



BARGE "EMS 399"

INNAGE TRIM TABLE

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

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

LENGTH BETWEEN DRAFT MARKS: 245'-00"

March 1, 2016

**PRECISION MEASUREMENT
& ANALYSIS, INC.**

P.O. Box 2092
 Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "EMS 399"

SLOP TANK INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 3'-00"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	0	0	1,091	0	2,182	0		0		0		0		0		0		0	
1/4	23	1/4	1,114	1/4	2,205	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	45	1/2	1,137	1/2	2,228	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	68	3/4	1,159	3/4	2,250	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
1	91	1	1,182	1	2,273	1		1		1		1		1		1		1	
1/4	114	1/4	1,205	1/4	2,296	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	136	1/2	1,228	1/2	2,319	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	159	3/4	1,250	3/4	2,341	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
2	182	2	1,273	2	2,364	2		2		2		2		2		2		2	
1/4	205	1/4	1,296	1/4	2,387	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	227	1/2	1,318	1/2	2,410	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	250	3/4	1,341	3/4	2,432	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
3	273	3	1,364	3	2,455	3		3		3		3		3		3		3	
1/4	296	1/4	1,387	1/4	2,478	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	318	1/2	1,409	1/2	2,500	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	341	3/4	1,432	3/4	2,523	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
4	364	4	1,455	4	2,546	4		4		4		4		4		4		4	
1/4	386	1/4	1,478	1/4	2,569	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	409	1/2	1,500	1/2	2,591	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	432	3/4	1,523	3/4	2,614	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
5	455	5	1,546	5	2,637	5		5		5		5		5		5		5	
1/4	477	1/4	1,568	1/4	2,660	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	500	1/2	1,591	1/2	2,682	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	523	3/4	1,614	3/4	2,705	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
6	546	6	1,637	6	2,728	6		6		6		6		6		6		6	
1/4	568	1/4	1,659	1/4	2,751	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	591	1/2	1,682	1/2	2,773	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	614	3/4	1,705	3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
7	636	7	1,728	7		7		7		7		7		7		7		7	
1/4	659	1/4	1,750	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	682	1/2	1,773	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	705	3/4	1,796	3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
8	727	8	1,819	8		8		8		8		8		8		8		8	
1/4	750	1/4	1,841	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	773	1/2	1,864	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	796	3/4	1,887	3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
9	818	9	1,909	9		9		9		9		9		9		9		9	
1/4	841	1/4	1,932	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	864	1/2	1,955	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	887	3/4	1,978	3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
10	909	10	2,000	10		10		10		10		10		10		10		10	
1/4	932	1/4	2,023	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	955	1/2	2,046	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	977	3/4	2,069	3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
11	1,000	11	2,091	11		11		11		11		11		11		11		11	
1/4	1,023	1/4	2,114	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	1,046	1/2	2,137	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	1,068	3/4	2,160	3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	

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
GAUGE POINT: TOP LIP OF MANWAY OPPOSITE HINGE

STRAPPED: 02/29/2016 SW
CALCULATED: 03/01/2016 CL
PRINTED: 03/01/2016 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 03/2016

PRECISION MEASUREMENT
& ANALYSIS, INC.
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BARGE "EMS 399"

FUEL TANK INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 4'-04 3/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	0	0	110	0	280	0	449	0		0		0		0		0		0	
1/4	1	1/4	113	1/4	284	1/4	452	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	1	1/2	116	1/2	287	1/2	455	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2	3/4	119	3/4	291	3/4	458	3/4		3/4		3/4		3/4		3/4		3/4	
1	3	1	123	1	295	1	462	1		1		1		1		1		1	
1/4	4	1/4	126	1/4	298	1/4	465	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	5	1/2	129	1/2	302	1/2	468	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	7	3/4	133	3/4	306	3/4	471	3/4		3/4		3/4		3/4		3/4		3/4	
2	8	2	136	2	309	2	474	2		2		2		2		2		2	
1/4	10	1/4	139	1/4	313	1/4	477	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	11	1/2	143	1/2	317	1/2	479	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	13	3/4	146	3/4	320	3/4	482	3/4		3/4		3/4		3/4		3/4		3/4	
3	15	3	150	3	324	3	485	3		3		3		3		3		3	
1/4	17	1/4	153	1/4	328	1/4	488	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	18	1/2	157	1/2	331	1/2	491	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	20	3/4	160	3/4	335	3/4	494	3/4		3/4		3/4		3/4		3/4		3/4	
4	22	4	163	4	339	4	496	4		4		4		4		4		4	
1/4	24	1/4	167	1/4	342	1/4	499	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	27	1/2	171	1/2	346	1/2	502	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	29	3/4	174	3/4	350	3/4	504	3/4		3/4		3/4		3/4		3/4		3/4	
5	31	5	178	5	353	5	507	5		5		5		5		5		5	
1/4	33	1/4	181	1/4	357	1/4	509	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	36	1/2	185	1/2	360	1/2	512	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	38	3/4	188	3/4	364	3/4	514	3/4		3/4		3/4		3/4		3/4		3/4	
6	40	6	192	6	368	6	517	6		6		6		6		6		6	
1/4	43	1/4	195	1/4	371	1/4	519	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	46	1/2	199	1/2	375	1/2	521	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	48	3/4	203	3/4	378	3/4	524	3/4		3/4		3/4		3/4		3/4		3/4	
7	51	7	206	7	382	7	526	7		7		7		7		7		7	
1/4	53	1/4	210	1/4	385	1/4	528	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	56	1/2	214	1/2	389	1/2	530	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	59	3/4	217	3/4	392	3/4	532	3/4		3/4		3/4		3/4		3/4		3/4	
8	61	8	221	8	396	8	534	8		8		8		8		8		8	
1/4	64	1/4	225	1/4	399	1/4	536	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	67	1/2	228	1/2	403	1/2	538	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	70	3/4	232	3/4	406	3/4	539	3/4		3/4		3/4		3/4		3/4		3/4	
9	73	9	236	9	410	9	541	9		9		9		9		9		9	
1/4	76	1/4	239	1/4	413	1/4	543	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	79	1/2	243	1/2	416	1/2	544	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	82	3/4	247	3/4	420	3/4	546	3/4		3/4		3/4		3/4		3/4		3/4	
10	85	10	250	10	423	10	547	10		10		10		10		10		10	
1/4	88	1/4	254	1/4	426	1/4	548	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	91	1/2	258	1/2	430	1/2	549	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	94	3/4	261	3/4	433	3/4	550	3/4		3/4		3/4		3/4		3/4		3/4	
11	97	11	265	11	436	11	551	11		11		11		11		11		11	
1/4	100	1/4	269	1/4	439	1/4	552	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	103	1/2	272	1/2	443	1/2	552	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	106	3/4	276	3/4	446	3/4		3/4		3/4		3/4		3/4		3/4		3/4	

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
GAUGE POINT: TOP LIP OF 8" HATCH OPPOSITE HINGE.

STRAPPED: 02/29/2016 SW
CALCULATED: 03/01/2016 CL
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CANCELS AND SUPERCEDES
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BARGE "EMS 399"

3 STBD INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-04 3/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	17.57	0	369.04	0	729.91	0	1,087.34	0	1,443.69	0	1,798.80	0	2,156.25	0	2,517.15	0	2,878.16	0	3,239.19
1/4	22.95	1/4	376.57	1/4	737.42	1/4	1,094.76	1/4	1,451.11	1/4	1,806.17	1/4	2,163.77	1/4	2,524.66	1/4	2,885.68	1/4	3,246.72
1/2	28.33	1/2	384.09	1/2	744.93	1/2	1,102.17	1/2	1,458.54	1/2	1,813.54	1/2	2,171.29	1/2	2,532.18	1/2	2,893.20	1/2	3,254.24
3/4	33.72	3/4	391.62	3/4	752.44	3/4	1,109.58	3/4	1,465.96	3/4	1,820.91	3/4	2,178.82	3/4	2,539.69	3/4	2,900.72	3/4	3,261.76
1	39.10	1	399.14	1	759.95	1	1,117.00	1	1,473.39	1	1,828.28	1	2,186.34	1	2,547.21	1	2,908.24	1	3,269.28
1/4	46.36	1/4	406.67	1/4	767.46	1/4	1,124.41	1/4	1,480.82	1/4	1,835.65	1/4	2,193.86	1/4	2,554.73	1/4	2,915.77	1/4	3,276.80
1/2	53.61	1/2	414.19	1/2	774.97	1/2	1,131.82	1/2	1,488.24	1/2	1,843.02	1/2	2,201.38	1/2	2,562.25	1/2	2,923.29	1/2	3,284.32
3/4	60.87	3/4	421.71	3/4	782.48	3/4	1,139.24	3/4	1,495.67	3/4	1,850.39	3/4	2,208.91	3/4	2,569.77	3/4	2,930.81	3/4	3,291.85
2	68.12	2	429.24	2	789.99	2	1,146.65	2	1,503.09	2	1,857.76	2	2,216.43	2	2,577.29	2	2,938.33	2	3,299.37
1/4	75.65	1/4	436.76	1/4	797.50	1/4	1,154.08	1/4	1,510.52	1/4	1,865.13	1/4	2,223.95	1/4	2,584.82	1/4	2,945.85	1/4	3,306.89
1/2	83.17	1/2	444.29	1/2	805.01	1/2	1,161.50	1/2	1,517.95	1/2	1,872.50	1/2	2,231.48	1/2	2,592.34	1/2	2,953.37	1/2	3,314.41
3/4	90.69	3/4	451.81	3/4	812.52	3/4	1,168.93	3/4	1,525.37	3/4	1,879.88	3/4	2,239.00	3/4	2,599.86	3/4	2,960.90	3/4	3,321.93
3	98.22	3	459.34	3	820.03	3	1,176.35	3	1,532.80	3	1,887.25	3	2,246.52	3	2,607.38	3	2,968.42	3	3,329.45
1/4	105.74	1/4	466.86	1/4	827.54	1/4	1,183.78	1/4	1,540.22	1/4	1,894.62	1/4	2,254.05	1/4	2,614.90	1/4	2,975.94	1/4	3,336.99
1/2	113.27	1/2	474.38	1/2	835.05	1/2	1,191.21	1/2	1,547.65	1/2	1,901.99	1/2	2,261.57	1/2	2,622.42	1/2	2,983.46	1/2	3,344.53
3/4	120.79	3/4	481.91	3/4	842.56	3/4	1,198.63	3/4	1,555.07	3/4	1,909.36	3/4	2,269.09	3/4	2,629.95	3/4	2,990.98	3/4	3,352.06
4	128.32	4	489.43	4	850.07	4	1,206.06	4	1,562.50	4	1,916.73	4	2,276.62	4	2,637.47	4	2,998.50	4	3,359.60
1/4	135.84	1/4	496.96	1/4	857.48	1/4	1,213.48	1/4	1,569.93	1/4	1,924.10	1/4	2,284.14	1/4	2,644.99	1/4	3,006.03	1/4	3,367.14
1/2	143.37	1/2	504.48	1/2	864.89	1/2	1,220.91	1/2	1,577.35	1/2	1,931.47	1/2	2,291.66	1/2	2,652.51	1/2	3,013.55	1/2	3,374.67
3/4	150.89	3/4	512.01	3/4	872.30	3/4	1,228.34	3/4	1,584.78	3/4	1,938.84	3/4	2,299.19	3/4	2,660.03	3/4	3,021.07	3/4	3,382.21
5	158.42	5	519.53	5	879.72	5	1,235.76	5	1,592.20	5	1,946.21	5	2,306.71	5	2,667.55	5	3,028.59	5	3,389.74
1/4	165.94	1/4	527.05	1/4	887.14	1/4	1,243.19	1/4	1,599.63	1/4	1,953.58	1/4	2,314.22	1/4	2,675.07	1/4	3,036.11	1/4	3,397.28
1/2	173.46	1/2	534.58	1/2	894.57	1/2	1,250.61	1/2	1,607.06	1/2	1,960.95	1/2	2,321.74	1/2	2,682.60	1/2	3,043.63	1/2	3,404.82
3/4	180.99	3/4	542.10	3/4	902.00	3/4	1,258.04	3/4	1,614.48	3/4	1,968.32	3/4	2,329.26	3/4	2,690.12	3/4	3,051.15	3/4	3,412.35
6	188.51	6	549.63	6	909.42	6	1,265.46	6	1,621.91	6	1,975.69	6	2,336.77	6	2,697.64	6	3,058.68	6	3,419.89
1/4	196.03	1/4	557.15	1/4	916.84	1/4	1,272.89	1/4	1,629.28	1/4	1,983.22	1/4	2,344.29	1/4	2,705.16	1/4	3,066.20	1/4	3,427.43
1/2	203.56	1/2	564.68	1/2	924.25	1/2	1,280.32	1/2	1,636.65	1/2	1,990.74	1/2	2,351.80	1/2	2,712.68	1/2	3,073.72	1/2	3,434.96
3/4	211.08	3/4	572.20	3/4	931.66	3/4	1,287.74	3/4	1,644.02	3/4	1,998.26	3/4	2,359.32	3/4	2,720.20	3/4	3,081.24	3/4	3,442.50
7	218.60	7	579.72	7	939.08	7	1,295.17	7	1,651.39	7	2,005.78	7	2,366.83	7	2,727.73	7	3,088.76	7	3,450.03
1/4	226.12	1/4	587.23	1/4	946.49	1/4	1,302.59	1/4	1,658.76	1/4	2,013.31	1/4	2,374.35	1/4	2,735.25	1/4	3,096.28	1/4	3,457.57
1/2	233.64	1/2	594.74	1/2	953.90	1/2	1,310.02	1/2	1,666.13	1/2	2,020.83	1/2	2,381.86	1/2	2,742.77	1/2	3,103.81	1/2	3,465.10
3/4	241.16	3/4	602.25	3/4	961.32	3/4	1,317.45	3/4	1,673.50	3/4	2,028.35	3/4	2,389.38	3/4	2,750.29	3/4	3,111.33	3/4	3,472.64
8	248.68	8	609.76	8	968.73	8	1,324.87	8	1,680.87	8	2,035.88	8	2,396.90	8	2,757.81	8	3,118.85	8	3,480.17
1/4	256.21	1/4	617.27	1/4	976.14	1/4	1,332.30	1/4	1,688.24	1/4	2,043.40	1/4	2,404.41	1/4	2,765.33	1/4	3,126.37	1/4	3,487.71
1/2	263.73	1/2	624.78	1/2	983.56	1/2	1,339.72	1/2	1,695.61	1/2	2,050.92	1/2	2,411.93	1/2	2,772.86	1/2	3,133.89	1/2	3,495.24
3/4	271.26	3/4	632.29	3/4	990.97	3/4	1,347.15	3/4	1,702.98	3/4	2,058.45	3/4	2,419.44	3/4	2,780.38	3/4	3,141.41	3/4	3,502.78
9	278.78	9	639.80	9	998.38	9	1,354.58	9	1,710.35	9	2,065.97	9	2,426.96	9	2,787.90	9	3,148.94	9	3,510.31
1/4	286.30	1/4	647.31	1/4	1,005.80	1/4	1,362.00	1/4	1,717.72	1/4	2,073.49	1/4	2,434.47	1/4	2,795.42	1/4	3,156.46	1/4	3,517.85
1/2	293.82	1/2	654.82	1/2	1,013.21	1/2	1,369.43	1/2	1,725.09	1/2	2,081.02	1/2	2,441.99	1/2	2,802.94	1/2	3,163.98	1/2	3,525.38
3/4	301.34	3/4	662.33	3/4	1,020.62	3/4	1,376.85	3/4	1,732.47	3/4	2,088.54	3/4	2,449.50	3/4	2,810.46	3/4	3,171.50	3/4	3,532.91
10	308.86	10	669.84	10	1,028.04	10	1,384.28	10	1,739.84	10	2,096.06	10	2,457.02	10	2,817.99	10	3,179.02	10	3,540.44
1/4	316.38	1/4	677.35	1/4	1,035.45	1/4	1,391.71	1/4	1,747.21	1/4	2,103.58	1/4	2,464.54	1/4	2,825.51	1/4	3,186.54	1/4	3,547.97
1/2	323.91	1/2	684.86	1/2	1,042.86	1/2	1,399.13	1/2	1,754.58	1/2	2,111.11	1/2	2,472.05	1/2	2,833.03	1/2	3,194.07	1/2	3,555.50
3/4	331.43	3/4	692.37	3/4	1,050.28	3/4	1,406.56	3/4	1,761.95	3/4	2,118.63	3/4	2,479.57	3/4	2,840.55	3/4	3,201.59	3/4	3,563.03
11	338.95	11	699.88	11	1,057.69	11	1,413.98	11	1,769.32	11	2,126.15	11	2,487.08	11	2,848.07	11	3,209.11	11	3,570.56
1/4	346.47	1/4	707.39	1/4	1,065.10	1/4	1,421.41	1/4	1,776.69	1/4	2,133.68	1/4	2,494.60	1/4	2,855.59	1/4	3,216.63	1/4	3,578.09
1/2	354.00	1/2	714.90	1/2	1,072.52	1/2	1,428.83	1/2	1,784.06	1/2	2,141.20	1/2	2,502.11	1/2	2,863.11	1/2	3,224.15	1/2	3,585.62
3/4	361.52	3/4	722.41	3/4	1,079.93	3/4	1,436.26	3/4	1,791.43	3/4	2,148.72	3/4	2,509.63	3/4	2,870.64	3/4	3,231.67	3/4	3,593.15

