



# BARGE "KIRBY 28167"

## 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	00-1/2	- 00-1/2	00-7/8	- 00-7/8	01-3/8	- 01-3/8	01-3/4	- 01-3/4	02-1/4	- 02-1/4	02-5/8	- 02-5/8
1 STBD	00-1/2	- 00-1/2	00-7/8	- 00-7/8	01-3/8	- 01-3/8	01-3/4	- 01-3/4	02-1/4	- 02-1/4	02-5/8	- 02-5/8
2 PORT	00-1/2	- 00-1/2	00-7/8	- 00-7/8	01-3/8	- 01-3/8	01-3/4	- 01-3/4	02-1/4	- 02-1/4	02-5/8	- 02-5/8
2 STBD	00-1/2	- 00-1/2	00-7/8	- 00-7/8	01-3/8	- 01-3/8	01-3/4	- 01-3/4	02-1/4	- 02-1/4	02-5/8	- 02-5/8
3 PORT	00-3/8	- 00-3/8	00-7/8	- 00-7/8	01-1/4	- 01-1/4	01-3/4	- 01-3/4	02-1/8	- 02-1/8	02-1/2	- 02-1/2
3 STBD	00-3/8	- 00-3/8	00-7/8	- 00-7/8	01-1/4	- 01-1/4	01-3/4	- 01-3/4	02-1/8	- 02-1/8	02-1/2	- 02-1/2

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

LENGTH BETWEEN DRAFT MARKS: 241'-06"

April 11, 2011

PRECISION MEASUREMENT  
& ANALYSIS, INC.

P.O. Box 2092  
Pearland, Texas 77588

<http://www.pmacorp.net>



# BARGE "KIRBY 28167"

## 1 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
									4,533.60		4,201.92		3,846.24		3,479.72		3,113.19		2,746.65		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,526.94	1/4	4,194.74	1/4	3,838.63	1/4	3,472.09	1/4	3,105.55	1/4	2,739.01		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,520.25	1/2	4,187.52	1/2	3,830.99	1/2	3,464.45	1/2	3,097.91	1/2	2,731.38		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,839.18	3/4	4,513.56	3/4	4,180.30	3/4	3,823.35	3/4	3,456.82	3/4	3,090.28	3/4	2,723.74
<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>	4,833.54	<b>1</b>	4,506.86	<b>1</b>	4,173.08	<b>1</b>	3,815.72	<b>1</b>	3,449.18	<b>1</b>	3,082.64	<b>1</b>	2,716.10
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,827.90	1/4	4,500.17	1/4	4,165.86	1/4	3,808.08	1/4	3,441.54	1/4	3,075.01	1/4	2,708.47
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,821.06	1/2	4,493.44	1/2	4,158.60	1/2	3,800.44	1/2	3,433.91	1/2	3,067.37	1/2	2,700.83
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,814.23	3/4	4,486.72	3/4	4,151.34	3/4	3,792.81	3/4	3,426.27	3/4	3,059.73	3/4	2,693.20
<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>	4,807.39	<b>2</b>	4,479.99	<b>2</b>	4,144.09	<b>2</b>	3,785.17	<b>2</b>	3,418.63	<b>2</b>	3,052.10	<b>2</b>	2,685.56
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,800.56	1/4	4,473.27	1/4	4,136.83	1/4	3,777.54	1/4	3,411.00	1/4	3,044.46	1/4	2,677.92
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,793.09	1/2	4,466.51	1/2	4,129.54	1/2	3,769.90	1/2	3,403.36	1/2	3,036.82	1/2	2,670.29
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,785.62	3/4	4,459.74	3/4	4,122.24	3/4	3,762.26	3/4	3,395.73	3/4	3,029.19	3/4	2,662.65
<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>	4,778.14	<b>3</b>	4,452.98	<b>3</b>	4,114.95	<b>3</b>	3,754.63	<b>3</b>	3,388.09	<b>3</b>	3,021.55	<b>3</b>	2,655.01
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,770.67	1/4	4,446.22	1/4	4,107.65	1/4	3,746.99	1/4	3,380.45	1/4	3,013.92	1/4	2,647.38
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,763.12	1/2	4,439.42	1/2	4,100.32	1/2	3,739.35	1/2	3,372.82	1/2	3,006.28	1/2	2,639.74
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,755.57	3/4	4,432.63	3/4	4,092.99	3/4	3,731.72	3/4	3,365.18	3/4	2,998.64	3/4	2,632.11
<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>	4,748.02	<b>4</b>	4,425.83	<b>4</b>	4,085.66	<b>4</b>	3,724.08	<b>4</b>	3,357.54	<b>4</b>	2,991.01	<b>4</b>	2,624.47
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,740.47	1/4	4,419.03	1/4	4,078.33	1/4	3,716.45	1/4	3,349.91	1/4	2,983.37	1/4	2,616.83
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,733.19	1/2	4,412.19	1/2	4,070.97	1/2	3,708.81	1/2	3,342.27	1/2	2,975.73	1/2	2,609.20
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,725.92	3/4	4,405.36	3/4	4,063.61	3/4	3,701.17	3/4	3,334.64	3/4	2,968.10	3/4	2,601.56
<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>	4,718.65	<b>5</b>	4,398.52	<b>5</b>	4,056.25	<b>5</b>	3,693.54	<b>5</b>	3,327.00	<b>5</b>	2,960.46	<b>5</b>	2,593.92
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,711.38	1/4	4,391.69	1/4	4,048.88	1/4	3,685.90	1/4	3,319.36	1/4	2,952.83	1/4	2,586.29
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,704.65	1/2	4,384.81	1/2	4,041.49	1/2	3,678.27	1/2	3,311.73	1/2	2,945.19	1/2	2,578.65
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,697.93	3/4	4,377.94	3/4	4,034.09	3/4	3,670.63	3/4	3,304.09	3/4	2,937.55	3/4	2,571.02
<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>	4,691.21	<b>6</b>	4,371.07	<b>6</b>	4,026.69	<b>6</b>	3,662.99	<b>6</b>	3,296.46	<b>6</b>	2,929.92	<b>6</b>	2,563.38
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,684.49	1/4	4,364.19	1/4	4,019.29	1/4	3,655.36	1/4	3,288.82	1/4	2,922.28	1/4	2,555.74
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,678.02	1/2	4,357.28	1/2	4,011.86	1/2	3,647.72	1/2	3,281.18	1/2	2,914.65	1/2	2,548.11
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,671.55	3/4	4,350.37	3/4	4,004.42	3/4	3,640.08	3/4	3,273.55	3/4	2,907.01	3/4	2,540.47
<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>	4,665.08	<b>7</b>	4,343.46	<b>7</b>	3,996.99	<b>7</b>	3,632.45	<b>7</b>	3,265.91	<b>7</b>	2,899.37	<b>7</b>	2,532.84
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,658.60	1/4	4,336.55	1/4	3,989.55	1/4	3,624.81	1/4	3,258.27	1/4	2,891.74	1/4	2,525.20
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,652.10	1/2	4,329.58	1/2	3,982.08	1/2	3,617.18	1/2	3,250.64	1/2	2,884.10	1/2	2,517.56
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,645.59	3/4	4,322.61	3/4	3,974.61	3/4	3,609.54	3/4	3,243.00	3/4	2,876.46	3/4	2,509.93
<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>	4,639.08	<b>8</b>	4,315.64	<b>8</b>	3,967.13	<b>8</b>	3,601.90	<b>8</b>	3,235.37	<b>8</b>	2,868.83	<b>8</b>	2,502.29
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,632.57	1/4	4,308.67	1/4	3,959.66	1/4	3,594.27	1/4	3,227.73	1/4	2,861.19	1/4	2,494.65
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,626.03	1/2	4,301.62	1/2	3,952.15	1/2	3,586.63	1/2	3,220.09	1/2	2,853.56	1/2	2,487.02
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,619.48	3/4	4,294.58	3/4	3,944.64	3/4	3,578.99	3/4	3,212.46	3/4	2,845.92	3/4	2,479.38
<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>	4,612.93	<b>9</b>	4,287.53	<b>9</b>	3,937.13	<b>9</b>	3,571.36	<b>9</b>	3,204.82	<b>9</b>	2,838.28	<b>9</b>	2,471.75
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,606.39	1/4	4,280.48	1/4	3,929.62	1/4	3,563.72	1/4	3,197.18	1/4	2,830.65	1/4	2,464.11
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,599.81	1/2	4,273.37	1/2	3,922.08	1/2	3,556.09	1/2	3,189.55	1/2	2,823.01	1/2	2,456.47
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,593.22	3/4	4,266.26	3/4	3,914.53	3/4	3,548.45	3/4	3,181.91	3/4	2,815.37	3/4	2,448.84
<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>	4,586.64	<b>10</b>	4,259.16	<b>10</b>	3,906.98	<b>10</b>	3,540.81	<b>10</b>	3,174.28	<b>10</b>	2,807.74	<b>10</b>	2,441.20
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,580.06	1/4	4,252.05	1/4	3,899.43	1/4	3,533.18	1/4	3,166.64	1/4	2,800.10	1/4	2,433.56
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,573.44	1/2	4,244.90	1/2	3,891.85	1/2	3,525.54	1/2	3,159.00	1/2	2,792.47	1/2	2,425.93
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,566.82	3/4	4,237.76	3/4	3,884.26	3/4	3,517.90	3/4	3,151.37	3/4	2,784.83	3/4	2,418.29
<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>	4,560.19	<b>11</b>	4,230.61	<b>11</b>	3,876.68	<b>11</b>	3,510.27	<b>11</b>	3,143.73	<b>11</b>	2,777.19	<b>11</b>	2,410.66
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,553.57	1/4	4,223.47	1/4	3,869.09	1/4	3,502.63	1/4	3,136.09	1/4	2,769.56	1/4	2,403.02
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,546.92	1/2	4,216.29	1/2	3,861.48	1/2	3,495.00	1/2	3,128.46	1/2	2,761.92	1/2	2,395.38
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,540.26	3/4	4,209.10	3/4	3,853.86	3/4	3,487.36	3/4	3,120.82	3/4	2,754.28	3/4	2,387.75

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.

CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN WITH "HERMETIC" CLOSED GAUGING DEVICE.

GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 52'-09" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT  
& ANALYSIS, INC.

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Pearland, Texas 77588

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# BARGE "KIRBY 28167"

