74	3/4	228.58	3/4	17.12
8	8	8	1,973.74	8	1,755.21	8	1,536.69	8	1,317.94	8	1,098.79	8	880.67	8	661.59	8	443.17	8	224.02	8	—
1/4	1/4	1/4	1,969.19	1/4	1,750.66	1/4	1,532.13	1/4	1,313.37	1/4	1,094.23	1/4	876.11	1/4	657.05	1/4	438.60	1/4	219.45	1/4	—
1/2	1/2	1/2	1,964.64	1/2	1,746.11	1/2	1,527.58	1/2	1,308.81	1/2	1,089.66	1/2	871.54	1/2	652.50	1/2	434.04	1/2	214.89	1/2	—
3/4	3/4	3/4	1,960.09	3/4	1,741.56	3/4	1,523.03	3/4	1,304.24	3/4	1,085.10	3/4	866.98	3/4	647.95	3/4	429.47	3/4	210.32	3/4	—
9	9	9	1,955.53	9	1,737.00	9	1,518.47	9	1,299.68	9	1,080.60	9	862.41	9	643.40	9	424.91	9	205.75	9	—
1/4	1/4	1/4	1,950.98	1/4	1,732.45	1/4	1,513.92	1/4	1,295.11	1/4	1,076.10	1/4	857.84	1/4	638.86	1/4	420.34	1/4	201.19	1/4	—
1/2	1/2	1/2	1,946.43	1/2	1,727.90	1/2	1,509.37	1/2	1,290.54	1/2	1,071.59	1/2	853.28	1/2	634.31	1/2	415.78	1/2	196.62	1/2	—
3/4	3/4	3/4	1,941.88	3/4	1,723.35	3/4	1,504.82	3/4	1,285.98	3/4	1,067.09	3/4	848.71	3/4	629.77	3/4	411.21	3/4	192.06	3/4	—
10	10	10	1,937.32	10	1,718.79	10	1,500.26	10	1,281.41	10	1,062.59	10	844.15	10	625.22	10	406.64	10	187.49	10	—
1/4	1/4	1/4	1,932.77	1/4	1,714.24	1/4	1,495.71	1/4	1,276.85	1/4	1,058.09	1/4	839.58	1/4	620.68	1/4	402.08	1/4	182.93	1/4	—
1/2	1/2	1/2	1,928.22	1/2	1,709.69	1/2	1,491.16	1/2	1,272.28	1/2	1,053.59	1/2	835.02	1/2	616.13	1/2	397.51	1/2	178.36	1/2	—
3/4	3/4	3/4	1,923.66	3/4	1,705.14	3/4	1,486.61	3/4	1,267.72	3/4	1,049.09	3/4	830.45	3/4	611.59	3/4	392.95	3/4	173.79	3/4	—
11	11	11	1,919.11	11	1,700.58	11	1,482.05	11	1,263.15	11	1,044.59	11	825.88	11	607.05	11	388.38	11	169.23	11	—
1/4	1/4	1/4	1,914.56	1/4	1,696.03	1/4	1,477.50	1/4	1,258.59	1/4	1,040.09	1/4	821.32	1/4	602.50	1/4	383.82	1/4	164.66	1/4	—
1/2	1/2	1/2	2,123.73	1/2	1,910.01	1/2	1,691.48	1/2	1,472.95	1/2	1,254.02	1/2	1,035.59	1/2	816.75	1/2	379.25	1/2	160.10	1/2	—
3/4	3/4	3/4	2,120.59	3/4	1,905.45	3/4	1,686.92	3/4	1,468.39	3/4	1,249.46	3/4	1,031.09	3/4	812.19	3/4	374.69	3/4	155.53	3/4	—

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES.
GAUGE POINT: (HERMETIC - 2" VALVE) LOCATED 12'-09" OFF CENTERLINE AND 48'-09" FORWARD OF AFT BULKHEAD.
GAUGE POINT: (8" HATCH) LOCATED 12'-09" OFF CENTERLINE AND 49'-09" FORWARD OF AFT BULKHEAD.

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CANCELS AND SUPERCEDES
ALL PRIOR TO 04/2015

PRECISION MEASUREMENT
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BARGE "MM 310"

ULLAGE TRIM TABLE 8" HATCH

	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	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/4	- 00-1/4	00-1/4	- 00-1/4	00-3/8	- 00-3/8	00-3/8	- 00-3/8
1 STBD	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/4	- 00-1/4	00-1/4	- 00-1/4	00-3/8	- 00-3/8	00-3/8	- 00-3/8
2 PORT	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/4	- 00-1/4	00-1/4	- 00-1/4	00-3/8	- 00-3/8	00-3/8	- 00-3/8
2 STBD	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/4	- 00-1/4	00-1/4	- 00-1/4	00-3/8	- 00-3/8	00-3/8	- 00-3/8
3 PORT	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/4	- 00-1/4	00-1/4	- 00-1/4	00-3/8	- 00-3/8	00-3/8	- 00-3/8
3 STBD	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/4	- 00-1/4	00-1/4	- 00-1/4	00-3/8	- 00-3/8	00-3/8	- 00-3/8
4 PORT	01-1/4	- 01-1/4	02-3/8	- 02-3/8	03-5/8	- 03-5/8	04-6/8	- 04-6/8	06-0/8	- 06-0/8	07-1/8	- 07-1/8
4 STBD	01-1/4	- 01-1/4	02-3/8	- 02-3/8	03-4/8	- 03-4/8	04-6/8	- 04-6/8	05-7/8	- 05-7/8	07-1/8	- 07-1/8

(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 2 PORT IS - 00-1/8"
 FOR A MEASURED ULLAGE GAUGE OF 4'-00" ON 4 PORT, THE TRIM CORRECTED ULLAGE IS 3'-11 7/8"

LENGTH BETWEEN DRAFT MARKS: 237'-03"

April 16, 2015

PRECISION MEASUREMENT
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