



# BARGE "KIRBY 29113"

## ULLAGE TRIM TABLE

	1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.	
	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>
1 PORT	00-1/4	- 00-1/4	00-5/8	- 00-5/8	00-7/8	- 00-7/8	01-1/8	- 01-1/8	01-1/2	- 01-1/2	01-3/4	- 01-3/4
1 STBD	00-1/4	- 00-1/4	00-5/8	- 00-5/8	00-7/8	- 00-7/8	01-1/8	- 01-1/8	01-1/2	- 01-1/2	01-3/4	- 01-3/4
2 PORT	00-3/8	- 00-3/8	00-3/4	- 00-3/4	01-1/4	- 01-1/4	01-5/8	- 01-5/8	02-0/8	- 02-0/8	02-3/8	- 02-3/8
2 STBD	00-3/8	- 00-3/8	00-3/4	- 00-3/4	01-1/4	- 01-1/4	01-5/8	- 01-5/8	02-0/8	- 02-0/8	02-3/8	- 02-3/8
3 PORT	00-3/8	- 00-3/8	00-3/4	- 00-3/4	01-1/4	- 01-1/4	01-5/8	- 01-5/8	02-0/8	- 02-0/8	02-3/8	- 02-3/8
3 STBD	00-3/8	- 00-3/8	00-3/4	- 00-3/4	01-1/4	- 01-1/4	01-5/8	- 01-5/8	02-0/8	- 02-0/8	02-3/8	- 02-3/8

(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 1 PORT IS - 00-5/8"  
 FOR A MEASURED ULLAGE GAUGE OF 4'-00" ON 1 PORT, THE TRIM CORRECTED ULLAGE IS 3'-11 3/8"

LENGTH BETWEEN DRAFT MARKS: 261'-00"

March 27, 2013

PRECISION MEASUREMENT  
 & ANALYSIS, INC.

P.O. Box 2092  
 Pearland, Texas 77588

<http://www.pmacorp.net>



# BARGE "KIRBY 29113"

## 1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-07 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	IN	0
1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>
1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>
1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>
1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>
1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>
1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>
1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>
1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>
1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>
1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>
1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>
1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.  
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.  
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.  
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN WITH "HERMETIC" CLOSED GAUGING DEVICE.  
 GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 51'-09" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



# BARGE "KIRBY 29113"

## 1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-07 1/2"

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.	
IN		IN		IN		IN		IN		IN		IN		IN		IN		IN	
0	2,428.18	0	2,049.96	0	1,671.74	0	1,294.87	0	917.47	0	539.29	0	189.55	0		0		0	
1/4	2,420.30	1/4	2,042.08	1/4	1,663.86	1/4	1,287.04	1/4	909.60	1/4	531.42	1/4	182.92	1/4		1/4		1/4	
1/2	2,412.42	1/2	2,034.20	1/2	1,655.99	1/2	1,279.21	1/2	901.72	1/2	523.55	1/2	176.28	1/2		1/2		1/2	
3/4	2,404.54	3/4	2,026.32	3/4	1,648.11	3/4	1,271.38	3/4	893.84	3/4	515.73	3/4	169.76	3/4		3/4		3/4	
1	2,396.66	1	2,018.44	1	1,640.23	1	1,263.55	1	885.96	1	507.91	1	163.24	1		1		1	
1/4	2,388.78	1/4	2,010.56	1/4	1,632.35	1/4	1,255.72	1/4	878.08	1/4	500.09	1/4	156.72	1/4		1/4		1/4	
1/2	2,380.90	1/2	2,002.68	1/2	1,624.47	1/2	1,247.89	1/2	870.20	1/2	492.27	1/2	150.20	1/2		1/2		1/2	
3/4	2,373.02	3/4	1,994.80	3/4	1,616.59	3/4	1,240.06	3/4	862.32	3/4	484.54	3/4	143.79	3/4		3/4		3/4	
2	2,365.14	2	1,986.92	2	1,608.71	2	1,232.23	2	854.44	2	476.81	2	137.38	2		2		2	
1/4	2,357.26	1/4	1,979.04	1/4	1,600.83	1/4	1,224.40	1/4	846.56	1/4	469.08	1/4	130.98	1/4		1/4		1/4	
1/2	2,349.38	1/2	1,971.17	1/2	1,592.95	1/2	1,216.57	1/2	838.68	1/2	461.35	1/2	124.57	1/2		1/2		1/2	
3/4	2,341.50	3/4	1,963.29	3/4	1,585.07	3/4	1,208.74	3/4	830.80	3/4	453.73	3/4	118.28	3/4		3/4		3/4	
3	2,333.62	3	1,955.41	3	1,577.19	3	1,200.91	3	822.92	3	446.11	3	112.00	3		3		3	
1/4	2,325.74	1/4	1,947.53	1/4	1,569.31	1/4	1,193.08	1/4	815.04	1/4	438.49	1/4	105.71	1/4		1/4		1/4	
1/2	2,317.86	1/2	1,939.65	1/2	1,561.43	1/2	1,185.25	1/2	807.16	1/2	430.87	1/2	99.43	1/2		1/2		1/2	
3/4	2,309.98	3/4	1,931.77	3/4	1,553.56	3/4	1,177.40	3/4	799.29	3/4	423.36	3/4	93.27	3/4		3/4		3/4	
4	2,302.10	4	1,923.89	4	1,545.69	4	1,169.55	4	791.41	4	415.85	4	87.12	4		4		4	
1/4	2,294.22	1/4	1,916.01	1/4	1,537.83	1/4	1,161.70	1/4	783.53	1/4	408.34	1/4	80.96	1/4		1/4		1/4	
1/2	2,286.35	1/2	1,908.13	1/2	1,529.96	1/2	1,153.85	1/2	775.65	1/2	400.83	1/2	74.81	1/2		1/2		1/2	
3/4	2,278.47	3/4	1,900.25	3/4	1,522.11	3/4	1,145.97	3/4	767.77	3/4	393.43	3/4	68.79	3/4		3/4		3/4	
5	2,270.59	5	1,892.37	5	1,514.26	5	1,138.10	5	759.89	5	386.03	5	62.78	5		5		5	
1/4	2,262.71	1/4	1,884.49	1/4	1,506.41	1/4	1,130.22	1/4	752.01	1/4	378.63	1/4	56.76	1/4		1/4		1/4	
1/2	2,254.83	1/2	1,876.61	1/2	1,498.56	1/2	1,122.34	1/2	744.13	1/2	371.23	1/2	50.75	1/2		1/2		1/2	
3/4	2,246.95	3/4	1,868.73	3/4	1,490.71	3/4	1,114.46	3/4	736.25	3/4	363.94	3/4	45.33	3/4		3/4		3/4	
6	2,239.07	6	1,860.85	6	1,482.87	6	1,106.58	6	728.37	6	356.65	6	39.91	6		6		6	
1/4	2,231.19	1/4	1,852.97	1/4	1,475.02	1/4	1,098.70	1/4	720.49	1/4	349.36	1/4	34.49	1/4		1/4		1/4	
1/2	2,223.31	1/2	1,845.09	1/2	1,467.18	1/2	1,090.82	1/2	712.61	1/2	342.07	1/2	29.06	1/2		1/2		1/2	
3/4	2,215.43	3/4	1,837.21	3/4	1,459.34	3/4	1,082.94	3/4	704.73	3/4	334.89	3/4	25.10	3/4		3/4		3/4	
7	2,207.55	7	1,829.33	7	1,451.50	7	1,075.06	7	696.85	7	327.71	7	21.13	7		7		7	
1/4	2,199.67	1/4	1,821.45	1/4	1,443.66	1/4	1,067.18	1/4	688.98	1/4	320.53	1/4	17.16	1/4		1/4		1/4	
1/2	2,191.79	1/2	1,813.58	1/2	1,435.83	1/2	1,059.30	1/2	681.10	1/2	313.34	1/2	13.20	1/2		1/2		1/2	
3/4	2,183.91	3/4	1,805.70	3/4	1,427.99	3/4	1,051.42	3/4	673.22	3/4	306.27	3/4		3/4		3/4		3/4	
8	2,176.03	8	1,797.82	8	1,420.16	8	1,043.54	8	665.34	8	299.20	8		8		8		8	
1/4	2,168.15	1/4	1,789.94	1/4	1,412.32	1/4	1,035.66	1/4	657.46	1/4	292.13	1/4		1/4		1/4		1/4	
1/2	2,160.27	1/2	1,782.06	1/2	1,404.49	1/2	1,027.79	1/2	649.58	1/2	285.06	1/2		1/2		1/2		1/2	
3/4	2,152.39	3/4	1,774.18	3/4	1,396.66	3/4	1,019.91	3/4	641.70	3/4	278.09	3/4		3/4		3/4		3/4	
9	2,144.51	9	1,766.30	9	1,388.83	9	1,012.03	9	633.82	9	271.13	9		9		9		9	
1/4	2,136.63	1/4	1,758.42	1/4	1,381.00	1/4	1,004.15	1/4	625.94	1/4	264.17	1/4		1/4		1/4		1/4	
1/2	2,128.76	1/2	1,750.54	1/2	1,373.17	1/2	996.27	1/2	618.06	1/2	257.21	1/2		1/2		1/2		1/2	
3/4	2,120.88	3/4	1,742.66	3/4	1,365.34	3/4	988.39	3/4	610.18	3/4	250.35	3/4		3/4		3/4		3/4	
10	2,113.00	10	1,734.78	10	1,357.51	10	980.51	10	602.30	10	243.50	10		10		10		10	
1/4	2,105.12	1/4	1,726.90	1/4	1,349.68	1/4	972.63	1/4	594.42	1/4	236.65	1/4		1/4		1/4		1/4	
1/2	2,097.24	1/2	1,719.02	1/2	1,341.85	1/2	964.75	1/2	586.54	1/2	229.79	1/2		1/2		1/2		1/2	
3/4	2,089.36	3/4	1,711.14	3/4	1,334.02	3/4	956.87	3/4	578.67	3/4	223.05	3/4		3/4		3/4		3/4	
11	2,081.48	11	1,703.26	11	1,326.19	11	948.99	11	570.79	11	216.31	11		11		11		11	
1/4	2,073.60	1/4	1,695.38	1/4	1,318.36	1/4	941.11	1/4	562.91	1/4	209.56	1/4		1/4		1/4		1/4	
1/2	2,065.72	1/2	1,687.50	1/2	1,310.53	1/2	933.23	1/2	555.03	1/2	202.82	1/2		1/2		1/2		1/2	
3/4	2,057.84	3/4	1,679.62	3/4	1,302.70	3/4	925.35	3/4	547.16	3/4	196.19	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 03/27/2013 CL - SW  
CALCULATED: 03/27/2013 CL  
PRINTED: 03/27/2013 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 03/2013