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 INNAGE GAUGES TAKEN AT 2" DIAMETER "HERMETIC" VALVE
 GAUGE POINT: (HERMETIC) LOCATED 12'-06" OFF CENTERLINE AND 44'-06" FORWARD OF AFT BULKHEAD

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



BARGE "EMS 399"

3 STBD INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-04 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	3,574.79	0	3,861.64	0	4,127.98	0	4,374.57	0		0		0		0		0		0	
1/4	3,580.96	1/4	3,867.37	1/4	4,133.30	1/4	4,379.49	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,587.12	1/2	3,873.11	1/2	4,138.63	1/2	4,384.40	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,593.29	3/4	3,878.85	3/4	4,143.95	3/4	4,389.31	3/4		3/4		3/4		3/4		3/4		3/4	
1	3,599.46	1	3,884.59	1	4,149.28	1	4,394.23	1		1		1		1		1		1	
1/4	3,605.59	1/4	3,890.29	1/4	4,154.57	1/4	4,399.11	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,611.72	1/2	3,895.99	1/2	4,159.86	1/2	4,403.99	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,617.85	3/4	3,901.69	3/4	4,165.15	3/4	4,408.87	3/4		3/4		3/4		3/4		3/4		3/4	
2	3,623.98	2	3,907.40	2	4,170.45	2	4,413.75	2		2		2		2		2		2	
1/4	3,630.08	1/4	3,913.07	1/4	4,175.70	1/4	4,418.60	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,636.18	1/2	3,918.74	1/2	4,180.96	1/2	4,423.44	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,642.28	3/4	3,924.40	3/4	4,186.22	3/4	4,428.29	3/4		3/4		3/4		3/4		3/4		3/4	
3	3,648.37	3	3,930.07	3	4,191.48	3	4,433.13	3		3		3		3		3		3	
1/4	3,654.44	1/4	3,935.71	1/4	4,196.70	1/4	4,437.95	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,660.50	1/2	3,941.34	1/2	4,201.92	1/2	4,442.76	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,666.56	3/4	3,946.98	3/4	4,207.15	3/4	4,447.57	3/4		3/4		3/4		3/4		3/4		3/4	
4	3,672.62	4	3,952.61	4	4,212.37	4	4,452.38	4		4		4		4		4		4	
1/4	3,678.65	1/4	3,958.21	1/4	4,217.56	1/4	4,458.62	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,684.68	1/2	3,963.81	1/2	4,222.75	1/2	4,464.85	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,690.71	3/4	3,969.41	3/4	4,227.93	3/4	4,471.08	3/4		3/4		3/4		3/4		3/4		3/4	
5	3,696.74	5	3,975.01	5	4,233.12	5	4,477.32	5		5		5		5		5		5	
1/4	3,702.73	1/4	3,980.58	1/4	4,238.28	1/4	4,483.55	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,708.73	1/2	3,986.14	1/2	4,243.43	1/2	4,489.79	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,714.72	3/4	3,991.71	3/4	4,248.59	3/4	4,496.02	3/4		3/4		3/4		3/4		3/4		3/4	
6	3,720.72	6	3,997.27	6	4,253.74	6	4,502.26	6		6		6		6		6		6	
1/4	3,726.68	1/4	4,002.81	1/4	4,258.86	1/4	4,508.49	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,732.64	1/2	4,008.34	1/2	4,263.98	1/2	4,514.72	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,738.60	3/4	4,013.87	3/4	4,269.10	3/4	4,520.96	3/4		3/4		3/4		3/4		3/4		3/4	
7	3,744.56	7	4,019.40	7	4,274.22	7	4,527.19	7		7		7		7		7		7	
1/4	3,750.48	1/4	4,024.90	1/4	4,279.31	1/4	4,533.27	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,756.41	1/2	4,030.40	1/2	4,284.39	1/2	4,539.34	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,762.34	3/4	4,035.89	3/4	4,289.48	3/4	4,545.41	3/4		3/4		3/4		3/4		3/4		3/4	
8	3,768.26	8	4,041.39	8	4,294.57	8	4,551.48	8		8		8		8		8		8	
1/4	3,774.15	1/4	4,046.85	1/4	4,299.62	1/4	4,556.87	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,780.05	1/2	4,052.32	1/2	4,304.67	1/2	4,562.26	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,785.94	3/4	4,057.78	3/4	4,309.72	3/4	4,567.65	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,791.83	9	4,063.24	9	4,314.77	9	4,573.03	9		9		9		9		9		9	
1/4	3,797.69	1/4	4,068.67	1/4	4,319.79	1/4	4,577.05	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,803.54	1/2	4,074.10	1/2	4,324.81	1/2	4,581.07	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,809.40	3/4	4,079.53	3/4	4,329.83	3/4	4,585.09	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,815.26	10	4,084.96	10	4,334.84	10	4,589.10	10		10		10		10		10		10	
1/4	3,821.08	1/4	4,090.35	1/4	4,339.83	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,826.90	1/2	4,095.75	1/2	4,344.81	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,832.73	3/4	4,101.14	3/4	4,349.79	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
11	3,838.55	11	4,106.54	11	4,354.78	11		11		11		11		11		11		11	
1/4	3,844.32	1/4	4,111.90	1/4	4,359.72	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,850.09	1/2	4,117.26	1/2	4,364.67	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,855.87	3/4	4,122.62	3/4	4,369.62	3/4		3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 02/29/2016 SW
CALCULATED: 03/01/2016 CL
PRINTED: 03/01/2016 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 03/2016

PRECISION MEASUREMENT
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BARGE "EMS 399"

