



# BARGE "MMLP 331"

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

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

LENGTH BETWEEN DRAFT MARKS: 237'-06"

November 13, 2018

PRECISION MEASUREMENT  
 & ANALYSIS, INC.

P.O. Box 2092  
 Pearland, Texas 77588

<http://www.pmacorp.net>



# BARGE "MMLP 331"

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

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

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

THE CORRECTION FOR 2'-00" TRIM DOWN BY STERN FOR 2 PORT IS 00-5/8"  
 FOR A MEASURED ULLAGE GAUGE OF 4'-00" ON 2 PORT, THE TRIM CORRECTED ULLAGE IS 4'-00 5/8"

LENGTH BETWEEN DRAFT MARKS: 237'-06"

November 13, 2018

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# BARGE "MMLP 331"

## 3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-02 1/2"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0
			4,113.06		3,995.79		3,861.19		3,725.67		3,589.74		3,268.27		2,912.92		2,557.45		2,201.60
1/4	1/4	1/4	4,112.74	1/4	3,992.99	1/4	3,858.39	1/4	3,722.84	1/4	3,586.91	1/4	3,260.86	1/4	2,905.52	1/4	2,550.03	1/4	2,194.18
1/2	1/2	1/2	4,112.42	1/2	3,990.18	1/2	3,855.59	1/2	3,720.01	1/2	3,584.08	1/2	3,253.46	1/2	2,898.12	1/2	2,542.61	1/2	2,186.77
3/4	3/4	3/4	4,111.68	3/4	3,987.38	3/4	3,852.78	3/4	3,717.17	3/4	3,581.25	3/4	3,246.06	3/4	2,890.71	3/4	2,535.20	3/4	2,179.35
1	1	1	4,110.94	1	3,984.57	1	3,849.98	1	3,714.34	1	3,578.42	1	3,238.66	1	2,883.31	1	2,527.78	1	2,171.93
1/4	1/4	1/4	4,110.20	1/4	3,981.77	1/4	3,847.17	1/4	3,711.51	1/4	3,575.58	1/4	3,231.25	1/4	2,875.91	1/4	2,520.36	1/4	2,164.51
1/2	1/2	1/2	4,109.45	1/2	3,978.97	1/2	3,844.37	1/2	3,708.67	1/2	3,572.75	1/2	3,223.85	1/2	2,868.51	1/2	2,512.94	1/2	2,157.09
3/4	3/4	3/4	4,107.50	3/4	3,976.16	3/4	3,841.57	3/4	3,705.84	3/4	3,566.55	3/4	3,216.45	3/4	2,861.10	3/4	2,505.53	3/4	2,149.67
2	2	2	4,105.54	2	3,973.36	2	3,838.76	2	3,703.01	2	3,560.35	2	3,209.04	2	2,853.70	2	2,498.11	2	2,142.25
1/4	1/4	1/4	4,103.59	1/4	3,970.55	1/4	3,835.96	1/4	3,700.17	1/4	3,554.15	1/4	3,201.64	1/4	2,846.30	1/4	2,490.69	1/4	2,134.83
1/2	1/2	1/2	4,101.63	1/2	3,967.75	1/2	3,833.15	1/2	3,697.34	1/2	3,547.95	1/2	3,194.24	1/2	2,838.89	1/2	2,483.28	1/2	2,127.41
3/4	3/4	3/4	4,098.99	3/4	3,964.95	3/4	3,830.35	3/4	3,694.51	3/4	3,540.62	3/4	3,186.83	3/4	2,831.49	3/4	2,475.86	3/4	2,120.00
3	3	3	4,096.34	3	3,962.14	3	3,827.54	3	3,691.68	3	3,533.30	3	3,179.43	3	2,824.09	3	2,468.44	3	2,112.58
1/4	1/4	1/4	4,093.70	1/4	3,959.34	1/4	3,824.74	1/4	3,688.84	1/4	3,525.97	1/4	3,172.03	1/4	2,816.68	1/4	2,461.02	1/4	2,105.16
1/2	1/2	1/2	4,091.05	1/2	3,956.53	1/2	3,821.94	1/2	3,686.01	1/2	3,518.65	1/2	3,164.63	1/2	2,809.28	1/2	2,453.61	1/2	2,097.74
3/4	3/4	3/4	4,088.27	3/4	3,953.73	3/4	3,819.12	3/4	3,683.18	3/4	3,511.32	3/4	3,157.22	3/4	2,801.88	3/4	2,446.19	3/4	2,090.32
4	4	4	4,085.48	4	3,950.93	4	3,816.30	4	3,680.34	4	3,504.00	4	3,149.82	4	2,794.48	4	2,438.78	4	2,082.90
1/4	1/4	1/4	4,082.69	1/4	3,948.12	1/4	3,813.48	1/4	3,677.51	1/4	3,496.67	1/4	3,142.42	1/4	2,787.07	1/4	2,431.37	1/4	2,075.48
1/2	1/2	1/2	4,079.90	1/2	3,945.32	1/2	3,810.66	1/2	3,674.68	1/2	3,489.34	1/2	3,135.01	1/2	2,779.67	1/2	2,423.95	1/2	2,068.06
3/4	3/4	3/4	4,077.10	3/4	3,942.51	3/4	3,807.82	3/4	3,671.85	3/4	3,482.02	3/4	3,127.61	3/4	2,772.27	3/4	2,416.54	3/4	2,060.64
5	5	5	4,074.30	5	3,939.71	5	3,804.99	5	3,669.02	5	3,474.69	5	3,120.21	5	2,764.86	5	2,409.13	5	2,053.23
1/4	1/4	1/4	4,071.50	1/4	3,936.90	1/4	3,802.16	1/4	3,666.18	1/4	3,467.37	1/4	3,112.80	1/4	2,757.46	1/4	2,401.72	1/4	2,045.81
1/2	1/2	1/2	4,068.69	1/2	3,934.10	1/2	3,799.33	1/2	3,663.35	1/2	3,460.04	1/2	3,105.40	1/2	2,750.06	1/2	2,394.31	1/2	2,038.39
3/4	3/4	3/4	4,065.89	3/4	3,931.30	3/4	3,796.49	3/4	3,660.52	3/4	3,452.72	3/4	3,098.00	3/4	2,742.65	3/4	2,386.90	3/4	2,030.97
6	6	6	4,063.09	6	3,928.49	6	3,793.66	6	3,657.69	6	3,445.39	6	3,090.60	6	2,735.25	6	2,379.49	6	2,023.55
1/4	1/4	1/4	4,060.28	1/4	3,925.69	1/4	3,790.83	1/4	3,654.86	1/4	3,438.07	1/4	3,083.19	1/4	2,727.85	1/4	2,372.07	1/4	2,016.13
1/2	1/2	1/2	4,057.48	1/2	3,922.88	1/2	3,787.99	1/2	3,652.03	1/2	3,430.74	1/2	3,075.79	1/2	2,720.45	1/2	2,364.66	1/2	2,008.71
3/4	3/4	3/4	4,054.68	3/4	3,920.08	3/4	3,785.16	3/4	3,649.20	3/4	3,423.42	3/4	3,068.39	3/4	2,713.04	3/4	2,357.25	3/4	2,001.29
7	7	7	4,051.87	7	3,917.28	7	3,782.33	7	3,646.36	7	3,416.09	7	3,060.98	7	2,705.64	7	2,349.84	7	1,993.87
1/4	1/4	1/4	4,049.07	1/4	3,914.47	1/4	3,779.50	1/4	3,643.53	1/4	3,408.77	1/4	3,053.58	1/4	2,698.24	1/4	2,342.43	1/4	1,986.46
1/2	1/2	1/2	4,046.26	1/2	3,911.67	1/2	3,776.66	1/2	3,640.70	1/2	3,401.44	1/2	3,046.18	1/2	2,690.83	1/2	2,335.02	1/2	1,979.04
3/4	3/4	3/4	4,043.46	3/4	3,908.86	3/4	3,773.83	3/4	3,637.87	3/4	3,394.06	3/4	3,038.77	3/4	2,683.43	3/4	2,327.60	3/4	1,971.62
8	8	8	4,040.66	8	3,906.06	8	3,771.00	8	3,635.04	8	3,386.68	8	3,031.37	8	2,676.03	8	2,320.19	8	1,964.20
1/4	1/4	1/4	4,037.85	1/4	3,903.26	1/4	3,768.16	1/4	3,632.21	1/4	3,379.29	1/4	3,023.97	1/4	2,668.62	1/4	2,312.78	1/4	1,956.78
1/2	1/2	1/2	4,035.05	1/2	3,900.45	1/2	3,765.33	1/2	3,629.38	1/2	3,371.91	1/2	3,016.57	1/2	2,661.22	1/2	2,305.37	1/2	1,949.36
3/4	3/4	3/4	4,032.24	3/4	3,897.65	3/4	3,762.50	3/4	3,626.55	3/4	3,364.51	3/4	3,009.16	3/4	2,653.82	3/4	2,297.96	3/4	1,941.94
9	9	9	4,029.44	9	3,894.84	9	3,759.67	9	3,623.71	9	3,357.10	9	3,001.76	9	2,646.42	9	2,290.55	9	1,934.52
1/4	1/4	1/4	4,026.64	1/4	3,892.04	1/4	3,756.83	1/4	3,620.88	1/4	3,349.70	1/4	2,994.36	1/4	2,639.01	1/4	2,283.14	1/4	1,927.10
1/2	1/2	1/2	4,023.83	1/2	3,889.24	1/2	3,754.00	1/2	3,618.05	1/2	3,342.30	1/2	2,986.95	1/2	2,631.61	1/2	2,275.72	1/2	1,919.69
3/4	3/4	3/4	4,021.03	3/4	3,886.43	3/4	3,751.17	3/4	3,615.22	3/4	3,334.89	3/4	2,979.55	3/4	2,624.20	3/4	2,268.31	3/4	1,912.27
10	10	10	4,018.22	10	3,883.63	10	3,748.33	10	3,612.39	10	3,327.49	10	2,972.15	10	2,616.78	10	2,260.90	10	1,904.85
1/4	1/4	1/4	4,015.42	1/4	3,880.82	1/4	3,745.50	1/4	3,609.56	1/4	3,320.09	1/4	2,964.74	1/4	2,609.37	1/4	2,253.49	1/4	1,897.43
1/2	1/2	1/2	4,012.62	1/2	3,878.02	1/2	3,742.67	1/2	3,606.73	1/2	3,312.69	1/2	2,957.34	1/2	2,601.95	1/2	2,246.08	1/2	1,890.01
3/4	3/4	3/4	4,009.81	3/4	3,875.21	3/4	3,739.84	3/4	3,603.90	3/4	3,305.28	3/4	2,949.94	3/4	2,594.54	3/4	2,238.67	3/4	1,882.59
11	11	11	4,007.01	11	3,872.41	11	3,737.00	11	3,601.07	11	3,297.88	11	2,942.54	11	2,587.12	11	2,231.26	11	1,875.17
1/4	1/4	1/4	4,004.20	1/4	3,869.61	1/4	3,734.17	1/4	3,598.23	1/4	3,290.48	1/4	2,935.13	1/4	2,579.70	1/4	2,223.84	1/4	1,867.75
1/2	1/2	1/2	4,001.40	1/2	3,866.80	1/2	3,731.34	1/2	3,595.40	1/2	3,283.07	1/2	2,927.73	1/2	2,572.28	1/2	2,216.43	1/2	1,860.33
3/4	3/4	3/4	3,998.59	3/4	3,864.00	3/4	3,728.50	3/4	3,592.57	3/4	3,275.67	3/4	2,920.33	3/4	2,564.87	3/4	2,209.02	3/4	1,852.92

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.

CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK AT GAUGE POINT.

CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN AT 8" DIAMETER HATCH OR 2" DIAMETER "HERMETIC" VALVE.

GAUGE POINT: (HERMETIC) LOCATED 12'-06" OFF CENTERLINE AND 63'-09" FORWARD OF AFT BULKHEAD.