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



# BARGE "KIRBY 29113"

## 1 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-07 3/4"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.			
IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0		
									4,637.01		4,298.01		3,942.48		3,570.90		3,194.26		2,816.05		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,962.85	1/4	4,630.12	1/4	4,290.76	1/4	3,934.89	1/4	3,563.05	1/4	3,186.38	1/4	2,808.17
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,957.47	1/2	4,623.22	1/2	4,283.52	1/2	3,927.31	1/2	3,555.21	1/2	3,178.51	1/2	2,800.29
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,952.08	3/4	4,616.33	3/4	4,276.27	3/4	3,919.72	3/4	3,547.37	3/4	3,170.63	3/4	2,792.41
<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>4,945.40</b>	<b>1</b>	<b>4,609.40</b>	<b>1</b>	<b>4,269.00</b>	<b>1</b>	<b>3,912.10</b>	<b>1</b>	<b>3,539.52</b>	<b>1</b>	<b>3,162.75</b>	<b>1</b>	<b>2,784.53</b>
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,938.72	1/4	4,602.48	1/4	4,261.73	1/4	3,904.48	1/4	3,531.68	1/4	3,154.87	1/4	2,776.65
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,932.04	1/2	4,595.55	1/2	4,254.46	1/2	3,896.86	1/2	3,523.83	1/2	3,146.99	1/2	2,768.77
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,925.36	3/4	4,588.63	3/4	4,247.19	3/4	3,889.25	3/4	3,515.99	3/4	3,139.11	3/4	2,760.89
<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>4,917.74</b>	<b>2</b>	<b>4,581.67</b>	<b>2</b>	<b>4,239.90</b>	<b>2</b>	<b>3,881.60</b>	<b>2</b>	<b>3,508.14</b>	<b>2</b>	<b>3,131.23</b>	<b>2</b>	<b>2,753.01</b>
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,910.13	1/4	4,574.72	1/4	4,232.60	1/4	3,873.96	1/4	3,500.30	1/4	3,123.35	1/4	2,745.13
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,902.51	1/2	4,567.77	1/2	4,225.30	1/2	3,866.32	1/2	3,492.45	1/2	3,115.47	1/2	2,737.25
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,894.90	3/4	4,560.81	3/4	4,218.00	3/4	3,858.68	3/4	3,484.61	3/4	3,107.59	3/4	2,729.37
<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>4,887.06</b>	<b>3</b>	<b>4,553.83</b>	<b>3</b>	<b>4,210.68</b>	<b>3</b>	<b>3,851.01</b>	<b>3</b>	<b>3,476.76</b>	<b>3</b>	<b>3,099.71</b>	<b>3</b>	<b>2,721.49</b>
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,879.21	1/4	4,546.85	1/4	4,203.35	1/4	3,843.34	1/4	3,468.92	1/4	3,091.83	1/4	2,713.61
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,871.37	1/2	4,539.86	1/2	4,196.02	1/2	3,835.67	1/2	3,461.07	1/2	3,083.95	1/2	2,705.74
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,863.52	3/4	4,532.88	3/4	4,188.70	3/4	3,828.00	3/4	3,453.23	3/4	3,076.07	3/4	2,697.86
<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4,856.11</b>	<b>4</b>	<b>4,525.87</b>	<b>4</b>	<b>4,181.34</b>	<b>4</b>	<b>3,820.30</b>	<b>4</b>	<b>3,445.39</b>	<b>4</b>	<b>3,068.19</b>	<b>4</b>	<b>2,689.98</b>
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,848.70	1/4	4,518.86	1/4	4,173.99	1/4	3,812.60	1/4	3,437.54	1/4	3,060.31	1/4	2,682.10
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,841.29	1/2	4,511.85	1/2	4,166.63	1/2	3,804.90	1/2	3,429.70	1/2	3,052.43	1/2	2,674.22
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,833.88	3/4	4,504.83	3/4	4,159.28	3/4	3,797.20	3/4	3,421.85	3/4	3,044.55	3/4	2,666.34
<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>4,827.18</b>	<b>5</b>	<b>4,497.79</b>	<b>5</b>	<b>4,151.89</b>	<b>5</b>	<b>3,789.47</b>	<b>5</b>	<b>3,414.01</b>	<b>5</b>	<b>3,036.67</b>	<b>5</b>	<b>2,658.46</b>
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,820.48	1/4	4,490.75	1/4	4,144.51	1/4	3,781.74	1/4	3,406.16	1/4	3,028.79	1/4	2,650.58
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,813.79	1/2	4,483.71	1/2	4,137.12	1/2	3,774.01	1/2	3,398.32	1/2	3,020.92	1/2	2,642.70
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,807.09	3/4	4,476.67	3/4	4,129.74	3/4	3,766.28	3/4	3,390.47	3/4	3,013.04	3/4	2,634.82
<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>4,800.36</b>	<b>6</b>	<b>4,469.60</b>	<b>6</b>	<b>4,122.32</b>	<b>6</b>	<b>3,758.53</b>	<b>6</b>	<b>3,382.63</b>	<b>6</b>	<b>3,005.16</b>	<b>6</b>	<b>2,626.94</b>
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,793.64	1/4	4,462.53	1/4	4,114.91	1/4	3,750.77	1/4	3,374.78	1/4	2,997.28	1/4	2,619.06
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,786.91	1/2	4,455.46	1/2	4,107.50	1/2	3,743.01	1/2	3,366.94	1/2	2,989.40	1/2	2,611.18
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,780.19	3/4	4,448.39	3/4	4,100.08	3/4	3,735.25	3/4	3,359.09	3/4	2,981.52	3/4	2,603.30
<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>4,773.43</b>	<b>7</b>	<b>4,441.29</b>	<b>7</b>	<b>4,092.64</b>	<b>7</b>	<b>3,727.47</b>	<b>7</b>	<b>3,351.25</b>	<b>7</b>	<b>2,973.64</b>	<b>7</b>	<b>2,595.42</b>
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,766.67	1/4	4,434.20	1/4	4,085.20	1/4	3,719.68	1/4	3,343.41	1/4	2,965.76	1/4	2,587.54
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,759.92	1/2	4,427.10	1/2	4,077.76	1/2	3,711.90	1/2	3,335.56	1/2	2,957.88	1/2	2,579.66
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,753.16	3/4	4,420.00	3/4	4,070.31	3/4	3,704.11	3/4	3,327.72	3/4	2,950.00	3/4	2,571.78
<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>4,746.38</b>	<b>8</b>	<b>4,412.87</b>	<b>8</b>	<b>4,062.84</b>	<b>8</b>	<b>3,696.29</b>	<b>8</b>	<b>3,319.87</b>	<b>8</b>	<b>2,942.12</b>	<b>8</b>	<b>2,563.90</b>
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,739.59	1/4	4,405.74	1/4	4,055.37	1/4	3,688.48	1/4	3,312.03	1/4	2,934.24	1/4	2,556.02
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,732.81	1/2	4,398.61	1/2	4,047.90	1/2	3,680.66	1/2	3,304.18	1/2	2,926.36	1/2	2,548.15
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,726.03	3/4	4,391.49	3/4	4,040.43	3/4	3,672.85	3/4	3,296.34	3/4	2,918.48	3/4	2,540.27
<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>4,719.21</b>	<b>9</b>	<b>4,384.33</b>	<b>9</b>	<b>4,032.93</b>	<b>9</b>	<b>3,665.01</b>	<b>9</b>	<b>3,288.49</b>	<b>9</b>	<b>2,910.60</b>	<b>9</b>	<b>2,532.39</b>
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,712.40	1/4	4,377.17	1/4	4,025.43	1/4	3,657.17	1/4	3,280.65	1/4	2,902.72	1/4	2,524.51
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,705.58	1/2	4,370.02	1/2	4,017.92	1/2	3,649.34	1/2	3,272.80	1/2	2,894.84	1/2	2,516.63
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,698.77	3/4	4,362.86	3/4	4,010.42	3/4	3,641.50	3/4	3,264.96	3/4	2,886.96	3/4	2,508.75
<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>4,691.93</b>	<b>10</b>	<b>4,355.67</b>	<b>10</b>	<b>4,002.89</b>	<b>10</b>	<b>3,633.66</b>	<b>10</b>	<b>3,257.11</b>	<b>10</b>	<b>2,879.08</b>	<b>10</b>	<b>2,500.87</b>
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,685.09	1/4	4,348.48	1/4	3,995.36	1/4	3,625.81	1/4	3,249.27	1/4	2,871.20	1/4	2,492.99
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,678.24	1/2	4,341.30	1/2	3,987.84	1/2	3,617.97	1/2	3,241.43	1/2	2,863.33	1/2	2,485.11
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,671.40	3/4	4,334.11	3/4	3,980.31	3/4	3,610.12	3/4	3,233.58	3/4	2,855.45	3/4	2,477.23
<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>4,664.53</b>	<b>11</b>	<b>4,326.90</b>	<b>11</b>	<b>3,972.75</b>	<b>11</b>	<b>3,602.28</b>	<b>11</b>	<b>3,225.72</b>	<b>11</b>	<b>2,847.57</b>	<b>11</b>	<b>2,469.35</b>
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,657.66	1/4	4,319.68	1/4	3,965.19	1/4	3,594.43	1/4	3,217.86	1/4	2,839.69	1/4	2,461.47
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,650.78	1/2	4,312.47	1/2	3,957.63	1/2	3,586.59	1/2	3,210.00	1/2	2,831.81	1/2	2,453.59
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,643.91	3/4	4,305.25	3/4	3,950.07	3/4	3,578.74	3/4	3,202.14	3/4	2,823.93	3/4	2,445.71

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.  
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.  
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.  
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN WITH "HERMETIC" CLOSED GAUGING DEVICE.  
 GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 51'-09" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



# BARGE "KIRBY 29113"

## 1 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-07 3/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,437.83	0	2,059.62	0	1,681.40	0	1,303.18	0	925.24	0	547.16	0	196.19	0		0		0	
1/4	2,429.95	1/4	2,051.74	1/4	1,673.52	1/4	1,295.30	1/4	917.37	1/4	539.29	1/4	189.55	1/4	1/4	1/4		1/4	
1/2	2,422.07	1/2	2,043.86	1/2	1,665.64	1/2	1,287.43	1/2	909.51	1/2	531.42	1/2	182.92	1/2	1/2	1/2		1/2	
3/4	2,414.19	3/4	2,035.98	3/4	1,657.76	3/4	1,279.55	3/4	901.64	3/4	523.55	3/4	176.28	3/4	3/4	3/4		3/4	
1	2,406.31	1	2,028.10	1	1,649.88	1	1,271.67	1	893.77	1	515.73	1	169.76	1	1	1		1	
1/4	2,398.43	1/4	2,020.22	1/4	1,642.00	1/4	1,263.79	1/4	885.90	1/4	507.91	1/4	163.24	1/4	1/4	1/4		1/4	
1/2	2,390.56	1/2	2,012.34	1/2	1,634.12	1/2	1,255.91	1/2	878.04	1/2	500.09	1/2	156.72	1/2	1/2	1/2		1/2	
3/4	2,382.68	3/4	2,004.46	3/4	1,626.24	3/4	1,248.03	3/4	870.17	3/4	492.27	3/4	150.20	3/4	3/4	3/4		3/4	
2	2,374.80	2	1,996.58	2	1,618.36	2	1,240.15	2	862.30	2	484.54	2	143.79	2	2	2		2	
1/4	2,366.92	1/4	1,988.70	1/4	1,610.48	1/4	1,232.27	1/4	854.43	1/4	476.81	1/4	137.38	1/4	1/4	1/4		1/4	
1/2	2,359.04	1/2	1,980.82	1/2	1,602.61	1/2	1,224.39	1/2	846.55	1/2	469.08	1/2	130.98	1/2	1/2	1/2		1/2	
3/4	2,351.16	3/4	1,972.94	3/4	1,594.73	3/4	1,216.51	3/4	838.68	3/4	461.35	3/4	124.57	3/4	3/4	3/4		3/4	
3	2,343.28	3	1,965.06	3	1,586.85	3	1,208.63	3	830.80	3	453.73	3	118.28	3	3	3		3	
1/4	2,335.40	1/4	1,957.18	1/4	1,578.97	1/4	1,200.75	1/4	822.92	1/4	446.11	1/4	112.00	1/4	1/4	1/4		1/4	
1/2	2,327.52	1/2	1,949.30	1/2	1,571.09	1/2	1,192.87	1/2	815.04	1/2	438.49	1/2	105.71	1/2	1/2	1/2		1/2	
3/4	2,319.64	3/4	1,941.42	3/4	1,563.21	3/4	1,184.99	3/4	807.16	3/4	430.87	3/4	99.43	3/4	3/4	3/4		3/4	
4	2,311.76	4	1,933.54	4	1,555.33	4	1,177.11	4	799.29	4	423.36	4	93.27	4	4	4		4	
1/4	2,303.88	1/4	1,925.66	1/4	1,547.45	1/4	1,169.23	1/4	791.41	1/4	415.85	1/4	87.12	1/4	1/4	1/4		1/4	
1/2	2,296.00	1/2	1,917.79	1/2	1,539.57	1/2	1,161.35	1/2	783.53	1/2	408.34	1/2	80.96	1/2	1/2	1/2		1/2	
3/4	2,288.12	3/4	1,909.91	3/4	1,531.69	3/4	1,153.47	3/4	775.65	3/4	400.83	3/4	74.81	3/4	3/4	3/4		3/4	
5	2,280.24	5	1,902.03	5	1,523.81	5	1,145.59	5	767.77	5	393.43	5	68.79	5	5	5		5	
1/4	2,272.36	1/4	1,894.15	1/4	1,515.93	1/4	1,137.71	1/4	759.89	1/4	386.03	1/4	62.78	1/4	1/4	1/4		1/4	
1/2	2,264.48	1/2	1,886.27	1/2	1,508.05	1/2	1,129.84	1/2	752.01	1/2	378.63	1/2	56.76	1/2	1/2	1/2		1/2	
3/4	2,256.60	3/4	1,878.39	3/4	1,500.17	3/4	1,121.96	3/4	744.13	3/4	371.23	3/4	50.75	3/4	3/4	3/4		3/4	
6	2,248.72	6	1,870.51	6	1,492.29	6	1,114.08	6	736.25	6	363.94	6	45.33	6	6	6		6	
1/4	2,240.84	1/4	1,862.63	1/4	1,484.41	1/4	1,106.21	1/4	728.37	1/4	356.65	1/4	39.91	1/4	1/4	1/4		1/4	
1/2	2,232.97	1/2	1,854.75	1/2	1,476.53	1/2	1,098.33	1/2	720.49	1/2	349.36	1/2	34.49	1/2	1/2	1/2		1/2	
3/4	2,225.09	3/4	1,846.87	3/4	1,468.65	3/4	1,090.46	3/4	712.61	3/4	342.07	3/4	29.06	3/4	3/4	3/4		3/4	
7	2,217.21	7	1,838.99	7	1,460.77	7	1,082.59	7	704.73	7	334.89	7	25.10	7	7	7		7	
1/4	2,209.33	1/4	1,831.11	1/4	1,452.89	1/4	1,074.72	1/4	696.85	1/4	327.71	1/4	21.13	1/4	1/4	1/4		1/4	
1/2	2,201.45	1/2	1,823.23	1/2	1,445.02	1/2	1,066.85	1/2	688.98	1/2	320.53	1/2	17.16	1/2	1/2	1/2		1/2	
3/4	2,193.57	3/4	1,815.35	3/4	1,437.14	3/4	1,058.99	3/4	681.10	3/4	313.34	3/4	13.20	3/4	3/4	3/4		3/4	
8	2,185.69	8	1,807.47	8	1,429.26	8	1,051.12	8	673.22	8	306.27	8		8	8	8		8	
1/4	2,177.81	1/4	1,799.59	1/4	1,421.38	1/4	1,043.25	1/4	665.34	1/4	299.20	1/4		1/4	1/4	1/4		1/4	
1/2	2,169.93	1/2	1,791.71	1/2	1,413.50	1/2	1,035.38	1/2	657.46	1/2	292.13	1/2		1/2	1/2	1/2		1/2	
3/4	2,162.05	3/4	1,783.83	3/4	1,405.62	3/4	1,027.52	3/4	649.58	3/4	285.06	3/4		3/4	3/4	3/4		3/4	
9	2,154.17	9	1,775.95	9	1,397.74	9	1,019.65	9	641.70	9	278.09	9		9	9	9		9	
1/4	2,146.29	1/4	1,768.07	1/4	1,389.86	1/4	1,011.78	1/4	633.82	1/4	271.13	1/4		1/4	1/4	1/4		1/4	
1/2	2,138.41	1/2	1,760.20	1/2	1,381.98	1/2	1,003.91	1/2	625.94	1/2	264.17	1/2		1/2	1/2	1/2		1/2	
3/4	2,130.53	3/4	1,752.32	3/4	1,374.10	3/4	996.05	3/4	618.06	3/4	257.21	3/4		3/4	3/4	3/4		3/4	
10	2,122.65	10	1,744.44	10	1,366.22	10	988.18	10	610.18	10	250.35	10		10	10	10		10	
1/4	2,114.77	1/4	1,736.56	1/4	1,358.34	1/4	980.31	1/4	602.30	1/4	243.50	1/4		1/4	1/4	1/4		1/4	
1/2	2,106.89	1/2	1,728.68	1/2	1,350.46	1/2	972.45	1/2	594.42	1/2	236.65	1/2		1/2	1/2	1/2		1/2	
3/4	2,099.01	3/4	1,720.80	3/4	1,342.58	3/4	964.58	3/4	586.54	3/4	229.79	3/4		3/4	3/4	3/4		3/4	
11	2,091.13	11	1,712.92	11	1,334.70	11	956.71	11	578.67	11	223.05	11		11	11	11		11	
1/4	2,083.25	1/4	1,705.04	1/4	1,326.82	1/4	948.84	1/4	570.79	1/4	216.31	1/4		1/4	1/4	1/4		1/4	
1/2	2,075.38	1/2	1,697.16	1/2	1,318.94	1/2	940.98	1/2	562.91	1/2	209.56	1/2		1/2	1/2	1/2		1/2	
3/4	2,067.50	3/4	1,689.28	3/4	1,311.06	3/4	933.11	3/4	555.03	3/4	202.82	3/4		3/4	3/4	3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 03/27/2013 CL - SW  
CALCULATED: 03/27/2013 CL  
PRINTED: 03/27/2013 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 03/2013