## 1 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		IN		IN		IN		IN		IN		IN		IN		IN		IN	
0	2,380.11	0	2,013.57	0	1,647.02	0	1,281.11	0	916.57	0	550.50	0	201.83	0		0		0	
1/4	2,372.47	1/4	2,005.94	1/4	1,639.39	1/4	1,273.49	1/4	908.99	1/4	542.86	1/4	195.04	1/4	1/4	1/4		1/4	1/4
1/2	2,364.84	1/2	1,998.30	1/2	1,631.75	1/2	1,265.85	1/2	901.41	1/2	535.23	1/2	188.34	1/2	1/2	1/2		1/2	1/2
3/4	2,357.20	3/4	1,990.67	3/4	1,624.11	3/4	1,258.21	3/4	893.83	3/4	527.59	3/4	181.63	3/4	3/4	3/4		3/4	3/4
1	2,349.57	1	1,983.03	1	1,616.48	1	1,250.58	1	886.25	1	519.95	1	174.93	1	1	1		1	1
1/4	2,341.93	1/4	1,975.40	1/4	1,608.84	1/4	1,242.94	1/4	878.67	1/4	512.32	1/4	168.23	1/4	1/4	1/4		1/4	1/4
1/2	2,334.29	1/2	1,967.76	1/2	1,601.20	1/2	1,235.30	1/2	871.07	1/2	504.70	1/2	161.61	1/2	1/2	1/2		1/2	1/2
3/4	2,326.66	3/4	1,960.12	3/4	1,593.57	3/4	1,227.66	3/4	863.47	3/4	497.08	3/4	155.00	3/4	3/4	3/4		3/4	3/4
2	2,319.02	2	1,952.49	2	1,585.93	2	1,220.03	2	855.88	2	489.47	2	148.38	2	2	2		2	2
1/4	2,311.39	1/4	1,944.85	1/4	1,578.29	1/4	1,212.39	1/4	848.28	1/4	481.85	1/4	141.76	1/4	1/4	1/4		1/4	1/4
1/2	2,303.75	1/2	1,937.21	1/2	1,570.66	1/2	1,204.77	1/2	840.66	1/2	474.30	1/2	135.24	1/2	1/2	1/2		1/2	1/2
3/4	2,296.11	3/4	1,929.58	3/4	1,563.02	3/4	1,197.14	3/4	833.04	3/4	466.75	3/4	128.72	3/4	3/4	3/4		3/4	3/4
3	2,288.48	3	1,921.94	3	1,555.38	3	1,189.52	3	825.42	3	459.19	3	122.19	3	3	3		3	3
1/4	2,280.84	1/4	1,914.30	1/4	1,547.75	1/4	1,181.90	1/4	817.79	1/4	451.64	1/4	115.67	1/4	1/4	1/4		1/4	1/4
1/2	2,273.20	1/2	1,906.67	1/2	1,540.11	1/2	1,174.30	1/2	810.16	1/2	444.17	1/2	109.24	1/2	1/2	1/2		1/2	1/2
3/4	2,265.57	3/4	1,899.03	3/4	1,532.47	3/4	1,166.71	3/4	802.52	3/4	436.71	3/4	102.82	3/4	3/4	3/4		3/4	3/4
4	2,257.93	4	1,891.40	4	1,524.84	4	1,159.11	4	794.88	4	429.24	4	96.39	4	4	4		4	4
1/4	2,250.30	1/4	1,883.76	1/4	1,517.20	1/4	1,151.52	1/4	787.25	1/4	421.77	1/4	89.96	1/4	1/4	1/4		1/4	1/4
1/2	2,242.66	1/2	1,876.12	1/2	1,509.57	1/2	1,143.94	1/2	779.61	1/2	414.39	1/2	83.64	1/2	1/2	1/2		1/2	1/2
3/4	2,235.02	3/4	1,868.49	3/4	1,501.93	3/4	1,136.36	3/4	771.97	3/4	407.01	3/4	77.32	3/4	3/4	3/4		3/4	3/4
5	2,227.39	5	1,860.85	5	1,494.29	5	1,128.78	5	764.34	5	399.62	5	71.00	5	5	5		5	5
1/4	2,219.75	1/4	1,853.21	1/4	1,486.66	1/4	1,121.19	1/4	756.70	1/4	392.24	1/4	64.67	1/4	1/4	1/4		1/4	1/4
1/2	2,212.11	1/2	1,845.58	1/2	1,479.03	1/2	1,113.62	1/2	749.06	1/2	384.94	1/2	58.47	1/2	1/2	1/2		1/2	1/2
3/4	2,204.48	3/4	1,837.94	3/4	1,471.41	3/4	1,106.04	3/4	741.43	3/4	377.65	3/4	52.27	3/4	3/4	3/4		3/4	3/4
6	2,196.84	6	1,830.30	6	1,463.79	6	1,098.46	6	733.79	6	370.35	6	46.06	6	6	6		6	6
1/4	2,189.21	1/4	1,822.67	1/4	1,456.16	1/4	1,090.88	1/4	726.15	1/4	363.05	1/4	39.86	1/4	1/4	1/4		1/4	1/4
1/2	2,181.57	1/2	1,815.03	1/2	1,448.56	1/2	1,083.30	1/2	718.52	1/2	355.84	1/2	34.35	1/2	1/2	1/2		1/2	1/2
3/4	2,173.93	3/4	1,807.39	3/4	1,440.95	3/4	1,075.72	3/4	710.88	3/4	348.63	3/4	28.85	3/4	3/4	3/4		3/4	3/4
7	2,166.30	7	1,799.76	7	1,433.34	7	1,068.14	7	703.24	7	341.41	7	23.34	7	7	7		7	7
1/4	2,158.66	1/4	1,792.12	1/4	1,425.73	1/4	1,060.56	1/4	695.61	1/4	334.20	1/4	17.83	1/4	1/4	1/4		1/4	1/4
1/2	2,151.03	1/2	1,784.48	1/2	1,418.12	1/2	1,052.99	1/2	687.97	1/2	327.07	1/2	14.27	1/2	1/2	1/2		1/2	1/2
3/4	2,143.39	3/4	1,776.85	3/4	1,410.51	3/4	1,045.41	3/4	680.33	3/4	319.94	3/4	10.71	3/4	3/4	3/4		3/4	3/4
8	2,135.75	8	1,769.21	8	1,402.90	8	1,037.83	8	672.70	8	312.82	8	7.15	8	8	8		8	8
1/4	2,128.12	1/4	1,761.57	1/4	1,395.29	1/4	1,030.25	1/4	665.06	1/4	305.69	1/4	3.59	1/4	1/4	1/4		1/4	1/4
1/2	2,120.48	1/2	1,753.94	1/2	1,387.68	1/2	1,022.67	1/2	657.42	1/2	298.65	1/2		1/2	1/2	1/2		1/2	1/2
3/4	2,112.84	3/4	1,746.30	3/4	1,380.07	3/4	1,015.09	3/4	649.79	3/4	291.60	3/4		3/4	3/4	3/4		3/4	3/4
9	2,105.21	9	1,738.66	9	1,372.47	9	1,007.51	9	642.15	9	284.56	9		9	9	9		9	9
1/4	2,097.57	1/4	1,731.03	1/4	1,364.86	1/4	999.93	1/4	634.51	1/4	277.52	1/4		1/4	1/4	1/4		1/4	1/4
1/2	2,089.94	1/2	1,723.39	1/2	1,357.25	1/2	992.36	1/2	626.87	1/2	270.56	1/2		1/2	1/2	1/2		1/2	1/2
3/4	2,082.30	3/4	1,715.75	3/4	1,349.64	3/4	984.78	3/4	619.24	3/4	263.60	3/4		3/4	3/4	3/4		3/4	3/4
10	2,074.66	10	1,708.12	10	1,342.03	10	977.20	10	611.60	10	256.64	10		10	10	10		10	10
1/4	2,067.03	1/4	1,700.48	1/4	1,334.42	1/4	969.62	1/4	603.96	1/4	249.69	1/4		1/4	1/4	1/4		1/4	1/4
1/2	2,059.39	1/2	1,692.84	1/2	1,326.81	1/2	962.04	1/2	596.33	1/2	242.81	1/2		1/2	1/2	1/2		1/2	1/2
3/4	2,051.75	3/4	1,685.21	3/4	1,319.20	3/4	954.46	3/4	588.69	3/4	235.94	3/4		3/4	3/4	3/4		3/4	3/4
11	2,044.12	11	1,677.57	11	1,311.59	11	946.88	11	581.05	11	229.07	11		11	11	11		11	11
1/4	2,036.48	1/4	1,669.93	1/4	1,303.98	1/4	939.30	1/4	573.41	1/4	222.19	1/4		1/4	1/4	1/4		1/4	1/4
1/2	2,028.85	1/2	1,662.30	1/2	1,296.36	1/2	931.72	1/2	565.78	1/2	215.40	1/2		1/2	1/2	1/2		1/2	1/2
3/4	2,021.21	3/4	1,654.66	3/4	1,288.73	3/4	924.15	3/4	558.14	3/4	208.62	3/4		3/4	3/4	3/4		3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 04/11/2011 CL - SW  
CALCULATED: 04/11/2011 CL  
PRINTED: 04/11/2011 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 04/2011

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



# BARGE "KIRBY 28167"

## 1 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-07"

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
							4,829.28		4,501.55		4,167.25		3,809.47		3,442.93		3,076.39		2,709.86		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,822.44	1/4	4,494.83	1/4	4,159.99	1/4	3,801.83	1/4	3,435.29	1/4	3,068.76	1/4	2,702.22		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,815.61	1/2	4,488.10	1/2	4,152.73	1/2	3,794.20	1/2	3,427.66	1/2	3,061.12	1/2	2,694.58		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,808.77	3/4	4,481.38	3/4	4,145.47	3/4	3,786.56	3/4	3,420.02	3/4	3,053.48	3/4	2,686.95		
<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>4,801.94</b>	<b>1</b>	<b>4,474.65</b>	<b>1</b>	<b>4,138.22</b>	<b>1</b>	<b>3,778.92</b>	<b>1</b>	<b>3,412.39</b>	<b>1</b>	<b>3,045.85</b>	<b>1</b>	<b>2,679.31</b>		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,794.46	1/4	4,467.89	1/4	4,130.92	1/4	3,771.29	1/4	3,404.75	1/4	3,038.21	1/4	2,671.67		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,786.99	1/2	4,461.13	1/2	4,123.63	1/2	3,763.65	1/2	3,397.11	1/2	3,030.58	1/2	2,664.04		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,779.52	3/4	4,454.37	3/4	4,116.33	3/4	3,756.01	3/4	3,389.48	3/4	3,022.94	3/4	2,656.40		
<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>4,772.05</b>	<b>2</b>	<b>4,447.61</b>	<b>2</b>	<b>4,109.04</b>	<b>2</b>	<b>3,748.38</b>	<b>2</b>	<b>3,381.84</b>	<b>2</b>	<b>3,015.30</b>	<b>2</b>	<b>2,648.77</b>		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,764.50	1/4	4,440.81	1/4	4,101.71	1/4	3,740.74	1/4	3,374.20	1/4	3,007.67	1/4	2,641.13		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,756.95	1/2	4,434.01	1/2	4,094.38	1/2	3,733.11	1/2	3,366.57	1/2	3,000.03	1/2	2,633.49		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,749.40	3/4	4,427.21	3/4	4,087.05	3/4	3,725.47	3/4	3,358.93	3/4	2,992.39	3/4	2,625.86		
<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>4,741.84</b>	<b>3</b>	<b>4,420.41</b>	<b>3</b>	<b>4,079.72</b>	<b>3</b>	<b>3,717.83</b>	<b>3</b>	<b>3,351.30</b>	<b>3</b>	<b>2,984.76</b>	<b>3</b>	<b>2,618.22</b>		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,734.57	1/4	4,413.58	1/4	4,072.36	1/4	3,710.20	1/4	3,343.66	1/4	2,977.12	1/4	2,610.58		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,727.30	1/2	4,406.74	1/2	4,065.00	1/2	3,702.56	1/2	3,336.02	1/2	2,969.49	1/2	2,602.95		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,720.03	3/4	4,399.91	3/4	4,057.63	3/4	3,694.93	3/4	3,328.39	3/4	2,961.85	3/4	2,595.31		
<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4,712.76</b>	<b>4</b>	<b>4,393.07</b>	<b>4</b>	<b>4,050.27</b>	<b>4</b>	<b>3,687.29</b>	<b>4</b>	<b>3,320.75</b>	<b>4</b>	<b>2,954.21</b>	<b>4</b>	<b>2,587.68</b>		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,706.03	1/4	4,386.20	1/4	4,042.87	1/4	3,679.65	1/4	3,313.12	1/4	2,946.58	1/4	2,580.04		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,699.31	1/2	4,379.32	1/2	4,035.48	1/2	3,672.02	1/2	3,305.48	1/2	2,938.94	1/2	2,572.40		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,692.59	3/4	4,372.45	3/4	4,028.08	3/4	3,664.38	3/4	3,297.84	3/4	2,931.31	3/4	2,564.77		
<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>4,685.87</b>	<b>5</b>	<b>4,365.58</b>	<b>5</b>	<b>4,020.68</b>	<b>5</b>	<b>3,656.74</b>	<b>5</b>	<b>3,290.21</b>	<b>5</b>	<b>2,923.67</b>	<b>5</b>	<b>2,557.13</b>		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,679.40	1/4	4,358.67	1/4	4,013.24	1/4	3,649.11	1/4	3,282.57	1/4	2,916.03	1/4	2,549.50		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,672.93	1/2	4,351.76	1/2	4,005.81	1/2	3,641.47	1/2	3,274.93	1/2	2,908.40	1/2	2,541.86		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,666.46	3/4	4,344.85	3/4	3,998.37	3/4	3,633.84	3/4	3,267.30	3/4	2,900.76	3/4	2,534.22		
<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>4,659.98</b>	<b>6</b>	<b>4,337.94</b>	<b>6</b>	<b>3,990.94</b>	<b>6</b>	<b>3,626.20</b>	<b>6</b>	<b>3,259.66</b>	<b>6</b>	<b>2,893.12</b>	<b>6</b>	<b>2,526.59</b>		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,653.48	1/4	4,330.97	1/4	3,983.47	1/4	3,618.56	1/4	3,252.03	1/4	2,885.49	1/4	2,518.95		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,646.97	1/2	4,324.00	1/2	3,975.99	1/2	3,610.93	1/2	3,244.39	1/2	2,877.85	1/2	2,511.31		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,640.46	3/4	4,317.03	3/4	3,968.52	3/4	3,603.29	3/4	3,236.75	3/4	2,870.22	3/4	2,503.68		
<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>4,633.95</b>	<b>7</b>	<b>4,310.06</b>	<b>7</b>	<b>3,961.05</b>	<b>7</b>	<b>3,595.65</b>	<b>7</b>	<b>3,229.12</b>	<b>7</b>	<b>2,862.58</b>	<b>7</b>	<b>2,496.04</b>		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,627.41	1/4	4,303.01	1/4	3,953.54	1/4	3,588.02	1/4	3,221.48	1/4	2,854.94	1/4	2,488.41		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,620.86	1/2	4,295.96	1/2	3,946.03	1/2	3,580.38	1/2	3,213.84	1/2	2,847.31	1/2	2,480.77		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,614.32	3/4	4,288.91	3/4	3,938.52	3/4	3,572.75	3/4	3,206.21	3/4	2,839.67	3/4	2,473.13		
<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>4,607.77</b>	<b>8</b>	<b>4,281.86</b>	<b>8</b>	<b>3,931.01</b>	<b>8</b>	<b>3,565.11</b>	<b>8</b>	<b>3,198.57</b>	<b>8</b>	<b>2,832.03</b>	<b>8</b>	<b>2,465.50</b>		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,601.19	1/4	4,274.76	1/4	3,923.46	1/4	3,557.47	1/4	3,190.94	1/4	2,824.40	1/4	2,457.86		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,594.60	1/2	4,267.65	1/2	3,915.92	1/2	3,549.84	1/2	3,183.30	1/2	2,816.76	1/2	2,450.22		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,588.02	3/4	4,260.54	3/4	3,908.37	3/4	3,542.20	3/4	3,175.66	3/4	2,809.13	3/4	2,442.59		
<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>4,581.44</b>	<b>9</b>	<b>4,253.43</b>	<b>9</b>	<b>3,900.82</b>	<b>9</b>	<b>3,534.57</b>	<b>9</b>	<b>3,168.03</b>	<b>9</b>	<b>2,801.49</b>	<b>9</b>	<b>2,434.95</b>		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,574.82	1/4	4,246.29	1/4	3,893.24	1/4	3,526.93	1/4	3,160.39	1/4	2,793.85	1/4	2,427.32		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,568.20	1/2	4,239.14	1/2	3,885.65	1/2	3,519.29	1/2	3,152.76	1/2	2,786.22	1/2	2,419.68		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,561.58	3/4	4,232.00	3/4	3,878.07	3/4	3,511.66	3/4	3,145.12	3/4	2,778.58	3/4	2,412.04		
<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>4,554.96</b>	<b>10</b>	<b>4,224.85</b>	<b>10</b>	<b>3,870.48</b>	<b>10</b>	<b>3,504.02</b>	<b>10</b>	<b>3,137.48</b>	<b>10</b>	<b>2,770.95</b>	<b>10</b>	<b>2,404.41</b>		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,548.30	1/4	4,217.67	1/4	3,862.87	1/4	3,496.38	1/4	3,129.85	1/4	2,763.31	1/4	2,396.77		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,541.64	1/2	4,210.49	1/2	3,855.25	1/2	3,488.75	1/2	3,122.21	1/2	2,755.67	1/2	2,389.14		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,534.98	3/4	4,203.31	3/4	3,847.63	3/4	3,481.11	3/4	3,114.57	3/4	2,748.04	3/4	2,381.50		
<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>4,528.33</b>	<b>11</b>	<b>4,196.13</b>	<b>11</b>	<b>3,840.02</b>	<b>11</b>	<b>3,473.48</b>	<b>11</b>	<b>3,106.94</b>	<b>11</b>	<b>2,740.40</b>	<b>11</b>	<b>2,373.86</b>		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,521.63	1/4	4,188.91	1/4	3,832.38	1/4	3,465.84	1/4	3,099.30	1/4	2,732.76	1/4	2,366.23		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,514.94	1/2	4,181.69	1/2	3,824.74	1/2	3,458.20	1/2	3,091.67	1/2	2,725.13	1/2	2,358.59		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,508.25	3/4	4,174.47	3/4	3,817.11	3/4	3,450.57	3/4	3,084.03	3/4	2,717.49	3/4	2,350.95		