3 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-04 3/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	17.57	0	369.62	0	731.06	0	1,092.51	0	1,454.26	0	1,816.01	0	2,177.76	0	2,539.36	0	2,900.95	0	3,262.53
1/4	22.95	1/4	377.15	1/4	738.58	1/4	1,100.04	1/4	1,461.80	1/4	1,823.55	1/4	2,185.30	1/4	2,546.89	1/4	2,908.48	1/4	3,270.06
1/2	28.33	1/2	384.69	1/2	746.10	1/2	1,107.58	1/2	1,469.33	1/2	1,831.08	1/2	2,192.84	1/2	2,554.43	1/2	2,916.01	1/2	3,277.60
3/4	33.72	3/4	392.22	3/4	753.62	3/4	1,115.12	3/4	1,476.87	3/4	1,838.62	3/4	2,200.37	3/4	2,561.96	3/4	2,923.54	3/4	3,285.13
1	39.10	1	399.76	1	761.14	1	1,122.65	1	1,484.41	1	1,846.16	1	2,207.91	1	2,569.49	1	2,931.08	1	3,292.66
1/4	46.37	1/4	407.30	1/4	768.66	1/4	1,130.19	1/4	1,491.94	1/4	1,853.69	1/4	2,215.44	1/4	2,577.03	1/4	2,938.61	1/4	3,300.19
1/2	53.63	1/2	414.83	1/2	776.19	1/2	1,137.73	1/2	1,499.48	1/2	1,861.23	1/2	2,222.98	1/2	2,584.56	1/2	2,946.14	1/2	3,307.73
3/4	60.90	3/4	422.37	3/4	783.71	3/4	1,145.26	3/4	1,507.01	3/4	1,868.77	3/4	2,230.51	3/4	2,592.09	3/4	2,953.68	3/4	3,315.26
2	68.17	2	429.91	2	791.23	2	1,152.80	2	1,514.55	2	1,876.30	2	2,238.04	2	2,599.63	2	2,961.21	2	3,322.79
1/4	75.70	1/4	437.44	1/4	798.75	1/4	1,160.34	1/4	1,522.09	1/4	1,883.84	1/4	2,245.57	1/4	2,607.16	1/4	2,968.74	1/4	3,330.33
1/2	83.24	1/2	444.98	1/2	806.27	1/2	1,167.87	1/2	1,529.62	1/2	1,891.38	1/2	2,253.11	1/2	2,614.69	1/2	2,976.28	1/2	3,337.86
3/4	90.78	3/4	452.51	3/4	813.79	3/4	1,175.41	3/4	1,537.16	3/4	1,898.91	3/4	2,260.64	3/4	2,622.22	3/4	2,983.81	3/4	3,345.39
3	98.31	3	460.05	3	821.31	3	1,182.95	3	1,544.70	3	1,906.45	3	2,268.17	3	2,629.76	3	2,991.34	3	3,352.93
1/4	105.85	1/4	467.59	1/4	828.84	1/4	1,190.48	1/4	1,552.23	1/4	1,913.99	1/4	2,275.71	1/4	2,637.29	1/4	2,998.87	1/4	3,360.46
1/2	113.38	1/2	475.12	1/2	836.36	1/2	1,198.02	1/2	1,559.77	1/2	1,921.52	1/2	2,283.24	1/2	2,644.82	1/2	3,006.41	1/2	3,368.00
3/4	120.92	3/4	482.66	3/4	843.88	3/4	1,205.55	3/4	1,567.31	3/4	1,929.06	3/4	2,290.77	3/4	2,652.36	3/4	3,013.94	3/4	3,375.53
4	128.46	4	490.19	4	851.40	4	1,213.09	4	1,574.84	4	1,936.60	4	2,298.31	4	2,659.89	4	3,021.47	4	3,383.07
1/4	135.99	1/4	497.73	1/4	858.92	1/4	1,220.63	1/4	1,582.38	1/4	1,944.13	1/4	2,305.84	1/4	2,667.42	1/4	3,029.01	1/4	3,390.60
1/2	143.53	1/2	505.27	1/2	866.44	1/2	1,228.16	1/2	1,589.92	1/2	1,951.67	1/2	2,313.37	1/2	2,674.96	1/2	3,036.54	1/2	3,398.14
3/4	151.07	3/4	512.80	3/4	873.96	3/4	1,235.70	3/4	1,597.45	3/4	1,959.20	3/4	2,320.90	3/4	2,682.49	3/4	3,044.07	3/4	3,405.68
5	158.60	5	520.34	5	881.49	5	1,243.24	5	1,604.99	5	1,966.74	5	2,328.44	5	2,690.02	5	3,051.61	5	3,413.21
1/4	166.14	1/4	527.88	1/4	889.02	1/4	1,250.77	1/4	1,612.53	1/4	1,974.28	1/4	2,335.97	1/4	2,697.55	1/4	3,059.14	1/4	3,420.75
1/2	173.67	1/2	535.41	1/2	896.56	1/2	1,258.31	1/2	1,620.06	1/2	1,981.81	1/2	2,343.50	1/2	2,705.09	1/2	3,066.67	1/2	3,428.28
3/4	181.21	3/4	542.95	3/4	904.09	3/4	1,265.85	3/4	1,627.60	3/4	1,989.35	3/4	2,351.04	3/4	2,712.62	3/4	3,074.20	3/4	3,435.82
6	188.75	6	550.48	6	911.63	6	1,273.38	6	1,635.14	6	1,996.89	6	2,358.57	6	2,720.15	6	3,081.74	6	3,443.36
1/4	196.28	1/4	558.02	1/4	919.17	1/4	1,280.92	1/4	1,642.67	1/4	2,004.42	1/4	2,366.10	1/4	2,727.69	1/4	3,089.27	1/4	3,450.89
1/2	203.82	1/2	565.56	1/2	926.70	1/2	1,288.46	1/2	1,650.21	1/2	2,011.96	1/2	2,373.64	1/2	2,735.22	1/2	3,096.80	1/2	3,458.43
3/4	211.36	3/4	573.09	3/4	934.24	3/4	1,295.99	3/4	1,657.74	3/4	2,019.50	3/4	2,381.17	3/4	2,742.75	3/4	3,104.34	3/4	3,465.96
7	218.89	7	580.63	7	941.78	7	1,303.53	7	1,665.28	7	2,027.03	7	2,388.70	7	2,750.29	7	3,111.87	7	3,473.50
1/4	226.43	1/4	588.15	1/4	949.31	1/4	1,311.07	1/4	1,672.82	1/4	2,034.57	1/4	2,396.23	1/4	2,757.82	1/4	3,119.40	1/4	3,479.75
1/2	233.96	1/2	595.67	1/2	956.85	1/2	1,318.60	1/2	1,680.35	1/2	2,042.11	1/2	2,403.77	1/2	2,765.35	1/2	3,126.94	1/2	3,486.00
3/4	241.50	3/4	603.19	3/4	964.39	3/4	1,326.14	3/4	1,687.89	3/4	2,049.64	3/4	2,411.30	3/4	2,772.88	3/4	3,134.47	3/4	3,492.25
8	249.04	8	610.71	8	971.92	8	1,333.68	8	1,695.43	8	2,057.18	8	2,418.83	8	2,780.42	8	3,142.00	8	3,498.51
1/4	256.57	1/4	618.24	1/4	979.46	1/4	1,341.21	1/4	1,702.96	1/4	2,064.72	1/4	2,426.37	1/4	2,787.95	1/4	3,149.53	1/4	3,504.76
1/2	264.11	1/2	625.76	1/2	987.00	1/2	1,348.75	1/2	1,710.50	1/2	2,072.25	1/2	2,433.90	1/2	2,795.48	1/2	3,157.07	1/2	3,511.01
3/4	271.64	3/4	633.28	3/4	994.53	3/4	1,356.28	3/4	1,718.04	3/4	2,079.79	3/4	2,441.43	3/4	2,803.02	3/4	3,164.60	3/4	3,517.26
9	279.18	9	640.80	9	1,002.07	9	1,363.82	9	1,725.57	9	2,087.33	9	2,448.97	9	2,810.55	9	3,172.13	9	3,523.51
1/4	286.72	1/4	648.32	1/4	1,009.61	1/4	1,371.36	1/4	1,733.11	1/4	2,094.86	1/4	2,456.50	1/4	2,818.08	1/4	3,179.67	1/4	3,529.77
1/2	294.25	1/2	655.84	1/2	1,017.14	1/2	1,378.89	1/2	1,740.65	1/2	2,102.40	1/2	2,464.03	1/2	2,825.62	1/2	3,187.20	1/2	3,536.02
3/4	301.79	3/4	663.36	3/4	1,024.68	3/4	1,386.43	3/4	1,748.18	3/4	2,109.93	3/4	2,471.56	3/4	2,833.15	3/4	3,194.73	3/4	3,542.27
10	309.33	10	670.89	10	1,032.22	10	1,393.97	10	1,755.72	10	2,117.47	10	2,479.10	10	2,840.68	10	3,202.27	10	3,548.52
1/4	316.86	1/4	678.41	1/4	1,039.75	1/4	1,401.50	1/4	1,763.26	1/4	2,125.01	1/4	2,486.63	1/4	2,848.21	1/4	3,209.80	1/4	3,554.76
1/2	324.40	1/2	685.93	1/2	1,047.29	1/2	1,409.04	1/2	1,770.79	1/2	2,132.54	1/2	2,494.16	1/2	2,855.75	1/2	3,217.33	1/2	3,560.99
3/4	331.93	3/4	693.45	3/4	1,054.82	3/4	1,416.58	3/4	1,778.33	3/4	2,140.08	3/4	2,501.70	3/4	2,863.28	3/4	3,224.86	3/4	3,567.22
11	339.47	11	700.97	11	1,062.36	11	1,424.11	11	1,785.87	11	2,147.62	11	2,509.23	11	2,870.81	11	3,232.40	11	3,573.46
1/4	347.01	1/4	708.49	1/4	1,069.90	1/4	1,431.65	1/4	1,793.40	1/4	2,155.15	1/4	2,516.76	1/4	2,878.35	1/4	3,239.93	1/4	3,579.66
1/2	354.54	1/2	716.01	1/2	1,077.43	1/2	1,439.19	1/2	1,800.94	1/2	2,162.69	1/2	2,524.30	1/2	2,885.88	1/2	3,247.46	1/2	3,585.86
3/4	362.08	3/4	723.54	3/4	1,084.97	3/4	1,446.72	3/4	1,808.47	3/4	2,170.23	3/4	2,531.83	3/4	2,893.41	3/4	3,255.00	3/4	3,592.06

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 INNAGE GAUGES TAKEN AT 2" DIAMETER "HERMETIC" VALVE
 GAUGE POINT: (HERMETIC) LOCATED 12'-06" OFF CENTERLINE AND 44'-06" FORWARD OF AFT BULKHEAD

PRECISION MEASUREMENT
 & ANALYSIS, INC.
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BARGE "EMS 399"

3 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-04 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	3,598.26	0	3,885.11	0	4,151.46	0	4,398.06	0		0		0		0		0		0	
1/4	3,604.43	1/4	3,890.85	1/4	4,156.78	1/4	4,402.97	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,610.59	1/2	3,896.59	1/2	4,162.11	1/2	4,407.89	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,616.76	3/4	3,902.32	3/4	4,167.43	3/4	4,412.80	3/4		3/4		3/4		3/4		3/4		3/4	
1	3,622.92	1	3,908.06	1	4,172.76	1	4,417.72	1		1		1		1		1		1	
1/4	3,629.06	1/4	3,913.76	1/4	4,178.05	1/4	4,422.60	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,635.19	1/2	3,919.47	1/2	4,183.34	1/2	4,427.48	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,641.32	3/4	3,925.17	3/4	4,188.64	3/4	4,432.36	3/4		3/4		3/4		3/4		3/4		3/4	
2	3,647.45	2	3,930.87	2	4,193.93	2	4,437.24	2		2		2		2		2		2	
1/4	3,653.55	1/4	3,936.54	1/4	4,199.18	1/4	4,442.08	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,659.65	1/2	3,942.21	1/2	4,204.44	1/2	4,446.93	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,665.74	3/4	3,947.88	3/4	4,209.70	3/4	4,451.78	3/4		3/4		3/4		3/4		3/4		3/4	
3	3,671.84	3	3,953.55	3	4,214.96	3	4,456.62	3		3		3		3		3		3	
1/4	3,677.90	1/4	3,959.18	1/4	4,220.18	1/4	4,461.43	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,683.97	1/2	3,964.82	1/2	4,225.40	1/2	4,466.25	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,690.03	3/4	3,970.45	3/4	4,230.63	3/4	4,471.06	3/4		3/4		3/4		3/4		3/4		3/4	
4	3,696.09	4	3,976.09	4	4,235.85	4	4,475.87	4		4		4		4		4		4	
1/4	3,702.12	1/4	3,981.69	1/4	4,241.04	1/4	4,482.10	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,708.15	1/2	3,987.29	1/2	4,246.23	1/2	4,488.34	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,714.18	3/4	3,992.89	3/4	4,251.42	3/4	4,494.57	3/4		3/4		3/4		3/4		3/4		3/4	
5	3,720.21	5	3,998.49	5	4,256.61	5	4,500.81	5		5		5		5		5		5	
1/4	3,726.20	1/4	4,004.05	1/4	4,261.76	1/4	4,507.04	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,732.20	1/2	4,009.62	1/2	4,266.92	1/2	4,513.28	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,738.19	3/4	4,015.19	3/4	4,272.07	3/4	4,519.51	3/4		3/4		3/4		3/4		3/4		3/4	
6	3,744.19	6	4,020.75	6	4,277.22	6	4,525.74	6		6		6		6		6		6	
1/4	3,750.15	1/4	4,026.28	1/4	4,282.34	1/4	4,531.98	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,756.11	1/2	4,031.81	1/2	4,287.47	1/2	4,538.21	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,762.07	3/4	4,037.35	3/4	4,292.59	3/4	4,544.45	3/4		3/4		3/4		3/4		3/4		3/4	
7	3,768.03	7	4,042.88	7	4,297.71	7	4,550.68	7		7		7		7		7		7	
1/4	3,773.96	1/4	4,048.38	1/4	4,302.79	1/4	4,556.75	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,779.88	1/2	4,053.87	1/2	4,307.88	1/2	4,562.83	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,785.81	3/4	4,059.37	3/4	4,312.96	3/4	4,568.90	3/4		3/4		3/4		3/4		3/4		3/4	
8	3,791.73	8	4,064.87	8	4,318.05	8	4,574.97	8		8		8		8		8		8	
1/4	3,797.63	1/4	4,070.33	1/4	4,323.10	1/4	4,580.36	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,803.52	1/2	4,075.79	1/2	4,328.15	1/2	4,585.75	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,809.41	3/4	4,081.26	3/4	4,333.21	3/4	4,591.14	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,815.30	9	4,086.72	9	4,338.26	9	4,596.52	9		9		9		9		9		9	
1/4	3,821.16	1/4	4,092.15	1/4	4,343.27	1/4	4,600.54	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,827.02	1/2	4,097.58	1/2	4,348.29	1/2	4,604.56	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,832.87	3/4	4,103.01	3/4	4,353.31	3/4	4,608.58	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,838.73	10	4,108.44	10	4,358.33	10	4,612.60	10		10		10		10		10		10	
1/4	3,844.55	1/4	4,113.83	1/4	4,363.31	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,850.38	1/2	4,119.23	1/2	4,368.29	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,856.20	3/4	4,124.62	3/4	4,373.28	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
11	3,862.02	11	4,130.01	11	4,378.26	11		11		11		11		11		11		11	
1/4	3,867.80	1/4	4,135.37	1/4	4,383.21	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,873.57	1/2	4,140.74	1/2	4,388.16	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,879.34	3/4	4,146.10	3/4	4,393.11	3/4		3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 02/29/2016 SW
CALCULATED: 03/01/2016 CL
PRINTED: 03/01/2016 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 03/2016

PRECISION MEASUREMENT
& ANALYSIS, INC.
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BARGE "EMS 399"