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



# BARGE "KIRBY 29113"

## 2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-08 1/4"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.			
IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0
									4,467.72		4,145.28		3,807.71		3,455.30		3,097.81		2,738.83		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,461.16	1/4	4,138.41	1/4	3,800.53	1/4	3,447.86	1/4	3,090.35	1/4	2,731.35		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,454.59	1/2	4,131.52	1/2	3,793.31	1/2	3,440.41	1/2	3,082.87	1/2	2,723.87		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,764.96	3/4	4,448.01	3/4	4,124.62	3/4	3,786.10	3/4	3,432.96	3/4	3,075.39	3/4	2,716.39
<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>4,441.43</b>	<b>1</b>	<b>4,117.72</b>	<b>1</b>	<b>3,778.89</b>	<b>1</b>	<b>3,425.52</b>	<b>1</b>	<b>3,067.91</b>	<b>1</b>	<b>2,708.91</b>		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,754.74	1/4	4,434.85	1/4	4,110.82	1/4	3,771.68	1/4	3,418.07	1/4	3,060.43	1/4	2,701.43
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,748.40	1/2	4,428.25	1/2	4,103.90	1/2	3,764.44	1/2	3,410.62	1/2	3,052.95	1/2	2,693.96
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,742.06	3/4	4,421.64	3/4	4,096.98	3/4	3,757.20	3/4	3,403.17	3/4	3,045.47	3/4	2,686.48
<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>4,735.72</b>	<b>2</b>	<b>4,415.04</b>	<b>2</b>	<b>4,090.06</b>	<b>2</b>	<b>3,749.96</b>	<b>2</b>	<b>3,395.73</b>	<b>2</b>	<b>3,037.99</b>	<b>2</b>	<b>2,679.00</b>
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,729.38	1/4	4,408.44	1/4	4,083.14	1/4	3,742.72	1/4	3,388.28	1/4	3,030.51	1/4	2,671.52
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,722.15	1/2	4,401.80	1/2	4,076.20	1/2	3,735.46	1/2	3,380.83	1/2	3,023.04	1/2	2,664.04
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,714.93	3/4	4,395.17	3/4	4,069.25	3/4	3,728.20	3/4	3,373.39	3/4	3,015.56	3/4	2,656.56
<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>4,707.70</b>	<b>3</b>	<b>4,388.54</b>	<b>3</b>	<b>4,062.31</b>	<b>3</b>	<b>3,720.94</b>	<b>3</b>	<b>3,365.94</b>	<b>3</b>	<b>3,008.08</b>	<b>3</b>	<b>2,649.08</b>
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,700.47	1/4	4,381.91	1/4	4,055.36	1/4	3,713.68	1/4	3,358.49	1/4	3,000.60	1/4	2,641.60
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,693.03	1/2	4,375.25	1/2	4,048.39	1/2	3,706.39	1/2	3,351.05	1/2	2,993.12	1/2	2,634.12
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,685.58	3/4	4,368.60	3/4	4,041.41	3/4	3,699.10	3/4	3,343.60	3/4	2,985.64	3/4	2,626.64
<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4,678.13</b>	<b>4</b>	<b>4,361.94</b>	<b>4</b>	<b>4,034.44</b>	<b>4</b>	<b>3,691.82</b>	<b>4</b>	<b>3,336.15</b>	<b>4</b>	<b>2,978.16</b>	<b>4</b>	<b>2,619.16</b>
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,670.69	1/4	4,355.28	1/4	4,027.47	1/4	3,684.53	1/4	3,328.70	1/4	2,970.68	1/4	2,611.69
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,663.64	1/2	4,348.60	1/2	4,020.47	1/2	3,677.21	1/2	3,321.26	1/2	2,963.20	1/2	2,604.21
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,656.59	3/4	4,341.91	3/4	4,013.47	3/4	3,669.90	3/4	3,313.81	3/4	2,955.72	3/4	2,596.73
<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>4,649.54</b>	<b>5</b>	<b>4,335.23</b>	<b>5</b>	<b>4,006.47</b>	<b>5</b>	<b>3,662.59</b>	<b>5</b>	<b>3,306.36</b>	<b>5</b>	<b>2,948.24</b>	<b>5</b>	<b>2,589.25</b>
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,642.49	1/4	4,328.54	1/4	3,999.47	1/4	3,655.27	1/4	3,298.92	1/4	2,940.77	1/4	2,581.77
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,636.09	1/2	4,321.83	1/2	3,992.45	1/2	3,647.93	1/2	3,291.47	1/2	2,933.29	1/2	2,574.29
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,629.70	3/4	4,315.12	3/4	3,985.42	3/4	3,640.59	3/4	3,284.02	3/4	2,925.81	3/4	2,566.81
<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>4,623.30</b>	<b>6</b>	<b>4,308.41</b>	<b>6</b>	<b>3,978.40</b>	<b>6</b>	<b>3,633.25</b>	<b>6</b>	<b>3,276.58</b>	<b>6</b>	<b>2,918.33</b>	<b>6</b>	<b>2,559.33</b>
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,616.90	1/4	4,301.70	1/4	3,971.37	1/4	3,625.91	1/4	3,269.13	1/4	2,910.85	1/4	2,551.85
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,610.48	1/2	4,294.97	1/2	3,964.32	1/2	3,618.54	1/2	3,261.68	1/2	2,903.37	1/2	2,544.37
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,604.06	3/4	4,288.23	3/4	3,957.27	3/4	3,611.18	3/4	3,254.23	3/4	2,895.89	3/4	2,536.89
<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>4,597.64</b>	<b>7</b>	<b>4,281.49</b>	<b>7</b>	<b>3,950.22</b>	<b>7</b>	<b>3,603.81</b>	<b>7</b>	<b>3,246.79</b>	<b>7</b>	<b>2,888.41</b>	<b>7</b>	<b>2,529.42</b>
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,591.22	1/4	4,274.76	1/4	3,943.17	1/4	3,596.44	1/4	3,239.34	1/4	2,880.93	1/4	2,521.94
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,584.77	1/2	4,267.99	1/2	3,936.09	1/2	3,589.05	1/2	3,231.89	1/2	2,873.45	1/2	2,514.46
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,578.32	3/4	4,261.23	3/4	3,929.01	3/4	3,581.66	3/4	3,224.45	3/4	2,865.97	3/4	2,506.98
<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>4,571.87</b>	<b>8</b>	<b>4,254.47</b>	<b>8</b>	<b>3,921.93</b>	<b>8</b>	<b>3,574.26</b>	<b>8</b>	<b>3,217.00</b>	<b>8</b>	<b>2,858.50</b>	<b>8</b>	<b>2,499.50</b>
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,565.42	1/4	4,247.70	1/4	3,914.85	1/4	3,566.87	1/4	3,209.55	1/4	2,851.02	1/4	2,492.02
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,558.94	1/2	4,240.91	1/2	3,907.75	1/2	3,559.45	1/2	3,202.11	1/2	2,843.54	1/2	2,484.54
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,552.47	3/4	4,234.12	3/4	3,900.64	3/4	3,552.03	3/4	3,194.66	3/4	2,836.06	3/4	2,477.06
<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>4,545.99</b>	<b>9</b>	<b>4,227.33</b>	<b>9</b>	<b>3,893.54</b>	<b>9</b>	<b>3,544.61</b>	<b>9</b>	<b>3,187.21</b>	<b>9</b>	<b>2,828.58</b>	<b>9</b>	<b>2,469.58</b>
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,539.52	1/4	4,220.54	1/4	3,886.43	1/4	3,537.19	1/4	3,179.76	1/4	2,821.10	1/4	2,462.10
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,533.01	1/2	4,213.72	1/2	3,879.30	1/2	3,529.75	1/2	3,172.32	1/2	2,813.62	1/2	2,454.62
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,526.51	3/4	4,206.90	3/4	3,872.17	3/4	3,522.31	3/4	3,164.87	3/4	2,806.14	3/4	2,447.15
<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>4,520.01</b>	<b>10</b>	<b>4,200.09</b>	<b>10</b>	<b>3,865.03</b>	<b>10</b>	<b>3,514.87</b>	<b>10</b>	<b>3,157.42</b>	<b>10</b>	<b>2,798.66</b>	<b>10</b>	<b>2,439.67</b>
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,513.50	1/4	4,193.27	1/4	3,857.90	1/4	3,507.43	1/4	3,149.98	1/4	2,791.18	1/4	2,432.19
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,506.98	1/2	4,186.43	1/2	3,850.74	1/2	3,499.99	1/2	3,142.53	1/2	2,783.70	1/2	2,424.71
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,500.45	3/4	4,179.58	3/4	3,843.59	3/4	3,492.54	3/4	3,135.08	3/4	2,776.23	3/4	2,417.23
<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>4,493.92</b>	<b>11</b>	<b>4,172.74</b>	<b>11</b>	<b>3,836.43</b>	<b>11</b>	<b>3,485.09</b>	<b>11</b>	<b>3,127.64</b>	<b>11</b>	<b>2,768.75</b>	<b>11</b>	<b>2,409.75</b>
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,487.39	1/4	4,165.89	1/4	3,829.27	1/4	3,477.64	1/4	3,120.19	1/4	2,761.27	1/4	2,402.27
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,480.83	1/2	4,159.02	1/2	3,822.08	1/2	3,470.20	1/2	3,112.73	1/2	2,753.79	1/2	2,394.79
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,474.28	3/4	4,152.15	3/4	3,814.90	3/4	3,462.75	3/4	3,105.27	3/4	2,746.31	3/4	2,387.31