GAUGE POINT: (8" HATCH) LOCATED 12'-06" OFF CENTERLINE AND 65'-09" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT  
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# BARGE "MMLP 331"

**3 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	1,845.50	0	1,493.26	0	1,137.06	0	781.86	0	431.88	0	80.40	0		0		0		0	
1/4	1,838.08	1/4	1,485.84	1/4	1,129.64	1/4	774.45	1/4	424.54	1/4	73.70	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,830.66	1/2	1,478.42	1/2	1,122.22	1/2	767.03	1/2	417.20	1/2	67.00	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,823.30	3/4	1,471.00	3/4	1,114.80	3/4	759.61	3/4	409.86	3/4	60.45	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	1,815.94	1	1,463.57	1	1,107.38	1	752.19	1	402.52	1	53.90	1	1	1	1	1	1	1	1
1/4	1,808.58	1/4	1,456.15	1/4	1,099.96	1/4	744.77	1/4	395.18	1/4	47.35	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,801.22	1/2	1,448.73	1/2	1,092.54	1/2	737.35	1/2	387.84	1/2	40.80	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,793.94	3/4	1,441.31	3/4	1,085.13	3/4	729.93	3/4	380.46	3/4	35.69	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	1,786.66	2	1,433.89	2	1,077.73	2	722.51	2	373.07	2	30.58	2	2	2	2	2	2	2	2
1/4	1,779.38	1/4	1,426.47	1/4	1,070.32	1/4	715.09	1/4	365.69	1/4	25.47	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,772.09	1/2	1,419.05	1/2	1,062.91	1/2	707.67	1/2	358.31	1/2	20.36	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,764.83	3/4	1,411.63	3/4	1,055.51	3/4	700.25	3/4	350.90	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	1,757.57	3	1,404.21	3	1,048.11	3	692.83	3	343.49	3		3	3	3	3	3	3	3	3
1/4	1,750.31	1/4	1,396.79	1/4	1,040.71	1/4	685.41	1/4	336.09	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,743.05	1/2	1,389.37	1/2	1,033.31	1/2	677.99	1/2	328.68	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,735.79	3/4	1,381.95	3/4	1,025.91	3/4	670.57	3/4	321.26	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	1,728.53	4	1,374.53	4	1,018.51	4	663.15	4	313.84	4	4	4	4	4	4	4	4	4	4
1/4	1,721.26	1/4	1,367.11	1/4	1,011.12	1/4	655.73	1/4	306.42	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,714.00	1/2	1,359.69	1/2	1,003.72	1/2	648.31	1/2	299.01	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,706.74	3/4	1,352.26	3/4	996.33	3/4	640.89	3/4	291.58	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	1,699.48	5	1,344.84	5	988.93	5	633.47	5	284.16	5	5	5	5	5	5	5	5	5	5
1/4	1,692.22	1/4	1,337.42	1/4	981.54	1/4	626.05	1/4	276.74	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,684.96	1/2	1,330.00	1/2	974.14	1/2	618.62	1/2	269.32	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,677.69	3/4	1,322.58	3/4	966.75	3/4	611.20	3/4	261.89	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	1,670.43	6	1,315.16	6	959.36	6	603.78	6	254.47	6	6	6	6	6	6	6	6	6	6
1/4	1,663.17	1/4	1,307.74	1/4	951.96	1/4	596.36	1/4	247.04	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,655.91	1/2	1,300.32	1/2	944.57	1/2	588.94	1/2	239.62	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,648.59	3/4	1,292.90	3/4	937.17	3/4	581.52	3/4	232.19	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	1,641.27	7	1,285.48	7	929.78	7	574.10	7	224.75	7	7	7	7	7	7	7	7	7	7
1/4	1,633.95	1/4	1,278.06	1/4	922.39	1/4	566.68	1/4	217.32	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,626.63	1/2	1,270.64	1/2	914.99	1/2	559.26	1/2	209.89	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,619.24	3/4	1,263.22	3/4	907.60	3/4	551.85	3/4	202.50	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	1,611.85	8	1,255.80	8	900.20	8	544.43	8	195.11	8	8	8	8	8	8	8	8	8	8
1/4	1,604.46	1/4	1,248.37	1/4	892.81	1/4	537.01	1/4	187.72	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,597.07	1/2	1,240.95	1/2	885.42	1/2	529.59	1/2	180.33	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,589.66	3/4	1,233.53	3/4	878.02	3/4	522.17	3/4	172.96	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	1,582.26	9	1,226.11	9	870.63	9	515.82	9	165.58	9	9	9	9	9	9	9	9	9	9
1/4	1,574.85	1/4	1,218.69	1/4	863.23	1/4	508.94	1/4	158.21	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,567.45	1/2	1,211.27	1/2	855.84	1/2	502.06	1/2	150.83	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,560.03	3/4	1,203.85	3/4	848.45	3/4	495.36	3/4	143.46	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	1,552.61	10	1,196.43	10	841.05	10	488.67	10	136.08	10	10	10	10	10	10	10	10	10	10
1/4	1,545.20	1/4	1,189.01	1/4	833.66	1/4	481.97	1/4	128.71	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,537.78	1/2	1,181.59	1/2	826.26	1/2	475.27	1/2	121.34	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,530.36	3/4	1,174.17	3/4	818.87	3/4	468.10	3/4	114.45	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	1,522.94	11	1,166.75	11	811.48	11	460.92	11	107.57	11	11	11	11	11	11	11	11	11	11
1/4	1,515.52	1/4	1,159.33	1/4	804.08	1/4	453.74	1/4	100.69	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,508.10	1/2	1,151.91	1/2	796.69	1/2	446.56	1/2	93.80	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,500.68	3/4	1,144.48	3/4	789.27	3/4	439.22	3/4	87.10	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 11/08/2018 CL  
CALCULATED: 11/13/2018 CL  
PRINTED: 11/13/2018 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 11/2018

PRECISION MEASUREMENT  
& ANALYSIS, INC.

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<http://www.pmacorp.net>





# BARGE "MMLP 331"

## 3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-02 1/2"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT
0		0	4,108.06	0	3,990.42	0	3,855.40	0	3,719.45	0	3,583.09	0	3,260.60	0	2,904.14	0	2,547.54	0	2,190.68
1/4	1/4	1/4	4,107.74	1/4	3,987.61	1/4	3,852.59	1/4	3,716.61	1/4	3,580.25	1/4	3,253.18	1/4	2,896.71	1/4	2,540.10	1/4	2,183.30
1/2	1/2	1/2	4,107.42	1/2	3,984.79	1/2	3,849.77	1/2	3,713.77	1/2	3,577.41	1/2	3,245.75	1/2	2,889.28	1/2	2,532.66	1/2	2,175.92
3/4	3/4	3/4	4,106.68	3/4	3,981.98	3/4	3,846.96	3/4	3,710.93	3/4	3,574.57	3/4	3,238.32	3/4	2,881.86	3/4	2,525.22	3/4	2,168.55
1		1	4,105.93	1	3,979.17	1	3,844.15	1	3,708.08	1	3,571.73	1	3,230.90	1	2,874.43	1	2,517.78	1	2,161.19
1/4	1/4	1/4	4,105.19	1/4	3,976.36	1/4	3,841.34	1/4	3,705.24	1/4	3,568.89	1/4	3,223.47	1/4	2,867.00	1/4	2,510.33	1/4	2,153.82
1/2	1/2	1/2	4,104.44	1/2	3,973.54	1/2	3,838.52	1/2	3,702.40	1/2	3,566.05	1/2	3,216.05	1/2	2,859.58	1/2	2,502.89	1/2	2,146.46
3/4	3/4	3/4	4,102.48	3/4	3,970.73	3/4	3,835.71	3/4	3,699.56	3/4	3,559.83	3/4	3,208.62	3/4	2,852.15	3/4	2,495.45	3/4	2,139.09
2		2	4,100.52	2	3,967.92	2	3,832.90	2	3,695.72	2	3,553.61	2	3,201.19	2	2,844.73	2	2,488.01	2	2,131.73
1/4	1/4	1/4	4,098.56	1/4	3,965.10	1/4	3,830.08	1/4	3,693.87	1/4	3,547.39	1/4	3,193.77	1/4	2,837.30	1/4	2,480.57	1/4	2,124.36
1/2	1/2	1/2	4,096.60	1/2	3,962.29	1/2	3,827.27	1/2	3,691.03	1/2	3,541.16	1/2	3,186.34	1/2	2,829.87	1/2	2,473.13	1/2	2,117.00
3/4	3/4	3/4	4,093.95	3/4	3,959.48	3/4	3,824.46	3/4	3,688.19	3/4	3,533.82	3/4	3,178.91	3/4	2,822.45	3/4	2,465.69	3/4	2,109.63
3		3	4,091.29	3	3,956.67	3	3,821.65	3	3,685.35	3	3,526.47	3	3,171.49	3	2,815.02	3	2,458.25	3	2,102.27
1/4	1/4	1/4	4,088.64	1/4	3,953.85	1/4	3,818.83	1/4	3,682.51	1/4	3,519.12	1/4	3,164.06	1/4	2,807.59	1/4	2,450.81	1/4	2,094.90
1/2	1/2	1/2	4,085.99	1/2	3,951.04	1/2	3,816.02	1/2	3,679.66	1/2	3,511.77	1/2	3,156.63	1/2	2,800.17	1/2	2,443.37	1/2	2,087.54
3/4	3/4	3/4	4,083.19	3/4	3,948.23	3/4	3,813.19	3/4	3,676.82	3/4	3,504.42	3/4	3,149.21	3/4	2,792.74	3/4	2,435.93	3/4	2,080.17
4		4	4,080.39	4	3,945.41	4	3,810.36	4	3,673.98	4	3,497.07	4	3,141.78	4	2,785.31	4	2,428.50	4	2,072.81
1/4	1/4	1/4	4,077.60	1/4	3,942.60	1/4	3,807.53	1/4	3,671.14	1/4	3,489.73	1/4	3,134.36	1/4	2,777.89	1/4	2,421.06	1/4	2,065.44
1/2	1/2	1/2	4,074.80	1/2	3,939.79	1/2	3,804.70	1/2	3,668.30	1/2	3,482.38	1/2	3,126.93	1/2	2,770.46	1/2	2,413.62	1/2	2,058.08
3/4	3/4	3/4	4,071.99	3/4	3,936.97	3/4	3,801.86	3/4	3,665.46	3/4	3,475.03	3/4	3,119.50	3/4	2,763.04	3/4	2,406.19	3/4	2,050.71
5		5	4,069.18	5	3,934.16	5	3,799.02	5	3,662.62	5	3,467.68	5	3,112.08	5	2,755.61	5	2,398.75	5	2,043.35
1/4	1/4	1/4	4,066.37	1/4	3,931.35	1/4	3,796.18	1/4	3,659.78	1/4	3,460.33	1/4	3,104.65	1/4	2,748.18	1/4	2,391.32	1/4	2,035.98
1/2	1/2	1/2	4,063.56	1/2	3,928.54	1/2	3,793.34	1/2	3,656.94	1/2	3,452.98	1/2	3,097.22	1/2	2,740.76	1/2	2,383.88	1/2	2,028.62
3/4	3/4	3/4	4,060.74	3/4	3,925.72	3/4	3,790.50	3/4	3,654.10	3/4	3,445.64	3/4	3,089.80	3/4	2,733.33	3/4	2,376.45	3/4	2,021.25
6		6	4,057.93	6	3,922.91	6	3,787.66	6	3,651.26	6	3,438.29	6	3,082.37	6	2,725.90	6	2,369.01	6	2,013.89
1/4	1/4	1/4	4,055.12	1/4	3,920.10	1/4	3,784.82	1/4	3,648.42	1/4	3,430.94	1/4	3,074.94	1/4	2,718.48	1/4	2,361.58	1/4	2,006.52
1/2	1/2	1/2	4,052.30	1/2	3,917.28	1/2	3,781.97	1/2	3,645.58	1/2	3,423.59	1/2	3,067.52	1/2	2,711.05	1/2	2,354.14	1/2	1,999.16
3/4	3/4	3/4	4,049.49	3/4	3,914.47	3/4	3,779.13	3/4	3,642.74	3/4	3,416.24	3/4	3,060.09	3/4	2,703.62	3/4	2,346.71	3/4	1,991.79
7		7	4,046.68	7	3,911.66	7	3,776.29	7	3,639.89	7	3,408.89	7	3,052.66	7	2,696.20	7	2,339.27	7	1,984.43
1/4	1/4	1/4	4,043.87	1/4	3,908.85	1/4	3,773.45	1/4	3,637.05	1/4	3,401.55	1/4	3,045.24	1/4	2,688.77	1/4	2,331.84	1/4	1,977.06
1/2	1/2	1/2	4,041.05	1/2	3,906.03	1/2	3,770.61	1/2	3,634.21	1/2	3,394.20	1/2	3,037.81	1/2	2,681.34	1/2	2,324.40	1/2	1,969.70
3/4	3/4	3/4	4,038.24	3/4	3,903.22	3/4	3,767.76	3/4	3,631.37	3/4	3,386.79	3/4	3,030.39	3/4	2,673.92	3/4	2,316.97	3/4	1,962.33
8		8	4,035.43	8	3,900.41	8	3,764.92	8	3,628.53	8	3,379.39	8	3,022.96	8	2,666.49	8	2,309.53	8	1,954.97
1/4	1/4	1/4	4,032.61	1/4	3,897.59	1/4	3,762.08	1/4	3,625.69	1/4	3,371.98	1/4	3,015.53	1/4	2,659.07	1/4	2,302.10	1/4	1,947.60
1/2	1/2	1/2	4,029.80	1/2	3,894.78	1/2	3,759.24	1/2	3,622.85	1/2	3,364.57	1/2	3,008.11	1/2	2,651.64	1/2	2,294.66	1/2	1,940.24
3/4	3/4	3/4	4,026.99	3/4	3,891.97	3/4	3,756.40	3/4	3,620.01	3/4	3,357.15	3/4	3,000.68	3/4	2,644.21	3/4	2,287.23	3/4	1,932.87
9		9	4,024.17	9	3,889.16	9	3,753.55	9	3,617.17	9	3,349.72	9	2,993.25	9	2,636.79	9	2,279.79	9	1,925.51
1/4	1/4	1/4	4,021.36	1/4	3,886.34	1/4	3,750.71	1/4	3,614.33	1/4	3,342.29	1/4	2,985.83	1/4	2,629.36	1/4	2,272.36	1/4	1,918.14
1/2	1/2	1/2	4,018.55	1/2	3,883.53	1/2	3,747.87	1/2	3,611.49	1/2	3,334.87	1/2	2,978.40	1/2	2,621.93	1/2	2,264.92	1/2	1,910.78
3/4	3/4	3/4	4,015.74	3/4	3,880.72	3/4	3,745.03	3/4	3,608.65	3/4	3,327.44	3/4	2,970.97	3/4	2,614.50	3/4	2,257.49	3/4	1,903.41
10		10	4,012.92	10	3,877.90	10	3,742.19	10	3,605.81	10	3,320.02	10	2,963.55	10	2,607.06	10	2,250.06	10	1,896.05
1/4	1/4	1/4	4,010.11	1/4	3,875.09	1/4	3,739.34	1/4	3,602.97	1/4	3,312.59	1/4	2,956.12	1/4	2,599.62	1/4	2,242.62	1/4	1,888.68
1/2	1/2	1/2	4,007.30	1/2	3,872.28	1/2	3,736.50	1/2	3,600.13	1/2	3,305.16	1/2	2,948.70	1/2	2,592.18	1/2	2,235.19	1/2	1,881.31
3/4	3/4	3/4	4,004.48	3/4	3,869.47	3/4	3,733.66	3/4	3,597.29	3/4	3,297.74	3/4	2,941.27	3/4	2,584.74	3/4	2,227.75	3/4	1,873.95
11		11	4,001.67	11	3,866.65	11	3,730.82	11	3,594.45	11	3,290.31	11	2,933.84	11	2,577.30	11	2,220.32	11	1,866.58
1/4	1/4	1/4	3,998.86	1/4	3,863.84	1/4	3,727.98	1/4	3,591.61	1/4	3,282.88	1/4	2,926.42	1/4	2,569.86	1/4	2,212.88	1/4	1,859.22
1/2	1/2	1/2	3,996.05	1/2	3,861.03	1/2	3,725.14	1/2	3,588.77	1/2	3,275.46	1/2	2,918.99	1/2	2,562.42	1/2	2,205.45	1/2	1,851.85
3/4	3/4	3/4	3,993.23	3/4	3,858.21	3/4	3,722.29	3/4	3,585.93	3/4	3,268.03	3/4	2,911.56	3/4	2,554.98	3/4	2,198.06	3/4	1,844.44