2 STBD INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-04 3/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	17.52	0	368.55	0	722.61	0	1,074.14	0	1,434.85	0	1,795.56	0	2,156.26	0	2,516.97	0	2,877.67	0	3,238.38
1/4	22.89	1/4	376.07	1/4	729.80	1/4	1,081.66	1/4	1,442.37	1/4	1,803.07	1/4	2,163.78	1/4	2,524.48	1/4	2,885.19	1/4	3,245.89
1/2	28.25	1/2	383.58	1/2	736.98	1/2	1,089.17	1/2	1,449.88	1/2	1,810.59	1/2	2,171.29	1/2	2,532.00	1/2	2,892.70	1/2	3,253.41
3/4	33.62	3/4	391.09	3/4	744.16	3/4	1,096.69	3/4	1,457.39	3/4	1,818.10	3/4	2,178.81	3/4	2,539.51	3/4	2,900.22	3/4	3,260.92
1	38.99	1	398.61	1	751.34	1	1,104.20	1	1,464.91	1	1,825.61	1	2,186.32	1	2,547.03	1	2,907.73	1	3,268.44
1/4	46.23	1/4	406.12	1/4	758.53	1/4	1,111.72	1/4	1,472.42	1/4	1,833.13	1/4	2,193.84	1/4	2,554.54	1/4	2,915.25	1/4	3,275.95
1/2	53.48	1/2	413.64	1/2	765.71	1/2	1,119.23	1/2	1,479.94	1/2	1,840.64	1/2	2,201.35	1/2	2,562.06	1/2	2,922.76	1/2	3,283.47
3/4	60.73	3/4	421.15	3/4	772.89	3/4	1,126.75	3/4	1,487.45	3/4	1,848.16	3/4	2,208.86	3/4	2,569.57	3/4	2,930.28	3/4	3,290.98
2	67.97	2	428.67	2	780.08	2	1,134.26	2	1,494.97	2	1,855.67	2	2,216.38	2	2,577.08	2	2,937.79	2	3,298.50
1/4	75.49	1/4	436.18	1/4	787.26	1/4	1,141.78	1/4	1,502.48	1/4	1,863.19	1/4	2,223.89	1/4	2,584.60	1/4	2,945.31	1/4	3,306.01
1/2	83.00	1/2	443.70	1/2	794.44	1/2	1,149.29	1/2	1,510.00	1/2	1,870.70	1/2	2,231.41	1/2	2,592.11	1/2	2,952.82	1/2	3,313.53
3/4	90.51	3/4	451.21	3/4	801.62	3/4	1,156.81	3/4	1,517.51	3/4	1,878.22	3/4	2,238.92	3/4	2,599.63	3/4	2,960.33	3/4	3,321.04
3	98.03	3	458.73	3	808.81	3	1,164.32	3	1,525.03	3	1,885.73	3	2,246.44	3	2,607.14	3	2,967.85	3	3,328.55
1/4	105.54	1/4	466.24	1/4	815.99	1/4	1,171.84	1/4	1,532.54	1/4	1,893.25	1/4	2,253.95	1/4	2,614.66	1/4	2,975.36	1/4	3,336.07
1/2	113.06	1/2	473.75	1/2	823.17	1/2	1,179.35	1/2	1,540.06	1/2	1,900.76	1/2	2,261.47	1/2	2,622.17	1/2	2,982.88	1/2	3,343.58
3/4	120.57	3/4	481.27	3/4	830.36	3/4	1,186.87	3/4	1,547.57	3/4	1,908.28	3/4	2,268.98	3/4	2,629.69	3/4	2,990.39	3/4	3,351.10
4	128.09	4	488.78	4	837.54	4	1,194.38	4	1,555.09	4	1,915.79	4	2,276.50	4	2,637.20	4	2,997.91	4	3,358.61
1/4	135.60	1/4	496.30	1/4	844.72	1/4	1,201.89	1/4	1,562.60	1/4	1,923.31	1/4	2,284.01	1/4	2,644.72	1/4	3,005.42	1/4	3,366.13
1/2	143.12	1/2	503.81	1/2	851.90	1/2	1,209.41	1/2	1,570.12	1/2	1,930.82	1/2	2,291.53	1/2	2,652.23	1/2	3,012.94	1/2	3,373.64
3/4	150.63	3/4	511.33	3/4	859.09	3/4	1,216.92	3/4	1,577.63	3/4	1,938.34	3/4	2,299.04	3/4	2,659.75	3/4	3,020.45	3/4	3,381.16
5	158.15	5	518.84	5	866.27	5	1,224.44	5	1,585.14	5	1,945.85	5	2,306.56	5	2,667.26	5	3,027.97	5	3,388.67
1/4	165.66	1/4	526.36	1/4	873.47	1/4	1,231.95	1/4	1,592.66	1/4	1,953.36	1/4	2,314.07	1/4	2,674.78	1/4	3,035.48	1/4	3,396.19
1/2	173.17	1/2	533.87	1/2	880.66	1/2	1,239.47	1/2	1,600.17	1/2	1,960.88	1/2	2,321.59	1/2	2,682.29	1/2	3,043.00	1/2	3,403.70
3/4	180.69	3/4	541.38	3/4	887.86	3/4	1,246.98	3/4	1,607.69	3/4	1,968.39	3/4	2,329.10	3/4	2,689.81	3/4	3,050.51	3/4	3,411.22
6	188.20	6	548.90	6	895.06	6	1,254.50	6	1,615.20	6	1,975.91	6	2,336.61	6	2,697.32	6	3,058.03	6	3,418.73
1/4	195.72	1/4	556.41	1/4	902.26	1/4	1,262.01	1/4	1,622.72	1/4	1,983.42	1/4	2,344.13	1/4	2,704.83	1/4	3,065.54	1/4	3,426.25
1/2	203.23	1/2	563.93	1/2	909.46	1/2	1,269.53	1/2	1,630.23	1/2	1,990.94	1/2	2,351.64	1/2	2,712.35	1/2	3,073.06	1/2	3,433.76
3/4	210.75	3/4	571.44	3/4	916.65	3/4	1,277.04	3/4	1,637.75	3/4	1,998.45	3/4	2,359.16	3/4	2,719.86	3/4	3,080.57	3/4	3,441.28
7	218.26	7	578.96	7	923.85	7	1,284.56	7	1,645.26	7	2,005.97	7	2,366.67	7	2,727.38	7	3,088.08	7	3,448.79
1/4	225.78	1/4	586.14	1/4	931.37	1/4	1,292.07	1/4	1,652.78	1/4	2,013.48	1/4	2,374.19	1/4	2,734.89	1/4	3,095.60	1/4	3,456.30
1/2	233.29	1/2	593.32	1/2	938.88	1/2	1,299.59	1/2	1,660.29	1/2	2,021.00	1/2	2,381.70	1/2	2,742.41	1/2	3,103.11	1/2	3,463.82
3/4	240.80	3/4	600.51	3/4	946.39	3/4	1,307.10	3/4	1,667.81	3/4	2,028.51	3/4	2,389.22	3/4	2,749.92	3/4	3,110.63	3/4	3,471.33
8	248.32	8	607.69	8	953.91	8	1,314.62	8	1,675.32	8	2,036.03	8	2,396.73	8	2,757.44	8	3,118.14	8	3,478.85
1/4	255.83	1/4	614.87	1/4	961.42	1/4	1,322.13	1/4	1,682.84	1/4	2,043.54	1/4	2,404.25	1/4	2,764.95	1/4	3,125.66	1/4	3,486.36
1/2	263.35	1/2	622.05	1/2	968.94	1/2	1,329.64	1/2	1,690.35	1/2	2,051.06	1/2	2,411.76	1/2	2,772.47	1/2	3,133.17	1/2	3,493.88
3/4	270.86	3/4	629.24	3/4	976.45	3/4	1,337.16	3/4	1,697.86	3/4	2,058.57	3/4	2,419.28	3/4	2,779.98	3/4	3,140.69	3/4	3,501.39
9	278.38	9	636.42	9	983.97	9	1,344.67	9	1,705.38	9	2,066.09	9	2,426.79	9	2,787.50	9	3,148.20	9	3,508.91
1/4	285.89	1/4	643.60	1/4	991.48	1/4	1,352.19	1/4	1,712.89	1/4	2,073.60	1/4	2,434.31	1/4	2,795.01	1/4	3,155.72	1/4	3,516.42
1/2	293.41	1/2	650.79	1/2	999.00	1/2	1,359.70	1/2	1,720.41	1/2	2,081.11	1/2	2,441.82	1/2	2,802.53	1/2	3,163.23	1/2	3,523.94
3/4	300.92	3/4	657.97	3/4	1,006.51	3/4	1,367.22	3/4	1,727.92	3/4	2,088.63	3/4	2,449.33	3/4	2,810.04	3/4	3,170.75	3/4	3,531.45
10	308.44	10	665.15	10	1,014.03	10	1,374.73	10	1,735.44	10	2,096.14	10	2,456.85	10	2,817.56	10	3,178.26	10	3,538.97
1/4	315.95	1/4	672.33	1/4	1,021.54	1/4	1,382.25	1/4	1,742.95	1/4	2,103.66	1/4	2,464.36	1/4	2,825.07	1/4	3,185.78	1/4	3,546.47
1/2	323.46	1/2	679.52	1/2	1,029.06	1/2	1,389.76	1/2	1,750.47	1/2	2,111.17	1/2	2,471.88	1/2	2,832.58	1/2	3,193.29	1/2	3,553.97
3/4	330.98	3/4	686.70	3/4	1,036.57	3/4	1,397.28	3/4	1,757.98	3/4	2,118.69	3/4	2,479.39	3/4	2,840.10	3/4	3,200.80	3/4	3,561.48
11	338.49	11	693.88	11	1,044.09	11	1,404.79	11	1,765.50	11	2,126.20	11	2,486.91	11	2,847.61	11	3,208.32	11	3,568.98
1/4	346.01	1/4	701.06	1/4	1,051.60	1/4	1,412.31	1/4	1,773.01	1/4	2,133.72	1/4	2,494.42	1/4	2,855.13	1/4	3,215.83	1/4	3,576.45
1/2	353.52	1/2	708.25	1/2	1,059.12	1/2	1,419.82	1/2	1,780.53	1/2	2,141.23	1/2	2,501.94	1/2	2,862.64	1/2	3,223.35	1/2	3,583.91
3/4	361.04	3/4	715.43	3/4	1,066.63	3/4	1,427.34	3/4	1,788.04	3/4	2,148.75	3/4	2,509.45	3/4	2,870.16	3/4	3,230.86	3/4	3,591.37

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 INNAGE GAUGES TAKEN AT 2" DIAMETER "HERMETIC" VALVE
 GAUGE POINT: (HERMETIC) LOCATED 12'-06" OFF CENTERLINE AND 51'-00" FORWARD OF AFT BULKHEAD

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



BARGE "EMS 399"

**2 STBD
INNAGE TABLE**

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-04 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	3,598.84	0	3,946.34	0	4,273.37	0	4,580.68	0		0		0		0		0		0	
1/4	3,606.27	1/4	3,953.34	1/4	4,279.96	1/4	4,586.86	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,613.70	1/2	3,960.34	1/2	4,286.55	1/2	4,593.04	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,621.12	3/4	3,967.34	3/4	4,293.14	3/4	4,599.22	3/4		3/4		3/4		3/4		3/4		3/4	
1	3,628.55	1	3,974.34	1	4,299.73	1	4,605.40	1	1	1	1	1	1	1	1	1	1	1	1
1/4	3,635.95	1/4	3,981.31	1/4	4,306.28	1/4	4,611.55	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,643.34	1/2	3,988.28	1/2	4,312.84	1/2	4,617.70	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,650.74	3/4	3,995.24	3/4	4,319.40	3/4	4,623.84	3/4		3/4		3/4		3/4		3/4		3/4	
2	3,658.13	2	4,002.21	2	4,325.95	2	4,629.99	2	2	2	2	2	2	2	2	2	2	2	2
1/4	3,665.49	1/4	4,009.14	1/4	4,332.48	1/4	4,636.10	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,672.86	1/2	4,016.08	1/2	4,339.00	1/2	4,642.21	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,680.22	3/4	4,023.01	3/4	4,345.52	3/4	4,648.32	3/4		3/4		3/4		3/4		3/4		3/4	
3	3,687.58	3	4,029.94	3	4,352.04	3	4,654.43	3	3	3	3	3	3	3	3	3	3	3	3
1/4	3,694.90	1/4	4,036.84	1/4	4,358.53	1/4	4,660.51	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,702.23	1/2	4,043.74	1/2	4,365.02	1/2	4,666.59	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,709.56	3/4	4,050.64	3/4	4,371.51	3/4	4,672.67	3/4		3/4		3/4		3/4		3/4		3/4	
4	3,716.88	4	4,057.54	4	4,378.00	4	4,678.74	4	4	4	4	4	4	4	4	4	4	4	4
1/4	3,724.18	1/4	4,064.40	1/4	4,384.45	1/4	4,686.24	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,731.47	1/2	4,071.27	1/2	4,390.90	1/2	4,693.74	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,738.76	3/4	4,078.13	3/4	4,397.36	3/4	4,701.23	3/4		3/4		3/4		3/4		3/4		3/4	
5	3,746.05	5	4,084.99	5	4,403.81	5	4,708.73	5	5	5	5	5	5	5	5	5	5	5	5
1/4	3,753.31	1/4	4,091.82	1/4	4,410.23	1/4	4,716.23	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,760.57	1/2	4,098.65	1/2	4,416.65	1/2	4,723.73	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,767.83	3/4	4,105.48	3/4	4,423.07	3/4	4,731.22	3/4		3/4		3/4		3/4		3/4		3/4	
6	3,775.08	6	4,112.31	6	4,429.49	6	4,738.72	6	6	6	6	6	6	6	6	6	6	6	6
1/4	3,782.31	1/4	4,119.11	1/4	4,435.87	1/4	4,746.22	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,789.53	1/2	4,125.91	1/2	4,442.26	1/2	4,753.72	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,796.76	3/4	4,132.70	3/4	4,448.64	3/4	4,761.21	3/4		3/4		3/4		3/4		3/4		3/4	
7	3,803.98	7	4,139.50	7	4,455.03	7	4,768.71	7	7	7	7	7	7	7	7	7	7	7	7
1/4	3,811.17	1/4	4,146.26	1/4	4,461.38	1/4	4,776.05	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,818.36	1/2	4,153.02	1/2	4,467.73	1/2	4,783.39	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,825.55	3/4	4,159.78	3/4	4,474.08	3/4	4,790.72	3/4		3/4		3/4		3/4		3/4		3/4	
8	3,832.74	8	4,166.55	8	4,480.43	8	4,798.06	8	8	8	8	8	8	8	8	8	8	8	8
1/4	3,839.89	1/4	4,173.27	1/4	4,486.75	1/4	4,804.71	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,847.05	1/2	4,180.00	1/2	4,493.07	1/2	4,811.36	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,854.21	3/4	4,186.73	3/4	4,499.39	3/4	4,818.01	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,861.36	9	4,193.46	9	4,505.70	9	4,824.66	9	9	9	9	9	9	9	9	9	9	9	9
1/4	3,868.48	1/4	4,200.15	1/4	4,511.98	1/4	4,829.95	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,875.60	1/2	4,206.84	1/2	4,518.27	1/2	4,835.24	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,882.72	3/4	4,213.54	3/4	4,524.55	3/4	4,840.53	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,889.85	10	4,220.23	10	4,530.83	10	4,845.81	10	10	10	10	10	10	10	10	10	10	10	10
1/4	3,896.93	1/4	4,226.89	1/4	4,537.08	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,904.02	1/2	4,233.55	1/2	4,543.33	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,911.11	3/4	4,240.21	3/4	4,549.58	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
11	3,918.19	11	4,246.87	11	4,555.83	11		11		11		11		11		11		11	
1/4	3,925.23	1/4	4,253.49	1/4	4,562.04	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,932.27	1/2	4,260.12	1/2	4,568.26	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,939.30	3/4	4,266.74	3/4	4,574.47	3/4		3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 02/29/2016 SW
CALCULATED: 03/01/2016 CL
PRINTED: 03/01/2016 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 03/2016