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.  
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.  
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.  
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN WITH "HERMETIC" CLOSED GAUGING DEVICE.  
 GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 51'-09" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



# BARGE "KIRBY 29113"

## 2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-08 1/4"

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.			
IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0
	2,379.83		2,020.84		1,661.84		1,310.90		966.07		609.35		250.37								
1/4	2,372.35	1/4	2,013.36	1/4	1,654.36	1/4	1,303.71	1/4	958.90	1/4	601.87	1/4	242.89	1/4		1/4		1/4		1/4	
1/2	2,364.88	1/2	2,005.88	1/2	1,646.88	1/2	1,296.51	1/2	951.72	1/2	594.40	1/2	235.41	1/2		1/2		1/2		1/2	
3/4	2,357.40	3/4	1,998.40	3/4	1,639.40	3/4	1,289.31	3/4	944.54	3/4	586.92	3/4	227.93	3/4		3/4		3/4		3/4	
1	2,349.92	1	1,990.92	1	1,631.92	1	1,282.12	1	937.37	1	579.44	1	220.45	1		1		1		1	
1/4	2,342.44	1/4	1,983.44	1/4	1,624.44	1/4	1,274.92	1/4	930.19	1/4	571.96	1/4	212.97	1/4		1/4		1/4		1/4	
1/2	2,334.96	1/2	1,975.96	1/2	1,616.97	1/2	1,267.73	1/2	922.90	1/2	564.48	1/2	205.50	1/2		1/2		1/2		1/2	
3/4	2,327.48	3/4	1,968.48	3/4	1,609.49	3/4	1,260.53	3/4	915.61	3/4	557.00	3/4	198.02	3/4		3/4		3/4		3/4	
2	2,320.00	2	1,961.00	2	1,602.01	2	1,253.33	2	908.32	2	549.52	2	190.54	2		2		2		2	
1/4	2,312.52	1/4	1,953.52	1/4	1,594.53	1/4	1,246.14	1/4	901.03	1/4	542.04	1/4	183.07	1/4		1/4		1/4		1/4	
1/2	2,305.04	1/2	1,946.05	1/2	1,587.05	1/2	1,238.94	1/2	893.55	1/2	534.56	1/2	175.60	1/2		1/2		1/2		1/2	
3/4	2,297.56	3/4	1,938.57	3/4	1,579.57	3/4	1,231.75	3/4	886.07	3/4	527.09	3/4	168.13	3/4		3/4		3/4		3/4	
3	2,290.08	3	1,931.09	3	1,572.09	3	1,224.55	3	878.59	3	519.61	3	160.65	3		3		3		3	
1/4	2,282.60	1/4	1,923.61	1/4	1,564.61	1/4	1,217.35	1/4	871.12	1/4	512.13	1/4	153.18	1/4		1/4		1/4		1/4	
1/2	2,275.13	1/2	1,916.13	1/2	1,557.13	1/2	1,210.16	1/2	863.64	1/2	504.65	1/2	145.72	1/2		1/2		1/2		1/2	
3/4	2,267.65	3/4	1,908.65	3/4	1,549.65	3/4	1,202.97	3/4	856.16	3/4	497.17	3/4	138.27	3/4		3/4		3/4		3/4	
4	2,260.17	4	1,901.17	4	1,542.17	4	1,195.78	4	848.68	4	489.69	4	130.81	4		4		4		4	
1/4	2,252.69	1/4	1,893.69	1/4	1,534.69	1/4	1,188.59	1/4	841.20	1/4	482.21	1/4	123.35	1/4		1/4		1/4		1/4	
1/2	2,245.21	1/2	1,886.21	1/2	1,527.32	1/2	1,181.40	1/2	833.72	1/2	474.73	1/2	115.91	1/2		1/2		1/2		1/2	
3/4	2,237.73	3/4	1,878.73	3/4	1,519.95	3/4	1,174.22	3/4	826.24	3/4	467.25	3/4	108.47	3/4		3/4		3/4		3/4	
5	2,230.25	5	1,871.25	5	1,512.57	5	1,167.04	5	818.76	5	459.78	5	101.02	5		5		5		5	
1/4	2,222.77	1/4	1,863.78	1/4	1,505.20	1/4	1,159.85	1/4	811.28	1/4	452.30	1/4	93.58	1/4		1/4		1/4		1/4	
1/2	2,215.29	1/2	1,856.30	1/2	1,498.00	1/2	1,152.67	1/2	803.81	1/2	444.82	1/2	86.17	1/2		1/2		1/2		1/2	
3/4	2,207.81	3/4	1,848.82	3/4	1,490.81	3/4	1,145.49	3/4	796.33	3/4	437.34	3/4	78.76	3/4		3/4		3/4		3/4	
6	2,200.33	6	1,841.34	6	1,483.61	6	1,138.31	6	788.85	6	429.86	6	71.35	6		6		6		6	
1/4	2,192.86	1/4	1,833.86	1/4	1,476.42	1/4	1,131.13	1/4	781.37	1/4	422.38	1/4	63.94	1/4		1/4		1/4		1/4	
1/2	2,185.38	1/2	1,826.38	1/2	1,469.22	1/2	1,123.95	1/2	773.89	1/2	414.90	1/2	56.99	1/2		1/2		1/2		1/2	
3/4	2,177.90	3/4	1,818.90	3/4	1,462.02	3/4	1,116.77	3/4	766.41	3/4	407.42	3/4	50.04	3/4		3/4		3/4		3/4	
7	2,170.42	7	1,811.42	7	1,454.83	7	1,109.60	7	758.93	7	399.94	7	43.09	7		7		7		7	
1/4	2,162.94	1/4	1,803.94	1/4	1,447.63	1/4	1,102.42	1/4	751.45	1/4	392.47	1/4	36.14	1/4		1/4		1/4		1/4	
1/2	2,155.46	1/2	1,796.46	1/2	1,440.44	1/2	1,095.25	1/2	743.97	1/2	384.99	1/2	30.84	1/2		1/2		1/2		1/2	
3/4	2,147.98	3/4	1,788.98	3/4	1,433.24	3/4	1,088.07	3/4	736.50	3/4	377.51	3/4	25.55	3/4		3/4		3/4		3/4	
8	2,140.50	8	1,781.51	8	1,426.04	8	1,080.89	8	729.02	8	370.03	8	20.26	8		8		8		8	
1/4	2,133.02	1/4	1,774.03	1/4	1,418.85	1/4	1,073.72	1/4	721.54	1/4	362.55	1/4	14.96	1/4		1/4		1/4		1/4	
1/2	2,125.54	1/2	1,766.55	1/2	1,411.65	1/2	1,066.54	1/2	714.06	1/2	355.07	1/2		1/2		1/2		1/2		1/2	
3/4	2,118.06	3/4	1,759.07	3/4	1,404.45	3/4	1,059.36	3/4	706.58	3/4	347.59	3/4		3/4		3/4		3/4		3/4	
9	2,110.59	9	1,751.59	9	1,397.26	9	1,052.19	9	699.10	9	340.11	9		9		9		9		9	
1/4	2,103.11	1/4	1,744.11	1/4	1,390.06	1/4	1,045.01	1/4	691.62	1/4	332.63	1/4		1/4		1/4		1/4		1/4	
1/2	2,095.63	1/2	1,736.63	1/2	1,382.87	1/2	1,037.84	1/2	684.14	1/2	325.16	1/2		1/2		1/2		1/2		1/2	
3/4	2,088.15	3/4	1,729.15	3/4	1,375.67	3/4	1,030.66	3/4	676.66	3/4	317.68	3/4		3/4		3/4		3/4		3/4	
10	2,080.67	10	1,721.67	10	1,368.47	10	1,023.48	10	669.19	10	310.20	10		10		10		10		10	
1/4	2,073.19	1/4	1,714.19	1/4	1,361.28	1/4	1,016.31	1/4	661.71	1/4	302.72	1/4		1/4		1/4		1/4		1/4	
1/2	2,065.71	1/2	1,706.71	1/2	1,354.08	1/2	1,009.13	1/2	654.23	1/2	295.24	1/2		1/2		1/2		1/2		1/2	
3/4	2,058.23	3/4	1,699.24	3/4	1,346.88	3/4	1,001.95	3/4	646.75	3/4	287.76	3/4		3/4		3/4		3/4		3/4	
11	2,050.75	11	1,691.76	11	1,339.69	11	994.78	11	639.27	11	280.28	11		11		11		11		11	
1/4	2,043.27	1/4	1,684.28	1/4	1,332.49	1/4	987.60	1/4	631.79	1/4	272.80	1/4		1/4		1/4		1/4		1/4	
1/2	2,035.79	1/2	1,676.80	1/2	1,325.30	1/2	980.42	1/2	624.31	1/2	265.32	1/2		1/2		1/2		1/2		1/2	
3/4	2,028.32	3/4	1,669.32	3/4	1,318.10	3/4	973.25	3/4	616.83	3/4	257.85	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 03/27/2013 CL - SW  
CALCULATED: 03/27/2013 CL  
PRINTED: 03/27/2013 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 03/2013