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 52'-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 28167"

1 STBD  
ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-07"

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	2,343.32	0	1,976.79	0	1,610.23	0	1,244.33	0	878.83	0	512.31	0	168.22	0		0		0	
1/4	2,335.68	1/4	1,969.15	1/4	1,602.59	1/4	1,236.69	1/4	871.21	1/4	504.69	1/4	161.61	1/4		1/4		1/4	
1/2	2,328.05	1/2	1,961.51	1/2	1,594.96	1/2	1,229.05	1/2	863.58	1/2	497.08	1/2	154.99	1/2		1/2		1/2	
3/4	2,320.41	3/4	1,953.88	3/4	1,587.32	3/4	1,221.41	3/4	855.96	3/4	489.46	3/4	148.38	3/4		3/4		3/4	
1	2,312.77	1	1,946.24	1	1,579.68	1	1,213.78	1	848.33	1	481.84	1	141.76	1		1		1	
1/4	2,305.14	1/4	1,938.60	1/4	1,572.05	1/4	1,206.14	1/4	840.70	1/4	474.29	1/4	135.24	1/4		1/4		1/4	
1/2	2,297.50	1/2	1,930.97	1/2	1,564.41	1/2	1,198.50	1/2	833.06	1/2	466.74	1/2	128.71	1/2		1/2		1/2	
3/4	2,289.86	3/4	1,923.33	3/4	1,556.77	3/4	1,190.87	3/4	825.42	3/4	459.19	3/4	122.19	3/4		3/4		3/4	
2	2,282.23	2	1,915.69	2	1,549.14	2	1,183.23	2	817.79	2	451.63	2	115.66	2		2		2	
1/4	2,274.59	1/4	1,908.06	1/4	1,541.50	1/4	1,175.60	1/4	810.15	1/4	444.17	1/4	109.24	1/4		1/4		1/4	
1/2	2,266.96	1/2	1,900.42	1/2	1,533.86	1/2	1,167.98	1/2	802.51	1/2	436.70	1/2	102.81	1/2		1/2		1/2	
3/4	2,259.32	3/4	1,892.78	3/4	1,526.23	3/4	1,160.36	3/4	794.88	3/4	429.23	3/4	96.39	3/4		3/4		3/4	
3	2,251.68	3	1,885.15	3	1,518.59	3	1,152.73	3	787.24	3	421.76	3	89.96	3		3		3	
1/4	2,244.05	1/4	1,877.51	1/4	1,510.95	1/4	1,145.12	1/4	779.60	1/4	414.38	1/4	83.64	1/4		1/4		1/4	
1/2	2,236.41	1/2	1,869.87	1/2	1,503.32	1/2	1,137.51	1/2	771.97	1/2	407.00	1/2	77.32	1/2		1/2		1/2	
3/4	2,228.77	3/4	1,862.24	3/4	1,495.68	3/4	1,129.90	3/4	764.33	3/4	399.62	3/4	70.99	3/4		3/4		3/4	
4	2,221.14	4	1,854.60	4	1,488.04	4	1,122.29	4	756.69	4	392.23	4	64.67	4		4		4	
1/4	2,213.50	1/4	1,846.96	1/4	1,480.42	1/4	1,114.68	1/4	749.06	1/4	384.94	1/4	58.47	1/4		1/4		1/4	
1/2	2,205.87	1/2	1,839.33	1/2	1,472.80	1/2	1,107.08	1/2	741.42	1/2	377.64	1/2	52.27	1/2		1/2		1/2	
3/4	2,198.23	3/4	1,831.69	3/4	1,465.18	3/4	1,099.47	3/4	733.78	3/4	370.34	3/4	46.06	3/4		3/4		3/4	
5	2,190.59	5	1,824.05	5	1,457.55	5	1,091.86	5	726.15	5	363.04	5	39.86	5		5		5	
1/4	2,182.96	1/4	1,816.42	1/4	1,449.94	1/4	1,084.25	1/4	718.51	1/4	355.83	1/4	34.35	1/4		1/4		1/4	
1/2	2,175.32	1/2	1,808.78	1/2	1,442.33	1/2	1,076.65	1/2	710.87	1/2	348.62	1/2	28.85	1/2		1/2		1/2	
3/4	2,167.69	3/4	1,801.14	3/4	1,434.73	3/4	1,069.04	3/4	703.23	3/4	341.41	3/4	23.34	3/4		3/4		3/4	
6	2,160.05	6	1,793.51	6	1,427.12	6	1,061.43	6	695.60	6	334.19	6	17.83	6		6		6	
1/4	2,152.41	1/4	1,785.87	1/4	1,419.51	1/4	1,053.82	1/4	687.96	1/4	327.07	1/4	14.27	1/4		1/4		1/4	
1/2	2,144.78	1/2	1,778.23	1/2	1,411.90	1/2	1,046.21	1/2	680.32	1/2	319.94	1/2	10.71	1/2		1/2		1/2	
3/4	2,137.14	3/4	1,770.60	3/4	1,404.29	3/4	1,038.61	3/4	672.69	3/4	312.81	3/4	7.15	3/4		3/4		3/4	
7	2,129.50	7	1,762.96	7	1,396.68	7	1,031.00	7	665.05	7	305.68	7	3.59	7		7		7	
1/4	2,121.87	1/4	1,755.32	1/4	1,389.07	1/4	1,023.39	1/4	657.41	1/4	298.64	1/4		1/4		1/4		1/4	
1/2	2,114.23	1/2	1,747.69	1/2	1,381.46	1/2	1,015.78	1/2	649.78	1/2	291.60	1/2		1/2		1/2		1/2	
3/4	2,106.60	3/4	1,740.05	3/4	1,373.85	3/4	1,008.17	3/4	642.14	3/4	284.55	3/4		3/4		3/4		3/4	
8	2,098.96	8	1,732.41	8	1,366.24	8	1,000.57	8	634.50	8	277.51	8		8		8		8	
1/4	2,091.32	1/4	1,724.78	1/4	1,358.63	1/4	992.96	1/4	626.87	1/4	270.55	1/4		1/4		1/4		1/4	
1/2	2,083.69	1/2	1,717.14	1/2	1,351.03	1/2	985.35	1/2	619.23	1/2	263.59	1/2		1/2		1/2		1/2	
3/4	2,076.05	3/4	1,709.50	3/4	1,343.42	3/4	977.74	3/4	611.59	3/4	256.64	3/4		3/4		3/4		3/4	
9	2,068.41	9	1,701.87	9	1,335.81	9	970.13	9	603.95	9	249.68	9		9		9		9	
1/4	2,060.78	1/4	1,694.23	1/4	1,328.20	1/4	962.53	1/4	596.32	1/4	242.81	1/4		1/4		1/4		1/4	
1/2	2,053.14	1/2	1,686.59	1/2	1,320.59	1/2	954.92	1/2	588.68	1/2	235.93	1/2		1/2		1/2		1/2	
3/4	2,045.51	3/4	1,678.96	3/4	1,312.98	3/4	947.31	3/4	581.04	3/4	229.06	3/4		3/4		3/4		3/4	
10	2,037.87	10	1,671.32	10	1,305.37	10	939.70	10	573.41	10	222.19	10		10		10		10	
1/4	2,030.23	1/4	1,663.68	1/4	1,297.74	1/4	932.10	1/4	565.77	1/4	215.40	1/4		1/4		1/4		1/4	
1/2	2,022.60	1/2	1,656.05	1/2	1,290.12	1/2	924.49	1/2	558.13	1/2	208.61	1/2		1/2		1/2		1/2	
3/4	2,014.96	3/4	1,648.41	3/4	1,282.50	3/4	916.88	3/4	550.49	3/4	201.82	3/4		3/4		3/4		3/4	
11	2,007.33	11	1,640.78	11	1,274.87	11	909.27	11	542.86	11	195.03	11		11		11		11	
1/4	1,999.69	1/4	1,633.14	1/4	1,267.24	1/4	901.66	1/4	535.22	1/4	188.33	1/4		1/4		1/4		1/4	
1/2	1,992.06	1/2	1,625.50	1/2	1,259.60	1/2	894.05	1/2	527.58	1/2	181.63	1/2		1/2		1/2		1/2	
3/4	1,984.42	3/4	1,617.87	3/4	1,251.96	3/4	886.44	3/4	519.95	3/4	174.92	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 04/11/2011 CL - SW  
CALCULATED: 04/11/2011 CL  
PRINTED: 04/11/2011 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 04/2011