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.

CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK AT GAUGE POINT.

CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN AT 8" DIAMETER HATCH OR 2" DIAMETER "HERMETIC" VALVE.

GAUGE POINT: (HERMETIC) LOCATED 12'-06" OFF CENTERLINE AND 63'-09" FORWARD OF AFT BULKHEAD.

GAUGE POINT: (8" HATCH) LOCATED 12'-06" OFF CENTERLINE AND 65'-09" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT  
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmacorp.net>



# BARGE "MMLP 331"

## 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	1,837.02	0	1,483.92	0	1,126.84	0	782.32	0	433.24	0	80.66	0		0		0		0	
1/4	1,829.60	1/4	1,476.49	1/4	1,119.40	1/4	775.17	1/4	425.88	1/4	73.94	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,822.18	1/2	1,469.05	1/2	1,111.96	1/2	768.02	1/2	418.52	1/2	67.22	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,814.80	3/4	1,461.61	3/4	1,104.52	3/4	760.86	3/4	411.15	3/4	60.64	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	1,807.42	1	1,454.17	1	1,097.08	1	753.71	1	403.79	1	54.07	1	1	1	1	1	1	1	1
1/4	1,800.04	1/4	1,446.73	1/4	1,089.64	1/4	746.55	1/4	396.43	1/4	47.50	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,792.66	1/2	1,439.29	1/2	1,082.20	1/2	739.39	1/2	389.06	1/2	40.93	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,785.36	3/4	1,431.85	3/4	1,074.99	3/4	732.02	3/4	381.66	3/4	35.81	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	1,778.06	2	1,424.41	2	1,067.78	2	724.65	2	374.25	2	30.68	2	2	2	2	2	2	2	2
1/4	1,770.76	1/4	1,416.97	1/4	1,060.56	1/4	717.28	1/4	366.84	1/4	25.55	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,763.46	1/2	1,409.53	1/2	1,053.35	1/2	709.90	1/2	359.44	1/2	20.43	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,756.19	3/4	1,402.09	3/4	1,046.21	3/4	702.46	3/4	352.01	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	1,748.91	3	1,394.65	3	1,039.07	3	695.02	3	344.58	3		3	3	3	3	3	3	3	3
1/4	1,741.63	1/4	1,387.21	1/4	1,031.93	1/4	687.57	1/4	337.15	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,734.35	1/2	1,379.77	1/2	1,024.80	1/2	680.13	1/2	329.72	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,727.07	3/4	1,372.34	3/4	1,017.66	3/4	672.69	3/4	322.28	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	1,719.79	4	1,364.90	4	1,010.53	4	665.24	4	314.83	4		4	4	4	4	4	4	4	4
1/4	1,712.51	1/4	1,357.46	1/4	1,003.40	1/4	657.80	1/4	307.39	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,705.23	1/2	1,350.02	1/2	996.27	1/2	650.35	1/2	299.95	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,697.95	3/4	1,342.58	3/4	989.14	3/4	642.91	3/4	292.51	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	1,690.67	5	1,335.14	5	982.01	5	635.47	5	285.06	5		5	5	5	5	5	5	5	5
1/4	1,683.39	1/4	1,327.70	1/4	974.88	1/4	628.02	1/4	277.62	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,676.11	1/2	1,320.26	1/2	967.74	1/2	620.58	1/2	270.17	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,668.83	3/4	1,312.82	3/4	960.61	3/4	613.13	3/4	262.72	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	1,661.55	6	1,305.38	6	953.48	6	605.69	6	255.27	6		6	6	6	6	6	6	6	6
1/4	1,654.27	1/4	1,297.94	1/4	946.35	1/4	598.25	1/4	247.82	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,646.99	1/2	1,290.50	1/2	939.22	1/2	590.80	1/2	240.37	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,639.65	3/4	1,283.06	3/4	932.09	3/4	583.36	3/4	232.92	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	1,632.31	7	1,275.62	7	924.96	7	575.92	7	225.46	7		7	7	7	7	7	7	7	7
1/4	1,624.97	1/4	1,268.19	1/4	917.83	1/4	568.47	1/4	218.01	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,617.63	1/2	1,260.75	1/2	910.70	1/2	561.03	1/2	210.55	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,610.23	3/4	1,253.31	3/4	903.57	3/4	553.59	3/4	203.14	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	1,602.82	8	1,245.87	8	896.44	8	546.15	8	195.73	8		8	8	8	8	8	8	8	8
1/4	1,595.41	1/4	1,238.43	1/4	889.31	1/4	538.70	1/4	188.32	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,588.00	1/2	1,230.99	1/2	882.18	1/2	531.26	1/2	180.90	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,580.58	3/4	1,223.55	3/4	875.05	3/4	523.86	3/4	173.50	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	1,573.15	9	1,216.11	9	867.92	9	517.45	9	166.11	9		9	9	9	9	9	9	9	9
1/4	1,565.73	1/4	1,208.67	1/4	860.79	1/4	510.55	1/4	158.71	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,558.31	1/2	1,201.23	1/2	853.66	1/2	503.64	1/2	151.31	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,550.87	3/4	1,193.79	3/4	846.53	3/4	496.93	3/4	143.91	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	1,543.43	10	1,186.35	10	839.40	10	490.21	10	136.51	10		10	10	10	10	10	10	10	10
1/4	1,536.00	1/4	1,178.91	1/4	832.27	1/4	483.49	1/4	129.12	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,528.56	1/2	1,171.47	1/2	825.14	1/2	476.77	1/2	121.72	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,521.12	3/4	1,164.03	3/4	818.01	3/4	469.57	3/4	114.81	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	1,513.68	11	1,156.60	11	810.88	11	462.37	11	107.91	11		11	11	11	11	11	11	11	11
1/4	1,506.24	1/4	1,149.16	1/4	803.75	1/4	455.17	1/4	101.00	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,498.80	1/2	1,141.72	1/2	796.62	1/2	447.97	1/2	94.10	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,491.36	3/4	1,134.28	3/4	789.47	3/4	440.61	3/4	87.38	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 11/08/2018 CL  
CALCULATED: 11/13/2018 CL  
PRINTED: 11/13/2018 CL

PRECISION MEASUREMENT  
& ANALYSIS, INC.