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





# BARGE "KIRBY 29113"

## 2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-08"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.			
IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0		
									4,485.28		4,162.53		3,824.64		3,471.97		3,114.48		2,755.48		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,478.70	1/4	4,155.63	1/4	3,817.43	1/4	3,464.52	1/4	3,107.00	1/4	2,748.00		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,789.08	1/2	4,472.12	1/2	4,148.73	1/2	3,810.21	1/2	3,457.07	1/2	3,099.53	1/2	2,740.52
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,783.97	3/4	4,465.54	3/4	4,141.83	3/4	3,803.00	3/4	3,449.63	3/4	3,092.05	3/4	2,733.04
<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	4,778.86	<b>1</b>	4,458.96	<b>1</b>	4,134.93	<b>1</b>	3,795.79	<b>1</b>	3,442.18	<b>1</b>	3,084.57	<b>1</b>	2,725.57
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,772.51	1/4	4,452.36	1/4	4,128.01	1/4	3,788.55	1/4	3,434.73	1/4	3,077.09	1/4	2,718.09
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,766.17	1/2	4,445.75	1/2	4,121.09	1/2	3,781.31	1/2	3,427.29	1/2	3,069.61	1/2	2,710.61
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,759.83	3/4	4,439.15	3/4	4,114.17	3/4	3,774.07	3/4	3,419.84	3/4	3,062.13	3/4	2,703.13
<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	4,753.49	<b>2</b>	4,432.55	<b>2</b>	4,107.25	<b>2</b>	3,766.83	<b>2</b>	3,412.39	<b>2</b>	3,054.65	<b>2</b>	2,695.65
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,746.26	1/4	4,425.91	1/4	4,100.31	1/4	3,759.57	1/4	3,404.95	1/4	3,047.17	1/4	2,688.17
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,739.04	1/2	4,419.28	1/2	4,093.36	1/2	3,752.31	1/2	3,397.50	1/2	3,039.69	1/2	2,680.69
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,731.81	3/4	4,412.65	3/4	4,086.42	3/4	3,745.05	3/4	3,390.05	3/4	3,032.21	3/4	2,673.21
<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	4,724.58	<b>3</b>	4,406.02	<b>3</b>	4,079.47	<b>3</b>	3,737.79	<b>3</b>	3,382.60	<b>3</b>	3,024.73	<b>3</b>	2,665.73
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,717.14	1/4	4,399.36	1/4	4,072.50	1/4	3,730.50	1/4	3,375.16	1/4	3,017.25	1/4	2,658.25
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,709.69	1/2	4,392.71	1/2	4,065.53	1/2	3,723.21	1/2	3,367.71	1/2	3,009.77	1/2	2,650.77
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,702.24	3/4	4,386.05	3/4	4,058.55	3/4	3,715.93	3/4	3,360.26	3/4	3,002.30	3/4	2,643.29
<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	4,694.80	<b>4</b>	4,379.39	<b>4</b>	4,051.58	<b>4</b>	3,708.64	<b>4</b>	3,352.82	<b>4</b>	2,994.82	<b>4</b>	2,635.81
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,687.75	1/4	4,372.71	1/4	4,044.58	1/4	3,701.33	1/4	3,345.37	1/4	2,987.34	1/4	2,628.34
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,680.70	1/2	4,366.02	1/2	4,037.58	1/2	3,694.01	1/2	3,337.92	1/2	2,979.86	1/2	2,620.86
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,673.65	3/4	4,359.34	3/4	4,030.58	3/4	3,686.70	3/4	3,330.48	3/4	2,972.38	3/4	2,613.38
<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	4,666.60	<b>5</b>	4,352.66	<b>5</b>	4,023.59	<b>5</b>	3,679.38	<b>5</b>	3,323.03	<b>5</b>	2,964.90	<b>5</b>	2,605.90
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,660.20	1/4	4,345.95	1/4	4,016.56	1/4	3,672.04	1/4	3,315.58	1/4	2,957.42	1/4	2,598.42
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,653.81	1/2	4,339.24	1/2	4,009.53	1/2	3,664.70	1/2	3,308.13	1/2	2,949.94	1/2	2,590.94
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,647.41	3/4	4,332.53	3/4	4,002.51	3/4	3,657.36	3/4	3,300.69	3/4	2,942.46	3/4	2,583.46
<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	4,641.01	<b>6</b>	4,325.82	<b>6</b>	3,995.48	<b>6</b>	3,650.02	<b>6</b>	3,293.24	<b>6</b>	2,934.98	<b>6</b>	2,575.98
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,634.59	1/4	4,319.08	1/4	3,988.43	1/4	3,642.65	1/4	3,285.79	1/4	2,927.50	1/4	2,568.50
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,628.17	1/2	4,312.34	1/2	3,981.38	1/2	3,635.29	1/2	3,278.35	1/2	2,920.02	1/2	2,561.02
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,621.75	3/4	4,305.60	3/4	3,974.33	3/4	3,627.92	3/4	3,270.90	3/4	2,912.55	3/4	2,553.54
<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	4,615.33	<b>7</b>	4,298.87	<b>7</b>	3,967.28	<b>7</b>	3,620.55	<b>7</b>	3,263.45	<b>7</b>	2,905.07	<b>7</b>	2,546.06
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,608.88	1/4	4,292.10	1/4	3,960.20	1/4	3,613.16	1/4	3,256.01	1/4	2,897.59	1/4	2,538.59
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,602.43	1/2	4,285.34	1/2	3,953.12	1/2	3,605.77	1/2	3,248.56	1/2	2,890.11	1/2	2,531.11
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,595.98	3/4	4,278.58	3/4	3,946.04	3/4	3,598.37	3/4	3,241.11	3/4	2,882.63	3/4	2,523.63
<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	4,589.53	<b>8</b>	4,271.81	<b>8</b>	3,938.96	<b>8</b>	3,590.98	<b>8</b>	3,233.66	<b>8</b>	2,875.15	<b>8</b>	2,516.15
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,583.05	1/4	4,265.02	1/4	3,931.86	1/4	3,583.56	1/4	3,226.22	1/4	2,867.67	1/4	2,508.67
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,576.58	1/2	4,258.23	1/2	3,924.75	1/2	3,576.14	1/2	3,218.77	1/2	2,860.19	1/2	2,501.19
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,570.10	3/4	4,251.44	3/4	3,917.65	3/4	3,568.72	3/4	3,211.32	3/4	2,852.71	3/4	2,493.71
<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	4,563.63	<b>9</b>	4,244.65	<b>9</b>	3,910.54	<b>9</b>	3,561.30	<b>9</b>	3,203.88	<b>9</b>	2,845.23	<b>9</b>	2,486.23
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,557.12	1/4	4,237.83	1/4	3,903.41	1/4	3,553.86	1/4	3,196.43	1/4	2,837.75	1/4	2,478.75
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,550.62	1/2	4,231.02	1/2	3,896.28	1/2	3,546.42	1/2	3,188.98	1/2	2,830.27	1/2	2,471.27
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,544.12	3/4	4,224.20	3/4	3,889.15	3/4	3,538.98	3/4	3,181.54	3/4	2,822.79	3/4	2,463.79
<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	4,537.62	<b>10</b>	4,217.38	<b>10</b>	3,882.01	<b>10</b>	3,531.54	<b>10</b>	3,174.09	<b>10</b>	2,815.32	<b>10</b>	2,456.31
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,531.09	1/4	4,210.54	1/4	3,874.85	1/4	3,524.10	1/4	3,166.64	1/4	2,807.84	1/4	2,448.83
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,524.56	1/2	4,203.69	1/2	3,867.70	1/2	3,516.65	1/2	3,159.19	1/2	2,800.36	1/2	2,441.36
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,518.03	3/4	4,196.85	3/4	3,860.54	3/4	3,509.20	3/4	3,151.75	3/4	2,792.88	3/4	2,433.88
<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>	4,511.50	<b>11</b>	4,190.01	<b>11</b>	3,853.38	<b>11</b>	3,501.76	<b>11</b>	3,144.30	<b>11</b>	2,785.40	<b>11</b>	2,426.40
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,504.94	1/4	4,183.14	1/4	3,846.19	1/4	3,494.31	1/4	3,136.85	1/4	2,777.92	1/4	2,418.92
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,498.39	1/2	4,176.27	1/2	3,839.01	1/2	3,486.86	1/2	3,129.39	1/2	2,770.44	1/2	2,411.44
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,491.83	3/4	4,169.40	3/4	3,831.82	3/4	3,479.42	3/4	3,121.94	3/4	2,762.96	3/4	2,403.96

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.  
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.  
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.  
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN WITH "HERMETIC" CLOSED GAUGING DEVICE.  
 GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 51'-09" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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





# BARGE "KIRBY 29113"

## 2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-08"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,396.48	0	2,037.48	0	1,678.48	0	1,319.48	0	960.74	0	601.87	0	242.89	0		0		0	
1/4	2,389.00	1/4	2,030.00	1/4	1,671.00	1/4	1,312.00	1/4	953.27	1/4	594.40	1/4	235.41	1/4		1/4		1/4	
1/2	2,381.52	1/2	2,022.52	1/2	1,663.52	1/2	1,304.52	1/2	945.80	1/2	586.92	1/2	227.93	1/2		1/2		1/2	
3/4	2,374.04	3/4	2,015.04	3/4	1,656.04	3/4	1,297.04	3/4	938.34	3/4	579.44	3/4	220.45	3/4		3/4		3/4	
1	2,366.56	1	2,007.56	1	1,648.56	1	1,289.56	1	930.87	1	571.96	1	212.97	1		1		1	
1/4	2,359.08	1/4	2,000.08	1/4	1,641.08	1/4	1,282.08	1/4	923.40	1/4	564.48	1/4	205.50	1/4		1/4		1/4	
1/2	2,351.61	1/2	1,992.60	1/2	1,633.60	1/2	1,274.60	1/2	915.94	1/2	557.00	1/2	198.02	1/2		1/2		1/2	
3/4	2,344.13	3/4	1,985.12	3/4	1,626.12	3/4	1,267.12	3/4	908.47	3/4	549.52	3/4	190.54	3/4		3/4		3/4	
2	2,336.65	2	1,977.65	2	1,618.64	2	1,259.64	2	901.00	2	542.04	2	183.07	2		2		2	
1/4	2,329.17	1/4	1,970.17	1/4	1,611.16	1/4	1,252.16	1/4	893.53	1/4	534.56	1/4	175.60	1/4		1/4		1/4	
1/2	2,321.69	1/2	1,962.69	1/2	1,603.69	1/2	1,244.68	1/2	886.06	1/2	527.09	1/2	168.13	1/2		1/2		1/2	
3/4	2,314.21	3/4	1,955.21	3/4	1,596.21	3/4	1,237.20	3/4	878.59	3/4	519.61	3/4	160.65	3/4		3/4		3/4	
3	2,306.73	3	1,947.73	3	1,588.73	3	1,229.73	3	871.12	3	512.13	3	153.18	3		3		3	
1/4	2,299.25	1/4	1,940.25	1/4	1,581.25	1/4	1,222.25	1/4	863.64	1/4	504.65	1/4	145.72	1/4		1/4		1/4	
1/2	2,291.77	1/2	1,932.77	1/2	1,573.77	1/2	1,214.77	1/2	856.16	1/2	497.17	1/2	138.27	1/2		1/2		1/2	
3/4	2,284.29	3/4	1,925.29	3/4	1,566.29	3/4	1,207.29	3/4	848.68	3/4	489.69	3/4	130.81	3/4		3/4		3/4	
4	2,276.81	4	1,917.81	4	1,558.81	4	1,199.81	4	841.20	4	482.21	4	123.35	4		4		4	
1/4	2,269.33	1/4	1,910.33	1/4	1,551.33	1/4	1,192.33	1/4	833.72	1/4	474.73	1/4	115.91	1/4		1/4		1/4	
1/2	2,261.85	1/2	1,902.85	1/2	1,543.85	1/2	1,184.85	1/2	826.24	1/2	467.25	1/2	108.47	1/2		1/2		1/2	
3/4	2,254.38	3/4	1,895.37	3/4	1,536.37	3/4	1,177.37	3/4	818.76	3/4	459.78	3/4	101.02	3/4		3/4		3/4	
5	2,246.90	5	1,887.89	5	1,528.89	5	1,169.89	5	811.28	5	452.30	5	93.58	5		5		5	
1/4	2,239.42	1/4	1,880.42	1/4	1,521.41	1/4	1,162.41	1/4	803.81	1/4	444.82	1/4	86.17	1/4		1/4		1/4	
1/2	2,231.94	1/2	1,872.94	1/2	1,513.93	1/2	1,154.93	1/2	796.33	1/2	437.34	1/2	78.76	1/2		1/2		1/2	
3/4	2,224.46	3/4	1,865.46	3/4	1,506.46	3/4	1,147.45	3/4	788.85	3/4	429.86	3/4	71.35	3/4		3/4		3/4	
6	2,216.98	6	1,857.98	6	1,498.98	6	1,139.97	6	781.37	6	422.38	6	63.94	6		6		6	
1/4	2,209.50	1/4	1,850.50	1/4	1,491.50	1/4	1,132.50	1/4	773.89	1/4	414.90	1/4	56.99	1/4		1/4		1/4	
1/2	2,202.02	1/2	1,843.02	1/2	1,484.02	1/2	1,125.03	1/2	766.41	1/2	407.42	1/2	50.04	1/2		1/2		1/2	
3/4	2,194.54	3/4	1,835.54	3/4	1,476.54	3/4	1,117.55	3/4	758.93	3/4	399.94	3/4	43.09	3/4		3/4		3/4	
7	2,187.06	7	1,828.06	7	1,468.06	7	1,110.08	7	751.45	7	392.47	7	36.14	7		7		7	
1/4	2,179.58	1/4	1,820.58	1/4	1,461.58	1/4	1,102.61	1/4	743.97	1/4	384.99	1/4	30.84	1/4		1/4		1/4	
1/2	2,172.10	1/2	1,813.10	1/2	1,454.10	1/2	1,095.14	1/2	736.50	1/2	377.51	1/2	25.55	1/2		1/2		1/2	
3/4	2,164.63	3/4	1,805.62	3/4	1,446.62	3/4	1,087.68	3/4	729.02	3/4	370.03	3/4	20.26	3/4		3/4		3/4	
8	2,157.15	8	1,798.14	8	1,439.14	8	1,080.21	8	721.54	8	362.55	8	14.96	8		8		8	
1/4	2,149.67	1/4	1,790.67	1/4	1,431.66	1/4	1,072.74	1/4	714.06	1/4	355.07	1/4		1/4		1/4		1/4	
1/2	2,142.19	1/2	1,783.19	1/2	1,424.18	1/2	1,065.28	1/2	706.58	1/2	347.59	1/2		1/2		1/2		1/2	
3/4	2,134.71	3/4	1,775.71	3/4	1,416.71	3/4	1,057.81	3/4	699.10	3/4	340.11	3/4		3/4		3/4		3/4	
9	2,127.23	9	1,768.23	9	1,409.23	9	1,050.34	9	691.62	9	332.63	9		9		9		9	
1/4	2,119.75	1/4	1,760.75	1/4	1,401.75	1/4	1,042.87	1/4	684.14	1/4	325.16	1/4		1/4		1/4		1/4	
1/2	2,112.27	1/2	1,753.27	1/2	1,394.27	1/2	1,035.41	1/2	676.66	1/2	317.68	1/2		1/2		1/2		1/2	
3/4	2,104.79	3/4	1,745.79	3/4	1,386.79	3/4	1,027.94	3/4	669.19	3/4	310.20	3/4		3/4		3/4		3/4	
10	2,097.31	10	1,738.31	10	1,379.31	10	1,020.47	10	661.71	10	302.72	10		10		10		10	
1/4	2,089.83	1/4	1,730.83	1/4	1,371.83	1/4	1,013.01	1/4	654.23	1/4	295.24	1/4		1/4		1/4		1/4	
1/2	2,082.35	1/2	1,723.35	1/2	1,364.35	1/2	1,005.54	1/2	646.75	1/2	287.76	1/2		1/2		1/2		1/2	
3/4	2,074.87	3/4	1,715.87	3/4	1,356.87	3/4	998.07	3/4	639.27	3/4	280.28	3/4		3/4		3/4		3/4	
11	2,067.40	11	1,708.39	11	1,349.39	11	990.61	11	631.79	11	272.80	11		11		11		11	
1/4	2,059.92	1/4	1,700.91	1/4	1,341.91	1/4	983.14	1/4	624.31	1/4	265.32	1/4		1/4		1/4		1/4	
1/2	2,052.44	1/2	1,693.44	1/2	1,334.43	1/2	975.67	1/2	616.83	1/2	257.85	1/2		1/2		1/2		1/2	
3/4	2,044.96	3/4	1,685.96	3/4	1,326.95	3/4	968.20	3/4	609.35	3/4	250.37	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 03/27/2013 CL - SW  
CALCULATED: 03/27/2013 CL  
PRINTED: 03/27/2013 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 03/2013