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



# BARGE "KIRBY 28167"

## 2 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	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT
0		0		0		0		0	4,529.72	0	4,198.96	0	3,844.68	0	3,480.89	0	3,117.08	0	2,753.28
1/4		1/4		1/4		1/4	4,847.30	1/4	4,523.08	1/4	4,191.79	1/4	3,837.11	1/4	3,473.31	1/4	3,109.50	1/4	2,745.70
1/2		1/2		1/2		1/2	4,841.70	1/2	4,516.43	1/2	4,184.63	1/2	3,829.53	1/2	3,465.73	1/2	3,101.93	1/2	2,738.12
3/4		3/4		3/4		3/4	4,834.92	3/4	4,509.76	3/4	4,177.42	3/4	3,821.95	3/4	3,458.15	3/4	3,094.35	3/4	2,730.54
1		1		1		1	4,828.14	1	4,503.08	1	4,170.22	1	3,814.37	1	3,450.57	1	3,086.77	1	2,722.97
1/4		1/4		1/4		1/4	4,821.35	1/4	4,496.41	1/4	4,163.02	1/4	3,806.79	1/4	3,442.99	1/4	3,079.19	1/4	2,715.39
1/2		1/2		1/2		1/2	4,814.57	1/2	4,489.73	1/2	4,155.81	1/2	3,799.21	1/2	3,435.41	1/2	3,071.61	1/2	2,707.81
3/4		3/4		3/4		3/4	4,807.15	3/4	4,483.02	3/4	4,148.57	3/4	3,791.63	3/4	3,427.83	3/4	3,064.03	3/4	2,700.23
2		2		2		2	4,799.74	2	4,476.31	2	4,141.33	2	3,784.05	2	3,420.25	2	3,056.45	2	2,692.65
1/4		1/4		1/4		1/4	4,792.32	1/4	4,469.60	1/4	4,134.09	1/4	3,776.47	1/4	3,412.67	1/4	3,048.87	1/4	2,685.07
1/2		1/2		1/2		1/2	4,784.90	1/2	4,462.89	1/2	4,126.85	1/2	3,768.90	1/2	3,405.09	1/2	3,041.29	1/2	2,677.49
3/4		3/4		3/4		3/4	4,777.41	3/4	4,456.15	3/4	4,119.58	3/4	3,761.32	3/4	3,397.51	3/4	3,033.71	3/4	2,669.91
3		3		3		3	4,769.92	3	4,449.40	3	4,112.30	3	3,753.74	3	3,389.94	3	3,026.13	3	2,662.33
1/4		1/4		1/4		1/4	4,762.42	1/4	4,442.65	1/4	4,105.03	1/4	3,746.16	1/4	3,382.36	1/4	3,018.55	1/4	2,654.75
1/2		1/2		1/2		1/2	4,754.93	1/2	4,435.90	1/2	4,097.75	1/2	3,738.58	1/2	3,374.78	1/2	3,010.98	1/2	2,647.17
3/4		3/4		3/4		3/4	4,747.71	3/4	4,429.12	3/4	4,090.45	3/4	3,731.00	3/4	3,367.20	3/4	3,003.40	3/4	2,639.59
4		4		4		4	4,740.49	4	4,422.33	4	4,083.14	4	3,723.42	4	3,359.62	4	2,995.82	4	2,632.02
1/4		1/4		1/4		1/4	4,733.27	1/4	4,415.55	1/4	4,075.83	1/4	3,715.84	1/4	3,352.04	1/4	2,988.24	1/4	2,624.44
1/2		1/2		1/2		1/2	4,726.06	1/2	4,408.77	1/2	4,068.52	1/2	3,708.26	1/2	3,344.46	1/2	2,980.66	1/2	2,616.86
3/4		3/4		3/4		3/4	4,719.38	3/4	4,401.94	3/4	4,061.18	3/4	3,700.68	3/4	3,336.88	3/4	2,973.08	3/4	2,609.28
5		5		5		5	4,712.71	5	4,395.12	5	4,053.84	5	3,693.10	5	3,329.30	5	2,965.50	5	2,601.70
1/4		1/4		1/4		1/4	4,706.04	1/4	4,388.30	1/4	4,046.49	1/4	3,685.52	1/4	3,321.72	1/4	2,957.92	1/4	2,594.12
1/2		1/2		1/2		1/2	4,699.37	1/2	4,381.48	1/2	4,039.15	1/2	3,677.94	1/2	3,314.14	1/2	2,950.34	1/2	2,586.54
3/4		3/4		3/4		3/4	4,692.95	3/4	4,374.62	3/4	4,031.77	3/4	3,670.37	3/4	3,306.56	3/4	2,942.76	3/4	2,578.96
6		6		6		6	4,686.52	6	4,367.76	6	4,024.39	6	3,662.79	6	3,298.98	6	2,935.18	6	2,571.38
1/4		1/4		1/4		1/4	4,680.10	1/4	4,360.90	1/4	4,017.01	1/4	3,655.21	1/4	3,291.41	1/4	2,927.60	1/4	2,563.80
1/2		1/2		1/2		1/2	4,673.68	1/2	4,354.04	1/2	4,009.63	1/2	3,647.63	1/2	3,283.83	1/2	2,920.02	1/2	2,556.22
3/4		3/4		3/4		3/4	4,667.22	3/4	4,347.13	3/4	4,002.22	3/4	3,640.05	3/4	3,276.25	3/4	2,912.45	3/4	2,548.64
7		7		7		7	4,660.76	7	4,340.21	7	3,994.80	7	3,632.47	7	3,268.67	7	2,904.87	7	2,541.06
1/4		1/4		1/4		1/4	4,654.30	1/4	4,333.29	1/4	3,987.38	1/4	3,624.89	1/4	3,261.09	1/4	2,897.29	1/4	2,533.49
1/2		1/2		1/2		1/2	4,647.84	1/2	4,326.38	1/2	3,979.97	1/2	3,617.31	1/2	3,253.51	1/2	2,889.71	1/2	2,525.91
3/4		3/4		3/4		3/4	4,641.35	3/4	4,319.38	3/4	3,972.51	3/4	3,609.73	3/4	3,245.93	3/4	2,882.13	3/4	2,518.33
8		8		8		8	4,634.85	8	4,312.38	8	3,965.06	8	3,602.15	8	3,238.35	8	2,874.55	8	2,510.75
1/4		1/4		1/4		1/4	4,628.35	1/4	4,305.39	1/4	3,957.61	1/4	3,594.57	1/4	3,230.77	1/4	2,866.97	1/4	2,503.17
1/2		1/2		1/2		1/2	4,621.86	1/2	4,298.39	1/2	3,950.15	1/2	3,586.99	1/2	3,223.19	1/2	2,859.39	1/2	2,495.59
3/4		3/4		3/4		3/4	4,615.32	3/4	4,291.34	3/4	3,942.66	3/4	3,579.42	3/4	3,215.61	3/4	2,851.81	3/4	2,488.01
9		9		9		9	4,608.79	9	4,284.28	9	3,935.17	9	3,571.84	9	3,208.03	9	2,844.23	9	2,480.43
1/4		1/4		1/4		1/4	4,602.26	1/4	4,277.23	1/4	3,927.68	1/4	3,564.26	1/4	3,200.46	1/4	2,836.65	1/4	2,472.85
1/2		1/2		1/2		1/2	4,595.72	1/2	4,270.17	1/2	3,920.19	1/2	3,556.68	1/2	3,192.88	1/2	2,829.07	1/2	2,465.27
3/4		3/4		3/4		3/4	4,589.15	3/4	4,263.08	3/4	3,912.66	3/4	3,549.10	3/4	3,185.30	3/4	2,821.50	3/4	2,457.69
10		10		10		10	4,582.58	10	4,255.99	10	3,905.13	10	3,541.52	10	3,177.72	10	2,813.92	10	2,450.11
1/4		1/4		1/4		1/4	4,576.01	1/4	4,248.90	1/4	3,897.60	1/4	3,533.94	1/4	3,170.14	1/4	2,806.34	1/4	2,442.54
1/2		1/2		1/2		1/2	4,569.44	1/2	4,241.81	1/2	3,890.07	1/2	3,526.36	1/2	3,162.56	1/2	2,798.76	1/2	2,434.96
3/4		3/4		3/4		3/4	4,562.83	3/4	4,234.68	3/4	3,882.52	3/4	3,518.78	3/4	3,154.98	3/4	2,791.18	3/4	2,427.38
11		11		11		11	4,556.22	11	4,227.55	11	3,874.96	11	3,511.20	11	3,147.40	11	2,783.60	11	2,419.80
1/4		1/4		1/4		1/4	4,549.61	1/4	4,220.42	1/4	3,867.40	1/4	3,503.62	1/4	3,139.82	1/4	2,776.02	1/4	2,412.22
1/2		1/2		1/2		1/2	4,543.01	1/2	4,213.29	1/2	3,859.84	1/2	3,496.04	1/2	3,132.24	1/2	2,768.44	1/2	2,404.64
3/4		3/4		3/4		3/4	4,536.36	3/4	4,206.12	3/4	3,852.26	3/4	3,488.46	3/4	3,124.66	3/4	2,760.86	3/4	2,397.06

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.

CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN WITH "HERMETIC" CLOSED GAUGING DEVICE.

GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 52'-06" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT  
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmacorp.net>



# BARGE "KIRBY 28167"

## 2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-07 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	2,389.48	0	2,025.68	0	1,661.86	0	1,301.93	0	951.18	0	591.07	0	227.22	0		0		0	
1/4	2,381.90	1/4	2,018.10	1/4	1,654.29	1/4	1,294.35	1/4	943.93	1/4	583.49	1/4	219.64	1/4	1/4	1/4		1/4	
1/2	2,374.32	1/2	2,010.52	1/2	1,646.71	1/2	1,286.77	1/2	936.68	1/2	575.91	1/2	212.06	1/2	1/2	1/2		1/2	
3/4	2,366.74	3/4	2,002.94	3/4	1,639.13	3/4	1,279.19	3/4	929.41	3/4	568.33	3/4	204.48	3/4	3/4	3/4		3/4	
1	2,359.16	1	1,995.36	1	1,631.55	1	1,271.61	1	922.15	1	560.75	1	196.90	1	1	1		1	
1/4	2,351.58	1/4	1,987.78	1/4	1,623.97	1/4	1,264.03	1/4	914.88	1/4	553.17	1/4	189.33	1/4	1/4	1/4		1/4	
1/2	2,344.01	1/2	1,980.20	1/2	1,616.39	1/2	1,256.45	1/2	907.62	1/2	545.59	1/2	181.75	1/2	1/2	1/2		1/2	
3/4	2,336.43	3/4	1,972.62	3/4	1,608.81	3/4	1,249.02	3/4	900.34	3/4	538.01	3/4	174.18	3/4	3/4	3/4		3/4	
2	2,328.85	2	1,965.04	2	1,601.23	2	1,241.59	2	893.06	2	530.43	2	166.61	2	2	2		2	
1/4	2,321.27	1/4	1,957.46	1/4	1,593.65	1/4	1,234.17	1/4	885.78	1/4	522.85	1/4	159.04	1/4	1/4	1/4		1/4	
1/2	2,313.69	1/2	1,949.88	1/2	1,586.07	1/2	1,226.74	1/2	878.50	1/2	515.27	1/2	151.47	1/2	1/2	1/2		1/2	
3/4	2,306.11	3/4	1,942.30	3/4	1,578.49	3/4	1,219.47	3/4	871.07	3/4	507.69	3/4	143.91	3/4	3/4	3/4		3/4	
3	2,298.53	3	1,934.72	3	1,570.91	3	1,212.20	3	863.64	3	500.11	3	136.35	3	3	3		3	
1/4	2,290.95	1/4	1,927.14	1/4	1,563.33	1/4	1,204.94	1/4	856.22	1/4	492.53	1/4	128.79	1/4	1/4	1/4		1/4	
1/2	2,283.37	1/2	1,919.56	1/2	1,555.75	1/2	1,197.67	1/2	848.79	1/2	484.94	1/2	121.23	1/2	1/2	1/2		1/2	
3/4	2,275.79	3/4	1,911.99	3/4	1,548.25	3/4	1,190.42	3/4	841.21	3/4	477.36	3/4	113.69	3/4	3/4	3/4		3/4	
4	2,268.21	4	1,904.41	4	1,540.76	4	1,183.17	4	833.63	4	469.78	4	106.15	4	4	4		4	
1/4	2,260.63	1/4	1,896.83	1/4	1,533.26	1/4	1,175.92	1/4	826.05	1/4	462.20	1/4	98.62	1/4	1/4	1/4		1/4	
1/2	2,253.06	1/2	1,889.25	1/2	1,525.76	1/2	1,168.66	1/2	818.47	1/2	454.62	1/2	91.08	1/2	1/2	1/2		1/2	
3/4	2,245.48	3/4	1,881.67	3/4	1,518.34	3/4	1,161.42	3/4	810.89	3/4	447.04	3/4	83.57	3/4	3/4	3/4		3/4	
5	2,237.90	5	1,874.09	5	1,510.92	5	1,154.17	5	803.31	5	439.46	5	76.07	5	5	5		5	
1/4	2,230.32	1/4	1,866.51	1/4	1,503.51	1/4	1,146.92	1/4	795.73	1/4	431.88	1/4	68.56	1/4	1/4	1/4		1/4	
1/2	2,222.74	1/2	1,858.93	1/2	1,496.09	1/2	1,139.67	1/2	788.15	1/2	424.30	1/2	61.06	1/2	1/2	1/2		1/2	
3/4	2,215.16	3/4	1,851.35	3/4	1,488.67	3/4	1,132.42	3/4	780.57	3/4	416.72	3/4	54.16	3/4	3/4	3/4		3/4	
6	2,207.58	6	1,843.77	6	1,481.26	6	1,125.17	6	772.99	6	409.14	6	47.26	6	6	6		6	
1/4	2,200.00	1/4	1,836.19	1/4	1,473.84	1/4	1,117.92	1/4	765.41	1/4	401.56	1/4	40.36	1/4	1/4	1/4		1/4	
1/2	2,192.42	1/2	1,828.61	1/2	1,466.42	1/2	1,110.67	1/2	757.83	1/2	393.98	1/2	33.46	1/2	1/2	1/2		1/2	
3/4	2,184.84	3/4	1,821.03	3/4	1,459.00	3/4	1,103.42	3/4	750.25	3/4	386.40	3/4	28.41	3/4	3/4	3/4		3/4	
7	2,177.26	7	1,813.45	7	1,451.59	7	1,096.17	7	742.67	7	378.82	7	23.36	7	7	7		7	
1/4	2,169.68	1/4	1,805.87	1/4	1,444.17	1/4	1,088.92	1/4	735.09	1/4	371.24	1/4	18.31	1/4	1/4	1/4		1/4	
1/2	2,162.10	1/2	1,798.29	1/2	1,436.75	1/2	1,081.67	1/2	727.51	1/2	363.66	1/2	13.26	1/2	1/2	1/2		1/2	
3/4	2,154.53	3/4	1,790.71	3/4	1,429.33	3/4	1,074.42	3/4	719.93	3/4	356.08	3/4		3/4	3/4	3/4		3/4	
8	2,146.95	8	1,783.14	8	1,421.92	8	1,067.17	8	712.35	8	348.50	8		8	8	8		8	
1/4	2,139.37	1/4	1,775.56	1/4	1,414.50	1/4	1,059.93	1/4	704.77	1/4	340.92	1/4		1/4	1/4	1/4		1/4	
1/2	2,131.79	1/2	1,767.98	1/2	1,407.08	1/2	1,052.68	1/2	697.19	1/2	333.34	1/2		1/2	1/2	1/2		1/2	
3/4	2,124.21	3/4	1,760.40	3/4	1,399.66	3/4	1,045.43	3/4	689.61	3/4	325.76	3/4		3/4	3/4	3/4		3/4	
9	2,116.63	9	1,752.82	9	1,392.25	9	1,038.18	9	682.03	9	318.18	9		9	9	9		9	
1/4	2,109.05	1/4	1,745.24	1/4	1,384.83	1/4	1,030.93	1/4	674.45	1/4	310.60	1/4		1/4	1/4	1/4		1/4	
1/2	2,101.47	1/2	1,737.66	1/2	1,377.41	1/2	1,023.68	1/2	666.87	1/2	303.02	1/2		1/2	1/2	1/2		1/2	
3/4	2,093.89	3/4	1,730.08	3/4	1,369.91	3/4	1,016.43	3/4	659.29	3/4	295.44	3/4		3/4	3/4	3/4		3/4	
10	2,086.31	10	1,722.50	10	1,362.41	10	1,009.18	10	651.71	10	287.86	10		10	10	10		10	
1/4	2,078.73	1/4	1,714.92	1/4	1,354.91	1/4	1,001.93	1/4	644.13	1/4	280.28	1/4		1/4	1/4	1/4		1/4	
1/2	2,071.15	1/2	1,707.34	1/2	1,347.41	1/2	994.68	1/2	636.55	1/2	272.70	1/2		1/2	1/2	1/2		1/2	
3/4	2,063.58	3/4	1,699.76	3/4	1,339.83	3/4	987.43	3/4	628.97	3/4	265.12	3/4		3/4	3/4	3/4		3/4	
11	2,056.00	11	1,692.18	11	1,332.25	11	980.18	11	621.39	11	257.54	11		11	11	11		11	
1/4	2,048.42	1/4	1,684.60	1/4	1,324.67	1/4	972.93	1/4	613.81	1/4	249.96	1/4		1/4	1/4	1/4		1/4	
1/2	2,040.84	1/2	1,677.02	1/2	1,317.09	1/2	965.68	1/2	606.23	1/2	242.38	1/2		1/2	1/2	1/2		1/2	
3/4	2,033.26	3/4	1,669.44	3/4	1,309.51	3/4	958.43	3/4	598.65	3/4	234.80	3/4		3/4	3/4	3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 04/11/2011 CL - SW  
CALCULATED: 04/11/2011 CL  
PRINTED: 04/11/2011 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 04/2011