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

CANCELS AND SUPERCEDES  
ALL PRIOR TO 11/2018



# BARGE "MMLP 331"

## 2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-02 3/4"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT
0		0		0	4,733.78	0	4,376.19	0	4,017.92	0	3,659.28	0	3,300.64	0	2,942.01	0	2,583.37	0	2,224.73
1/4		1/4	5,065.62	1/4	4,726.33	1/4	4,368.74	1/4	4,010.45	1/4	3,651.81	1/4	3,293.17	1/4	2,934.54	1/4	2,575.90	1/4	2,217.26
1/2		1/2	5,061.25	1/2	4,718.88	1/2	4,361.29	1/2	4,002.97	1/2	3,644.34	1/2	3,285.70	1/2	2,927.06	1/2	2,568.43	1/2	2,209.79
3/4		3/4	5,056.89	3/4	4,711.43	3/4	4,353.84	3/4	3,995.50	3/4	3,636.87	3/4	3,278.23	3/4	2,919.59	3/4	2,560.96	3/4	2,202.32
1		1	5,051.45	1	4,703.98	1	4,346.39	1	3,988.03	1	3,629.39	1	3,270.76	1	2,912.12	1	2,553.48	1	2,194.85
1/4		1/4	5,046.02	1/4	4,696.53	1/4	4,338.94	1/4	3,980.56	1/4	3,621.92	1/4	3,263.29	1/4	2,904.65	1/4	2,546.01	1/4	2,187.38
1/2		1/2	5,040.58	1/2	4,689.08	1/2	4,331.49	1/2	3,973.09	1/2	3,614.45	1/2	3,255.81	1/2	2,897.18	1/2	2,538.54	1/2	2,179.91
3/4		3/4	5,035.15	3/4	4,681.63	3/4	4,324.04	3/4	3,965.62	3/4	3,606.98	3/4	3,248.34	3/4	2,889.71	3/4	2,531.07	3/4	2,172.43
2		2	5,028.54	2	4,674.18	2	4,316.59	2	3,958.14	2	3,599.51	2	3,240.87	2	2,882.23	2	2,523.60	2	2,164.96
1/4		1/4	5,021.93	1/4	4,666.74	1/4	4,309.14	1/4	3,950.67	1/4	3,592.04	1/4	3,233.40	1/4	2,874.76	1/4	2,516.13	1/4	2,157.49
1/2		1/2	5,015.32	1/2	4,659.29	1/2	4,301.69	1/2	3,943.20	1/2	3,584.56	1/2	3,225.93	1/2	2,867.29	1/2	2,508.65	1/2	2,150.02
3/4		3/4	5,008.71	3/4	4,651.84	3/4	4,294.25	3/4	3,935.73	3/4	3,577.09	3/4	3,218.46	3/4	2,859.82	3/4	2,501.18	3/4	2,142.55
3		3	5,001.42	3	4,644.39	3	4,286.80	3	3,928.26	3	3,569.62	3	3,210.98	3	2,852.35	3	2,493.71	3	2,135.08
1/4		1/4	4,994.13	1/4	4,636.94	1/4	4,279.35	1/4	3,920.79	1/4	3,562.15	1/4	3,203.51	1/4	2,844.88	1/4	2,486.24	1/4	2,127.60
1/2		1/2	4,986.84	1/2	4,629.49	1/2	4,271.90	1/2	3,913.31	1/2	3,554.68	1/2	3,196.04	1/2	2,837.40	1/2	2,478.77	1/2	2,120.13
3/4		3/4	4,979.55	3/4	4,622.04	3/4	4,264.45	3/4	3,905.84	3/4	3,547.21	3/4	3,188.57	3/4	2,829.93	3/4	2,471.30	3/4	2,112.66
4		4	4,972.11	4	4,614.59	4	4,256.98	4	3,898.37	4	3,539.73	4	3,181.10	4	2,822.46	4	2,463.82	4	2,105.19
1/4		1/4	4,964.68	1/4	4,607.14	1/4	4,249.52	1/4	3,890.90	1/4	3,532.26	1/4	3,173.63	1/4	2,814.99	1/4	2,456.35	1/4	2,097.72
1/2		1/2	4,957.25	1/2	4,599.69	1/2	4,242.06	1/2	3,883.43	1/2	3,524.79	1/2	3,166.15	1/2	2,807.52	1/2	2,448.88	1/2	2,090.25
3/4		3/4	4,949.81	3/4	4,592.24	3/4	4,234.59	3/4	3,875.96	3/4	3,517.32	3/4	3,158.68	3/4	2,800.05	3/4	2,441.41	3/4	2,082.78
5		5	4,942.37	5	4,584.79	5	4,227.12	5	3,868.49	5	3,509.85	5	3,151.21	5	2,792.57	5	2,433.94	5	2,075.30
1/4		1/4	4,934.92	1/4	4,577.34	1/4	4,219.65	1/4	3,861.01	1/4	3,502.38	1/4	3,143.74	1/4	2,785.10	1/4	2,426.47	1/4	2,067.83
1/2		1/2	4,927.48	1/2	4,569.89	1/2	4,212.18	1/2	3,853.54	1/2	3,494.91	1/2	3,136.27	1/2	2,777.63	1/2	2,418.99	1/2	2,060.36
3/4		3/4	4,920.03	3/4	4,562.44	3/4	4,204.71	3/4	3,846.07	3/4	3,487.43	3/4	3,128.80	3/4	2,770.16	3/4	2,411.52	3/4	2,052.89
6		6	4,912.58	6	4,554.99	6	4,197.24	6	3,838.60	6	3,479.96	6	3,121.33	6	2,762.69	6	2,404.05	6	2,045.42
1/4		1/4	4,905.13	1/4	4,547.54	1/4	4,189.76	1/4	3,831.13	1/4	3,472.49	1/4	3,113.85	1/4	2,755.22	1/4	2,396.58	1/4	2,037.95
1/2		1/2	4,897.68	1/2	4,540.09	1/2	4,182.29	1/2	3,823.66	1/2	3,465.02	1/2	3,106.38	1/2	2,747.75	1/2	2,389.11	1/2	2,030.48
3/4		3/4	4,890.23	3/4	4,532.64	3/4	4,174.82	3/4	3,816.18	3/4	3,457.55	3/4	3,098.91	3/4	2,740.27	3/4	2,381.64	3/4	2,023.00
7		7	4,882.78	7	4,525.19	7	4,167.35	7	3,808.71	7	3,450.08	7	3,091.44	7	2,732.80	7	2,374.17	7	2,015.53
1/4		1/4	4,875.33	1/4	4,517.74	1/4	4,159.88	1/4	3,801.24	1/4	3,442.60	1/4	3,083.97	1/4	2,725.33	1/4	2,366.69	1/4	2,008.06
1/2		1/2	4,867.88	1/2	4,510.29	1/2	4,152.41	1/2	3,793.77	1/2	3,435.13	1/2	3,076.50	1/2	2,717.86	1/2	2,359.22	1/2	2,000.59
3/4		3/4	4,860.43	3/4	4,502.84	3/4	4,144.93	3/4	3,786.30	3/4	3,427.66	3/4	3,069.02	3/4	2,710.39	3/4	2,351.75	3/4	1,993.12
8		8	4,852.98	8	4,495.39	8	4,137.46	8	3,778.83	8	3,420.19	8	3,061.55	8	2,702.92	8	2,344.28	8	1,985.65
1/4		1/4	4,845.53	1/4	4,487.94	1/4	4,129.99	1/4	3,771.35	1/4	3,412.72	1/4	3,054.08	1/4	2,695.44	1/4	2,336.81	1/4	1,978.17
1/2		1/2	4,838.08	1/2	4,480.49	1/2	4,122.52	1/2	3,763.88	1/2	3,405.25	1/2	3,046.61	1/2	2,687.97	1/2	2,329.34	1/2	1,970.70
3/4		3/4	4,830.63	3/4	4,473.04	3/4	4,115.05	3/4	3,756.41	3/4	3,397.77	3/4	3,039.14	3/4	2,680.50	3/4	2,321.86	3/4	1,963.23
9		9	4,823.18	9	4,465.59	9	4,107.58	9	3,748.94	9	3,390.30	9	3,031.67	9	2,673.03	9	2,314.39	9	1,955.76
1/4		1/4	4,815.73	1/4	4,458.14	1/4	4,100.10	1/4	3,741.47	1/4	3,382.83	1/4	3,024.19	1/4	2,665.56	1/4	2,306.92	1/4	1,948.29
1/2		1/2	4,808.28	1/2	4,450.69	1/2	4,092.63	1/2	3,734.00	1/2	3,375.36	1/2	3,016.72	1/2	2,658.09	1/2	2,299.45	1/2	1,940.82
3/4		3/4	4,800.83	3/4	4,443.24	3/4	4,085.16	3/4	3,726.52	3/4	3,367.89	3/4	3,009.25	3/4	2,650.61	3/4	2,291.98	3/4	1,933.35
10		10	4,793.38	10	4,435.79	10	4,077.69	10	3,719.05	10	3,360.42	10	3,001.78	10	2,643.14	10	2,284.51	10	1,925.87
1/4		1/4	4,785.93	1/4	4,428.34	1/4	4,070.22	1/4	3,711.58	1/4	3,352.94	1/4	2,994.31	1/4	2,635.67	1/4	2,277.03	1/4	1,918.40
1/2		1/2	4,778.48	1/2	4,420.89	1/2	4,062.75	1/2	3,704.11	1/2	3,345.47	1/2	2,986.84	1/2	2,628.20	1/2	2,269.56	1/2	1,910.93
3/4		3/4	4,771.03	3/4	4,413.44	3/4	4,055.28	3/4	3,696.64	3/4	3,338.00	3/4	2,979.36	3/4	2,620.73	3/4	2,262.09	3/4	1,903.46
11		11	4,763.58	11	4,405.99	11	4,047.80	11	3,689.17	11	3,330.53	11	2,971.89	11	2,613.26	11	2,254.62	11	1,895.99
1/4		1/4	4,756.13	1/4	4,398.54	1/4	4,040.33	1/4	3,681.70	1/4	3,323.06	1/4	2,964.42	1/4	2,605.78	1/4	2,247.15	1/4	1,888.52
1/2		1/2	4,748.68	1/2	4,391.09	1/2	4,032.86	1/2	3,674.22	1/2	3,315.59	1/2	2,956.95	1/2	2,598.31	1/2	2,239.68	1/2	1,881.05
3/4		3/4	4,741.23	3/4	4,383.64	3/4	4,025.39	3/4	3,666.75	3/4	3,308.12	3/4	2,949.48	3/4	2,590.84	3/4	2,232.21	3/4	1,873.57

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.

CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK AT GAUGE POINT.

CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN AT 8" DIAMETER HATCH OR 2" DIAMETER "HERMETIC" VALVE.

GAUGE POINT: (HERMETIC) LOCATED 12'-06" OFF CENTERLINE AND 38'-00" FORWARD OF AFT BULKHEAD.

GAUGE POINT: (8" HATCH) LOCATED 12'-06" OFF CENTERLINE AND 36'-06" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT  
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmacorp.net>



# BARGE "MMLP 331"

## 2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-02 3/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	1,866.10	0	1,511.24	0	1,152.61	0	794.96	0	442.21	0	87.57	0		0		0		0	
1/4	1,858.63	1/4	1,503.77	1/4	1,145.14	1/4	787.50	1/4	434.79	1/4	80.84	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,851.16	1/2	1,496.30	1/2	1,137.67	1/2	780.03	1/2	427.38	1/2	74.10	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,843.69	3/4	1,488.83	3/4	1,130.20	3/4	772.57	3/4	419.96	3/4	67.36	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	1,836.28	1	1,481.36	1	1,122.73	1	765.10	1	412.55	1	60.77	1	1	1	1	1	1	1	1
1/4	1,828.86	1/4	1,473.89	1/4	1,115.25	1/4	757.62	1/4	405.14	1/4	54.18	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,821.45	1/2	1,466.41	1/2	1,107.78	1/2	750.15	1/2	397.72	1/2	47.60	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,814.04	3/4	1,458.94	3/4	1,100.31	3/4	742.68	3/4	390.31	3/4	41.01	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	1,806.70	2	1,451.47	2	1,092.85	2	735.21	2	382.85	2	35.88	2	2	2	2	2	2	2	2
1/4	1,799.37	1/4	1,444.00	1/4	1,085.40	1/4	727.74	1/4	375.39	1/4	30.74	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,792.04	1/2	1,436.53	1/2	1,077.94	1/2	720.27	1/2	367.93	1/2	25.60	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,784.70	3/4	1,429.06	3/4	1,070.48	3/4	712.80	3/4	360.48	3/4	20.47	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	1,777.39	3	1,421.59	3	1,063.03	3	705.33	3	353.00	3		3	3	3	3	3	3	3	3
1/4	1,770.07	1/4	1,414.11	1/4	1,055.57	1/4	697.85	1/4	345.53	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,762.76	1/2	1,406.64	1/2	1,048.12	1/2	690.38	1/2	338.06	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,755.44	3/4	1,399.17	3/4	1,040.67	3/4	682.91	3/4	330.59	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	1,748.13	4	1,391.70	4	1,033.22	4	675.44	4	323.11	4	4	4	4	4	4	4	4	4	4
1/4	1,740.82	1/4	1,384.23	1/4	1,025.78	1/4	667.97	1/4	315.64	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,733.50	1/2	1,376.76	1/2	1,018.33	1/2	660.50	1/2	308.17	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,726.19	3/4	1,369.28	3/4	1,010.88	3/4	653.03	3/4	300.70	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	1,718.87	5	1,361.81	5	1,003.44	5	645.55	5	293.23	5	5	5	5	5	5	5	5	5	5
1/4	1,711.56	1/4	1,354.34	1/4	995.99	1/4	638.08	1/4	285.75	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,704.24	1/2	1,346.87	1/2	988.55	1/2	630.61	1/2	278.28	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,696.93	3/4	1,339.40	3/4	981.10	3/4	623.14	3/4	270.81	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	1,689.62	6	1,331.93	6	973.66	6	615.67	6	263.34	6	6	6	6	6	6	6	6	6	6
1/4	1,682.30	1/4	1,324.46	1/4	966.21	1/4	608.20	1/4	255.86	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,674.99	1/2	1,316.98	1/2	958.77	1/2	600.73	1/2	248.39	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,667.67	3/4	1,309.51	3/4	951.32	3/4	593.26	3/4	240.92	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	1,660.30	7	1,302.04	7	943.88	7	585.78	7	233.45	7	7	7	7	7	7	7	7	7	7
1/4	1,652.93	1/4	1,294.57	1/4	936.43	1/4	578.31	1/4	225.98	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,645.55	1/2	1,287.10	1/2	928.99	1/2	570.84	1/2	218.50	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,638.18	3/4	1,279.63	3/4	921.54	3/4	563.37	3/4	211.03	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	1,630.73	8	1,272.16	8	914.10	8	555.90	8	203.60	8	8	8	8	8	8	8	8	8	8
1/4	1,623.28	1/4	1,264.68	1/4	906.65	1/4	548.43	1/4	196.17	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,615.82	1/2	1,257.21	1/2	899.21	1/2	540.96	1/2	188.74	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,608.37	3/4	1,249.74	3/4	891.76	3/4	533.49	3/4	181.32	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	1,600.90	9	1,242.27	9	884.32	9	526.54	9	173.90	9	9	9	9	9	9	9	9	9	9
1/4	1,593.43	1/4	1,234.80	1/4	876.87	1/4	519.60	1/4	166.49	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,585.96	1/2	1,227.33	1/2	869.43	1/2	512.65	1/2	159.07	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,578.49	3/4	1,219.85	3/4	861.98	3/4	505.71	3/4	151.66	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	1,571.02	10	1,212.38	10	854.54	10	498.94	10	144.24	10	10	10	10	10	10	10	10	10	10
1/4	1,563.54	1/4	1,204.91	1/4	847.09	1/4	492.17	1/4	136.83	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,556.07	1/2	1,197.44	1/2	839.65	1/2	485.40	1/2	129.42	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,548.60	3/4	1,189.97	3/4	832.20	3/4	478.63	3/4	122.00	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	1,541.13	11	1,182.50	11	824.76	11	471.38	11	115.08	11	11	11	11	11	11	11	11	11	11
1/4	1,533.66	1/4	1,175.03	1/4	817.31	1/4	464.13	1/4	108.16	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,526.19	1/2	1,167.55	1/2	809.87	1/2	456.87	1/2	101.24	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,518.71	3/4	1,160.08	3/4	802.42	3/4	449.62	3/4	94.31	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 11/08/2018 CL  
CALCULATED: 11/13/2018 CL  
PRINTED: 11/13/2018 CL

PRECISION MEASUREMENT  
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CANCELS AND SUPERCEDES  
ALL PRIOR TO 11/2018