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



# BARGE "KIRBY 29113"

## 3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-05 1/4"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.			
IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0
1/4		1/4		1/4		1/4	4,355.11	1/4	4,113.73	1/4	3,866.95	1/4	3,608.17	1/4	3,337.74	1/4	2,983.47	1/4	2,626.85		
1/2		1/2		1/2		1/2	4,350.48	1/2	4,108.72	1/2	3,861.68	1/2	3,602.66	1/2	3,332.04	1/2	2,976.04	1/2	2,619.42		
3/4		3/4		3/4		3/4	4,346.32	3/4	4,103.69	3/4	3,856.40	3/4	3,597.13	3/4	3,324.60	3/4	2,968.61	3/4	2,611.99		
1		1		1		1	4,342.17	1	4,098.66	1	3,851.12	1	3,591.59	1	3,317.17	1	2,961.18	1	2,604.56		
1/4		1/4		1/4		1/4	4,338.02	1/4	4,093.63	1/4	3,845.84	1/4	3,586.06	1/4	3,309.74	1/4	2,953.75	1/4	2,597.13		
1/2		1/2		1/2		1/2	4,333.86	1/2	4,088.60	1/2	3,840.56	1/2	3,580.52	1/2	3,302.31	1/2	2,946.32	1/2	2,589.70		
3/4		3/4		3/4		3/4	4,328.50	3/4	4,083.55	3/4	3,835.26	3/4	3,574.97	3/4	3,294.87	3/4	2,938.89	3/4	2,582.27		
2		2		2		2	4,323.14	2	4,078.50	2	3,829.96	2	3,569.42	2	3,287.44	2	2,931.46	2	2,574.84		
1/4		1/4		1/4		1/4	4,317.78	1/4	4,073.45	1/4	3,824.65	1/4	3,563.86	1/4	3,280.01	1/4	2,924.03	1/4	2,567.41		
1/2		1/2		1/2		1/2	4,312.43	1/2	4,068.39	1/2	3,819.35	1/2	3,558.31	1/2	3,272.58	1/2	2,916.60	1/2	2,559.98		
3/4		3/4		3/4		3/4	4,306.72	3/4	4,063.32	3/4	3,814.03	3/4	3,552.74	3/4	3,265.14	3/4	2,909.17	3/4	2,552.55		
3		3		3		3	4,301.01	3	4,058.25	3	3,808.71	3	3,547.17	3	3,257.71	3	2,901.74	3	2,545.12		
1/4		1/4		1/4		1/4	4,295.30	1/4	4,053.18	1/4	3,803.38	1/4	3,541.60	1/4	3,250.28	1/4	2,894.31	1/4	2,537.69		
1/2		1/2		1/2		1/2	4,289.60	1/2	4,048.11	1/2	3,798.06	1/2	3,536.03	1/2	3,242.85	1/2	2,886.88	1/2	2,530.26		
3/4		3/4		3/4		3/4	4,283.89	3/4	4,043.01	3/4	3,792.72	3/4	3,530.43	3/4	3,235.41	3/4	2,879.45	3/4	2,522.83		
4		4		4		4	4,278.18	4	4,037.92	4	3,787.37	4	3,524.84	4	3,227.98	4	2,872.02	4	2,515.40		
1/4		1/4		1/4		1/4	4,272.48	1/4	4,032.82	1/4	3,782.03	1/4	3,519.24	1/4	3,220.55	1/4	2,864.60	1/4	2,507.97		
1/2		1/2		1/2		1/2	4,266.77	1/2	4,027.73	1/2	3,776.69	1/2	3,513.65	1/2	3,213.11	1/2	2,857.17	1/2	2,500.54		
3/4		3/4		3/4		3/4	4,261.90	3/4	4,022.62	3/4	3,771.32	3/4	3,508.03	3/4	3,205.71	3/4	2,849.74	3/4	2,493.12		
5		5		5		5	4,257.04	5	4,017.50	5	3,765.96	5	3,502.42	5	3,198.30	5	2,842.31	5	2,485.69		
1/4		1/4		1/4		1/4	4,252.17	1/4	4,012.39	1/4	3,760.59	1/4	3,496.81	1/4	3,190.90	1/4	2,834.88	1/4	2,478.26		
1/2		1/2		1/2		1/2	4,247.30	1/2	4,007.27	1/2	3,755.22	1/2	3,491.19	1/2	3,183.49	1/2	2,827.45	1/2	2,470.83		
3/4		3/4		3/4		3/4	4,242.42	3/4	4,002.14	3/4	3,749.84	3/4	3,485.56	3/4	3,176.09	3/4	2,820.02	3/4	2,463.40		
6		6		6		6	4,237.53	6	3,997.00	6	3,744.46	6	3,479.92	6	3,168.68	6	2,812.59	6	2,455.97		
1/4		1/4		1/4		1/4	4,232.65	1/4	3,991.86	1/4	3,739.07	1/4	3,474.28	1/4	3,161.28	1/4	2,805.16	1/4	2,448.54		
1/2		1/2		1/2		1/2	4,227.77	1/2	3,986.73	1/2	3,733.69	1/2	3,468.65	1/2	3,153.87	1/2	2,797.73	1/2	2,441.11		
3/4		3/4		3/4		3/4	4,222.86	3/4	3,981.57	3/4	3,728.28	3/4	3,462.99	3/4	3,146.46	3/4	2,790.30	3/4	2,433.68		
7		7		7		7	4,217.95	7	3,976.42	7	3,722.87	7	3,457.34	7	3,139.06	7	2,782.87	7	2,426.25		
1/4		1/4		1/4		1/4	4,213.04	1/4	3,971.26	1/4	3,717.46	1/4	3,451.68	1/4	3,131.65	1/4	2,775.44	1/4	2,418.82		
1/2		1/2		1/2		1/2	4,208.13	1/2	3,966.10	1/2	3,712.06	1/2	3,446.03	1/2	3,124.25	1/2	2,768.01	1/2	2,411.39		
3/4		3/4		3/4		3/4	4,203.20	3/4	3,960.92	3/4	3,706.63	3/4	3,440.35	3/4	3,116.84	3/4	2,760.58	3/4	2,403.96		
8		8		8		8	4,198.28	8	3,955.74	8	3,701.20	8	3,434.67	8	3,109.44	8	2,753.15	8	2,396.53		
1/4		1/4		1/4		1/4	4,193.35	1/4	3,950.56	1/4	3,695.78	1/4	3,428.99	1/4	3,102.03	1/4	2,745.72	1/4	2,389.10		
1/2		1/2		1/2		1/2	4,188.42	1/2	3,945.39	1/2	3,690.35	1/2	3,423.31	1/2	3,094.62	1/2	2,738.29	1/2	2,381.67		
3/4		3/4		3/4		3/4	4,183.47	3/4	3,940.19	3/4	3,684.90	3/4	3,417.61	3/4	3,087.22	3/4	2,730.86	3/4	2,374.24		
9		9		9		9	4,178.52	9	3,934.99	9	3,679.45	9	3,411.92	9	3,079.81	9	2,723.43	9	2,366.81		
1/4		1/4		1/4		1/4	4,173.57	1/4	3,929.79	1/4	3,674.00	1/4	3,406.22	1/4	3,072.41	1/4	2,716.00	1/4	2,359.38		
1/2		1/2		1/2		1/2	4,168.62	1/2	3,924.59	1/2	3,668.55	1/2	3,400.52	1/2	3,065.00	1/2	2,708.57	1/2	2,351.95		
3/4		3/4		3/4		3/4	4,163.65	3/4	3,919.37	3/4	3,663.08	3/4	3,394.81	3/4	3,057.60	3/4	2,701.14	3/4	2,344.52		
10		10		10		10	4,158.68	10	3,914.15	10	3,657.61	10	3,389.11	10	3,050.19	10	2,693.71	10	2,337.09		
1/4		1/4		1/4		1/4	4,153.71	1/4	3,908.93	1/4	3,652.15	1/4	3,383.40	1/4	3,042.79	1/4	2,686.28	1/4	2,329.66		
1/2		1/2		1/2		1/2	4,148.74	1/2	3,903.70	1/2	3,646.68	1/2	3,377.69	1/2	3,035.38	1/2	2,678.86	1/2	2,322.23		
3/4		3/4		3/4		3/4	4,143.75	3/4	3,898.46	3/4	3,641.18	3/4	3,371.99	3/4	3,027.97	3/4	2,671.43	3/4	2,314.80		
11		11		11		11	4,138.75	11	3,893.22	11	3,635.69	11	3,366.28	11	3,020.57	11	2,664.00	11	2,307.37		
1/4		1/4		1/4		1/4	4,133.76	1/4	3,887.98	1/4	3,630.20	1/4	3,360.57	1/4	3,013.16	1/4	2,656.57	1/4	2,299.94		
1/2		1/2		1/2		1/2	4,369.02	1/2	4,128.77	1/2	3,824.75	1/2	3,624.71	1/2	3,354.87	1/2	3,005.76	1/2	2,649.14		
3/4		3/4		3/4		3/4	4,364.39	3/4	4,123.75	3/4	3,877.48	3/4	3,619.19	3/4	3,349.16	3/4	2,998.33	3/4	2,641.71		
12		12		12		12	4,359.75	12	4,118.74	12	3,872.21	12	3,613.68	12	3,343.45	12	2,990.90	12	2,634.28		

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.  
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.  
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.  
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN WITH "HERMETIC" CLOSED GAUGING DEVICE.  
 GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 51'-06" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT  
& ANALYSIS, INC.