PRECISION MEASUREMENT
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BARGE "EMS 399"

2 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-04 3/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	17.54	0	369.00	0	729.83	0	1,090.67	0	1,451.82	0	1,812.96	0	2,174.10	0	2,535.24	0	2,896.38	0	3,257.53
1/4	22.91	1/4	376.52	1/4	737.34	1/4	1,098.20	1/4	1,459.34	1/4	1,820.48	1/4	2,181.62	1/4	2,542.77	1/4	2,903.91	1/4	3,265.05
1/2	28.29	1/2	384.04	1/2	744.85	1/2	1,105.72	1/2	1,466.86	1/2	1,828.01	1/2	2,189.15	1/2	2,550.29	1/2	2,911.43	1/2	3,272.57
3/4	33.66	3/4	391.57	3/4	752.36	3/4	1,113.24	3/4	1,474.39	3/4	1,835.53	3/4	2,196.67	3/4	2,557.81	3/4	2,918.96	3/4	3,280.10
1	39.03	1	399.09	1	759.87	1	1,120.77	1	1,481.91	1	1,843.05	1	2,204.20	1	2,565.34	1	2,926.48	1	3,287.62
1/4	46.29	1/4	406.62	1/4	767.38	1/4	1,128.29	1/4	1,489.43	1/4	1,850.58	1/4	2,211.72	1/4	2,572.86	1/4	2,934.00	1/4	3,295.15
1/2	53.54	1/2	414.14	1/2	774.88	1/2	1,135.82	1/2	1,496.96	1/2	1,858.10	1/2	2,219.24	1/2	2,580.39	1/2	2,941.53	1/2	3,302.67
3/4	60.80	3/4	421.66	3/4	782.39	3/4	1,143.34	3/4	1,504.48	3/4	1,865.62	3/4	2,226.77	3/4	2,587.91	3/4	2,949.05	3/4	3,310.19
2	68.05	2	429.19	2	789.90	2	1,150.86	2	1,512.01	2	1,873.15	2	2,234.29	2	2,595.43	2	2,956.58	2	3,317.72
1/4	75.58	1/4	436.71	1/4	797.41	1/4	1,158.39	1/4	1,519.53	1/4	1,880.67	1/4	2,241.81	1/4	2,602.96	1/4	2,964.10	1/4	3,325.24
1/2	83.10	1/2	444.23	1/2	804.92	1/2	1,165.91	1/2	1,527.05	1/2	1,888.20	1/2	2,249.34	1/2	2,610.48	1/2	2,971.62	1/2	3,332.77
3/4	90.62	3/4	451.76	3/4	812.43	3/4	1,173.43	3/4	1,534.58	3/4	1,895.72	3/4	2,256.86	3/4	2,618.00	3/4	2,979.15	3/4	3,340.29
3	98.15	3	459.28	3	819.94	3	1,180.96	3	1,542.10	3	1,903.24	3	2,264.39	3	2,625.53	3	2,986.67	3	3,347.81
1/4	105.67	1/4	466.80	1/4	827.45	1/4	1,188.48	1/4	1,549.62	1/4	1,910.77	1/4	2,271.91	1/4	2,633.05	1/4	2,994.19	1/4	3,355.34
1/2	113.20	1/2	474.33	1/2	834.95	1/2	1,196.01	1/2	1,557.15	1/2	1,918.29	1/2	2,279.43	1/2	2,640.58	1/2	3,001.72	1/2	3,362.86
3/4	120.72	3/4	481.85	3/4	842.46	3/4	1,203.53	3/4	1,564.67	3/4	1,925.81	3/4	2,286.96	3/4	2,648.10	3/4	3,009.24	3/4	3,370.38
4	128.24	4	489.38	4	849.97	4	1,211.05	4	1,572.20	4	1,933.34	4	2,294.48	4	2,655.62	4	3,016.77	4	3,377.91
1/4	135.77	1/4	496.90	1/4	857.48	1/4	1,218.58	1/4	1,579.72	1/4	1,940.86	1/4	2,302.00	1/4	2,663.15	1/4	3,024.29	1/4	3,385.43
1/2	143.29	1/2	504.42	1/2	864.99	1/2	1,226.10	1/2	1,587.24	1/2	1,948.39	1/2	2,309.53	1/2	2,670.67	1/2	3,031.81	1/2	3,392.96
3/4	150.81	3/4	511.95	3/4	872.50	3/4	1,233.62	3/4	1,594.77	3/4	1,955.91	3/4	2,317.05	3/4	2,678.19	3/4	3,039.34	3/4	3,400.48
5	158.34	5	519.47	5	880.01	5	1,241.15	5	1,602.29	5	1,963.43	5	2,324.58	5	2,685.72	5	3,046.86	5	3,408.00
1/4	165.86	1/4	526.99	1/4	887.53	1/4	1,248.67	1/4	1,609.81	1/4	1,970.96	1/4	2,332.10	1/4	2,693.24	1/4	3,054.38	1/4	3,415.53
1/2	173.38	1/2	534.52	1/2	895.05	1/2	1,256.20	1/2	1,617.34	1/2	1,978.48	1/2	2,339.62	1/2	2,700.77	1/2	3,061.91	1/2	3,423.05
3/4	180.91	3/4	542.04	3/4	902.58	3/4	1,263.72	3/4	1,624.86	3/4	1,986.00	3/4	2,347.15	3/4	2,708.29	3/4	3,069.43	3/4	3,430.57
6	188.43	6	549.56	6	910.10	6	1,271.24	6	1,632.39	6	1,993.53	6	2,354.67	6	2,715.81	6	3,076.96	6	3,438.10
1/4	195.95	1/4	557.09	1/4	917.63	1/4	1,278.77	1/4	1,639.91	1/4	2,001.05	1/4	2,362.19	1/4	2,723.34	1/4	3,084.48	1/4	3,445.62
1/2	203.48	1/2	564.61	1/2	925.15	1/2	1,286.29	1/2	1,647.43	1/2	2,008.58	1/2	2,369.72	1/2	2,730.86	1/2	3,092.00	1/2	3,453.15
3/4	211.00	3/4	572.13	3/4	932.67	3/4	1,293.82	3/4	1,654.96	3/4	2,016.10	3/4	2,377.24	3/4	2,738.38	3/4	3,099.53	3/4	3,460.67
7	218.53	7	579.66	7	940.20	7	1,301.34	7	1,662.48	7	2,023.62	7	2,384.77	7	2,745.91	7	3,107.05	7	3,468.19
1/4	226.05	1/4	587.17	1/4	947.72	1/4	1,308.86	1/4	1,670.01	1/4	2,031.15	1/4	2,392.29	1/4	2,753.43	1/4	3,114.57	1/4	3,475.72
1/2	233.57	1/2	594.68	1/2	955.24	1/2	1,316.39	1/2	1,677.53	1/2	2,038.67	1/2	2,399.81	1/2	2,760.96	1/2	3,122.10	1/2	3,483.24
3/4	241.10	3/4	602.18	3/4	962.77	3/4	1,323.91	3/4	1,685.05	3/4	2,046.20	3/4	2,407.34	3/4	2,768.48	3/4	3,129.62	3/4	3,490.76
8	248.62	8	609.69	8	970.29	8	1,331.43	8	1,692.58	8	2,053.72	8	2,414.86	8	2,776.00	8	3,137.15	8	3,498.29
1/4	256.14	1/4	617.20	1/4	977.82	1/4	1,338.96	1/4	1,700.10	1/4	2,061.24	1/4	2,422.39	1/4	2,783.53	1/4	3,144.67	1/4	3,505.81
1/2	263.67	1/2	624.71	1/2	985.34	1/2	1,346.48	1/2	1,707.62	1/2	2,068.77	1/2	2,429.91	1/2	2,791.05	1/2	3,152.19	1/2	3,513.34
3/4	271.19	3/4	632.22	3/4	992.86	3/4	1,354.01	3/4	1,715.15	3/4	2,076.29	3/4	2,437.43	3/4	2,798.58	3/4	3,159.72	3/4	3,520.86
9	278.71	9	639.73	9	1,000.39	9	1,361.53	9	1,722.67	9	2,083.81	9	2,444.96	9	2,806.10	9	3,167.24	9	3,528.38
1/4	286.24	1/4	647.24	1/4	1,007.91	1/4	1,369.05	1/4	1,730.20	1/4	2,091.34	1/4	2,452.48	1/4	2,813.62	1/4	3,174.77	1/4	3,535.91
1/2	293.76	1/2	654.75	1/2	1,015.43	1/2	1,376.58	1/2	1,737.72	1/2	2,098.86	1/2	2,460.00	1/2	2,821.15	1/2	3,182.29	1/2	3,543.43
3/4	301.29	3/4	662.25	3/4	1,022.96	3/4	1,384.10	3/4	1,745.24	3/4	2,106.39	3/4	2,467.53	3/4	2,828.67	3/4	3,189.81	3/4	3,550.96
10	308.81	10	669.76	10	1,030.48	10	1,391.62	10	1,752.77	10	2,113.91	10	2,475.05	10	2,836.19	10	3,197.34	10	3,558.48
1/4	316.33	1/4	677.27	1/4	1,038.01	1/4	1,399.15	1/4	1,760.29	1/4	2,121.43	1/4	2,482.58	1/4	2,843.72	1/4	3,204.86	1/4	3,565.99
1/2	323.86	1/2	684.78	1/2	1,045.53	1/2	1,406.67	1/2	1,767.81	1/2	2,128.96	1/2	2,490.10	1/2	2,851.24	1/2	3,212.38	1/2	3,573.50
3/4	331.38	3/4	692.29	3/4	1,053.05	3/4	1,414.20	3/4	1,775.34	3/4	2,136.48	3/4	2,497.62	3/4	2,858.77	3/4	3,219.91	3/4	3,581.01
11	338.90	11	699.80	11	1,060.58	11	1,421.72	11	1,782.86	11	2,144.00	11	2,505.15	11	2,866.29	11	3,227.43	11	3,588.53
1/4	346.43	1/4	707.31	1/4	1,068.10	1/4	1,429.24	1/4	1,790.39	1/4	2,151.53	1/4	2,512.67	1/4	2,873.81	1/4	3,234.96	1/4	3,596.00
1/2	353.95	1/2	714.81	1/2	1,075.63	1/2	1,436.77	1/2	1,797.91	1/2	2,159.05	1/2	2,520.19	1/2	2,881.34	1/2	3,242.48	1/2	3,603.47
3/4	361.47	3/4	722.32	3/4	1,083.15	3/4	1,444.29	3/4	1,805.43	3/4	2,166.58	3/4	2,527.72	3/4	2,888.86	3/4	3,250.00	3/4	3,610.94

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 INNAGE GAUGES TAKEN AT 2" DIAMETER "HERMETIC" VALVE
 GAUGE POINT: (HERMETIC) LOCATED 12'-06" OFF CENTERLINE AND 51'-00" FORWARD OF AFT BULKHEAD

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



BARGE "EMS 399"