# BARGE "MMLP 331"

## 2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-02 3/4"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT
0		0		0	4,711.09	0	4,354.01	0	3,996.25	0	3,638.13	0	3,280.02	0	2,921.91	0	2,563.79	0	2,205.68
1/4		1/4	5,042.43	1/4	4,703.65	1/4	4,346.57	1/4	3,988.79	1/4	3,630.67	1/4	3,272.56	1/4	2,914.45	1/4	2,556.33	1/4	2,198.22
1/2		1/2	5,038.07	1/2	4,696.21	1/2	4,339.14	1/2	3,981.33	1/2	3,623.21	1/2	3,265.10	1/2	2,906.98	1/2	2,548.87	1/2	2,190.76
3/4		3/4	5,033.71	3/4	4,688.77	3/4	4,331.70	3/4	3,973.86	3/4	3,615.75	3/4	3,257.64	3/4	2,899.52	3/4	2,541.41	3/4	2,183.30
1		1	5,028.28	1	4,681.33	1	4,324.26	1	3,966.40	1	3,608.29	1	3,250.18	1	2,892.06	1	2,533.95	1	2,175.84
1/4		1/4	5,022.86	1/4	4,673.89	1/4	4,316.82	1/4	3,958.94	1/4	3,600.83	1/4	3,242.72	1/4	2,884.60	1/4	2,526.49	1/4	2,168.38
1/2		1/2	5,017.43	1/2	4,666.45	1/2	4,309.38	1/2	3,951.48	1/2	3,593.37	1/2	3,235.26	1/2	2,877.14	1/2	2,519.03	1/2	2,160.92
3/4		3/4	5,012.01	3/4	4,659.01	3/4	4,301.94	3/4	3,944.02	3/4	3,585.91	3/4	3,227.79	3/4	2,869.68	3/4	2,511.57	3/4	2,153.46
2		2	5,005.40	2	4,651.57	2	4,294.50	2	3,936.56	2	3,578.45	2	3,220.33	2	2,862.22	2	2,504.11	2	2,146.00
1/4		1/4	4,998.80	1/4	4,644.13	1/4	4,287.06	1/4	3,929.10	1/4	3,570.99	1/4	3,212.87	1/4	2,854.76	1/4	2,496.65	1/4	2,138.54
1/2		1/2	4,992.20	1/2	4,636.70	1/2	4,279.62	1/2	3,921.64	1/2	3,563.53	1/2	3,205.41	1/2	2,847.30	1/2	2,489.19	1/2	2,131.07
3/4		3/4	4,985.60	3/4	4,629.26	3/4	4,272.18	3/4	3,914.18	3/4	3,556.07	3/4	3,197.95	3/4	2,839.84	3/4	2,481.72	3/4	2,123.61
3		3	4,978.32	3	4,621.82	3	4,264.75	3	3,906.72	3	3,548.60	3	3,190.49	3	2,832.38	3	2,474.26	3	2,116.15
1/4		1/4	4,971.04	1/4	4,614.38	1/4	4,257.31	1/4	3,899.26	1/4	3,541.14	1/4	3,183.03	1/4	2,824.92	1/4	2,466.80	1/4	2,108.69
1/2		1/2	4,963.76	1/2	4,606.94	1/2	4,249.87	1/2	3,891.80	1/2	3,533.68	1/2	3,175.57	1/2	2,817.46	1/2	2,459.34	1/2	2,101.23
3/4		3/4	4,956.49	3/4	4,599.50	3/4	4,242.43	3/4	3,884.34	3/4	3,526.22	3/4	3,168.11	3/4	2,810.00	3/4	2,451.88	3/4	2,093.77
4		4	4,949.06	4	4,592.06	4	4,234.97	4	3,876.88	4	3,518.76	4	3,160.65	4	2,802.53	4	2,444.42	4	2,086.31
1/4		1/4	4,941.64	1/4	4,584.62	1/4	4,227.52	1/4	3,869.42	1/4	3,511.30	1/4	3,153.19	1/4	2,795.07	1/4	2,436.96	1/4	2,078.85
1/2		1/2	4,934.22	1/2	4,577.18	1/2	4,220.06	1/2	3,861.95	1/2	3,503.84	1/2	3,145.73	1/2	2,787.61	1/2	2,429.50	1/2	2,071.39
3/4		3/4	4,926.79	3/4	4,569.74	3/4	4,212.61	3/4	3,854.49	3/4	3,496.38	3/4	3,138.27	3/4	2,780.15	3/4	2,422.04	3/4	2,063.93
5		5	4,919.36	5	4,562.31	5	4,205.15	5	3,847.03	5	3,488.92	5	3,130.81	5	2,772.69	5	2,414.58	5	2,056.47
1/4		1/4	4,911.93	1/4	4,554.87	1/4	4,197.69	1/4	3,839.57	1/4	3,481.46	1/4	3,123.35	1/4	2,765.23	1/4	2,407.12	1/4	2,049.01
1/2		1/2	4,904.49	1/2	4,547.43	1/2	4,190.23	1/2	3,832.11	1/2	3,474.00	1/2	3,115.88	1/2	2,757.77	1/2	2,399.66	1/2	2,041.55
3/4		3/4	4,897.06	3/4	4,539.99	3/4	4,182.76	3/4	3,824.65	3/4	3,466.54	3/4	3,108.42	3/4	2,750.31	3/4	2,392.20	3/4	2,034.09
6		6	4,889.62	6	4,532.55	6	4,175.30	6	3,817.19	6	3,459.08	6	3,100.96	6	2,742.85	6	2,384.74	6	2,026.62
1/4		1/4	4,882.18	1/4	4,525.11	1/4	4,167.84	1/4	3,809.73	1/4	3,451.62	1/4	3,093.50	1/4	2,735.39	1/4	2,377.28	1/4	2,019.16
1/2		1/2	4,874.74	1/2	4,517.67	1/2	4,160.38	1/2	3,802.27	1/2	3,444.16	1/2	3,086.04	1/2	2,727.93	1/2	2,369.81	1/2	2,011.70
3/4		3/4	4,867.30	3/4	4,510.23	3/4	4,152.92	3/4	3,794.81	3/4	3,436.69	3/4	3,078.58	3/4	2,720.47	3/4	2,362.35	3/4	2,004.24
7		7	4,859.87	7	4,502.79	7	4,145.46	7	3,787.35	7	3,429.23	7	3,071.12	7	2,713.01	7	2,354.89	7	1,996.78
1/4		1/4	4,852.43	1/4	4,495.35	1/4	4,138.00	1/4	3,779.89	1/4	3,421.77	1/4	3,063.66	1/4	2,705.55	1/4	2,347.43	1/4	1,989.32
1/2		1/2	4,844.99	1/2	4,487.92	1/2	4,130.54	1/2	3,772.43	1/2	3,414.31	1/2	3,056.20	1/2	2,698.09	1/2	2,339.97	1/2	1,981.86
3/4		3/4	4,837.55	3/4	4,480.48	3/4	4,123.08	3/4	3,764.97	3/4	3,406.85	3/4	3,048.74	3/4	2,690.62	3/4	2,332.51	3/4	1,974.40
8		8	4,830.11	8	4,473.04	8	4,115.62	8	3,757.50	8	3,399.39	8	3,041.28	8	2,683.16	8	2,325.05	8	1,966.94
1/4		1/4	4,822.67	1/4	4,465.60	1/4	4,108.16	1/4	3,750.04	1/4	3,391.93	1/4	3,033.82	1/4	2,675.70	1/4	2,317.59	1/4	1,959.48
1/2		1/2	4,815.23	1/2	4,458.16	1/2	4,100.70	1/2	3,742.58	1/2	3,384.47	1/2	3,026.36	1/2	2,668.24	1/2	2,310.13	1/2	1,952.02
3/4		3/4	4,807.79	3/4	4,450.72	3/4	4,093.24	3/4	3,735.12	3/4	3,377.01	3/4	3,018.90	3/4	2,660.78	3/4	2,302.67	3/4	1,944.56
9		9	4,800.35	9	4,443.28	9	4,085.78	9	3,727.66	9	3,369.55	9	3,011.43	9	2,653.32	9	2,295.21	9	1,937.10
1/4		1/4	4,792.91	1/4	4,435.84	1/4	4,078.31	1/4	3,720.20	1/4	3,362.09	1/4	3,003.97	1/4	2,645.86	1/4	2,287.75	1/4	1,929.64
1/2		1/2	4,785.48	1/2	4,428.40	1/2	4,070.85	1/2	3,712.74	1/2	3,354.63	1/2	2,996.51	1/2	2,638.40	1/2	2,280.29	1/2	1,922.18
3/4		3/4	4,778.04	3/4	4,420.96	3/4	4,063.39	3/4	3,705.28	3/4	3,347.17	3/4	2,989.05	3/4	2,630.94	3/4	2,272.83	3/4	1,914.71
10		10	4,770.60	10	4,413.53	10	4,055.93	10	3,697.82	10	3,339.71	10	2,981.59	10	2,623.48	10	2,265.37	10	1,907.25
1/4		1/4	4,763.16	1/4	4,406.09	1/4	4,048.47	1/4	3,690.36	1/4	3,332.24	1/4	2,974.13	1/4	2,616.02	1/4	2,257.91	1/4	1,899.79
1/2		1/2	4,755.72	1/2	4,398.65	1/2	4,041.01	1/2	3,682.90	1/2	3,324.78	1/2	2,966.67	1/2	2,608.56	1/2	2,250.45	1/2	1,892.33
3/4		3/4	4,748.28	3/4	4,391.21	3/4	4,033.55	3/4	3,675.44	3/4	3,317.32	3/4	2,959.21	3/4	2,601.10	3/4	2,242.99	3/4	1,884.87
11		11	4,740.84	11	4,383.77	11	4,026.09	11	3,667.98	11	3,309.86	11	2,951.75	11	2,593.64	11	2,235.52	11	1,877.41
1/4		1/4	4,733.40	1/4	4,376.33	1/4	4,018.63	1/4	3,660.52	1/4	3,302.40	1/4	2,944.29	1/4	2,586.17	1/4	2,228.06	1/4	1,869.95
1/2		1/2	4,725.96	1/2	4,368.89	1/2	4,011.17	1/2	3,653.05	1/2	3,294.94	1/2	2,936.83	1/2	2,578.71	1/2	2,220.60	1/2	1,862.49
3/4		3/4	4,718.52	3/4	4,361.45	3/4	4,003.71	3/4	3,645.59	3/4	3,287.48	3/4	2,929.37	3/4	2,571.25	3/4	2,213.14	3/4	1,855.03

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.

CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK AT GAUGE POINT.

CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN AT 8" DIAMETER HATCH OR 2" DIAMETER "HERMETIC" VALVE.

GAUGE POINT: (HERMETIC) LOCATED 12'-06" OFF CENTERLINE AND 38'-00" FORWARD OF AFT BULKHEAD.

GAUGE POINT: (8" HATCH) LOCATED 12'-06" OFF CENTERLINE AND 36'-06" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT  
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

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# BARGE "MMLP 331"

## 2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-02 3/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	1,847.57	0	1,493.24	0	1,135.12	0	791.14	0	441.55	0	87.44	0		0		0		0	
1/4	1,840.11	1/4	1,485.78	1/4	1,127.66	1/4	784.02	1/4	434.15	1/4	80.71	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,832.65	1/2	1,478.32	1/2	1,120.20	1/2	776.89	1/2	426.74	1/2	73.99	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,825.19	3/4	1,470.85	3/4	1,112.74	3/4	769.77	3/4	419.34	3/4	67.26	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	1,817.78	1	1,463.39	1	1,105.28	1	762.64	1	411.93	1	60.68	1	1	1	1	1	1	1	1
1/4	1,810.38	1/4	1,455.93	1/4	1,097.82	1/4	755.51	1/4	404.53	1/4	54.11	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,802.98	1/2	1,448.47	1/2	1,090.36	1/2	748.37	1/2	397.13	1/2	47.53	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,795.58	3/4	1,441.01	3/4	1,082.90	3/4	741.24	3/4	389.72	3/4	40.96	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	1,788.26	2	1,433.55	2	1,075.70	2	733.86	2	382.28	2	35.83	2	2	2	2	2	2	2	2
1/4	1,780.93	1/4	1,426.09	1/4	1,068.50	1/4	726.49	1/4	374.83	1/4	30.70	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,773.61	1/2	1,418.63	1/2	1,061.30	1/2	719.11	1/2	367.38	1/2	25.57	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,766.29	3/4	1,411.17	3/4	1,054.10	3/4	711.73	3/4	359.94	3/4	20.44	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	1,758.99	3	1,403.71	3	1,046.99	3	704.27	3	352.48	3		3	3	3	3	3	3	3	3
1/4	1,751.68	1/4	1,396.25	1/4	1,039.87	1/4	696.81	1/4	345.01	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,744.38	1/2	1,388.79	1/2	1,032.76	1/2	689.35	1/2	337.55	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,737.08	3/4	1,381.33	3/4	1,025.65	3/4	681.89	3/4	330.09	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	1,729.77	4	1,373.87	4	1,018.54	4	674.43	4	322.63	4		4	4	4	4	4	4	4	4
1/4	1,722.47	1/4	1,366.41	1/4	1,011.43	1/4	666.97	1/4	315.17	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,715.17	1/2	1,358.94	1/2	1,004.32	1/2	659.51	1/2	307.71	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,707.86	3/4	1,351.48	3/4	997.22	3/4	652.05	3/4	300.25	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	1,700.56	5	1,344.02	5	990.11	5	644.58	5	292.79	5		5	5	5	5	5	5	5	5
1/4	1,693.26	1/4	1,336.56	1/4	983.01	1/4	637.12	1/4	285.32	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,685.95	1/2	1,329.10	1/2	975.90	1/2	629.66	1/2	277.86	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,678.65	3/4	1,321.64	3/4	968.80	3/4	622.20	3/4	270.40	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	1,671.35	6	1,314.18	6	961.69	6	614.74	6	262.94	6		6	6	6	6	6	6	6	6
1/4	1,664.04	1/4	1,306.72	1/4	954.59	1/4	607.28	1/4	255.48	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,656.74	1/2	1,299.26	1/2	947.48	1/2	599.82	1/2	248.02	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,649.44	3/4	1,291.80	3/4	940.37	3/4	592.36	3/4	240.56	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	1,642.07	7	1,284.34	7	933.27	7	584.90	7	233.09	7		7	7	7	7	7	7	7	7
1/4	1,634.71	1/4	1,276.88	1/4	926.16	1/4	577.44	1/4	225.63	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,627.35	1/2	1,269.42	1/2	919.06	1/2	569.98	1/2	218.17	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,619.99	3/4	1,261.96	3/4	911.95	3/4	562.52	3/4	210.71	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	1,612.55	8	1,254.49	8	904.85	8	555.06	8	203.29	8		8	8	8	8	8	8	8	8
1/4	1,605.11	1/4	1,247.03	1/4	897.74	1/4	547.60	1/4	195.87	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,597.67	1/2	1,239.57	1/2	890.64	1/2	540.14	1/2	188.46	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,590.23	3/4	1,232.11	3/4	883.53	3/4	532.68	3/4	181.04	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	1,582.77	9	1,224.65	9	876.43	9	525.75	9	173.63	9		9	9	9	9	9	9	9	9
1/4	1,575.30	1/4	1,217.19	1/4	869.32	1/4	518.81	1/4	166.23	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,567.84	1/2	1,209.73	1/2	862.22	1/2	511.88	1/2	158.83	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,560.38	3/4	1,202.27	3/4	855.11	3/4	504.95	3/4	151.42	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	1,552.92	10	1,194.81	10	848.01	10	498.19	10	144.02	10		10	10	10	10	10	10	10	10
1/4	1,545.46	1/4	1,187.35	1/4	840.90	1/4	491.43	1/4	136.62	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,538.00	1/2	1,179.89	1/2	833.80	1/2	484.68	1/2	129.22	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,530.54	3/4	1,172.43	3/4	826.69	3/4	477.92	3/4	121.81	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	1,523.08	11	1,164.97	11	819.58	11	470.68	11	114.90	11		11	11	11	11	11	11	11	11
1/4	1,515.62	1/4	1,157.51	1/4	812.48	1/4	463.44	1/4	107.99	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,508.16	1/2	1,150.04	1/2	805.37	1/2	456.19	1/2	101.08	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,500.70	3/4	1,142.58	3/4	798.27	3/4	448.95	3/4	94.17	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 11/08/2018 CL  
CALCULATED: 11/13/2018 CL  
PRINTED: 11/13/2018 CL