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



# BARGE "KIRBY 29113"

## 3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-05 1/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,270.22	0	1,913.13	0	1,557.05	0	1,200.56	0	855.89	0	498.69	0	141.31	0		0		0	
1/4	2,262.79	1/4	1,905.69	1/4	1,549.63	1/4	1,193.38	1/4	848.46	1/4	491.25	1/4	133.86	1/4	1/4	1/4		1/4	1/4
1/2	2,255.36	1/2	1,898.27	1/2	1,542.19	1/2	1,186.21	1/2	841.04	1/2	483.80	1/2	126.42	1/2	1/2	1/2		1/2	1/2
3/4	2,247.93	3/4	1,890.85	3/4	1,534.74	3/4	1,179.03	3/4	833.61	3/4	476.36	3/4	118.97	3/4	3/4	3/4		3/4	3/4
1	2,240.50	1	1,883.44	1	1,527.30	1	1,171.85	1	826.19	1	468.91	1	111.53	1	1	1		1	1
1/4	2,233.07	1/4	1,876.02	1/4	1,519.85	1/4	1,164.68	1/4	818.77	1/4	461.47	1/4	104.08	1/4	1/4	1/4		1/4	1/4
1/2	2,225.64	1/2	1,868.60	1/2	1,512.41	1/2	1,157.50	1/2	811.34	1/2	454.02	1/2	96.95	1/2	1/2	1/2		1/2	1/2
3/4	2,218.21	3/4	1,861.18	3/4	1,504.97	3/4	1,150.33	3/4	803.92	3/4	446.58	3/4	89.82	3/4	3/4	3/4		3/4	3/4
2	2,210.78	2	1,853.76	2	1,497.52	2	1,143.15	2	796.49	2	439.13	2	82.69	2	2	2		2	2
1/4	2,203.35	1/4	1,846.35	1/4	1,490.08	1/4	1,135.97	1/4	789.07	1/4	431.68	1/4	75.56	1/4	1/4	1/4		1/4	1/4
1/2	2,195.92	1/2	1,838.93	1/2	1,482.63	1/2	1,128.80	1/2	781.62	1/2	424.24	1/2	69.38	1/2	1/2	1/2		1/2	1/2
3/4	2,188.49	3/4	1,831.51	3/4	1,475.19	3/4	1,121.62	3/4	774.18	3/4	416.79	3/4	63.19	3/4	3/4	3/4		3/4	3/4
3	2,181.06	3	1,824.09	3	1,467.74	3	1,114.45	3	766.73	3	409.35	3	57.00	3	3	3		3	3
1/4	2,173.63	1/4	1,816.68	1/4	1,460.30	1/4	1,107.27	1/4	759.29	1/4	401.90	1/4	50.81	1/4	1/4	1/4		1/4	1/4
1/2	2,166.20	1/2	1,809.26	1/2	1,452.86	1/2	1,100.09	1/2	751.84	1/2	394.46	1/2	45.88	1/2	1/2	1/2		1/2	1/2
3/4	2,158.77	3/4	1,801.84	3/4	1,445.41	3/4	1,092.92	3/4	744.40	3/4	387.01	3/4	40.94	3/4	3/4	3/4		3/4	3/4
4	2,151.34	4	1,794.42	4	1,437.97	4	1,085.74	4	736.95	4	379.57	4	36.01	4	4	4		4	4
1/4	2,143.91	1/4	1,787.00	1/4	1,430.52	1/4	1,078.57	1/4	729.50	1/4	372.12	1/4	31.08	1/4	1/4	1/4		1/4	1/4
1/2	2,136.46	1/2	1,779.59	1/2	1,423.08	1/2	1,071.40	1/2	722.06	1/2	364.67	1/2	27.41	1/2	1/2	1/2		1/2	1/2
3/4	2,129.02	3/4	1,772.17	3/4	1,415.64	3/4	1,064.24	3/4	714.61	3/4	357.23	3/4	23.74	3/4	3/4	3/4		3/4	3/4
5	2,121.57	5	1,764.75	5	1,408.19	5	1,057.08	5	707.17	5	349.78	5	20.08	5	5	5		5	5
1/4	2,114.13	1/4	1,757.33	1/4	1,400.75	1/4	1,049.92	1/4	699.72	1/4	342.34	1/4	16.41	1/4	1/4	1/4		1/4	1/4
1/2	2,106.69	1/2	1,749.91	1/2	1,393.30	1/2	1,042.76	1/2	692.28	1/2	334.89	1/2		1/2	1/2	1/2		1/2	1/2
3/4	2,099.24	3/4	1,742.50	3/4	1,385.86	3/4	1,035.59	3/4	684.83	3/4	327.45	3/4		3/4	3/4	3/4		3/4	3/4
6	2,091.80	6	1,735.08	6	1,378.41	6	1,028.43	6	677.39	6	320.00	6		6	6	6		6	6
1/4	2,084.35	1/4	1,727.66	1/4	1,370.97	1/4	1,021.27	1/4	669.94	1/4	312.56	1/4		1/4	1/4	1/4		1/4	1/4
1/2	2,076.91	1/2	1,720.24	1/2	1,363.53	1/2	1,014.11	1/2	662.49	1/2	305.11	1/2		1/2	1/2	1/2		1/2	1/2
3/4	2,069.46	3/4	1,712.82	3/4	1,356.08	3/4	1,006.95	3/4	655.05	3/4	297.67	3/4		3/4	3/4	3/4		3/4	3/4
7	2,062.02	7	1,705.41	7	1,348.64	7	999.79	7	647.60	7	290.22	7		7	7	7		7	7
1/4	2,054.58	1/4	1,697.99	1/4	1,341.19	1/4	992.64	1/4	640.16	1/4	282.77	1/4		1/4	1/4	1/4		1/4	1/4
1/2	2,047.13	1/2	1,690.57	1/2	1,333.75	1/2	985.48	1/2	632.71	1/2	275.33	1/2		1/2	1/2	1/2		1/2	1/2
3/4	2,039.69	3/4	1,683.15	3/4	1,326.31	3/4	978.33	3/4	625.27	3/4	267.88	3/4		3/4	3/4	3/4		3/4	3/4
8	2,032.24	8	1,675.74	8	1,318.86	8	971.17	8	617.82	8	260.44	8		8	8	8		8	8
1/4	2,024.80	1/4	1,668.32	1/4	1,311.42	1/4	964.02	1/4	610.38	1/4	252.99	1/4		1/4	1/4	1/4		1/4	1/4
1/2	2,017.35	1/2	1,660.90	1/2	1,303.97	1/2	956.86	1/2	602.93	1/2	245.55	1/2		1/2	1/2	1/2		1/2	1/2
3/4	2,009.91	3/4	1,653.48	3/4	1,296.53	3/4	949.71	3/4	595.49	3/4	238.10	3/4		3/4	3/4	3/4		3/4	3/4
9	2,002.47	9	1,646.06	9	1,289.08	9	942.55	9	588.04	9	230.66	9		9	9	9		9	9
1/4	1,995.02	1/4	1,638.65	1/4	1,281.64	1/4	935.40	1/4	580.59	1/4	223.21	1/4		1/4	1/4	1/4		1/4	1/4
1/2	1,987.58	1/2	1,631.23	1/2	1,274.20	1/2	928.24	1/2	573.15	1/2	215.76	1/2		1/2	1/2	1/2		1/2	1/2
3/4	1,980.13	3/4	1,623.81	3/4	1,266.75	3/4	921.09	3/4	565.70	3/4	208.32	3/4		3/4	3/4	3/4		3/4	3/4
10	1,972.69	10	1,616.39	10	1,259.31	10	913.93	10	558.26	10	200.87	10		10	10	10		10	10
1/4	1,965.24	1/4	1,608.97	1/4	1,251.86	1/4	906.78	1/4	550.81	1/4	193.43	1/4		1/4	1/4	1/4		1/4	1/4
1/2	1,957.80	1/2	1,601.56	1/2	1,244.42	1/2	899.62	1/2	543.37	1/2	185.98	1/2		1/2	1/2	1/2		1/2	1/2
3/4	1,950.36	3/4	1,594.14	3/4	1,236.97	3/4	892.47	3/4	535.92	3/4	178.54	3/4		3/4	3/4	3/4		3/4	3/4
11	1,942.91	11	1,586.72	11	1,229.53	11	885.31	11	528.48	11	171.09	11		11	11	11		11	11
1/4	1,935.47	1/4	1,579.30	1/4	1,222.09	1/4	878.16	1/4	521.03	1/4	163.65	1/4		1/4	1/4	1/4		1/4	1/4
1/2	1,928.02	1/2	1,571.88	1/2	1,214.91	1/2	870.74	1/2	513.58	1/2	156.20	1/2		1/2	1/2	1/2		1/2	1/2
3/4	1,920.58	3/4	1,564.47	3/4	1,207.73	3/4	863.31	3/4	506.14	3/4	148.76	3/4		3/4	3/4	3/4		3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 03/27/2013 CL - SW  
CALCULATED: 03/27/2013 CL  
PRINTED: 03/27/2013 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 03/2013

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



# BARGE "KIRBY 29113"

## 3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-05 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		
							4,387.70		4,145.53		3,897.84		3,638.14		3,366.71		3,012.20		2,654.25		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,383.04	1/4	4,140.50	1/4	3,892.55	1/4	3,632.60	1/4	3,360.97	1/4	3,004.75	1/4	2,646.80		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,378.38	1/2	4,135.46	1/2	3,887.26	1/2	3,627.07	1/2	3,355.24	1/2	2,997.29	1/2	2,639.34		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,374.20	3/4	4,130.41	3/4	3,881.96	3/4	3,621.51	3/4	3,347.78	3/4	2,989.83	3/4	2,631.88		
<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>4,370.02</b>	<b>1</b>	<b>4,125.35</b>	<b>1</b>	<b>3,876.65</b>	<b>1</b>	<b>3,615.95</b>	<b>1</b>	<b>3,340.33</b>	<b>1</b>	<b>2,982.38</b>	<b>1</b>	<b>2,624.43</b>		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,365.84	1/4	4,120.30	1/4	3,871.34	1/4	3,610.39	1/4	3,332.87	1/4	2,974.92	1/4	2,616.97		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,361.66	1/2	4,115.25	1/2	3,866.04	1/2	3,604.83	1/2	3,325.41	1/2	2,967.46	1/2	2,609.51		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,356.28	3/4	4,110.17	3/4	3,860.71	3/4	3,599.25	3/4	3,317.95	3/4	2,960.00	3/4	2,602.05		
<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>4,350.90</b>	<b>2</b>	<b>4,105.09</b>	<b>2</b>	<b>3,855.39</b>	<b>2</b>	<b>3,593.67</b>	<b>2</b>	<b>3,310.50</b>	<b>2</b>	<b>2,952.55</b>	<b>2</b>	<b>2,594.60</b>		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,345.51	1/4	4,100.02	1/4	3,850.06	1/4	3,588.10	1/4	3,303.04	1/4	2,945.09	1/4	2,587.14		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,340.13	1/2	4,094.94	1/2	3,844.74	1/2	3,582.52	1/2	3,295.58	1/2	2,937.63	1/2	2,579.68		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,334.40	3/4	4,089.84	3/4	3,839.39	3/4	3,576.92	3/4	3,288.12	3/4	2,930.17	3/4	2,572.22		
<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>4,328.67</b>	<b>3</b>	<b>4,084.75</b>	<b>3</b>	<b>3,834.04</b>	<b>3</b>	<b>3,571.33</b>	<b>3</b>	<b>3,280.67</b>	<b>3</b>	<b>2,922.72</b>	<b>3</b>	<b>2,564.77</b>		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,322.94	1/4	4,079.65	1/4	3,828.70	1/4	3,565.73	1/4	3,273.21	1/4	2,915.26	1/4	2,557.31		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,317.21	1/2	4,074.56	1/2	3,823.35	1/2	3,560.14	1/2	3,265.75	1/2	2,907.80	1/2	2,549.85		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,311.47	3/4	4,069.44	3/4	3,817.98	3/4	3,554.52	3/4	3,258.30	3/4	2,900.35	3/4	2,542.39		
<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4,305.74</b>	<b>4</b>	<b>4,064.32</b>	<b>4</b>	<b>3,812.61</b>	<b>4</b>	<b>3,548.90</b>	<b>4</b>	<b>3,250.84</b>	<b>4</b>	<b>2,892.89</b>	<b>4</b>	<b>2,534.94</b>		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,300.01	1/4	4,059.20	1/4	3,807.25	1/4	3,543.28	1/4	3,243.38	1/4	2,885.43	1/4	2,527.48		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,294.28	1/2	4,054.08	1/2	3,801.88	1/2	3,537.66	1/2	3,235.92	1/2	2,877.97	1/2	2,520.02		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,289.39	3/4	4,048.94	3/4	3,796.49	3/4	3,532.02	3/4	3,228.47	3/4	2,870.52	3/4	2,512.57		
<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>4,284.50</b>	<b>5</b>	<b>4,043.81</b>	<b>5</b>	<b>3,791.10</b>	<b>5</b>	<b>3,526.38</b>	<b>5</b>	<b>3,221.01</b>	<b>5</b>	<b>2,863.06</b>	<b>5</b>	<b>2,505.11</b>		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,279.61	1/4	4,038.67	1/4	3,785.71	1/4	3,520.75	1/4	3,213.55	1/4	2,855.60	1/4	2,497.65		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,274.72	1/2	4,033.53	1/2	3,780.32	1/2	3,515.11	1/2	3,206.09	1/2	2,848.14	1/2	2,490.19		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,269.81	3/4	4,028.37	3/4	3,774.91	3/4	3,509.45	3/4	3,198.64	3/4	2,840.69	3/4	2,482.74		
<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>4,264.90</b>	<b>6</b>	<b>4,023.21</b>	<b>6</b>	<b>3,769.50</b>	<b>6</b>	<b>3,503.78</b>	<b>6</b>	<b>3,191.18</b>	<b>6</b>	<b>2,833.23</b>	<b>6</b>	<b>2,475.28</b>		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,259.99	1/4	4,018.05	1/4	3,764.09	1/4	3,498.12	1/4	3,183.72	1/4	2,825.77	1/4	2,467.82		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,255.08	1/2	4,012.89	1/2	3,758.68	1/2	3,492.46	1/2	3,176.27	1/2	2,818.32	1/2	2,460.36		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,250.15	3/4	4,007.71	3/4	3,753.25	3/4	3,486.78	3/4	3,168.81	3/4	2,810.86	3/4	2,452.91		
<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>4,245.22</b>	<b>7</b>	<b>4,002.53</b>	<b>7</b>	<b>3,747.82</b>	<b>7</b>	<b>3,481.10</b>	<b>7</b>	<b>3,161.35</b>	<b>7</b>	<b>2,803.40</b>	<b>7</b>	<b>2,445.45</b>		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,240.29	1/4	3,997.35	1/4	3,742.39	1/4	3,475.42	1/4	3,153.89	1/4	2,795.94	1/4	2,437.99		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,235.35	1/2	3,992.17	1/2	3,736.96	1/2	3,469.74	1/2	3,146.44	1/2	2,788.49	1/2	2,430.54		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,230.40	3/4	3,986.96	3/4	3,731.50	3/4	3,464.04	3/4	3,138.98	3/4	2,781.03	3/4	2,423.08		
<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>4,225.45</b>	<b>8</b>	<b>3,981.76</b>	<b>8</b>	<b>3,726.05</b>	<b>8</b>	<b>3,458.34</b>	<b>8</b>	<b>3,131.52</b>	<b>8</b>	<b>2,773.57</b>	<b>8</b>	<b>2,415.62</b>		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,220.50	1/4	3,976.55	1/4	3,720.60	1/4	3,452.63	1/4	3,124.06	1/4	2,766.11	1/4	2,408.16		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,215.55	1/2	3,971.35	1/2	3,715.15	1/2	3,446.93	1/2	3,116.61	1/2	2,758.66	1/2	2,400.71		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,210.57	3/4	3,966.13	3/4	3,709.68	3/4	3,441.21	3/4	3,109.15	3/4	2,751.20	3/4	2,393.25		
<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>4,205.60</b>	<b>9</b>	<b>3,960.91</b>	<b>9</b>	<b>3,704.20</b>	<b>9</b>	<b>3,435.48</b>	<b>9</b>	<b>3,101.69</b>	<b>9</b>	<b>2,743.74</b>	<b>9</b>	<b>2,385.79</b>		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,200.62	1/4	3,955.68	1/4	3,698.73	1/4	3,429.76	1/4	3,094.24	1/4	2,736.28	1/4	2,378.33		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,195.65	1/2	3,950.46	1/2	3,693.25	1/2	3,424.04	1/2	3,086.78	1/2	2,728.83	1/2	2,370.88		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,190.65	3/4	3,945.22	3/4	3,687.76	3/4	3,418.31	3/4	3,079.32	3/4	2,721.37	3/4	2,363.42		
<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>4,185.66</b>	<b>10</b>	<b>3,939.97</b>	<b>10</b>	<b>3,682.27</b>	<b>10</b>	<b>3,412.57</b>	<b>10</b>	<b>3,071.86</b>	<b>10</b>	<b>2,713.91</b>	<b>10</b>	<b>2,355.96</b>		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,180.67	1/4	3,934.72	1/4	3,676.77	1/4	3,406.84	1/4	3,064.41	1/4	2,706.46	1/4	2,348.51		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,175.68	1/2	3,929.48	1/2	3,671.28	1/2	3,401.11	1/2	3,056.95	1/2	2,699.00	1/2	2,341.05		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,170.66	3/4	3,924.21	3/4	3,665.76	3/4	3,395.37	3/4	3,049.49	3/4	2,691.54	3/4	2,333.59		
<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>4,165.64</b>	<b>11</b>	<b>3,918.95</b>	<b>11</b>	<b>3,660.25</b>	<b>11</b>	<b>3,389.64</b>	<b>11</b>	<b>3,042.03</b>	<b>11</b>	<b>2,684.08</b>	<b>11</b>	<b>2,326.13</b>		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,160.62	1/4	3,913.68	1/4	3,654.73	1/4	3,383.91	1/4	3,034.58	1/4	2,676.63	1/4	2,318.68		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,397.02	1/2	4,155.60	1/2	3,908.42	1/2	3,649.21	1/2	3,378.17	1/2	3,027.12	1/2	2,669.17	1/2	2,311.22
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,392.36	3/4	4,150.57	3/4	3,903.13	3/4	3,643.67	3/4	3,372.44	3/4	3,019.66	3/4	2,661.71	3/4	2,303.76