2 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-04 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	3,618.42	0	3,966.33	0	4,293.76	0	4,601.45	0		0		0		0		0		0	
1/4	3,625.85	1/4	3,973.34	1/4	4,300.36	1/4	4,607.64	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,633.29	1/2	3,980.35	1/2	4,306.96	1/2	4,613.82	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,640.73	3/4	3,987.36	3/4	4,313.55	3/4	4,620.01	3/4		3/4		3/4		3/4		3/4		3/4	
1	3,648.17	1	3,994.37	1	4,320.15	1	4,626.20	1	1	1	1	1	1	1	1	1	1	1	1
1/4	3,655.57	1/4	4,001.35	1/4	4,326.72	1/4	4,632.35	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,662.98	1/2	4,008.32	1/2	4,333.28	1/2	4,638.50	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,670.38	3/4	4,015.30	3/4	4,339.85	3/4	4,644.66	3/4		3/4		3/4		3/4		3/4		3/4	
2	3,677.78	2	4,022.28	2	4,346.41	2	4,650.81	2	2	2	2	2	2	2	2	2	2	2	2
1/4	3,685.15	1/4	4,029.22	1/4	4,352.94	1/4	4,656.93	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,692.52	1/2	4,036.16	1/2	4,359.47	1/2	4,663.05	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,699.89	3/4	4,043.10	3/4	4,366.00	3/4	4,669.17	3/4		3/4		3/4		3/4		3/4		3/4	
3	3,707.26	3	4,050.04	3	4,372.53	3	4,675.29	3	3	3	3	3	3	3	3	3	3	3	3
1/4	3,714.60	1/4	4,056.95	1/4	4,379.03	1/4	4,681.37	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,721.93	1/2	4,063.85	1/2	4,385.52	1/2	4,687.46	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,729.27	3/4	4,070.76	3/4	4,392.02	3/4	4,693.54	3/4		3/4		3/4		3/4		3/4		3/4	
4	3,736.60	4	4,077.67	4	4,398.52	4	4,699.63	4	4	4	4	4	4	4	4	4	4	4	4
1/4	3,743.90	1/4	4,084.54	1/4	4,404.98	1/4	4,707.13	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,751.21	1/2	4,091.41	1/2	4,411.44	1/2	4,714.64	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,758.51	3/4	4,098.29	3/4	4,417.90	3/4	4,722.15	3/4		3/4		3/4		3/4		3/4		3/4	
5	3,765.81	5	4,105.16	5	4,424.36	5	4,729.65	5	5	5	5	5	5	5	5	5	5	5	5
1/4	3,773.08	1/4	4,112.00	1/4	4,430.79	1/4	4,737.16	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,780.34	1/2	4,118.84	1/2	4,437.22	1/2	4,744.67	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,787.61	3/4	4,125.68	3/4	4,443.64	3/4	4,752.17	3/4		3/4		3/4		3/4		3/4		3/4	
6	3,794.88	6	4,132.51	6	4,450.07	6	4,759.68	6	6	6	6	6	6	6	6	6	6	6	6
1/4	3,802.11	1/4	4,139.32	1/4	4,456.46	1/4	4,767.19	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,809.34	1/2	4,146.12	1/2	4,462.86	1/2	4,774.69	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,816.57	3/4	4,152.93	3/4	4,469.25	3/4	4,782.20	3/4		3/4		3/4		3/4		3/4		3/4	
7	3,823.81	7	4,159.73	7	4,475.64	7	4,789.71	7	7	7	7	7	7	7	7	7	7	7	7
1/4	3,831.01	1/4	4,166.50	1/4	4,482.00	1/4	4,797.05	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,838.20	1/2	4,173.27	1/2	4,488.36	1/2	4,804.40	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,845.40	3/4	4,180.04	3/4	4,494.72	3/4	4,811.74	3/4		3/4		3/4		3/4		3/4		3/4	
8	3,852.60	8	4,186.81	8	4,501.08	8	4,819.09	8	8	8	8	8	8	8	8	8	8	8	8
1/4	3,859.76	1/4	4,193.55	1/4	4,507.40	1/4	4,825.75	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,866.93	1/2	4,200.28	1/2	4,513.73	1/2	4,832.40	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,874.09	3/4	4,207.02	3/4	4,520.05	3/4	4,839.06	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,881.26	9	4,213.75	9	4,526.38	9	4,845.72	9	9	9	9	9	9	9	9	9	9	9	9
1/4	3,888.39	1/4	4,220.45	1/4	4,532.67	1/4	4,851.02	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,895.52	1/2	4,227.16	1/2	4,538.96	1/2	4,856.31	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,902.65	3/4	4,233.86	3/4	4,545.25	3/4	4,861.60	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,909.78	10	4,240.56	10	4,551.54	10	4,866.90	10	10	10	10	10	10	10	10	10	10	10	10
1/4	3,916.87	1/4	4,247.23	1/4	4,557.79	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,923.97	1/2	4,253.89	1/2	4,564.05	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,931.06	3/4	4,260.56	3/4	4,570.31	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
11	3,938.16	11	4,267.23	11	4,576.56	11		11		11		11		11		11		11	
1/4	3,945.20	1/4	4,273.86	1/4	4,582.78	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,952.25	1/2	4,280.49	1/2	4,589.00	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,959.29	3/4	4,287.13	3/4	4,595.23	3/4		3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 02/29/2016 SW
CALCULATED: 03/01/2016 CL
PRINTED: 03/01/2016 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 03/2016

PRECISION MEASUREMENT
& ANALYSIS, INC.
P.O. Box 2092
Pearland, Texas 77588
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BARGE "EMS 399"

1 STBD INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-04 1/2"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	4.24	0	300.25	0	647.59	0	1,006.57	0	1,365.86	0	1,725.70	0	2,085.54	0	2,445.38	0	2,805.22	0	3,165.06
1/4	8.05	1/4	307.11	1/4	655.07	1/4	1,014.05	1/4	1,373.35	1/4	1,733.19	1/4	2,093.04	1/4	2,452.88	1/4	2,812.72	1/4	3,172.56
1/2	11.86	1/2	313.96	1/2	662.55	1/2	1,021.52	1/2	1,380.85	1/2	1,740.69	1/2	2,100.53	1/2	2,460.37	1/2	2,820.22	1/2	3,180.06
3/4	15.67	3/4	320.82	3/4	670.04	3/4	1,028.99	3/4	1,388.35	3/4	1,748.19	3/4	2,108.03	3/4	2,467.87	3/4	2,827.71	3/4	3,187.55
1	19.48	1	327.68	1	677.52	1	1,036.47	1	1,395.84	1	1,755.68	1	2,115.53	1	2,475.37	1	2,835.21	1	3,195.05
1/4	25.25	1/4	334.61	1/4	685.00	1/4	1,043.94	1/4	1,403.34	1/4	1,763.18	1/4	2,123.02	1/4	2,482.86	1/4	2,842.71	1/4	3,202.55
1/2	31.01	1/2	341.54	1/2	692.48	1/2	1,051.41	1/2	1,410.84	1/2	1,770.68	1/2	2,130.52	1/2	2,490.36	1/2	2,850.20	1/2	3,210.04
3/4	36.77	3/4	348.47	3/4	699.96	3/4	1,058.89	3/4	1,418.33	3/4	1,778.17	3/4	2,138.02	3/4	2,497.86	3/4	2,857.70	3/4	3,217.54
2	42.53	2	355.41	2	707.44	2	1,066.36	2	1,425.83	2	1,785.67	2	2,145.51	2	2,505.35	2	2,865.20	2	3,225.04
1/4	48.63	1/4	362.41	1/4	714.93	1/4	1,073.83	1/4	1,433.33	1/4	1,793.17	1/4	2,153.01	1/4	2,512.85	1/4	2,872.69	1/4	3,232.53
1/2	54.74	1/2	369.42	1/2	722.41	1/2	1,081.31	1/2	1,440.82	1/2	1,800.66	1/2	2,160.51	1/2	2,520.35	1/2	2,880.19	1/2	3,240.03
3/4	60.84	3/4	376.43	3/4	729.89	3/4	1,088.78	3/4	1,448.32	3/4	1,808.16	3/4	2,168.00	3/4	2,527.84	3/4	2,887.69	3/4	3,247.53
3	66.95	3	383.44	3	737.37	3	1,096.25	3	1,455.82	3	1,815.66	3	2,175.50	3	2,535.34	3	2,895.18	3	3,255.02
1/4	73.13	1/4	390.52	1/4	744.85	1/4	1,103.73	1/4	1,463.31	1/4	1,823.15	1/4	2,183.00	1/4	2,542.84	1/4	2,902.68	1/4	3,262.52
1/2	79.31	1/2	397.60	1/2	752.33	1/2	1,111.20	1/2	1,470.81	1/2	1,830.65	1/2	2,190.49	1/2	2,550.33	1/2	2,910.18	1/2	3,270.02
3/4	85.49	3/4	404.68	3/4	759.81	3/4	1,118.67	3/4	1,478.31	3/4	1,838.15	3/4	2,197.99	3/4	2,557.83	3/4	2,917.67	3/4	3,277.51
4	91.67	4	411.77	4	767.30	4	1,126.15	4	1,485.80	4	1,845.65	4	2,205.49	4	2,565.33	4	2,925.17	4	3,285.01
1/4	97.92	1/4	418.92	1/4	774.78	1/4	1,133.62	1/4	1,493.30	1/4	1,853.14	1/4	2,212.98	1/4	2,572.83	1/4	2,932.67	1/4	3,292.51
1/2	104.18	1/2	426.08	1/2	782.26	1/2	1,141.09	1/2	1,500.80	1/2	1,860.64	1/2	2,220.48	1/2	2,580.32	1/2	2,940.16	1/2	3,300.00
3/4	110.43	3/4	433.24	3/4	789.74	3/4	1,148.57	3/4	1,508.29	3/4	1,868.14	3/4	2,227.98	3/4	2,587.82	3/4	2,947.66	3/4	3,307.50
5	116.69	5	440.40	5	797.22	5	1,156.04	5	1,515.79	5	1,875.63	5	2,235.47	5	2,595.32	5	2,955.16	5	3,315.00
1/4	123.02	1/4	447.63	1/4	804.72	1/4	1,163.52	1/4	1,523.29	1/4	1,883.13	1/4	2,242.97	1/4	2,602.81	1/4	2,962.65	1/4	3,322.50
1/2	129.35	1/2	454.86	1/2	812.22	1/2	1,170.99	1/2	1,530.78	1/2	1,890.63	1/2	2,250.47	1/2	2,610.31	1/2	2,970.15	1/2	3,329.99
3/4	135.68	3/4	462.10	3/4	819.71	3/4	1,178.46	3/4	1,538.28	3/4	1,898.12	3/4	2,257.96	3/4	2,617.81	3/4	2,977.65	3/4	3,337.49
6	142.01	6	469.33	6	827.21	6	1,185.94	6	1,545.78	6	1,905.62	6	2,265.46	6	2,625.30	6	2,985.14	6	3,344.99
1/4	148.41	1/4	476.64	1/4	834.68	1/4	1,193.43	1/4	1,553.27	1/4	1,913.12	1/4	2,272.96	1/4	2,632.80	1/4	2,992.64	1/4	3,352.48
1/2	154.82	1/2	483.94	1/2	842.15	1/2	1,200.93	1/2	1,560.77	1/2	1,920.61	1/2	2,280.45	1/2	2,640.30	1/2	3,000.14	1/2	3,359.98
3/4	161.22	3/4	491.25	3/4	849.63	3/4	1,208.43	3/4	1,568.27	3/4	1,928.11	3/4	2,287.95	3/4	2,647.79	3/4	3,007.63	3/4	3,367.48
7	167.63	7	498.56	7	857.10	7	1,215.92	7	1,575.76	7	1,935.61	7	2,295.45	7	2,655.29	7	3,015.13	7	3,374.97
1/4	174.11	1/4	505.93	1/4	864.57	1/4	1,223.42	1/4	1,583.26	1/4	1,943.10	1/4	2,302.94	1/4	2,662.79	1/4	3,022.63	1/4	3,382.47
1/2	180.59	1/2	513.30	1/2	872.05	1/2	1,230.92	1/2	1,590.76	1/2	1,950.60	1/2	2,310.44	1/2	2,670.28	1/2	3,030.12	1/2	3,389.97
3/4	187.07	3/4	520.67	3/4	879.52	3/4	1,238.41	3/4	1,598.25	3/4	1,958.10	3/4	2,317.94	3/4	2,677.78	3/4	3,037.62	3/4	3,397.46
8	193.55	8	528.04	8	887.00	8	1,245.91	8	1,605.75	8	1,965.59	8	2,325.43	8	2,685.28	8	3,045.12	8	3,404.96
1/4	200.11	1/4	535.48	1/4	894.47	1/4	1,253.41	1/4	1,613.25	1/4	1,973.09	1/4	2,332.93	1/4	2,692.77	1/4	3,052.61	1/4	3,412.46
1/2	206.66	1/2	542.92	1/2	901.94	1/2	1,260.90	1/2	1,620.74	1/2	1,980.59	1/2	2,340.43	1/2	2,700.27	1/2	3,060.11	1/2	3,419.95
3/4	213.22	3/4	550.37	3/4	909.42	3/4	1,268.40	3/4	1,628.24	3/4	1,988.08	3/4	2,347.92	3/4	2,707.77	3/4	3,067.61	3/4	3,427.45
9	219.77	9	557.81	9	916.89	9	1,275.90	9	1,635.74	9	1,995.58	9	2,355.42	9	2,715.26	9	3,075.10	9	3,434.95
1/4	226.41	1/4	565.29	1/4	924.36	1/4	1,283.39	1/4	1,643.23	1/4	2,003.08	1/4	2,362.92	1/4	2,722.76	1/4	3,082.60	1/4	3,442.44
1/2	233.04	1/2	572.77	1/2	931.84	1/2	1,290.89	1/2	1,650.73	1/2	2,010.57	1/2	2,370.41	1/2	2,730.26	1/2	3,090.10	1/2	3,449.94
3/4	239.67	3/4	580.26	3/4	939.31	3/4	1,298.39	3/4	1,658.23	3/4	2,018.07	3/4	2,377.91	3/4	2,737.75	3/4	3,097.59	3/4	3,457.44
10	246.30	10	587.74	10	946.78	10	1,305.88	10	1,665.72	10	2,025.57	10	2,385.41	10	2,745.25	10	3,105.09	10	3,464.93
1/4	253.01	1/4	595.22	1/4	954.26	1/4	1,313.38	1/4	1,673.22	1/4	2,033.06	1/4	2,392.90	1/4	2,752.75	1/4	3,112.59	1/4	3,472.41
1/2	259.71	1/2	602.70	1/2	961.73	1/2	1,320.88	1/2	1,680.72	1/2	2,040.56	1/2	2,400.40	1/2	2,760.24	1/2	3,120.08	1/2	3,479.88
3/4	266.42	3/4	610.18	3/4	969.20	3/4	1,328.37	3/4	1,688.21	3/4	2,048.06	3/4	2,407.90	3/4	2,767.74	3/4	3,127.58	3/4	3,487.36
11	273.12	11	617.66	11	976.68	11	1,335.87	11	1,695.71	11	2,055.55	11	2,415.39	11	2,775.24	11	3,135.08	11	3,494.83
1/4	279.91	1/4	625.15	1/4	984.15	1/4	1,343.37	1/4	1,703.21	1/4	2,063.05	1/4	2,422.89	1/4	2,782.73	1/4	3,142.57	1/4	3,502.28
1/2	286.69	1/2	632.63	1/2	991.62	1/2	1,350.86	1/2	1,710.70	1/2	2,070.55	1/2	2,430.39	1/2	2,790.23	1/2	3,150.07	1/2	3,509.72
3/4	293.47	3/4	640.11	3/4	999.10	3/4	1,358.36	3/4	1,718.20	3/4	2,078.04	3/4	2,437.88	3/4	2,797.73	3/4	3,157.57	3/4	3,517.17