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



# BARGE "KIRBY 28167"

## 2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-07 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	4,857.40	1/4	4,532.12	1/4	4,200.31	1/4	3,845.21	1/4	3,481.41	1/4	3,117.60	1/4	2,753.80		
1/2		1/2		1/2		1/2	4,850.61	1/2	4,525.44	1/2	4,193.10	1/2	3,837.63	1/2	3,473.83	1/2	3,110.02	1/2	2,746.22		
3/4		3/4		3/4		3/4	4,843.83	3/4	4,518.77	3/4	4,185.90	3/4	3,830.05	3/4	3,466.25	3/4	3,102.45	3/4	2,738.64		
<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>4,837.04</b>	<b>1</b>	<b>4,512.09</b>	<b>1</b>	<b>4,178.70</b>	<b>1</b>	<b>3,822.47</b>	<b>1</b>	<b>3,458.67</b>	<b>1</b>	<b>3,094.87</b>	<b>1</b>	<b>2,731.06</b>		
1/4		1/4		1/4		1/4	4,830.26	1/4	4,505.42	1/4	4,171.49	1/4	3,814.89	1/4	3,451.09	1/4	3,087.29	1/4	2,723.49		
1/2		1/2		1/2		1/2	4,822.84	1/2	4,498.71	1/2	4,164.25	1/2	3,807.31	1/2	3,443.51	1/2	3,079.71	1/2	2,715.91		
3/4		3/4		3/4		3/4	4,815.42	3/4	4,492.00	3/4	4,157.01	3/4	3,799.73	3/4	3,435.93	3/4	3,072.13	3/4	2,708.33		
<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>4,808.01</b>	<b>2</b>	<b>4,485.29</b>	<b>2</b>	<b>4,149.77</b>	<b>2</b>	<b>3,792.15</b>	<b>2</b>	<b>3,428.35</b>	<b>2</b>	<b>3,064.55</b>	<b>2</b>	<b>2,700.75</b>		
1/4		1/4		1/4		1/4	4,800.59	1/4	4,478.57	1/4	4,142.53	1/4	3,784.57	1/4	3,420.77	1/4	3,056.97	1/4	2,693.17		
1/2		1/2		1/2		1/2	4,793.10	1/2	4,471.83	1/2	4,135.26	1/2	3,776.99	1/2	3,413.19	1/2	3,049.39	1/2	2,685.59		
3/4		3/4		3/4		3/4	4,785.60	3/4	4,465.08	3/4	4,127.98	3/4	3,769.42	3/4	3,405.61	3/4	3,041.81	3/4	2,678.01		
<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>4,778.11</b>	<b>3</b>	<b>4,458.33</b>	<b>3</b>	<b>4,120.71</b>	<b>3</b>	<b>3,761.84</b>	<b>3</b>	<b>3,398.03</b>	<b>3</b>	<b>3,034.23</b>	<b>3</b>	<b>2,670.43</b>		
1/4		1/4		1/4		1/4	4,770.61	1/4	4,451.58	1/4	4,113.43	1/4	3,754.26	1/4	3,390.46	1/4	3,026.65	1/4	2,662.85		
1/2		1/2		1/2		1/2	4,763.40	1/2	4,444.80	1/2	4,106.12	1/2	3,746.68	1/2	3,382.88	1/2	3,019.07	1/2	2,655.27		
3/4		3/4		3/4		3/4	4,756.18	3/4	4,438.02	3/4	4,098.82	3/4	3,739.10	3/4	3,375.30	3/4	3,011.50	3/4	2,647.69		
<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4,748.96</b>	<b>4</b>	<b>4,431.23</b>	<b>4</b>	<b>4,091.51</b>	<b>4</b>	<b>3,731.52</b>	<b>4</b>	<b>3,367.72</b>	<b>4</b>	<b>3,003.92</b>	<b>4</b>	<b>2,640.11</b>		
1/4		1/4		1/4		1/4	4,741.74	1/4	4,424.45	1/4	4,084.20	1/4	3,723.94	1/4	3,360.14	1/4	2,996.34	1/4	2,632.54		
1/2		1/2		1/2		1/2	4,735.07	1/2	4,417.63	1/2	4,076.86	1/2	3,716.36	1/2	3,352.56	1/2	2,988.76	1/2	2,624.96		
3/4		3/4		3/4		3/4	4,728.40	3/4	4,410.80	3/4	4,069.52	3/4	3,708.78	3/4	3,344.98	3/4	2,981.18	3/4	2,617.38		
<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>4,721.73</b>	<b>5</b>	<b>4,403.98</b>	<b>5</b>	<b>4,062.17</b>	<b>5</b>	<b>3,701.20</b>	<b>5</b>	<b>3,337.40</b>	<b>5</b>	<b>2,973.60</b>	<b>5</b>	<b>2,609.80</b>		
1/4		1/4		1/4		1/4	4,715.06	1/4	4,397.16	1/4	4,054.83	1/4	3,693.62	1/4	3,329.82	1/4	2,966.02	1/4	2,602.22		
1/2		1/2		1/2		1/2	4,708.63	1/2	4,390.30	1/2	4,047.45	1/2	3,686.04	1/2	3,322.24	1/2	2,958.44	1/2	2,594.64		
3/4		3/4		3/4		3/4	4,702.21	3/4	4,383.44	3/4	4,040.07	3/4	3,678.46	3/4	3,314.66	3/4	2,950.86	3/4	2,587.06		
<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>4,695.79</b>	<b>6</b>	<b>4,376.58</b>	<b>6</b>	<b>4,032.69</b>	<b>6</b>	<b>3,670.89</b>	<b>6</b>	<b>3,307.08</b>	<b>6</b>	<b>2,943.28</b>	<b>6</b>	<b>2,579.48</b>		
1/4		1/4		1/4		1/4	4,689.37	1/4	4,369.73	1/4	4,025.31	1/4	3,663.31	1/4	3,299.50	1/4	2,935.70	1/4	2,571.90		
1/2		1/2		1/2		1/2	4,682.91	1/2	4,362.81	1/2	4,017.90	1/2	3,655.73	1/2	3,291.93	1/2	2,928.12	1/2	2,564.32		
3/4		3/4		3/4		3/4	4,676.45	3/4	4,355.89	3/4	4,010.48	3/4	3,648.15	3/4	3,284.35	3/4	2,920.54	3/4	2,556.74		
<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>4,669.99</b>	<b>7</b>	<b>4,348.97</b>	<b>7</b>	<b>4,003.06</b>	<b>7</b>	<b>3,640.57</b>	<b>7</b>	<b>3,276.77</b>	<b>7</b>	<b>2,912.97</b>	<b>7</b>	<b>2,549.16</b>		
1/4		1/4		1/4		1/4	4,663.53	1/4	4,342.06	1/4	3,995.65	1/4	3,632.99	1/4	3,269.19	1/4	2,905.39	1/4	2,541.58		
1/2		1/2		1/2		1/2	4,657.03	1/2	4,335.06	1/2	3,988.19	1/2	3,625.41	1/2	3,261.61	1/2	2,897.81	1/2	2,534.01		
3/4		3/4		3/4		3/4	4,650.53	3/4	4,328.06	3/4	3,980.74	3/4	3,617.83	3/4	3,254.03	3/4	2,890.23	3/4	2,526.43		
<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>4,644.04</b>	<b>8</b>	<b>4,321.07</b>	<b>8</b>	<b>3,973.28</b>	<b>8</b>	<b>3,610.25</b>	<b>8</b>	<b>3,246.45</b>	<b>8</b>	<b>2,882.65</b>	<b>8</b>	<b>2,518.85</b>		
1/4		1/4		1/4		1/4	4,637.54	1/4	4,314.07	1/4	3,965.83	1/4	3,602.67	1/4	3,238.87	1/4	2,875.07	1/4	2,511.27		
1/2		1/2		1/2		1/2	4,631.01	1/2	4,307.02	1/2	3,958.34	1/2	3,595.09	1/2	3,231.29	1/2	2,867.49	1/2	2,503.69		
3/4		3/4		3/4		3/4	4,624.47	3/4	4,299.96	3/4	3,950.85	3/4	3,587.51	3/4	3,223.71	3/4	2,859.91	3/4	2,496.11		
<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>4,617.94</b>	<b>9</b>	<b>4,292.91</b>	<b>9</b>	<b>3,943.36</b>	<b>9</b>	<b>3,579.94</b>	<b>9</b>	<b>3,216.13</b>	<b>9</b>	<b>2,852.33</b>	<b>9</b>	<b>2,488.53</b>		
1/4		1/4		1/4		1/4	4,611.41	1/4	4,285.85	1/4	3,935.87	1/4	3,572.36	1/4	3,208.55	1/4	2,844.75	1/4	2,480.95		
1/2		1/2		1/2		1/2	4,604.84	1/2	4,278.76	1/2	3,928.34	1/2	3,564.78	1/2	3,200.98	1/2	2,837.17	1/2	2,473.37		
3/4		3/4		3/4		3/4	4,598.26	3/4	4,271.67	3/4	3,920.81	3/4	3,557.20	3/4	3,193.40	3/4	2,829.59	3/4	2,465.79		
<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>4,591.69</b>	<b>10</b>	<b>4,264.58</b>	<b>10</b>	<b>3,913.28</b>	<b>10</b>	<b>3,549.62</b>	<b>10</b>	<b>3,185.82</b>	<b>10</b>	<b>2,822.02</b>	<b>10</b>	<b>2,458.21</b>		
1/4		1/4		1/4		1/4	4,585.12	1/4	4,257.49	1/4	3,905.75	1/4	3,542.04	1/4	3,178.24	1/4	2,814.44	1/4	2,450.63		
1/2		1/2		1/2		1/2	4,578.51	1/2	4,250.36	1/2	3,898.19	1/2	3,534.46	1/2	3,170.66	1/2	2,806.86	1/2	2,443.06		
3/4		3/4		3/4		3/4	4,571.91	3/4	4,243.23	3/4	3,890.63	3/4	3,526.88	3/4	3,163.08	3/4	2,799.28	3/4	2,435.48		
<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>4,565.30</b>	<b>11</b>	<b>4,236.10</b>	<b>11</b>	<b>3,883.08</b>	<b>11</b>	<b>3,519.30</b>	<b>11</b>	<b>3,155.50</b>	<b>11</b>	<b>2,791.70</b>	<b>11</b>	<b>2,427.90</b>		
1/4		1/4		1/4		1/4	4,558.69	1/4	4,228.97	1/4	3,875.52	1/4	3,511.72	1/4	3,147.92	1/4	2,784.12	1/4	2,420.32		
1/2		1/2		1/2		1/2	4,552.05	1/2	4,221.80	1/2	3,867.94	1/2	3,504.14	1/2	3,140.34	1/2	2,776.54	1/2	2,412.74		
3/4		3/4		3/4		3/4	4,545.40	3/4	4,214.64	3/4	3,860.36	3/4	3,496.56	3/4	3,132.76	3/4	2,768.96	3/4	2,405.16		

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 52'-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 28167"