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CANCELS AND SUPERCEDES  
ALL PRIOR TO 11/2018



# BARGE "MMLP 331"

## 1 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-02 1/2"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT
0		0	5,001.66	0	4,662.70	0	4,305.44	0	3,947.46	0	3,589.16	0	3,230.86	0	2,872.56	0	2,514.25	0	2,155.96
1/4	1/4	1/4	4,997.30	1/4	4,655.26	1/4	4,298.00	1/4	3,939.99	1/4	3,581.69	1/4	3,223.39	1/4	2,865.09	1/4	2,506.79	1/4	2,148.49
1/2	1/2	1/2	4,992.94	1/2	4,647.81	1/2	4,290.55	1/2	3,932.53	1/2	3,574.23	1/2	3,215.93	1/2	2,857.63	1/2	2,499.33	1/2	2,141.03
3/4	3/4	3/4	4,987.51	3/4	4,640.37	3/4	4,283.11	3/4	3,925.06	3/4	3,566.76	3/4	3,208.46	3/4	2,850.16	3/4	2,491.86	3/4	2,133.56
1	1	1	4,982.08	1	4,632.93	1	4,275.67	1	3,917.60	1	3,559.30	1	3,201.00	1	2,842.70	1	2,484.40	1	2,126.10
1/4	1/4	1/4	4,976.65	1/4	4,625.48	1/4	4,268.22	1/4	3,910.14	1/4	3,551.83	1/4	3,193.53	1/4	2,835.23	1/4	2,476.93	1/4	2,118.63
1/2	1/2	1/2	4,971.23	1/2	4,618.04	1/2	4,260.78	1/2	3,902.67	1/2	3,544.37	1/2	3,186.07	1/2	2,827.77	1/2	2,469.47	1/2	2,111.17
3/4	3/4	3/4	4,964.62	3/4	4,610.60	3/4	4,253.34	3/4	3,895.21	3/4	3,536.91	3/4	3,178.60	3/4	2,820.30	3/4	2,462.00	3/4	2,103.70
2	2	2	4,958.02	2	4,603.16	2	4,245.90	2	3,887.74	2	3,529.44	2	3,171.14	2	2,812.84	2	2,454.54	2	2,096.24
1/4	1/4	1/4	4,951.41	1/4	4,595.71	1/4	4,238.45	1/4	3,880.28	1/4	3,521.98	1/4	3,163.68	1/4	2,805.37	1/4	2,447.07	1/4	2,088.77
1/2	1/2	1/2	4,944.81	1/2	4,588.27	1/2	4,231.01	1/2	3,872.81	1/2	3,514.51	1/2	3,156.21	1/2	2,797.91	1/2	2,439.61	1/2	2,081.31
3/4	3/4	3/4	4,937.53	3/4	4,580.83	3/4	4,223.57	3/4	3,865.35	3/4	3,507.05	3/4	3,148.75	3/4	2,790.45	3/4	2,432.14	3/4	2,073.85
3	3	3	4,930.24	3	4,573.38	3	4,216.12	3	3,857.88	3	3,499.58	3	3,141.28	3	2,782.98	3	2,424.68	3	2,066.38
1/4	1/4	1/4	4,922.96	1/4	4,565.94	1/4	4,208.68	1/4	3,850.42	1/4	3,492.12	1/4	3,133.82	1/4	2,775.52	1/4	2,417.22	1/4	2,058.92
1/2	1/2	1/2	4,915.68	1/2	4,558.50	1/2	4,201.24	1/2	3,842.95	1/2	3,484.65	1/2	3,126.35	1/2	2,768.05	1/2	2,409.75	1/2	2,051.45
3/4	3/4	3/4	4,908.25	3/4	4,551.05	3/4	4,193.78	3/4	3,835.49	3/4	3,477.19	3/4	3,118.89	3/4	2,760.59	3/4	2,402.29	3/4	2,043.99
4	4	4	4,900.82	4	4,543.61	4	4,186.32	4	3,828.02	4	3,469.72	4	3,111.42	4	2,753.12	4	2,394.82	4	2,036.52
1/4	1/4	1/4	4,893.40	1/4	4,536.17	1/4	4,178.86	1/4	3,820.56	1/4	3,462.26	1/4	3,103.96	1/4	2,745.66	1/4	2,387.36	1/4	2,029.06
1/2	1/2	1/2	4,885.97	1/2	4,528.73	1/2	4,171.40	1/2	3,813.10	1/2	3,454.79	1/2	3,096.49	1/2	2,738.19	1/2	2,379.89	1/2	2,021.59
3/4	3/4	3/4	4,878.53	3/4	4,521.28	3/4	4,163.93	3/4	3,805.63	3/4	3,447.33	3/4	3,089.03	3/4	2,730.73	3/4	2,372.43	3/4	2,014.13
5	5	5	4,871.09	5	4,513.84	5	4,156.47	5	3,798.17	5	3,439.87	5	3,081.56	5	2,723.26	5	2,364.96	5	2,006.66
1/4	1/4	1/4	4,863.65	1/4	4,506.40	1/4	4,149.00	1/4	3,790.70	1/4	3,432.40	1/4	3,074.10	1/4	2,715.80	1/4	2,357.50	1/4	1,999.20
1/2	1/2	1/2	4,856.21	1/2	4,498.95	1/2	4,141.54	1/2	3,783.24	1/2	3,424.94	1/2	3,066.64	1/2	2,708.33	1/2	2,350.03	1/2	1,991.73
3/4	3/4	3/4	4,848.77	3/4	4,491.51	3/4	4,134.07	3/4	3,775.77	3/4	3,417.47	3/4	3,059.17	3/4	2,700.87	3/4	2,342.57	3/4	1,984.27
6	6	6	4,841.33	6	4,484.07	6	4,126.61	6	3,768.31	6	3,410.01	6	3,051.71	6	2,693.41	6	2,335.10	6	1,976.81
1/4	1/4	1/4	4,833.89	1/4	4,476.63	1/4	4,119.14	1/4	3,760.84	1/4	3,402.54	1/4	3,044.24	1/4	2,685.94	1/4	2,327.64	1/4	1,969.34
1/2	1/2	1/2	4,826.44	1/2	4,469.18	1/2	4,111.68	1/2	3,753.38	1/2	3,395.08	1/2	3,036.78	1/2	2,678.48	1/2	2,320.18	1/2	1,961.88
3/4	3/4	3/4	4,819.00	3/4	4,461.74	3/4	4,104.21	3/4	3,745.91	3/4	3,387.61	3/4	3,029.31	3/4	2,671.01	3/4	2,312.71	3/4	1,954.41
7	7	7	4,811.56	7	4,454.30	7	4,096.75	7	3,738.45	7	3,380.15	7	3,021.85	7	2,663.55	7	2,305.25	7	1,946.95
1/4	1/4	1/4	4,804.11	1/4	4,446.85	1/4	4,089.29	1/4	3,730.98	1/4	3,372.68	1/4	3,014.38	1/4	2,656.08	1/4	2,297.78	1/4	1,939.48
1/2	1/2	1/2	4,796.67	1/2	4,439.41	1/2	4,081.82	1/2	3,723.52	1/2	3,365.22	1/2	3,006.92	1/2	2,648.62	1/2	2,290.32	1/2	1,932.02
3/4	3/4	3/4	4,789.23	3/4	4,431.97	3/4	4,074.36	3/4	3,716.06	3/4	3,357.75	3/4	2,999.45	3/4	2,641.15	3/4	2,282.85	3/4	1,924.55
8	8	8	4,781.78	8	4,424.53	8	4,066.89	8	3,708.59	8	3,350.29	8	2,991.99	8	2,633.69	8	2,275.39	8	1,917.09
1/4	1/4	1/4	4,774.34	1/4	4,417.08	1/4	4,059.43	1/4	3,701.13	1/4	3,342.83	1/4	2,984.52	1/4	2,626.22	1/4	2,267.92	1/4	1,909.62
1/2	1/2	1/2	4,766.90	1/2	4,409.64	1/2	4,051.96	1/2	3,693.66	1/2	3,335.36	1/2	2,977.06	1/2	2,618.76	1/2	2,260.46	1/2	1,902.16
3/4	3/4	3/4	4,759.46	3/4	4,402.20	3/4	4,044.50	3/4	3,686.20	3/4	3,327.90	3/4	2,969.60	3/4	2,611.29	3/4	2,252.99	3/4	1,894.69
9	9	9	4,752.01	9	4,394.75	9	4,037.03	9	3,678.73	9	3,320.43	9	2,962.13	9	2,603.83	9	2,245.53	9	1,887.23
1/4	1/4	1/4	4,744.57	1/4	4,387.31	1/4	4,029.57	1/4	3,671.27	1/4	3,312.97	1/4	2,954.67	1/4	2,596.37	1/4	2,238.07	1/4	1,879.77
1/2	1/2	1/2	4,737.13	1/2	4,379.87	1/2	4,022.10	1/2	3,663.80	1/2	3,305.50	1/2	2,947.20	1/2	2,588.90	1/2	2,230.60	1/2	1,872.30
3/4	3/4	3/4	4,729.68	3/4	4,372.43	3/4	4,014.64	3/4	3,656.34	3/4	3,298.04	3/4	2,939.74	3/4	2,581.44	3/4	2,223.14	3/4	1,864.84
10	10	10	4,722.24	10	4,364.98	10	4,007.17	10	3,648.87	10	3,290.57	10	2,932.27	10	2,573.97	10	2,215.67	10	1,857.37
1/4	1/4	1/4	4,714.80	1/4	4,357.54	1/4	3,999.71	1/4	3,641.41	1/4	3,283.11	1/4	2,924.81	1/4	2,566.51	1/4	2,208.21	1/4	1,849.91
1/2	1/2	1/2	4,707.36	1/2	4,350.10	1/2	3,992.25	1/2	3,633.94	1/2	3,275.64	1/2	2,917.34	1/2	2,559.04	1/2	2,200.74	1/2	1,842.44
3/4	3/4	3/4	4,699.91	3/4	4,342.65	3/4	3,984.78	3/4	3,626.48	3/4	3,268.18	3/4	2,909.88	3/4	2,551.58	3/4	2,193.28	3/4	1,834.98
11	11	11	4,692.47	11	4,335.21	11	3,977.32	11	3,619.02	11	3,260.71	11	2,902.41	11	2,544.11	11	2,185.81	11	1,827.51
1/4	1/4	1/4	4,685.03	1/4	4,327.77	1/4	3,969.85	1/4	3,611.55	1/4	3,253.25	1/4	2,894.95	1/4	2,536.65	1/4	2,178.35	1/4	1,820.05
1/2	1/2	1/2	4,677.58	1/2	4,320.32	1/2	3,962.39	1/2	3,604.09	1/2	3,245.79	1/2	2,887.48	1/2	2,529.18	1/2	2,170.88	1/2	1,812.58
3/4	3/4	3/4	4,670.14	3/4	4,312.88	3/4	3,954.92	3/4	3,596.62	3/4	3,238.32	3/4	2,880.02	3/4	2,521.72	3/4	2,163.42	3/4	1,805.12

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.  
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.  
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK AT GAUGE POINT.  
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN AT 8" DIAMETER HATCH OR 2" DIAMETER "HERMETIC" VALVE.  
 GAUGE POINT: (HERMETIC) LOCATED 12'-06" OFF CENTERLINE AND 37'-09" FORWARD OF AFT BULKHEAD.  
 GAUGE POINT: (8" HATCH) LOCATED 12'-06" OFF CENTERLINE AND 36'-03" FORWARD OF AFT BULKHEAD.