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 INNAGE GAUGES TAKEN AT 2" DIAMETER "HERMETIC" VALVE
 GAUGE POINT: (HERMETIC) LOCATED 12'-06" OFF CENTERLINE AND 51'-00" FORWARD OF AFT BULKHEAD

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



BARGE "EMS 399"

**1 STBD
INNAGE TABLE**

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-04 1/2"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	3,524.61	0	3,871.22	0	4,197.34	0	4,503.72	0		0		0		0		0		0	
1/4	3,532.02	1/4	3,878.21	1/4	4,203.91	1/4	4,509.88	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,539.43	1/2	3,885.19	1/2	4,210.48	1/2	4,516.04	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,546.84	3/4	3,892.17	3/4	4,217.06	3/4	4,522.20	3/4		3/4		3/4		3/4		3/4		3/4	
1	3,554.26	1	3,899.15	1	4,223.63	1	4,528.36	1	1	1	1	1	1	1	1	1	1	1	1
1/4	3,561.63	1/4	3,906.10	1/4	4,230.16	1/4	4,534.49	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,569.01	1/2	3,913.05	1/2	4,236.70	1/2	4,540.62	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,576.39	3/4	3,920.00	3/4	4,243.24	3/4	4,546.74	3/4		3/4		3/4		3/4		3/4		3/4	
2	3,583.76	2	3,926.95	2	4,249.78	2	4,552.87	2	2	2	2	2	2	2	2	2	2	2	2
1/4	3,591.10	1/4	3,933.86	1/4	4,256.28	1/4	4,558.96	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,598.45	1/2	3,940.78	1/2	4,262.78	1/2	4,565.05	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,605.79	3/4	3,947.69	3/4	4,269.28	3/4	4,571.14	3/4		3/4		3/4		3/4		3/4		3/4	
3	3,613.13	3	3,954.60	3	4,275.79	3	4,577.24	3	3	3	3	3	3	3	3	3	3	3	3
1/4	3,620.44	1/4	3,961.48	1/4	4,282.26	1/4	4,583.29	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,627.75	1/2	3,968.36	1/2	4,288.72	1/2	4,589.35	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,635.06	3/4	3,975.24	3/4	4,295.19	3/4	4,595.41	3/4		3/4		3/4		3/4		3/4		3/4	
4	3,642.36	4	3,982.12	4	4,301.66	4	4,601.47	4	4	4	4	4	4	4	4	4	4	4	4
1/4	3,649.64	1/4	3,988.97	1/4	4,308.10	1/4	4,608.94	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,656.91	1/2	3,995.81	1/2	4,314.53	1/2	4,616.42	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,664.19	3/4	4,002.66	3/4	4,320.96	3/4	4,623.90	3/4		3/4		3/4		3/4		3/4		3/4	
5	3,671.46	5	4,009.50	5	4,327.40	5	4,631.38	5	5	5	5	5	5	5	5	5	5	5	5
1/4	3,678.70	1/4	4,016.32	1/4	4,333.80	1/4	4,638.86	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,685.94	1/2	4,023.13	1/2	4,340.20	1/2	4,646.34	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,693.18	3/4	4,029.94	3/4	4,346.60	3/4	4,653.82	3/4		3/4		3/4		3/4		3/4		3/4	
6	3,700.42	6	4,036.75	6	4,353.00	6	4,661.30	6	6	6	6	6	6	6	6	6	6	6	6
1/4	3,707.62	1/4	4,043.53	1/4	4,359.37	1/4	4,668.78	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,714.83	1/2	4,050.30	1/2	4,365.73	1/2	4,676.26	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,722.04	3/4	4,057.08	3/4	4,372.10	3/4	4,683.74	3/4		3/4		3/4		3/4		3/4		3/4	
7	3,729.24	7	4,063.86	7	4,378.46	7	4,691.22	7	7	7	7	7	7	7	7	7	7	7	7
1/4	3,736.41	1/4	4,070.60	1/4	4,384.79	1/4	4,698.54	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,743.58	1/2	4,077.34	1/2	4,391.13	1/2	4,705.85	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,750.75	3/4	4,084.09	3/4	4,397.46	3/4	4,713.17	3/4		3/4		3/4		3/4		3/4		3/4	
8	3,757.93	8	4,090.83	8	4,403.79	8	4,720.49	8	8	8	8	8	8	8	8	8	8	8	8
1/4	3,765.06	1/4	4,097.54	1/4	4,410.09	1/4	4,727.13	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,772.20	1/2	4,104.25	1/2	4,416.38	1/2	4,733.77	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,779.34	3/4	4,110.95	3/4	4,422.68	3/4	4,740.41	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,786.47	9	4,117.66	9	4,428.98	9	4,747.04	9	9	9	9	9	9	9	9	9	9	9	9
1/4	3,793.58	1/4	4,124.34	1/4	4,435.24	1/4	4,752.32	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,800.68	1/2	4,131.01	1/2	4,441.50	1/2	4,757.59	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,807.78	3/4	4,137.68	3/4	4,447.77	3/4	4,762.86	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,814.88	10	4,144.36	10	4,454.03	10	4,768.14	10	10	10	10	10	10	10	10	10	10	10	10
1/4	3,821.95	1/4	4,151.00	1/4	4,460.26	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,829.02	1/2	4,157.64	1/2	4,466.49	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,836.09	3/4	4,164.28	3/4	4,472.72	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
11	3,843.16	11	4,170.92	11	4,478.95	11		11		11		11		11		11		11	
1/4	3,850.17	1/4	4,177.52	1/4	4,485.14	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,857.19	1/2	4,184.13	1/2	4,491.33	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,864.21	3/4	4,190.74	3/4	4,497.53	3/4		3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 02/29/2016 SW
CALCULATED: 03/01/2016 CL
PRINTED: 03/01/2016 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 03/2016

PRECISION MEASUREMENT
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P.O. Box 2092
Pearland, Texas 77588
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BARGE "EMS 399"