## 2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-07 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	2,397.58	0	2,033.78	0	1,669.96	0	1,310.03	0	947.25	0	583.49	0	219.64	0		0		0	
1/4	2,390.00	1/4	2,026.20	1/4	1,662.38	1/4	1,302.45	1/4	939.69	1/4	575.91	1/4	212.06	1/4	1/4	1/4		1/4	
1/2	2,382.42	1/2	2,018.62	1/2	1,654.81	1/2	1,294.87	1/2	932.13	1/2	568.33	1/2	204.48	1/2	1/2	1/2		1/2	
3/4	2,374.84	3/4	2,011.04	3/4	1,647.23	3/4	1,287.29	3/4	924.56	3/4	560.75	3/4	196.90	3/4	3/4	3/4		3/4	
1	2,367.26	1	2,003.46	1	1,639.65	1	1,279.71	1	916.99	1	553.17	1	189.33	1	1	1		1	
1/4	2,359.68	1/4	1,995.88	1/4	1,632.07	1/4	1,272.13	1/4	909.42	1/4	545.59	1/4	181.75	1/4	1/4	1/4		1/4	
1/2	2,352.10	1/2	1,988.30	1/2	1,624.49	1/2	1,264.55	1/2	901.84	1/2	538.01	1/2	174.18	1/2	1/2	1/2		1/2	
3/4	2,344.53	3/4	1,980.72	3/4	1,616.91	3/4	1,256.97	3/4	894.26	3/4	530.43	3/4	166.61	3/4	3/4	3/4		3/4	
2	2,336.95	2	1,973.14	2	1,609.33	2	1,249.39	2	886.68	2	522.85	2	159.04	2	2	2		2	
1/4	2,329.37	1/4	1,965.56	1/4	1,601.75	1/4	1,241.81	1/4	879.10	1/4	515.27	1/4	151.47	1/4	1/4	1/4		1/4	
1/2	2,321.79	1/2	1,957.98	1/2	1,594.17	1/2	1,234.24	1/2	871.52	1/2	507.69	1/2	143.91	1/2	1/2	1/2		1/2	
3/4	2,314.21	3/4	1,950.40	3/4	1,586.59	3/4	1,226.68	3/4	863.94	3/4	500.11	3/4	136.35	3/4	3/4	3/4		3/4	
3	2,306.63	3	1,942.82	3	1,579.01	3	1,219.11	3	856.36	3	492.53	3	128.79	3	3	3		3	
1/4	2,299.05	1/4	1,935.24	1/4	1,571.43	1/4	1,211.54	1/4	848.78	1/4	484.94	1/4	121.23	1/4	1/4	1/4		1/4	
1/2	2,291.47	1/2	1,927.66	1/2	1,563.85	1/2	1,203.99	1/2	841.21	1/2	477.36	1/2	113.69	1/2	1/2	1/2		1/2	
3/4	2,283.89	3/4	1,920.08	3/4	1,556.27	3/4	1,196.44	3/4	833.63	3/4	469.78	3/4	106.15	3/4	3/4	3/4		3/4	
4	2,276.31	4	1,912.51	4	1,548.69	4	1,188.88	4	826.05	4	462.20	4	98.62	4	4	4		4	
1/4	2,268.73	1/4	1,904.93	1/4	1,541.11	1/4	1,181.33	1/4	818.47	1/4	454.62	1/4	91.08	1/4	1/4	1/4		1/4	
1/2	2,261.15	1/2	1,897.35	1/2	1,533.53	1/2	1,173.78	1/2	810.89	1/2	447.04	1/2	83.57	1/2	1/2	1/2		1/2	
3/4	2,253.58	3/4	1,889.77	3/4	1,525.95	3/4	1,166.23	3/4	803.31	3/4	439.46	3/4	76.07	3/4	3/4	3/4		3/4	
5	2,246.00	5	1,882.19	5	1,518.37	5	1,158.68	5	795.73	5	431.88	5	68.56	5	5	5		5	
1/4	2,238.42	1/4	1,874.61	1/4	1,510.79	1/4	1,151.13	1/4	788.15	1/4	424.30	1/4	61.06	1/4	1/4	1/4		1/4	
1/2	2,230.84	1/2	1,867.03	1/2	1,503.21	1/2	1,143.58	1/2	780.57	1/2	416.72	1/2	53.56	1/2	1/2	1/2		1/2	
3/4	2,223.26	3/4	1,859.45	3/4	1,495.63	3/4	1,136.03	3/4	772.99	3/4	409.14	3/4	47.26	3/4	3/4	3/4		3/4	
6	2,215.68	6	1,851.87	6	1,488.05	6	1,128.47	6	765.41	6	401.56	6	40.36	6	6	6		6	
1/4	2,208.10	1/4	1,844.29	1/4	1,480.47	1/4	1,120.92	1/4	757.83	1/4	393.98	1/4	33.46	1/4	1/4	1/4		1/4	
1/2	2,200.52	1/2	1,836.71	1/2	1,472.89	1/2	1,113.37	1/2	750.25	1/2	386.40	1/2	28.41	1/2	1/2	1/2		1/2	
3/4	2,192.94	3/4	1,829.13	3/4	1,465.31	3/4	1,105.82	3/4	742.67	3/4	378.82	3/4	23.36	3/4	3/4	3/4		3/4	
7	2,185.36	7	1,821.55	7	1,457.73	7	1,098.27	7	735.09	7	371.24	7	18.31	7	7	7		7	
1/4	2,177.78	1/4	1,813.97	1/4	1,450.15	1/4	1,090.72	1/4	727.51	1/4	363.66	1/4	13.26	1/4	1/4	1/4		1/4	
1/2	2,170.20	1/2	1,806.39	1/2	1,442.57	1/2	1,083.17	1/2	719.93	1/2	356.08	1/2		1/2	1/2	1/2		1/2	
3/4	2,162.62	3/4	1,798.81	3/4	1,435.00	3/4	1,075.62	3/4	712.35	3/4	348.50	3/4		3/4	3/4	3/4		3/4	
8	2,155.05	8	1,791.23	8	1,427.42	8	1,068.07	8	704.77	8	340.92	8		8	8	8		8	
1/4	2,147.47	1/4	1,783.66	1/4	1,419.84	1/4	1,060.52	1/4	697.19	1/4	333.34	1/4		1/4	1/4	1/4		1/4	
1/2	2,139.89	1/2	1,776.08	1/2	1,412.26	1/2	1,052.97	1/2	689.61	1/2	325.76	1/2		1/2	1/2	1/2		1/2	
3/4	2,132.31	3/4	1,768.50	3/4	1,404.68	3/4	1,045.41	3/4	682.03	3/4	318.18	3/4		3/4	3/4	3/4		3/4	
9	2,124.73	9	1,760.92	9	1,400.51	9	1,037.86	9	674.45	9	310.60	9		9	9	9		9	
1/4	2,117.15	1/4	1,753.34	1/4	1,392.93	1/4	1,030.31	1/4	666.87	1/4	303.02	1/4		1/4	1/4	1/4		1/4	
1/2	2,109.57	1/2	1,745.76	1/2	1,385.35	1/2	1,022.76	1/2	659.29	1/2	295.44	1/2		1/2	1/2	1/2		1/2	
3/4	2,101.99	3/4	1,738.18	3/4	1,377.77	3/4	1,015.21	3/4	651.71	3/4	287.86	3/4		3/4	3/4	3/4		3/4	
10	2,094.41	10	1,730.60	10	1,370.59	10	1,007.66	10	644.13	10	280.28	10		10	10	10		10	
1/4	2,086.83	1/4	1,723.02	1/4	1,363.01	1/4	1,000.11	1/4	636.55	1/4	272.70	1/4		1/4	1/4	1/4		1/4	
1/2	2,079.25	1/2	1,715.44	1/2	1,355.43	1/2	992.56	1/2	628.97	1/2	265.12	1/2		1/2	1/2	1/2		1/2	
3/4	2,071.67	3/4	1,707.86	3/4	1,347.85	3/4	985.01	3/4	621.39	3/4	257.54	3/4		3/4	3/4	3/4		3/4	
11	2,064.10	11	1,700.28	11	1,340.35	11	977.46	11	613.81	11	249.96	11		11	11	11		11	
1/4	2,056.52	1/4	1,692.70	1/4	1,332.77	1/4	969.91	1/4	606.23	1/4	242.38	1/4		1/4	1/4	1/4		1/4	
1/2	2,048.94	1/2	1,685.12	1/2	1,325.19	1/2	962.35	1/2	598.65	1/2	234.80	1/2		1/2	1/2	1/2		1/2	
3/4	2,041.36	3/4	1,677.54	3/4	1,317.61	3/4	954.80	3/4	591.07	3/4	227.22	3/4		3/4	3/4	3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 04/11/2011 CL - SW  
CALCULATED: 04/11/2011 CL  
PRINTED: 04/11/2011 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 04/2011

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



# BARGE "KIRBY 28167"

## 3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-06"

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
									4,215.91		3,955.46		3,681.02		3,401.02		3,040.48		2,676.94		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,210.62	1/4	3,949.85	1/4	3,675.18	1/4	3,394.30	1/4	3,032.91	1/4	2,669.37		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,460.18	1/2	4,205.33	1/2	3,944.24	1/2	3,669.35	1/2	3,387.59	1/2	3,025.33	1/2	2,661.80
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,455.45	3/4	4,200.04	3/4	3,938.63	3/4	3,663.52	3/4	3,380.88	3/4	3,017.76	3/4	2,654.22
<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>	4,450.72	<b>1</b>	4,194.75	<b>1</b>	3,933.02	<b>1</b>	3,657.69	<b>1</b>	3,374.16	<b>1</b>	3,010.19	<b>1</b>	2,646.65
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,445.68	1/4	4,189.44	1/4	3,927.39	1/4	3,651.86	1/4	3,366.57	1/4	3,002.61	1/4	2,639.08
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,440.65	1/2	4,184.13	1/2	3,921.76	1/2	3,646.02	1/2	3,358.98	1/2	2,995.04	1/2	2,631.50
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,435.61	3/4	4,178.82	3/4	3,916.12	3/4	3,640.19	3/4	3,351.38	3/4	2,987.47	3/4	2,623.93
<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>	4,430.57	<b>2</b>	4,173.51	<b>2</b>	3,910.49	<b>2</b>	3,634.36	<b>2</b>	3,343.79	<b>2</b>	2,979.89	<b>2</b>	2,616.36
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,424.90	1/4	4,168.18	1/4	3,904.84	1/4	3,628.52	1/4	3,336.19	1/4	2,972.32	1/4	2,608.78
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,419.23	1/2	4,162.86	1/2	3,899.19	1/2	3,622.69	1/2	3,328.60	1/2	2,964.75	1/2	2,601.21
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,413.56	3/4	4,157.53	3/4	3,893.54	3/4	3,616.86	3/4	3,321.01	3/4	2,957.17	3/4	2,593.63
<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>	4,407.89	<b>3</b>	4,152.20	<b>3</b>	3,887.89	<b>3</b>	3,611.02	<b>3</b>	3,313.41	<b>3</b>	2,949.60	<b>3</b>	2,586.06
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,402.14	1/4	4,146.85	1/4	3,882.22	1/4	3,605.19	1/4	3,305.82	1/4	2,942.02	1/4	2,578.49
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,396.39	1/2	4,141.51	1/2	3,876.55	1/2	3,599.36	1/2	3,298.23	1/2	2,934.45	1/2	2,570.91
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,390.64	3/4	4,136.16	3/4	3,870.88	3/4	3,593.52	3/4	3,290.63	3/4	2,926.88	3/4	2,563.34
<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>	4,384.89	<b>4</b>	4,130.81	<b>4</b>	3,865.21	<b>4</b>	3,587.69	<b>4</b>	3,283.04	<b>4</b>	2,919.30	<b>4</b>	2,555.77
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,379.29	1/4	4,125.44	1/4	3,859.52	1/4	3,581.86	1/4	3,275.44	1/4	2,911.73	1/4	2,548.19
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,373.69	1/2	4,120.08	1/2	3,853.83	1/2	3,576.02	1/2	3,267.85	1/2	2,904.16	1/2	2,540.62
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,368.09	3/4	4,114.71	3/4	3,848.14	3/4	3,570.19	3/4	3,260.26	3/4	2,896.58	3/4	2,533.04
<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>	4,362.49	<b>5</b>	4,109.34	<b>5</b>	3,842.46	<b>5</b>	3,564.35	<b>5</b>	3,252.66	<b>5</b>	2,889.01	<b>5</b>	2,525.47
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,357.19	1/4	4,103.95	1/4	3,836.75	1/4	3,558.52	1/4	3,245.07	1/4	2,881.43	1/4	2,517.90
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,351.88	1/2	4,098.57	1/2	3,831.04	1/2	3,552.69	1/2	3,237.48	1/2	2,873.86	1/2	2,510.32
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,346.57	3/4	4,093.18	3/4	3,825.34	3/4	3,546.85	3/4	3,229.88	3/4	2,866.29	3/4	2,502.75
<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>	4,341.27	<b>6</b>	4,087.79	<b>6</b>	3,819.63	<b>6</b>	3,541.02	<b>6</b>	3,222.29	<b>6</b>	2,858.71	<b>6</b>	2,495.18
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,336.09	1/4	4,082.38	1/4	3,813.90	1/4	3,535.19	1/4	3,214.71	1/4	2,851.14	1/4	2,487.60
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,330.92	1/2	4,076.98	1/2	3,808.18	1/2	3,529.35	1/2	3,207.12	1/2	2,843.57	1/2	2,480.03
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,325.75	3/4	4,071.57	3/4	3,802.45	3/4	3,523.52	3/4	3,199.54	3/4	2,835.99	3/4	2,472.45
<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>	4,320.57	<b>7</b>	4,066.16	<b>7</b>	3,796.73	<b>7</b>	3,517.69	<b>7</b>	3,191.96	<b>7</b>	2,828.42	<b>7</b>	2,464.88
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,315.38	1/4	4,060.71	1/4	3,790.98	1/4	3,511.85	1/4	3,184.38	1/4	2,820.84	1/4	2,457.31
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,310.19	1/2	4,055.26	1/2	3,785.23	1/2	3,506.02	1/2	3,176.81	1/2	2,813.27	1/2	2,449.73
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,304.99	3/4	4,049.82	3/4	3,779.49	3/4	3,500.19	3/4	3,169.24	3/4	2,805.70	3/4	2,442.16
<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>	4,299.80	<b>8</b>	4,044.37	<b>8</b>	3,773.74	<b>8</b>	3,494.35	<b>8</b>	3,161.66	<b>8</b>	2,798.12	<b>8</b>	2,434.59
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,294.59	1/4	4,038.86	1/4	3,767.97	1/4	3,488.52	1/4	3,154.09	1/4	2,790.55	1/4	2,427.01
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,289.37	1/2	4,033.35	1/2	3,762.21	1/2	3,482.69	1/2	3,146.51	1/2	2,782.98	1/2	2,419.44
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,284.16	3/4	4,027.84	3/4	3,756.44	3/4	3,476.85	3/4	3,138.94	3/4	2,775.40	3/4	2,411.87
<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>	4,278.95	<b>9</b>	4,022.32	<b>9</b>	3,750.68	<b>9</b>	3,471.02	<b>9</b>	3,131.37	<b>9</b>	2,767.83	<b>9</b>	2,404.29
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,273.72	1/4	4,016.77	1/4	3,744.89	1/4	3,465.19	1/4	3,123.79	1/4	2,760.26	1/4	2,396.72
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,268.48	1/2	4,011.22	1/2	3,739.10	1/2	3,459.35	1/2	3,116.22	1/2	2,752.68	1/2	2,389.14
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,263.25	3/4	4,005.67	3/4	3,733.32	3/4	3,453.52	3/4	3,108.65	3/4	2,745.11	3/4	2,381.57
<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>	4,258.02	<b>10</b>	4,000.12	<b>10</b>	3,727.53	<b>10</b>	3,447.68	<b>10</b>	3,101.07	<b>10</b>	2,737.53	<b>10</b>	2,374.00
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,252.76	1/4	3,994.55	1/4	3,721.73	1/4	3,441.85	1/4	3,093.50	1/4	2,729.96	1/4	2,366.42
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,247.51	1/2	3,988.97	1/2	3,715.92	1/2	3,436.02	1/2	3,085.92	1/2	2,722.39	1/2	2,358.85
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,242.26	3/4	3,983.40	3/4	3,710.11	3/4	3,430.18	3/4	3,078.35	3/4	2,714.81	3/4	2,351.28
<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>	4,237.01	<b>11</b>	3,977.83	<b>11</b>	3,704.31	<b>11</b>	3,424.35	<b>11</b>	3,070.78	<b>11</b>	2,707.24	<b>11</b>	2,343.70
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,231.73	1/4	3,972.24	1/4	3,698.48	1/4	3,418.52	1/4	3,063.20	1/4	2,699.67	1/4	2,336.13
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,226.46	1/2	3,966.65	1/2	3,692.66	1/2	3,412.68	1/2	3,055.63	1/2	2,692.09	1/2	2,328.55
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,221.19	3/4	3,961.06	3/4	3,686.84	3/4	3,406.85	3/4	3,048.06	3/4	2,684.52	3/4	2,320.98