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



# BARGE "MMLP 331"

## 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	1,797.65	0	1,439.46	0	1,081.16	0	723.85	0	372.46	0	53.33	0		0		0		0	
1/4	1,790.19	1/4	1,431.99	1/4	1,073.69	1/4	716.39	1/4	365.25	1/4	47.84	1/4		1/4		1/4		1/4	
1/2	1,782.73	1/2	1,424.53	1/2	1,066.23	1/2	708.93	1/2	358.04	1/2	42.35	1/2		1/2		1/2		1/2	
3/4	1,775.26	3/4	1,417.06	3/4	1,058.76	3/4	701.47	3/4	350.91	3/4	37.10	3/4		3/4		3/4		3/4	
1	1,767.80	1	1,409.60	1	1,051.30	1	694.00	1	343.79	1	31.85	1		1		1		1	
1/4	1,760.34	1/4	1,402.13	1/4	1,043.83	1/4	686.54	1/4	336.66	1/4	26.60	1/4		1/4		1/4		1/4	
1/2	1,752.87	1/2	1,394.67	1/2	1,036.37	1/2	679.07	1/2	329.54	1/2	21.35	1/2		1/2		1/2		1/2	
3/4	1,745.41	3/4	1,387.20	3/4	1,028.92	3/4	671.61	3/4	322.46	3/4	17.63	3/4		3/4		3/4		3/4	
2	1,737.95	2	1,379.74	2	1,021.47	2	664.15	2	315.38	2	13.91	2		2		2		2	
1/4	1,730.49	1/4	1,372.28	1/4	1,014.02	1/4	656.68	1/4	308.30	1/4	10.19	1/4		1/4		1/4		1/4	
1/2	1,723.03	1/2	1,364.81	1/2	1,006.57	1/2	649.22	1/2	301.22	1/2	6.48	1/2		1/2		1/2		1/2	
3/4	1,715.57	3/4	1,357.35	3/4	999.12	3/4	641.75	3/4	294.21	3/4		3/4		3/4		3/4		3/4	
3	1,708.11	3	1,349.88	3	991.67	3	634.29	3	287.20	3		3		3		3		3	
1/4	1,700.65	1/4	1,342.42	1/4	984.23	1/4	626.82	1/4	280.19	1/4		1/4		1/4		1/4		1/4	
1/2	1,693.19	1/2	1,334.95	1/2	976.78	1/2	619.36	1/2	273.18	1/2		1/2		1/2		1/2		1/2	
3/4	1,685.73	3/4	1,327.49	3/4	969.34	3/4	611.90	3/4	266.26	3/4		3/4		3/4		3/4		3/4	
4	1,678.27	4	1,320.02	4	961.90	4	604.43	4	259.34	4		4		4		4		4	
1/4	1,670.81	1/4	1,312.56	1/4	954.46	1/4	596.97	1/4	252.42	1/4		1/4		1/4		1/4		1/4	
1/2	1,663.35	1/2	1,305.09	1/2	947.02	1/2	589.50	1/2	245.50	1/2		1/2		1/2		1/2		1/2	
3/4	1,655.89	3/4	1,297.63	3/4	939.58	3/4	582.04	3/4	238.67	3/4		3/4		3/4		3/4		3/4	
5	1,648.43	5	1,290.16	5	932.15	5	574.57	5	231.83	5		5		5		5		5	
1/4	1,640.97	1/4	1,282.70	1/4	924.71	1/4	567.11	1/4	225.00	1/4		1/4		1/4		1/4		1/4	
1/2	1,633.51	1/2	1,275.24	1/2	917.27	1/2	559.65	1/2	218.16	1/2		1/2		1/2		1/2		1/2	
3/4	1,626.04	3/4	1,267.77	3/4	909.83	3/4	552.18	3/4	211.42	3/4		3/4		3/4		3/4		3/4	
6	1,618.58	6	1,260.31	6	902.40	6	544.72	6	204.67	6		6		6		6		6	
1/4	1,611.12	1/4	1,252.84	1/4	894.96	1/4	537.25	1/4	197.92	1/4		1/4		1/4		1/4		1/4	
1/2	1,603.66	1/2	1,245.38	1/2	887.52	1/2	529.79	1/2	191.17	1/2		1/2		1/2		1/2		1/2	
3/4	1,596.20	3/4	1,237.91	3/4	880.08	3/4	522.32	3/4	184.52	3/4		3/4		3/4		3/4		3/4	
7	1,588.74	7	1,230.45	7	872.64	7	514.86	7	177.86	7		7		7		7		7	
1/4	1,581.28	1/4	1,222.98	1/4	865.21	1/4	507.40	1/4	171.20	1/4		1/4		1/4		1/4		1/4	
1/2	1,573.82	1/2	1,215.52	1/2	857.77	1/2	499.93	1/2	164.54	1/2		1/2		1/2		1/2		1/2	
3/4	1,566.35	3/4	1,208.05	3/4	850.33	3/4	492.47	3/4	158.01	3/4		3/4		3/4		3/4		3/4	
8	1,558.89	8	1,200.59	8	842.89	8	485.00	8	151.48	8		8		8		8		8	
1/4	1,551.42	1/4	1,193.12	1/4	835.46	1/4	477.54	1/4	144.95	1/4		1/4		1/4		1/4		1/4	
1/2	1,543.96	1/2	1,185.66	1/2	828.02	1/2	470.07	1/2	138.42	1/2		1/2		1/2		1/2		1/2	
3/4	1,536.50	3/4	1,178.20	3/4	820.58	3/4	463.14	3/4	131.99	3/4		3/4		3/4		3/4		3/4	
9	1,529.03	9	1,170.73	9	813.14	9	456.20	9	125.56	9		9		9		9		9	
1/4	1,521.57	1/4	1,163.27	1/4	805.70	1/4	449.27	1/4	119.13	1/4		1/4		1/4		1/4		1/4	
1/2	1,514.10	1/2	1,155.80	1/2	798.27	1/2	442.33	1/2	112.71	1/2		1/2		1/2		1/2		1/2	
3/4	1,506.64	3/4	1,148.34	3/4	790.83	3/4	435.61	3/4	106.37	3/4		3/4		3/4		3/4		3/4	
10	1,499.17	10	1,140.87	10	783.39	10	428.88	10	100.03	10		10		10		10		10	
1/4	1,491.71	1/4	1,133.41	1/4	775.95	1/4	422.15	1/4	93.69	1/4		1/4		1/4		1/4		1/4	
1/2	1,484.24	1/2	1,125.94	1/2	768.51	1/2	415.43	1/2	87.35	1/2		1/2		1/2		1/2		1/2	
3/4	1,476.78	3/4	1,118.48	3/4	761.08	3/4	408.29	3/4	81.59	3/4		3/4		3/4		3/4		3/4	
11	1,469.31	11	1,111.01	11	753.64	11	401.16	11	75.83	11		11		11		11		11	
1/4	1,461.85	1/4	1,103.55	1/4	746.20	1/4	394.02	1/4	70.07	1/4		1/4		1/4		1/4		1/4	
1/2	1,454.39	1/2	1,096.08	1/2	738.76	1/2	386.88	1/2	64.31	1/2		1/2		1/2		1/2		1/2	
3/4	1,446.92	3/4	1,088.62	3/4	731.31	3/4	379.67	3/4	58.82	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 11/08/2018 CL  
CALCULATED: 11/13/2018 CL  
PRINTED: 11/13/2018 CL

PRECISION MEASUREMENT  
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CANCELS AND SUPERCEDES  
ALL PRIOR TO 11/2018