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.  
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.  
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.  
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN WITH "HERMETIC" CLOSED GAUGING DEVICE.  
 GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 51'-06" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



# BARGE "KIRBY 29113"

## 3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-05 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	2,296.30	0	1,938.35	0	1,580.40	0	1,222.45	0	864.76	0	506.94	0	149.00	0		0		0	
1/4	2,288.85	1/4	1,930.90	1/4	1,572.95	1/4	1,215.00	1/4	857.32	1/4	499.48	1/4	141.54	1/4	1/4	1/4		1/4	1/4
1/2	2,281.39	1/2	1,923.44	1/2	1,565.49	1/2	1,207.54	1/2	849.87	1/2	492.03	1/2	134.09	1/2	1/2	1/2		1/2	1/2
3/4	2,273.93	3/4	1,915.98	3/4	1,558.03	3/4	1,200.08	3/4	842.43	3/4	484.57	3/4	126.63	3/4	3/4	3/4		3/4	3/4
1	2,266.47	1	1,908.52	1	1,550.57	1	1,192.62	1	834.98	1	477.11	1	119.17	1	1	1		1	1
1/4	2,259.02	1/4	1,901.07	1/4	1,543.12	1/4	1,185.17	1/4	827.54	1/4	469.65	1/4	111.72	1/4	1/4	1/4		1/4	1/4
1/2	2,251.56	1/2	1,893.61	1/2	1,535.66	1/2	1,177.71	1/2	820.09	1/2	462.20	1/2	104.26	1/2	1/2	1/2		1/2	1/2
3/4	2,244.10	3/4	1,886.15	3/4	1,528.20	3/4	1,170.25	3/4	812.65	3/4	454.74	3/4	97.12	3/4	3/4	3/4		3/4	3/4
2	2,236.65	2	1,878.70	2	1,520.74	2	1,162.79	2	805.20	2	447.28	2	89.98	2	2	2		2	2
1/4	2,229.19	1/4	1,871.24	1/4	1,513.29	1/4	1,155.34	1/4	797.76	1/4	439.83	1/4	82.83	1/4	1/4	1/4		1/4	1/4
1/2	2,221.73	1/2	1,863.78	1/2	1,505.83	1/2	1,147.88	1/2	790.31	1/2	432.37	1/2	75.69	1/2	1/2	1/2		1/2	1/2
3/4	2,214.27	3/4	1,856.32	3/4	1,498.37	3/4	1,140.42	3/4	782.85	3/4	424.91	3/4	69.49	3/4	3/4	3/4		3/4	3/4
3	2,206.82	3	1,848.87	3	1,490.92	3	1,132.97	3	775.40	3	417.46	3	63.29	3	3	3		3	3
1/4	2,199.36	1/4	1,841.41	1/4	1,483.46	1/4	1,125.51	1/4	767.94	1/4	410.00	1/4	57.09	1/4	1/4	1/4		1/4	1/4
1/2	2,191.90	1/2	1,833.95	1/2	1,476.00	1/2	1,118.05	1/2	760.48	1/2	402.54	1/2	50.89	1/2	1/2	1/2		1/2	1/2
3/4	2,184.44	3/4	1,826.49	3/4	1,468.54	3/4	1,110.59	3/4	753.02	3/4	395.08	3/4	45.95	3/4	3/4	3/4		3/4	3/4
4	2,176.99	4	1,819.04	4	1,461.09	4	1,103.14	4	745.57	4	387.63	4	41.00	4	4	4		4	4
1/4	2,169.53	1/4	1,811.58	1/4	1,453.63	1/4	1,095.68	1/4	738.11	1/4	380.17	1/4	36.06	1/4	1/4	1/4		1/4	1/4
1/2	2,162.07	1/2	1,804.12	1/2	1,446.17	1/2	1,088.22	1/2	730.65	1/2	372.71	1/2	31.12	1/2	1/2	1/2		1/2	1/2
3/4	2,154.62	3/4	1,796.66	3/4	1,438.71	3/4	1,080.76	3/4	723.20	3/4	365.26	3/4	27.44	3/4	3/4	3/4		3/4	3/4
5	2,147.16	5	1,789.21	5	1,431.26	5	1,073.31	5	715.74	5	357.80	5	23.76	5	5	5		5	5
1/4	2,139.70	1/4	1,781.75	1/4	1,423.80	1/4	1,065.85	1/4	708.28	1/4	350.34	1/4	20.08	1/4	1/4	1/4		1/4	1/4
1/2	2,132.24	1/2	1,774.29	1/2	1,416.34	1/2	1,058.39	1/2	700.82	1/2	342.88	1/2	16.41	1/2	1/2	1/2		1/2	1/2
3/4	2,124.79	3/4	1,766.84	3/4	1,408.89	3/4	1,050.93	3/4	693.37	3/4	335.43	3/4		3/4	3/4	3/4		3/4	3/4
6	2,117.33	6	1,759.38	6	1,401.43	6	1,043.48	6	685.91	6	327.97	6		6	6	6		6	6
1/4	2,109.87	1/4	1,751.92	1/4	1,393.97	1/4	1,036.02	1/4	678.45	1/4	320.51	1/4		1/4	1/4	1/4		1/4	1/4
1/2	2,102.41	1/2	1,744.46	1/2	1,386.51	1/2	1,028.56	1/2	671.00	1/2	313.06	1/2		1/2	1/2	1/2		1/2	1/2
3/4	2,094.96	3/4	1,737.01	3/4	1,379.06	3/4	1,021.12	3/4	663.54	3/4	305.60	3/4		3/4	3/4	3/4		3/4	3/4
7	2,087.50	7	1,729.55	7	1,371.60	7	1,013.67	7	656.08	7	298.14	7		7	7	7		7	7
1/4	2,080.04	1/4	1,722.09	1/4	1,364.14	1/4	1,006.23	1/4	648.63	1/4	290.68	1/4		1/4	1/4	1/4		1/4	1/4
1/2	2,072.59	1/2	1,714.63	1/2	1,356.68	1/2	998.78	1/2	641.17	1/2	283.23	1/2		1/2	1/2	1/2		1/2	1/2
3/4	2,065.13	3/4	1,707.18	3/4	1,349.23	3/4	991.34	3/4	633.71	3/4	275.77	3/4		3/4	3/4	3/4		3/4	3/4
8	2,057.67	8	1,699.72	8	1,341.77	8	983.89	8	626.25	8	268.31	8		8	8	8		8	8
1/4	2,050.21	1/4	1,692.26	1/4	1,334.31	1/4	976.45	1/4	618.80	1/4	260.86	1/4		1/4	1/4	1/4		1/4	1/4
1/2	2,042.76	1/2	1,684.81	1/2	1,326.85	1/2	969.00	1/2	611.34	1/2	253.40	1/2		1/2	1/2	1/2		1/2	1/2
3/4	2,035.30	3/4	1,677.35	3/4	1,319.40	3/4	961.55	3/4	603.88	3/4	245.94	3/4		3/4	3/4	3/4		3/4	3/4
9	2,027.84	9	1,669.89	9	1,311.94	9	954.11	9	596.43	9	238.48	9		9	9	9		9	9
1/4	2,020.38	1/4	1,662.43	1/4	1,304.48	1/4	946.66	1/4	588.97	1/4	231.03	1/4		1/4	1/4	1/4		1/4	1/4
1/2	2,012.93	1/2	1,654.98	1/2	1,297.03	1/2	939.22	1/2	581.51	1/2	223.57	1/2		1/2	1/2	1/2		1/2	1/2
3/4	2,005.47	3/4	1,647.52	3/4	1,289.57	3/4	931.77	3/4	574.05	3/4	216.11	3/4		3/4	3/4	3/4		3/4	3/4
10	1,998.01	10	1,640.06	10	1,282.11	10	924.33	10	566.60	10	208.66	10		10	10	10		10	10
1/4	1,990.55	1/4	1,632.60	1/4	1,274.65	1/4	916.88	1/4	559.14	1/4	201.20	1/4		1/4	1/4	1/4		1/4	1/4
1/2	1,983.10	1/2	1,625.15	1/2	1,267.20	1/2	909.44	1/2	551.68	1/2	193.74	1/2		1/2	1/2	1/2		1/2	1/2
3/4	1,975.64	3/4	1,617.69	3/4	1,259.74	3/4	901.99	3/4	544.23	3/4	186.29	3/4		3/4	3/4	3/4		3/4	3/4
11	1,968.18	11	1,610.23	11	1,252.28	11	894.55	11	536.77	11	178.83	11		11	11	11		11	11
1/4	1,960.73	1/4	1,602.78	1/4	1,244.82	1/4	887.10	1/4	529.31	1/4	171.37	1/4		1/4	1/4	1/4		1/4	1/4
1/2	1,953.27	1/2	1,595.32	1/2	1,237.37	1/2	879.65	1/2	521.85	1/2	163.91	1/2		1/2	1/2	1/2		1/2	1/2
3/4	1,945.81	3/4	1,587.86	3/4	1,229.91	3/4	872.21	3/4	514.40	3/4	156.46	3/4		3/4	3/4	3/4		3/4	3/4

STRAPPED: 03/27/2013 CL - SW  
CALCULATED: 03/27/2013 CL  
PRINTED: 03/27/2013 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 03/2013

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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