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 52'-03" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



# BARGE "KIRBY 28167"

## 3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-06"

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	2,313.41	0	1,949.87	0	1,586.37	0	1,227.36	0	872.73	0	516.35	0	151.81	0		0		0	
1/4	2,305.83	1/4	1,942.30	1/4	1,578.82	1/4	1,219.81	1/4	865.38	1/4	508.76	1/4	144.53	1/4	1/4		1/4		1/4
1/2	2,298.26	1/2	1,934.72	1/2	1,571.27	1/2	1,212.25	1/2	858.02	1/2	501.16	1/2	137.25	1/2	1/2		1/2		1/2
3/4	2,290.69	3/4	1,927.15	3/4	1,563.72	3/4	1,204.69	3/4	850.66	3/4	493.57	3/4	129.97	3/4	3/4		3/4		3/4
1	2,283.11	1	1,919.57	1	1,556.17	1	1,197.13	1	843.31	1	485.97	1	122.69	1	1		1		1
1/4	2,275.54	1/4	1,912.00	1/4	1,548.62	1/4	1,189.57	1/4	835.93	1/4	478.38	1/4	116.37	1/4	1/4		1/4		1/4
1/2	2,267.96	1/2	1,904.43	1/2	1,541.07	1/2	1,182.01	1/2	828.56	1/2	470.78	1/2	110.04	1/2	1/2		1/2		1/2
3/4	2,260.39	3/4	1,896.85	3/4	1,533.52	3/4	1,174.45	3/4	821.19	3/4	463.19	3/4	103.71	3/4	3/4		3/4		3/4
2	2,252.82	2	1,889.28	2	1,525.97	2	1,166.90	2	813.82	2	455.60	2	97.38	2	2		2		2
1/4	2,245.24	1/4	1,881.70	1/4	1,518.42	1/4	1,159.44	1/4	806.44	1/4	448.00	1/4	92.33	1/4	1/4		1/4		1/4
1/2	2,237.67	1/2	1,874.13	1/2	1,510.87	1/2	1,151.99	1/2	799.05	1/2	440.41	1/2	87.27	1/2	1/2		1/2		1/2
3/4	2,230.10	3/4	1,866.56	3/4	1,503.32	3/4	1,144.54	3/4	791.67	3/4	432.81	3/4	82.21	3/4	3/4		3/4		3/4
3	2,222.52	3	1,858.98	3	1,495.76	3	1,137.08	3	784.28	3	425.22	3	77.16	3	3		3		3
1/4	2,214.95	1/4	1,851.41	1/4	1,488.21	1/4	1,129.74	1/4	776.90	1/4	417.62	1/4	73.38	1/4	1/4		1/4		1/4
1/2	2,207.38	1/2	1,843.84	1/2	1,480.66	1/2	1,122.39	1/2	769.52	1/2	410.03	1/2	69.60	1/2	1/2		1/2		1/2
3/4	2,199.80	3/4	1,836.26	3/4	1,473.11	3/4	1,115.05	3/4	762.13	3/4	402.43	3/4	65.82	3/4	3/4		3/4		3/4
4	2,192.23	4	1,828.69	4	1,465.56	4	1,107.70	4	754.75	4	394.84	4	62.04	4	4		4		4
1/4	2,184.65	1/4	1,821.11	1/4	1,458.09	1/4	1,100.36	1/4	747.36	1/4	387.24	1/4	59.54	1/4	1/4		1/4		1/4
1/2	2,177.08	1/2	1,813.54	1/2	1,450.62	1/2	1,093.03	1/2	739.98	1/2	379.65	1/2	57.05	1/2	1/2		1/2		1/2
3/4	2,169.51	3/4	1,805.97	3/4	1,443.15	3/4	1,085.69	3/4	732.60	3/4	372.05	3/4	54.55	3/4	3/4		3/4		3/4
5	2,161.93	5	1,798.39	5	1,435.69	5	1,078.35	5	725.21	5	364.46	5	52.06	5	5		5		5
1/4	2,154.36	1/4	1,790.82	1/4	1,428.28	1/4	1,071.01	1/4	717.83	1/4	356.86	1/4	50.86	1/4	1/4		1/4		1/4
1/2	2,146.79	1/2	1,783.24	1/2	1,420.88	1/2	1,063.67	1/2	710.44	1/2	349.27	1/2	49.66	1/2	1/2		1/2		1/2
3/4	2,139.21	3/4	1,775.67	3/4	1,413.48	3/4	1,056.34	3/4	703.06	3/4	341.67	3/4	48.46	3/4	3/4		3/4		3/4
6	2,131.64	6	1,768.10	6	1,406.08	6	1,049.00	6	695.68	6	334.08	6	47.26	6	6		6		6
1/4	2,124.06	1/4	1,760.52	1/4	1,398.67	1/4	1,041.66	1/4	688.29	1/4	326.49	1/4		1/4	1/4		1/4		1/4
1/2	2,116.49	1/2	1,752.95	1/2	1,391.26	1/2	1,034.33	1/2	680.91	1/2	318.89	1/2		1/2	1/2		1/2		1/2
3/4	2,108.92	3/4	1,745.37	3/4	1,383.84	3/4	1,026.99	3/4	673.52	3/4	311.30	3/4		3/4	3/4		3/4		3/4
7	2,101.34	7	1,737.80	7	1,376.43	7	1,019.65	7	666.14	7	303.70	7		7	7		7		7
1/4	2,093.77	1/4	1,730.23	1/4	1,369.02	1/4	1,012.32	1/4	658.76	1/4	296.11	1/4		1/4	1/4		1/4		1/4
1/2	2,086.20	1/2	1,722.65	1/2	1,361.61	1/2	1,004.98	1/2	651.37	1/2	288.51	1/2		1/2	1/2		1/2		1/2
3/4	2,078.62	3/4	1,715.08	3/4	1,354.19	3/4	997.64	3/4	643.99	3/4	280.92	3/4		3/4	3/4		3/4		3/4
8	2,071.05	8	1,707.51	8	1,346.78	8	990.31	8	636.60	8	273.32	8		8	8		8		8
1/4	2,063.47	1/4	1,699.93	1/4	1,339.37	1/4	982.97	1/4	629.22	1/4	265.73	1/4		1/4	1/4		1/4		1/4
1/2	2,055.90	1/2	1,692.36	1/2	1,331.95	1/2	975.63	1/2	621.84	1/2	258.13	1/2		1/2	1/2		1/2		1/2
3/4	2,048.33	3/4	1,684.78	3/4	1,324.54	3/4	968.30	3/4	614.45	3/4	250.54	3/4		3/4	3/4		3/4		3/4
9	2,040.75	9	1,677.21	9	1,317.13	9	960.96	9	607.07	9	242.94	9		9	9		9		9
1/4	2,033.18	1/4	1,669.64	1/4	1,309.72	1/4	953.61	1/4	599.58	1/4	235.35	1/4		1/4	1/4		1/4		1/4
1/2	2,025.61	1/2	1,662.06	1/2	1,302.32	1/2	946.27	1/2	592.09	1/2	227.75	1/2		1/2	1/2		1/2		1/2
3/4	2,018.03	3/4	1,654.49	3/4	1,294.91	3/4	938.92	3/4	584.60	3/4	220.16	3/4		3/4	3/4		3/4		3/4
10	2,010.46	10	1,646.91	10	1,287.51	10	931.57	10	577.11	10	212.56	10		10	10		10		10
1/4	2,002.89	1/4	1,639.34	1/4	1,280.03	1/4	924.22	1/4	569.52	1/4	204.97	1/4		1/4	1/4		1/4		1/4
1/2	1,995.31	1/2	1,631.77	1/2	1,272.55	1/2	916.86	1/2	561.92	1/2	197.38	1/2		1/2	1/2		1/2		1/2
3/4	1,987.74	3/4	1,624.19	3/4	1,265.08	3/4	909.51	3/4	554.33	3/4	189.78	3/4		3/4	3/4		3/4		3/4
11	1,980.16	11	1,616.62	11	1,257.60	11	902.15	11	546.73	11	182.19	11		11	11		11		11
1/4	1,972.59	1/4	1,609.06	1/4	1,250.04	1/4	894.80	1/4	539.14	1/4	174.59	1/4		1/4	1/4		1/4		1/4
1/2	1,965.02	1/2	1,601.49	1/2	1,242.48	1/2	887.44	1/2	531.54	1/2	167.00	1/2		1/2	1/2		1/2		1/2
3/4	1,957.44	3/4	1,593.93	3/4	1,234.92	3/4	880.09	3/4	523.95	3/4	159.40	3/4		3/4	3/4		3/4		3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 04/11/2011 CL - SW  
CALCULATED: 04/11/2011 CL  
PRINTED: 04/11/2011 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 04/2011