# BARGE "MMLP 331"

# 1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-02 1/2"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT
0		0	5,001.74	0	4,662.65	0	4,305.28	0	3,947.21	0	3,588.79	0	3,230.37	0	2,871.95	0	2,513.53	0	2,155.11
1/4		1/4	4,997.37	1/4	4,655.21	1/4	4,297.84	1/4	3,939.74	1/4	3,581.32	1/4	3,222.90	1/4	2,864.48	1/4	2,506.06	1/4	2,147.64
1/2		1/2	4,993.01	1/2	4,647.76	1/2	4,290.39	1/2	3,932.28	1/2	3,573.86	1/2	3,215.44	1/2	2,857.02	1/2	2,498.59	1/2	2,140.18
3/4		3/4	4,987.58	3/4	4,640.32	3/4	4,282.95	3/4	3,924.81	3/4	3,566.39	3/4	3,207.97	3/4	2,849.55	3/4	2,491.13	3/4	2,132.71
1		1	4,982.15	1	4,632.87	1	4,275.50	1	3,917.34	1	3,558.92	1	3,200.50	1	2,842.08	1	2,483.66	1	2,125.24
1/4		1/4	4,976.72	1/4	4,625.43	1/4	4,268.06	1/4	3,909.88	1/4	3,551.46	1/4	3,193.03	1/4	2,834.61	1/4	2,476.19	1/4	2,117.77
1/2		1/2	4,971.29	1/2	4,617.98	1/2	4,260.61	1/2	3,902.41	1/2	3,543.99	1/2	3,185.57	1/2	2,827.15	1/2	2,468.73	1/2	2,110.31
3/4		3/4	4,964.68	3/4	4,610.54	3/4	4,253.17	3/4	3,894.94	3/4	3,536.52	3/4	3,178.10	3/4	2,819.68	3/4	2,461.26	3/4	2,102.84
2		2	4,958.08	2	4,603.09	2	4,245.72	2	3,887.47	2	3,529.05	2	3,170.63	2	2,812.21	2	2,453.79	2	2,095.37
1/4		1/4	4,951.47	1/4	4,595.65	1/4	4,238.28	1/4	3,880.01	1/4	3,521.59	1/4	3,163.17	1/4	2,804.75	1/4	2,446.32	1/4	2,087.91
1/2		1/2	4,944.86	1/2	4,588.20	1/2	4,230.83	1/2	3,872.54	1/2	3,514.12	1/2	3,155.70	1/2	2,797.28	1/2	2,438.86	1/2	2,080.44
3/4		3/4	4,937.58	3/4	4,580.75	3/4	4,223.39	3/4	3,865.07	3/4	3,506.65	3/4	3,148.23	3/4	2,789.81	3/4	2,431.39	3/4	2,072.97
3		3	4,930.29	3	4,573.31	3	4,215.94	3	3,857.61	3	3,499.19	3	3,140.76	3	2,782.34	3	2,423.92	3	2,065.51
1/4		1/4	4,923.01	1/4	4,565.86	1/4	4,208.49	1/4	3,850.14	1/4	3,491.72	1/4	3,133.30	1/4	2,774.88	1/4	2,416.46	1/4	2,058.04
1/2		1/2	4,915.72	1/2	4,558.42	1/2	4,201.05	1/2	3,842.67	1/2	3,484.25	1/2	3,125.83	1/2	2,767.41	1/2	2,408.99	1/2	2,050.57
3/4		3/4	4,908.29	3/4	4,550.97	3/4	4,193.59	3/4	3,835.21	3/4	3,476.78	3/4	3,118.36	3/4	2,759.94	3/4	2,401.52	3/4	2,043.10
4		4	4,900.86	4	4,543.53	4	4,186.14	4	3,827.74	4	3,469.32	4	3,110.90	4	2,752.48	4	2,394.05	4	2,035.64
1/4		1/4	4,893.44	1/4	4,536.08	1/4	4,178.68	1/4	3,820.27	1/4	3,461.85	1/4	3,103.43	1/4	2,745.01	1/4	2,386.59	1/4	2,028.17
1/2		1/2	4,886.01	1/2	4,528.64	1/2	4,171.22	1/2	3,812.80	1/2	3,454.38	1/2	3,095.96	1/2	2,737.54	1/2	2,379.12	1/2	2,020.70
3/4		3/4	4,878.56	3/4	4,521.19	3/4	4,163.76	3/4	3,805.34	3/4	3,446.92	3/4	3,088.50	3/4	2,730.07	3/4	2,371.65	3/4	2,013.24
5		5	4,871.12	5	4,513.75	5	4,156.29	5	3,797.87	5	3,439.45	5	3,081.03	5	2,722.61	5	2,364.19	5	2,005.77
1/4		1/4	4,863.68	1/4	4,506.30	1/4	4,148.82	1/4	3,790.40	1/4	3,431.98	1/4	3,073.56	1/4	2,715.14	1/4	2,356.72	1/4	1,998.30
1/2		1/2	4,856.23	1/2	4,498.86	1/2	4,141.36	1/2	3,782.94	1/2	3,424.51	1/2	3,066.09	1/2	2,707.67	1/2	2,349.25	1/2	1,990.84
3/4		3/4	4,848.79	3/4	4,491.41	3/4	4,133.89	3/4	3,775.47	3/4	3,417.05	3/4	3,058.63	3/4	2,700.21	3/4	2,341.79	3/4	1,983.37
6		6	4,841.34	6	4,483.97	6	4,126.42	6	3,768.00	6	3,409.58	6	3,051.16	6	2,692.74	6	2,334.32	6	1,975.90
1/4		1/4	4,833.89	1/4	4,476.52	1/4	4,118.95	1/4	3,760.53	1/4	3,402.11	1/4	3,043.69	1/4	2,685.27	1/4	2,326.85	1/4	1,968.43
1/2		1/2	4,826.45	1/2	4,469.08	1/2	4,111.49	1/2	3,753.07	1/2	3,394.65	1/2	3,036.23	1/2	2,677.80	1/2	2,319.38	1/2	1,960.97
3/4		3/4	4,819.00	3/4	4,461.63	3/4	4,104.02	3/4	3,745.60	3/4	3,387.18	3/4	3,028.76	3/4	2,670.34	3/4	2,311.92	3/4	1,953.50
7		7	4,811.56	7	4,454.19	7	4,096.55	7	3,738.13	7	3,379.71	7	3,021.29	7	2,662.87	7	2,304.45	7	1,946.03
1/4		1/4	4,804.11	1/4	4,446.74	1/4	4,089.09	1/4	3,730.67	1/4	3,372.25	1/4	3,013.82	1/4	2,655.40	1/4	2,296.98	1/4	1,938.57
1/2		1/2	4,796.67	1/2	4,439.30	1/2	4,081.62	1/2	3,723.20	1/2	3,364.78	1/2	3,006.36	1/2	2,647.94	1/2	2,289.52	1/2	1,931.10
3/4		3/4	4,789.22	3/4	4,431.85	3/4	4,074.15	3/4	3,715.73	3/4	3,357.31	3/4	2,998.89	3/4	2,640.47	3/4	2,282.05	3/4	1,923.63
8		8	4,781.78	8	4,424.41	8	4,066.69	8	3,708.26	8	3,349.84	8	2,991.42	8	2,633.00	8	2,274.58	8	1,916.17
1/4		1/4	4,774.33	1/4	4,416.96	1/4	4,059.22	1/4	3,700.80	1/4	3,342.38	1/4	2,983.96	1/4	2,625.54	1/4	2,267.11	1/4	1,908.70
1/2		1/2	4,766.88	1/2	4,409.52	1/2	4,051.75	1/2	3,693.33	1/2	3,334.91	1/2	2,976.49	1/2	2,618.07	1/2	2,259.65	1/2	1,901.23
3/4		3/4	4,759.44	3/4	4,402.07	3/4	4,044.28	3/4	3,685.86	3/4	3,327.44	3/4	2,969.02	3/4	2,610.60	3/4	2,252.18	3/4	1,893.76
9		9	4,751.99	9	4,394.62	9	4,036.82	9	3,678.40	9	3,319.98	9	2,961.55	9	2,603.13	9	2,244.71	9	1,886.30
1/4		1/4	4,744.55	1/4	4,387.18	1/4	4,029.35	1/4	3,670.93	1/4	3,312.51	1/4	2,954.09	1/4	2,595.67	1/4	2,237.25	1/4	1,878.83
1/2		1/2	4,737.10	1/2	4,379.73	1/2	4,021.88	1/2	3,663.46	1/2	3,305.04	1/2	2,946.62	1/2	2,588.20	1/2	2,229.78	1/2	1,871.36
3/4		3/4	4,729.66	3/4	4,372.29	3/4	4,014.42	3/4	3,655.99	3/4	3,297.57	3/4	2,939.15	3/4	2,580.73	3/4	2,222.31	3/4	1,863.90
10		10	4,722.21	10	4,364.84	10	4,006.95	10	3,648.53	10	3,290.11	10	2,931.69	10	2,573.27	10	2,214.85	10	1,856.43
1/4		1/4	4,714.77	1/4	4,357.40	1/4	3,999.48	1/4	3,641.06	1/4	3,282.64	1/4	2,924.22	1/4	2,565.80	1/4	2,207.38	1/4	1,848.96
1/2		1/2	4,707.32	1/2	4,349.95	1/2	3,992.01	1/2	3,633.59	1/2	3,275.17	1/2	2,916.75	1/2	2,558.33	1/2	2,199.91	1/2	1,841.50
3/4		3/4	4,699.88	3/4	4,342.51	3/4	3,984.55	3/4	3,626.13	3/4	3,267.71	3/4	2,909.28	3/4	2,550.86	3/4	2,192.44	3/4	1,834.03
11		11	4,692.43	11	4,335.06	11	3,977.08	11	3,618.66	11	3,260.24	11	2,901.82	11	2,543.40	11	2,184.98	11	1,826.56
1/4		1/4	4,684.99	1/4	4,327.62	1/4	3,969.61	1/4	3,611.19	1/4	3,252.77	1/4	2,894.35	1/4	2,535.93	1/4	2,177.51	1/4	1,819.09
1/2		1/2	4,677.54	1/2	4,320.17	1/2	3,962.15	1/2	3,603.73	1/2	3,245.30	1/2	2,886.88	1/2	2,528.46	1/2	2,170.04	1/2	1,811.63
3/4		3/4	4,670.10	3/4	4,312.73	3/4	3,954.68	3/4	3,596.26	3/4	3,237.84	3/4	2,879.42	3/4	2,521.00	3/4	2,162.58	3/4	1,804.16

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.

CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK AT GAUGE POINT.

CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN AT 8" DIAMETER HATCH OR 2" DIAMETER "HERMETIC" VALVE.

GAUGE POINT: (HERMETIC) LOCATED 12'-06" OFF CENTERLINE AND 37'-09" FORWARD OF AFT BULKHEAD.

GAUGE POINT: (8" HATCH) LOCATED 12'-06" OFF CENTERLINE AND 36'-03" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT  
& ANALYSIS, INC.

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# BARGE "MMLP 331"

## 1 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	1,796.69	0	1,438.38	0	1,079.96	0	723.91	0	372.64	0	53.37	0		0		0		0	
1/4	1,789.23	1/4	1,430.91	1/4	1,072.50	1/4	716.49	1/4	365.43	1/4	47.88	1/4		1/4		1/4		1/4	
1/2	1,781.76	1/2	1,423.45	1/2	1,065.03	1/2	709.06	1/2	358.21	1/2	42.39	1/2		1/2		1/2		1/2	
3/4	1,774.29	3/4	1,415.98	3/4	1,057.56	3/4	701.63	3/4	351.09	3/4	37.13	3/4		3/4		3/4		3/4	
1	1,766.83	1	1,408.51	1	1,050.10	1	694.19	1	343.96	1	31.88	1		1		1		1	
1/4	1,759.36	1/4	1,401.04	1/4	1,042.63	1/4	686.76	1/4	336.83	1/4	26.62	1/4		1/4		1/4		1/4	
1/2	1,751.90	1/2	1,393.58	1/2	1,035.16	1/2	679.33	1/2	329.70	1/2	21.37	1/2		1/2		1/2		1/2	
3/4	1,744.43	3/4	1,386.11	3/4	1,027.73	3/4	671.87	3/4	322.62	3/4	17.65	3/4		3/4		3/4		3/4	
2	1,736.97	2	1,378.64	2	1,020.31	2	664.41	2	315.54	2	13.93	2		2		2		2	
1/4	1,729.51	1/4	1,371.18	1/4	1,012.88	1/4	656.95	1/4	308.45	1/4	10.21	1/4		1/4		1/4		1/4	
1/2	1,722.04	1/2	1,363.71	1/2	1,005.45	1/2	649.50	1/2	301.37	1/2	6.49	1/2		1/2		1/2		1/2	
3/4	1,714.58	3/4	1,356.24	3/4	998.04	3/4	642.03	3/4	294.36	3/4		3/4		3/4		3/4		3/4	
3	1,707.12	3	1,348.78	3	990.62	3	634.56	3	287.35	3		3		3		3		3	
1/4	1,699.66	1/4	1,341.31	1/4	983.21	1/4	627.09	1/4	280.34	1/4		1/4		1/4		1/4		1/4	
1/2	1,692.19	1/2	1,333.84	1/2	975.79	1/2	619.63	1/2	273.33	1/2		1/2		1/2		1/2		1/2	
3/4	1,684.73	3/4	1,326.37	3/4	968.38	3/4	612.16	3/4	266.40	3/4		3/4		3/4		3/4		3/4	
4	1,677.27	4	1,318.91	4	960.97	4	604.69	4	259.48	4		4		4		4		4	
1/4	1,669.80	1/4	1,311.44	1/4	953.57	1/4	597.23	1/4	252.56	1/4		1/4		1/4		1/4		1/4	
1/2	1,662.34	1/2	1,303.97	1/2	946.16	1/2	589.76	1/2	245.63	1/2		1/2		1/2		1/2		1/2	
3/4	1,654.88	3/4	1,296.51	3/4	938.75	3/4	582.29	3/4	238.80	3/4		3/4		3/4		3/4		3/4	
5	1,647.42	5	1,289.04	5	931.34	5	574.83	5	231.96	5		5		5		5		5	
1/4	1,639.95	1/4	1,281.57	1/4	923.94	1/4	567.36	1/4	225.12	1/4		1/4		1/4		1/4		1/4	
1/2	1,632.49	1/2	1,274.11	1/2	916.53	1/2	559.89	1/2	218.29	1/2		1/2		1/2		1/2		1/2	
3/4	1,625.03	3/4	1,266.64	3/4	909.12	3/4	552.43	3/4	211.54	3/4		3/4		3/4		3/4		3/4	
6	1,617.56	6	1,259.17	6	901.72	6	544.96	6	204.79	6		6		6		6		6	
1/4	1,610.10	1/4	1,251.70	1/4	894.31	1/4	537.49	1/4	198.04	1/4		1/4		1/4		1/4		1/4	
1/2	1,602.64	1/2	1,244.24	1/2	886.90	1/2	530.03	1/2	191.29	1/2		1/2		1/2		1/2		1/2	
3/4	1,595.17	3/4	1,236.77	3/4	879.50	3/4	522.56	3/4	184.62	3/4		3/4		3/4		3/4		3/4	
7	1,587.71	7	1,229.30	7	872.09	7	515.09	7	177.96	7		7		7		7		7	
1/4	1,580.25	1/4	1,221.84	1/4	864.68	1/4	507.63	1/4	171.30	1/4		1/4		1/4		1/4		1/4	
1/2	1,572.78	1/2	1,214.37	1/2	857.28	1/2	500.16	1/2	164.63	1/2		1/2		1/2		1/2		1/2	
3/4	1,565.32	3/4	1,206.90	3/4	849.87	3/4	492.69	3/4	158.10	3/4		3/4		3/4		3/4		3/4	
8	1,557.85	8	1,199.44	8	842.46	8	485.23	8	151.57	8		8		8		8		8	
1/4	1,550.38	1/4	1,191.97	1/4	835.06	1/4	477.76	1/4	145.04	1/4		1/4		1/4		1/4		1/4	
1/2	1,542.92	1/2	1,184.50	1/2	827.65	1/2	470.29	1/2	138.51	1/2		1/2		1/2		1/2		1/2	
3/4	1,535.45	3/4	1,177.03	3/4	820.24	3/4	463.35	3/4	132.07	3/4		3/4		3/4		3/4		3/4	
9	1,527.98	9	1,169.57	9	812.83	9	456.42	9	125.64	9		9		9		9		9	
1/4	1,520.52	1/4	1,162.10	1/4	805.43	1/4	449.48	1/4	119.21	1/4		1/4		1/4		1/4		1/4	
1/2	1,513.05	1/2	1,154.63	1/2	798.02	1/2	442.54	1/2	112.78	1/2		1/2		1/2		1/2		1/2	
3/4	1,505.58	3/4	1,147.17	3/4	790.61	3/4	435.81	3/4	106.44	3/4		3/4		3/4		3/4		3/4	
10	1,498.12	10	1,139.70	10	783.21	10	429.08	10	100.10	10		10		10		10		10	
1/4	1,490.65	1/4	1,132.23	1/4	775.80	1/4	422.35	1/4	93.75	1/4		1/4		1/4		1/4		1/4	
1/2	1,483.18	1/2	1,124.77	1/2	768.39	1/2	415.62	1/2	87.41	1/2		1/2		1/2		1/2		1/2	
3/4	1,475.71	3/4	1,117.30	3/4	760.99	3/4	408.48	3/4	81.65	3/4		3/4		3/4		3/4		3/4	
11	1,468.25	11	1,109.83	11	753.58	11	401.35	11	75.88	11		11		11		11		11	
1/4	1,460.78	1/4	1,102.36	1/4	746.17	1/4	394.21	1/4	70.12	1/4		1/4		1/4		1/4		1/4	
1/2	1,453.31	1/2	1,094.90	1/2	738.77	1/2	387.07	1/2	64.36	1/2		1/2		1/2		1/2		1/2	
3/4	1,445.85	3/4	1,087.43	3/4	731.34	3/4	379.85	3/4	58.87	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 11/08/2018 CL  
CALCULATED: 11/13/2018 CL  
PRINTED: 11/13/2018 CL

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CANCELS AND SUPERCEDES  
ALL PRIOR TO 11/2018