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



# BARGE "KIRBY 28167"

## 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	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT		
0		0		0		0	4,483.06	0	4,228.21	0	3,967.12	0	3,692.23	0	3,410.47	0	3,047.73	0	2,683.23		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,478.33	1/4	4,222.92	1/4	3,961.50	1/4	3,686.40	1/4	3,403.75	1/4	3,040.13	1/4	2,675.64		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,473.60	1/2	4,217.62	1/2	3,955.89	1/2	3,680.57	1/2	3,397.04	1/2	3,032.54	1/2	2,668.04		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,468.56	3/4	4,212.31	3/4	3,950.26	3/4	3,674.73	3/4	3,389.44	3/4	3,024.95	3/4	2,660.45		
1		1		1		1	4,463.52	1	4,207.01	1	3,944.63	1	3,668.90	1	3,381.85	1	3,017.35	1	2,652.86		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,458.48	1/4	4,201.70	1/4	3,939.00	1/4	3,663.07	1/4	3,374.26	1/4	3,009.76	1/4	2,645.26		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,453.45	1/2	4,196.39	1/2	3,933.37	1/2	3,657.23	1/2	3,366.66	1/2	3,002.17	1/2	2,637.67		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,447.78	3/4	4,191.06	3/4	3,927.72	3/4	3,651.40	3/4	3,359.07	3/4	2,994.57	3/4	2,630.07		
2		2		2		2	4,442.11	2	4,185.73	2	3,922.06	2	3,645.57	2	3,351.48	2	2,986.98	2	2,622.48		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,436.44	1/4	4,180.41	1/4	3,916.41	1/4	3,639.73	1/4	3,343.88	1/4	2,979.38	1/4	2,614.89		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,430.77	1/2	4,175.08	1/2	3,910.76	1/2	3,633.90	1/2	3,336.29	1/2	2,971.79	1/2	2,607.29		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,425.02	3/4	4,169.73	3/4	3,905.09	3/4	3,628.06	3/4	3,328.69	3/4	2,964.20	3/4	2,599.70		
3		3		3		3	4,419.27	3	4,164.38	3	3,899.42	3	3,622.23	3	3,321.10	3	2,956.60	3	2,592.11		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,413.52	1/4	4,159.03	1/4	3,893.75	1/4	3,616.40	1/4	3,313.51	1/4	2,949.01	1/4	2,584.51		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,407.77	1/2	4,153.69	1/2	3,888.08	1/2	3,610.56	1/2	3,305.91	1/2	2,941.42	1/2	2,576.92		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,402.17	3/4	4,148.32	3/4	3,882.39	3/4	3,604.73	3/4	3,298.32	3/4	2,933.82	3/4	2,569.32		
4		4		4		4	4,396.57	4	4,142.95	4	3,876.71	4	3,598.90	4	3,290.73	4	2,926.23	4	2,561.73		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,390.97	1/4	4,137.58	1/4	3,871.02	1/4	3,593.06	1/4	3,283.13	1/4	2,918.64	1/4	2,554.14		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,385.37	1/2	4,132.22	1/2	3,865.33	1/2	3,587.23	1/2	3,275.54	1/2	2,911.04	1/2	2,546.54		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,380.06	3/4	4,126.83	3/4	3,859.62	3/4	3,581.40	3/4	3,267.95	3/4	2,903.45	3/4	2,538.95		
5		5		5		5	4,374.75	5	4,121.44	5	3,853.92	5	3,575.56	5	3,260.35	5	2,895.85	5	2,531.36		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,369.45	1/4	4,116.05	1/4	3,848.21	1/4	3,569.73	1/4	3,252.76	1/4	2,888.26	1/4	2,523.76		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,364.14	1/2	4,110.67	1/2	3,842.51	1/2	3,563.90	1/2	3,245.16	1/2	2,880.67	1/2	2,516.17		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,358.97	3/4	4,105.26	3/4	3,836.78	3/4	3,558.06	3/4	3,237.57	3/4	2,873.07	3/4	2,508.58		
6		6		6		6	4,353.79	6	4,099.85	6	3,831.05	6	3,552.23	6	3,229.98	6	2,865.48	6	2,500.98		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,348.62	1/4	4,094.44	1/4	3,825.33	1/4	3,546.40	1/4	3,222.38	1/4	2,857.89	1/4	2,493.39		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,343.45	1/2	4,089.04	1/2	3,819.60	1/2	3,540.56	1/2	3,214.79	1/2	2,850.29	1/2	2,485.79		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,338.26	3/4	4,083.59	3/4	3,813.85	3/4	3,534.73	3/4	3,207.20	3/4	2,842.70	3/4	2,478.20		
7		7		7		7	4,333.06	7	4,078.14	7	3,808.11	7	3,528.90	7	3,199.60	7	2,835.10	7	2,470.61		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,327.87	1/4	4,072.69	1/4	3,802.36	1/4	3,523.06	1/4	3,192.01	1/4	2,827.51	1/4	2,463.01		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,322.68	1/2	4,067.24	1/2	3,796.62	1/2	3,517.23	1/2	3,184.41	1/2	2,819.92	1/2	2,455.42		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,317.46	3/4	4,061.73	3/4	3,790.85	3/4	3,511.39	3/4	3,176.82	3/4	2,812.32	3/4	2,447.83		
8		8		8		8	4,312.25	8	4,056.22	8	3,785.08	8	3,505.56	8	3,169.23	8	2,804.73	8	2,440.23		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,307.04	1/4	4,050.71	1/4	3,779.32	1/4	3,499.73	1/4	3,161.63	1/4	2,797.14	1/4	2,432.64		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,301.82	1/2	4,045.20	1/2	3,773.55	1/2	3,493.89	1/2	3,154.04	1/2	2,789.54	1/2	2,425.04		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,296.59	3/4	4,039.65	3/4	3,767.77	3/4	3,488.06	3/4	3,146.45	3/4	2,781.95	3/4	2,417.45		
9		9		9		9	4,291.36	9	4,034.10	9	3,761.98	9	3,482.23	9	3,138.85	9	2,774.35	9	2,409.86		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,286.13	1/4	4,028.54	1/4	3,756.19	1/4	3,476.39	1/4	3,131.26	1/4	2,766.76	1/4	2,402.26		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,280.89	1/2	4,022.99	1/2	3,750.41	1/2	3,470.56	1/2	3,123.66	1/2	2,759.17	1/2	2,394.67		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,275.64	3/4	4,017.42	3/4	3,744.60	3/4	3,464.73	3/4	3,116.07	3/4	2,751.57	3/4	2,387.08		
10		10		10		10	4,270.39	10	4,011.85	10	3,738.79	10	3,458.89	10	3,108.48	10	2,743.98	10	2,379.48		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,265.13	1/4	4,006.28	1/4	3,732.99	1/4	3,453.06	1/4	3,100.88	1/4	2,736.39	1/4	2,371.89		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,259.88	1/2	4,000.71	1/2	3,727.18	1/2	3,447.23	1/2	3,093.29	1/2	2,728.79	1/2	2,364.30		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,254.61	3/4	3,995.11	3/4	3,721.36	3/4	3,441.39	3/4	3,085.70	3/4	2,721.20	3/4	2,356.70		
11		11		11		11	4,249.34	11	3,989.52	11	3,715.54	11	3,435.56	11	3,078.10	11	2,713.61	11	2,349.11		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,244.06	1/4	3,983.93	1/4	3,709.71	1/4	3,429.73	1/4	3,070.51	1/4	2,706.01	1/4	2,341.51		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,492.52	1/2	4,238.79	1/2	3,978.34	1/2	3,703.89	1/2	3,423.89	1/2	3,062.92	1/2	2,698.42	1/2	2,333.92
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,487.79	3/4	4,233.50	3/4	3,972.73	3/4	3,698.06	3/4	3,417.18	3/4	3,055.32	3/4	2,690.82	3/4	2,326.33

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.

CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN WITH "HERMETIC" CLOSED GAUGING DEVICE.

GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 52'-03" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT  
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmacorp.net>



# BARGE "KIRBY 28167"

## 3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-05 1/2"

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
	2,318.73		1,954.23		1,589.73		1,229.10		865.59		501.16		137.25								
1/4	2,311.14	1/4	1,946.64	1/4	1,582.13	1/4	1,221.50	1/4	858.02	1/4	493.57	1/4	129.97	1/4	1/4	1/4	1/4	1/4	1/4		
1/2	2,303.55	1/2	1,939.05	1/2	1,574.54	1/2	1,213.91	1/2	850.45	1/2	485.97	1/2	122.69	1/2	1/2	1/2	1/2	1/2	1/2		
3/4	2,295.95	3/4	1,931.45	3/4	1,566.94	3/4	1,206.31	3/4	842.87	3/4	478.38	3/4	116.37	3/4	3/4	3/4	3/4	3/4	3/4		
1	2,288.36	1	1,923.86	1	1,559.35	1	1,198.72	1	835.29	1	470.78	1	110.04	1	1	1	1	1	1		
1/4	2,280.76	1/4	1,916.26	1/4	1,551.76	1/4	1,191.12	1/4	827.71	1/4	463.19	1/4	103.71	1/4	1/4	1/4	1/4	1/4	1/4		
1/2	2,273.17	1/2	1,908.67	1/2	1,544.16	1/2	1,183.53	1/2	820.13	1/2	455.60	1/2	97.38	1/2	1/2	1/2	1/2	1/2	1/2		
3/4	2,265.58	3/4	1,901.08	3/4	1,536.57	3/4	1,175.94	3/4	812.53	3/4	448.00	3/4	92.33	3/4	3/4	3/4	3/4	3/4	3/4		
2	2,257.98	2	1,893.48	2	1,528.98	2	1,168.34	2	804.94	2	440.41	2	87.27	2	2	2	2	2	2		
1/4	2,250.39	1/4	1,885.89	1/4	1,521.38	1/4	1,160.75	1/4	797.35	1/4	432.81	1/4	82.21	1/4	1/4	1/4	1/4	1/4	1/4		
1/2	2,242.80	1/2	1,878.29	1/2	1,513.79	1/2	1,153.15	1/2	789.75	1/2	425.22	1/2	77.16	1/2	1/2	1/2	1/2	1/2	1/2		
3/4	2,235.20	3/4	1,870.70	3/4	1,506.19	3/4	1,145.57	3/4	782.16	3/4	417.62	3/4	73.38	3/4	3/4	3/4	3/4	3/4	3/4		
3	2,227.61	3	1,863.11	3	1,498.60	3	1,137.99	3	774.56	3	410.03	3	69.60	3	3	3	3	3	3		
1/4	2,220.01	1/4	1,855.51	1/4	1,491.01	1/4	1,130.41	1/4	766.97	1/4	402.43	1/4	65.82	1/4	1/4	1/4	1/4	1/4	1/4		
1/2	2,212.42	1/2	1,847.92	1/2	1,483.41	1/2	1,122.82	1/2	759.37	1/2	394.84	1/2	62.04	1/2	1/2	1/2	1/2	1/2	1/2		
3/4	2,204.83	3/4	1,840.33	3/4	1,475.90	3/4	1,115.26	3/4	751.78	3/4	387.24	3/4	59.54	3/4	3/4	3/4	3/4	3/4	3/4		
4	2,197.23	4	1,832.73	4	1,468.39	4	1,107.69	4	744.19	4	379.65	4	57.05	4	4	4	4	4	4		
1/4	2,189.64	1/4	1,825.14	1/4	1,460.87	1/4	1,100.12	1/4	736.59	1/4	372.05	1/4	54.55	1/4	1/4	1/4	1/4	1/4	1/4		
1/2	2,182.05	1/2	1,817.54	1/2	1,453.36	1/2	1,092.56	1/2	729.00	1/2	364.46	1/2	52.06	1/2	1/2	1/2	1/2	1/2	1/2		
3/4	2,174.45	3/4	1,809.95	3/4	1,445.93	3/4	1,084.99	3/4	721.40	3/4	356.86	3/4	50.86	3/4	3/4	3/4	3/4	3/4	3/4		
5	2,166.86	5	1,802.36	5	1,438.50	5	1,077.42	5	713.81	5	349.27	5	49.66	5	5	5	5	5	5		
1/4	2,159.27	1/4	1,794.76	1/4	1,431.06	1/4	1,069.86	1/4	706.21	1/4	341.67	1/4	48.46	1/4	1/4	1/4	1/4	1/4	1/4		
1/2	2,151.67	1/2	1,787.17	1/2	1,423.63	1/2	1,062.29	1/2	698.62	1/2	334.08	1/2	47.26	1/2	1/2	1/2	1/2	1/2	1/2		
3/4	2,144.08	3/4	1,779.57	3/4	1,416.20	3/4	1,054.73	3/4	691.03	3/4	326.49	3/4		3/4	3/4	3/4	3/4	3/4	3/4		
6	2,136.48	6	1,771.98	6	1,408.77	6	1,047.16	6	683.43	6	318.89	6		6	6	6	6	6	6		
1/4	2,128.89	1/4	1,764.39	1/4	1,401.34	1/4	1,039.60	1/4	675.84	1/4	311.30	1/4		1/4	1/4	1/4	1/4	1/4	1/4		
1/2	2,121.30	1/2	1,756.79	1/2	1,393.90	1/2	1,032.03	1/2	668.24	1/2	303.70	1/2		1/2	1/2	1/2	1/2	1/2	1/2		
3/4	2,113.70	3/4	1,749.20	3/4	1,386.47	3/4	1,024.47	3/4	660.65	3/4	296.11	3/4		3/4	3/4	3/4	3/4	3/4	3/4		
7	2,106.11	7	1,741.60	7	1,379.04	7	1,016.90	7	653.05	7	288.51	7		7	7	7	7	7	7		
1/4	2,098.52	1/4	1,734.01	1/4	1,371.61	1/4	1,009.34	1/4	645.46	1/4	280.92	1/4		1/4	1/4	1/4	1/4	1/4	1/4		
1/2	2,090.92	1/2	1,726.42	1/2	1,364.18	1/2	1,001.77	1/2	637.87	1/2	273.32	1/2		1/2	1/2	1/2	1/2	1/2	1/2		
3/4	2,083.33	3/4	1,718.82	3/4	1,356.74	3/4	994.21	3/4	630.27	3/4	265.73	3/4		3/4	3/4	3/4	3/4	3/4	3/4		
8	2,075.73	8	1,711.23	8	1,349.31	8	986.64	8	622.68	8	258.13	8		8	8	8	8	8	8		
1/4	2,068.14	1/4	1,703.63	1/4	1,341.88	1/4	979.07	1/4	615.08	1/4	250.54	1/4		1/4	1/4	1/4	1/4	1/4	1/4		
1/2	2,060.55	1/2	1,696.04	1/2	1,334.45	1/2	971.51	1/2	607.49	1/2	242.94	1/2		1/2	1/2	1/2	1/2	1/2	1/2		
3/4	2,052.95	3/4	1,688.45	3/4	1,327.02	3/4	963.94	3/4	599.89	3/4	235.35	3/4		3/4	3/4	3/4	3/4	3/4	3/4		
9	2,045.36	9	1,680.85	9	1,319.58	9	956.38	9	592.30	9	227.75	9		9	9	9	9	9	9		
1/4	2,037.77	1/4	1,673.26	1/4	1,312.15	1/4	948.81	1/4	584.70	1/4	220.16	1/4		1/4	1/4	1/4	1/4	1/4	1/4		
1/2	2,030.17	1/2	1,665.67	1/2	1,304.72	1/2	941.25	1/2	577.11	1/2	212.56	1/2		1/2	1/2	1/2	1/2	1/2	1/2		
3/4	2,022.58	3/4	1,658.07	3/4	1,297.20	3/4	933.68	3/4	569.52	3/4	204.97	3/4		3/4	3/4	3/4	3/4	3/4	3/4		
10	2,014.98	10	1,650.48	10	1,289.69	10	926.12	10	561.92	10	197.38	10		10	10	10	10	10	10		
1/4	2,007.39	1/4	1,642.88	1/4	1,282.18	1/4	918.55	1/4	554.33	1/4	189.78	1/4		1/4	1/4	1/4	1/4	1/4	1/4		
1/2	1,999.80	1/2	1,635.29	1/2	1,274.67	1/2	910.99	1/2	546.73	1/2	182.19	1/2		1/2	1/2	1/2	1/2	1/2	1/2		
3/4	1,992.20	3/4	1,627.70	3/4	1,267.07	3/4	903.42	3/4	539.14	3/4	174.59	3/4		3/4	3/4	3/4	3/4	3/4	3/4		
11	1,984.61	11	1,620.10	11	1,259.48	11	895.86	11	531.54	11	167.00	11		11	11	11	11	11	11		
1/4	1,977.02	1/4	1,612.51	1/4	1,251.88	1/4	888.29	1/4	523.95	1/4	159.40	1/4		1/4	1/4	1/4	1/4	1/4	1/4		
1/2	1,969.42	1/2	1,604.91	1/2	1,244.29	1/2	880.72	1/2	516.35	1/2	151.81	1/2		1/2	1/2	1/2	1/2	1/2	1/2		
3/4	1,961.83	3/4	1,597.32	3/4	1,236.69	3/4	873.16	3/4	508.76	3/4	144.53	3/4		3/4	3/4	3/4	3/4	3/4	3/4		

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 04/11/2011 CL - SW  
CALCULATED: 04/11/2011 CL  
PRINTED: 04/11/2011 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 04/2011

PRECISION MEASUREMENT  
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