1 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-04 1/2"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	4.23	0	299.98	0	647.02	0	1,006.23	0	1,365.75	0	1,725.26	0	2,084.78	0	2,444.29	0	2,803.81	0	3,163.32
1/4	8.04	1/4	306.83	1/4	654.49	1/4	1,013.72	1/4	1,373.24	1/4	1,732.75	1/4	2,092.27	1/4	2,451.78	1/4	2,811.30	1/4	3,170.81
1/2	11.85	1/2	313.69	1/2	661.97	1/2	1,021.21	1/2	1,380.73	1/2	1,740.24	1/2	2,099.76	1/2	2,459.27	1/2	2,818.79	1/2	3,178.30
3/4	15.66	3/4	320.54	3/4	669.44	3/4	1,028.70	3/4	1,388.22	3/4	1,747.73	3/4	2,107.25	3/4	2,466.76	3/4	2,826.28	3/4	3,185.79
1	19.47	1	327.39	1	676.92	1	1,036.19	1	1,395.71	1	1,755.22	1	2,114.74	1	2,474.25	1	2,833.77	1	3,193.28
1/4	25.22	1/4	334.31	1/4	684.39	1/4	1,043.68	1/4	1,403.20	1/4	1,762.71	1/4	2,122.23	1/4	2,481.74	1/4	2,841.26	1/4	3,200.77
1/2	30.98	1/2	341.24	1/2	691.87	1/2	1,051.17	1/2	1,410.69	1/2	1,770.20	1/2	2,129.72	1/2	2,489.23	1/2	2,848.75	1/2	3,208.26
3/4	36.74	3/4	348.17	3/4	699.34	3/4	1,058.66	3/4	1,418.18	3/4	1,777.69	3/4	2,137.21	3/4	2,496.72	3/4	2,856.24	3/4	3,215.75
2	42.49	2	355.09	2	706.81	2	1,066.15	2	1,425.67	2	1,785.18	2	2,144.70	2	2,504.21	2	2,863.73	2	3,223.24
1/4	48.59	1/4	362.09	1/4	714.29	1/4	1,073.64	1/4	1,433.16	1/4	1,792.67	1/4	2,152.19	1/4	2,511.70	1/4	2,871.22	1/4	3,230.73
1/2	54.69	1/2	369.09	1/2	721.76	1/2	1,081.13	1/2	1,440.65	1/2	1,800.16	1/2	2,159.68	1/2	2,519.19	1/2	2,878.71	1/2	3,238.22
3/4	60.79	3/4	376.09	3/4	729.24	3/4	1,088.62	3/4	1,448.14	3/4	1,807.65	3/4	2,167.17	3/4	2,526.68	3/4	2,886.20	3/4	3,245.71
3	66.89	3	383.10	3	736.71	3	1,096.11	3	1,455.62	3	1,815.14	3	2,174.66	3	2,534.17	3	2,893.69	3	3,253.20
1/4	73.06	1/4	390.17	1/4	744.19	1/4	1,103.60	1/4	1,463.11	1/4	1,822.63	1/4	2,182.15	1/4	2,541.66	1/4	2,901.18	1/4	3,260.69
1/2	79.24	1/2	397.25	1/2	751.66	1/2	1,111.09	1/2	1,470.60	1/2	1,830.12	1/2	2,189.64	1/2	2,549.15	1/2	2,908.67	1/2	3,268.18
3/4	85.41	3/4	404.32	3/4	759.14	3/4	1,118.58	3/4	1,478.09	3/4	1,837.61	3/4	2,197.13	3/4	2,556.64	3/4	2,916.16	3/4	3,275.67
4	91.58	4	411.40	4	766.61	4	1,126.07	4	1,485.58	4	1,845.10	4	2,204.61	4	2,564.13	4	2,923.65	4	3,283.16
1/4	97.83	1/4	418.55	1/4	774.09	1/4	1,133.56	1/4	1,493.07	1/4	1,852.59	1/4	2,212.10	1/4	2,571.62	1/4	2,931.14	1/4	3,290.65
1/2	104.08	1/2	425.70	1/2	781.56	1/2	1,141.05	1/2	1,500.56	1/2	1,860.08	1/2	2,219.59	1/2	2,579.11	1/2	2,938.63	1/2	3,298.14
3/4	110.33	3/4	432.85	3/4	789.04	3/4	1,148.54	3/4	1,508.05	3/4	1,867.57	3/4	2,227.08	3/4	2,586.60	3/4	2,946.12	3/4	3,305.63
5	116.58	5	440.01	5	796.51	5	1,156.03	5	1,515.54	5	1,875.06	5	2,234.57	5	2,594.09	5	2,953.60	5	3,313.12
1/4	122.91	1/4	447.23	1/4	804.00	1/4	1,163.52	1/4	1,523.03	1/4	1,882.55	1/4	2,242.06	1/4	2,601.58	1/4	2,961.09	1/4	3,320.61
1/2	129.23	1/2	454.46	1/2	811.49	1/2	1,171.01	1/2	1,530.52	1/2	1,890.04	1/2	2,249.55	1/2	2,609.07	1/2	2,968.58	1/2	3,328.10
3/4	135.56	3/4	461.69	3/4	818.98	3/4	1,178.50	3/4	1,538.01	3/4	1,897.53	3/4	2,257.04	3/4	2,616.56	3/4	2,976.07	3/4	3,335.59
6	141.88	6	468.91	6	826.47	6	1,185.99	6	1,545.50	6	1,905.02	6	2,264.53	6	2,624.05	6	2,983.56	6	3,343.08
1/4	148.28	1/4	476.21	1/4	833.96	1/4	1,193.48	1/4	1,552.99	1/4	1,912.51	1/4	2,272.02	1/4	2,631.54	1/4	2,991.05	1/4	3,350.57
1/2	154.68	1/2	483.52	1/2	841.45	1/2	1,200.97	1/2	1,560.48	1/2	1,920.00	1/2	2,279.51	1/2	2,639.03	1/2	2,998.54	1/2	3,358.06
3/4	161.08	3/4	490.82	3/4	848.94	3/4	1,208.46	3/4	1,567.97	3/4	1,927.49	3/4	2,287.00	3/4	2,646.52	3/4	3,006.03	3/4	3,365.55
7	167.48	7	498.12	7	856.43	7	1,215.95	7	1,575.46	7	1,934.98	7	2,294.49	7	2,654.01	7	3,013.52	7	3,373.04
1/4	173.95	1/4	505.48	1/4	863.92	1/4	1,223.44	1/4	1,582.95	1/4	1,942.47	1/4	2,301.98	1/4	2,661.50	1/4	3,021.01	1/4	3,380.53
1/2	180.43	1/2	512.84	1/2	871.41	1/2	1,230.93	1/2	1,590.44	1/2	1,949.96	1/2	2,309.47	1/2	2,668.99	1/2	3,028.50	1/2	3,388.02
3/4	186.90	3/4	520.21	3/4	878.90	3/4	1,238.42	3/4	1,597.93	3/4	1,957.45	3/4	2,316.96	3/4	2,676.48	3/4	3,035.99	3/4	3,395.51
8	193.38	8	527.57	8	886.39	8	1,245.91	8	1,605.42	8	1,964.94	8	2,324.45	8	2,683.97	8	3,043.48	8	3,403.00
1/4	199.93	1/4	535.01	1/4	893.88	1/4	1,253.40	1/4	1,612.91	1/4	1,972.43	1/4	2,331.94	1/4	2,691.46	1/4	3,050.97	1/4	3,410.49
1/2	206.48	1/2	542.44	1/2	901.37	1/2	1,260.89	1/2	1,620.40	1/2	1,979.92	1/2	2,339.43	1/2	2,698.95	1/2	3,058.46	1/2	3,417.98
3/4	213.03	3/4	549.88	3/4	908.86	3/4	1,268.38	3/4	1,627.89	3/4	1,987.41	3/4	2,346.92	3/4	2,706.44	3/4	3,065.95	3/4	3,425.47
9	219.58	9	557.32	9	916.35	9	1,275.87	9	1,635.38	9	1,994.90	9	2,354.41	9	2,713.93	9	3,073.44	9	3,432.96
1/4	226.20	1/4	564.79	1/4	923.84	1/4	1,283.36	1/4	1,642.87	1/4	2,002.39	1/4	2,361.90	1/4	2,721.42	1/4	3,080.93	1/4	3,440.45
1/2	232.83	1/2	572.27	1/2	931.33	1/2	1,290.85	1/2	1,650.36	1/2	2,009.88	1/2	2,369.39	1/2	2,728.91	1/2	3,088.42	1/2	3,447.94
3/4	239.45	3/4	579.74	3/4	938.82	3/4	1,298.34	3/4	1,657.85	3/4	2,017.37	3/4	2,376.88	3/4	2,736.40	3/4	3,095.91	3/4	3,455.43
10	246.08	10	587.22	10	946.31	10	1,305.83	10	1,665.34	10	2,024.86	10	2,384.37	10	2,743.89	10	3,103.40	10	3,462.92
1/4	252.78	1/4	594.69	1/4	953.80	1/4	1,313.32	1/4	1,672.83	1/4	2,032.35	1/4	2,391.86	1/4	2,751.38	1/4	3,110.89	1/4	3,470.40
1/2	259.48	1/2	602.17	1/2	961.29	1/2	1,320.81	1/2	1,680.32	1/2	2,039.84	1/2	2,399.35	1/2	2,758.87	1/2	3,118.38	1/2	3,477.88
3/4	266.18	3/4	609.64	3/4	968.78	3/4	1,328.30	3/4	1,687.81	3/4	2,047.33	3/4	2,406.84	3/4	2,766.36	3/4	3,125.87	3/4	3,485.36
11	272.88	11	617.12	11	976.27	11	1,335.79	11	1,695.30	11	2,054.82	11	2,414.33	11	2,773.85	11	3,133.36	11	3,492.84
1/4	279.66	1/4	624.59	1/4	983.76	1/4	1,343.28	1/4	1,702.79	1/4	2,062.31	1/4	2,421.82	1/4	2,781.34	1/4	3,140.85	1/4	3,500.27
1/2	286.43	1/2	632.07	1/2	991.25	1/2	1,350.77	1/2	1,710.28	1/2	2,069.80	1/2	2,429.31	1/2	2,788.83	1/2	3,148.34	1/2	3,507.71
3/4	293.21	3/4	639.54	3/4	998.74	3/4	1,358.26	3/4	1,717.77	3/4	2,077.29	3/4	2,436.80	3/4	2,796.32	3/4	3,155.83	3/4	3,515.15

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 INNAGE GAUGES TAKEN AT 2" DIAMETER "HERMETIC" VALVE
 GAUGE POINT: (HERMETIC) LOCATED 12'-06" OFF CENTERLINE AND 51'-00" FORWARD OF AFT BULKHEAD

PRECISION MEASUREMENT
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BARGE "EMS 399"

1 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-04 1/2"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	3,522.59	0	3,868.90	0	4,194.72	0	4,500.83	0		0		0		0		0		0	
1/4	3,529.99	1/4	3,875.87	1/4	4,201.29	1/4	4,506.99	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,537.40	1/2	3,882.85	1/2	4,207.85	1/2	4,513.14	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,544.80	3/4	3,889.82	3/4	4,214.42	3/4	4,519.30	3/4		3/4		3/4		3/4		3/4		3/4	
1	3,552.21	1	3,896.80	1	4,220.99	1	4,525.45	1	1	1	1	1	1	1	1	1	1	1	1
1/4	3,559.58	1/4	3,903.74	1/4	4,227.52	1/4	4,531.57	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,566.95	1/2	3,910.69	1/2	4,234.05	1/2	4,537.69	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,574.32	3/4	3,917.63	3/4	4,240.58	3/4	4,543.82	3/4		3/4		3/4		3/4		3/4		3/4	
2	3,581.69	2	3,924.57	2	4,247.11	2	4,549.94	2	2	2	2	2	2	2	2	2	2	2	2
1/4	3,589.02	1/4	3,931.48	1/4	4,253.61	1/4	4,556.02	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,596.36	1/2	3,938.39	1/2	4,260.11	1/2	4,562.11	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,603.70	3/4	3,945.29	3/4	4,266.60	3/4	4,568.19	3/4		3/4		3/4		3/4		3/4		3/4	
3	3,611.03	3	3,952.20	3	4,273.10	3	4,574.28	3	3	3	3	3	3	3	3	3	3	3	3
1/4	3,618.33	1/4	3,959.07	1/4	4,279.56	1/4	4,580.33	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,625.64	1/2	3,965.95	1/2	4,286.03	1/2	4,586.38	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,632.94	3/4	3,972.82	3/4	4,292.49	3/4	4,592.44	3/4		3/4		3/4		3/4		3/4		3/4	
4	3,640.24	4	3,979.70	4	4,298.95	4	4,598.49	4	4	4	4	4	4	4	4	4	4	4	4
1/4	3,647.51	1/4	3,986.53	1/4	4,305.38	1/4	4,605.96	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,654.77	1/2	3,993.37	1/2	4,311.81	1/2	4,613.43	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,662.04	3/4	4,000.21	3/4	4,318.24	3/4	4,620.91	3/4		3/4		3/4		3/4		3/4		3/4	
5	3,669.31	5	4,007.05	5	4,324.67	5	4,628.38	5	5	5	5	5	5	5	5	5	5	5	5
1/4	3,676.54	1/4	4,013.86	1/4	4,331.06	1/4	4,635.85	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,683.78	1/2	4,020.66	1/2	4,337.45	1/2	4,643.33	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,691.01	3/4	4,027.47	3/4	4,343.85	3/4	4,650.80	3/4		3/4		3/4		3/4		3/4		3/4	
6	3,698.24	6	4,034.27	6	4,350.24	6	4,658.27	6	6	6	6	6	6	6	6	6	6	6	6
1/4	3,705.44	1/4	4,041.05	1/4	4,356.60	1/4	4,665.74	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,712.64	1/2	4,047.82	1/2	4,362.96	1/2	4,673.22	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,719.84	3/4	4,054.59	3/4	4,369.32	3/4	4,680.69	3/4		3/4		3/4		3/4		3/4		3/4	
7	3,727.04	7	4,061.36	7	4,375.68	7	4,688.16	7	7	7	7	7	7	7	7	7	7	7	7
1/4	3,734.20	1/4	4,068.09	1/4	4,382.01	1/4	4,695.47	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,741.37	1/2	4,074.83	1/2	4,388.34	1/2	4,702.78	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,748.53	3/4	4,081.57	3/4	4,394.66	3/4	4,710.10	3/4		3/4		3/4		3/4		3/4		3/4	
8	3,755.70	8	4,088.30	8	4,400.99	8	4,717.41	8	8	8	8	8	8	8	8	8	8	8	8
1/4	3,762.83	1/4	4,095.01	1/4	4,407.28	1/4	4,724.04	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,769.96	1/2	4,101.71	1/2	4,413.57	1/2	4,730.67	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,777.09	3/4	4,108.41	3/4	4,419.86	3/4	4,737.31	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,784.22	9	4,115.11	9	4,426.15	9	4,743.94	9	9	9	9	9	9	9	9	9	9	9	9
1/4	3,791.32	1/4	4,121.78	1/4	4,432.41	1/4	4,749.21	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,798.41	1/2	4,128.45	1/2	4,438.67	1/2	4,754.48	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,805.51	3/4	4,135.12	3/4	4,444.93	3/4	4,759.74	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,812.60	10	4,141.79	10	4,451.18	10	4,765.01	10	10	10	10	10	10	10	10	10	10	10	10
1/4	3,819.67	1/4	4,148.42	1/4	4,457.41	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,826.73	1/2	4,155.06	1/2	4,463.63	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,833.79	3/4	4,161.69	3/4	4,469.85	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
11	3,840.85	11	4,168.32	11	4,476.08	11		11	11	11	11	11	11	11	11	11	11	11	11
1/4	3,847.86	1/4	4,174.92	1/4	4,482.27	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,854.87	1/2	4,181.52	1/2	4,488.46	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,861.88	3/4	4,188.12	3/4	4,494.65	3/4		3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 02/29/2016 SW
CALCULATED: 03/01/2016 CL
PRINTED: 03/01/2016 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 03/2016

PRECISION MEASUREMENT
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BARGE "EMS 399"

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	00-3/8	- 00-3/8	00-3/4	- 00-3/4	01-1/8	- 01-1/8	01-1/2	- 01-1/2	02-0/8	- 02-0/8	02-3/8	- 02-3/8
1 STBD	00-3/8	- 00-3/8	00-3/4	- 00-3/4	01-1/8	- 01-1/8	01-1/2	- 01-1/2	02-0/8	- 02-0/8	02-3/8	- 02-3/8
2 PORT	00-3/8	- 00-3/8	00-3/4	- 00-3/4	01-1/8	- 01-1/8	01-1/2	- 01-1/2	01-7/8	- 01-7/8	02-1/4	- 02-1/4
2 STBD	00-3/8	- 00-3/8	00-3/4	- 00-3/4	01-1/8	- 01-1/8	01-1/2	- 01-1/2	01-7/8	- 01-7/8	02-1/4	- 02-1/4
3 PORT	00-0/8	- 00-0/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/4	- 00-1/4	00-1/4	- 00-1/4	00-3/8	- 00-3/8
3 STBD	00-0/8	- 00-0/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/4	- 00-1/4	00-1/4	- 00-1/4	00-3/8	- 00-3/8

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

LENGTH BETWEEN DRAFT MARKS: 245'-00"

March 1, 2016

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



BARGE "EMS 399"

3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-04 3/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.		
0	0	0	0	0	0	0	4,471.08	0	4,227.93	0	3,969.41	0	3,690.71	0	3,382.21	0	3,021.07	0	2,660.03		
1/4		1/4		1/4		1/4	4,464.85	1/4	4,222.75	1/4	3,963.81	1/4	3,684.68	1/4	3,374.67	1/4	3,013.55	1/4	2,652.51		
1/2		1/2		1/2		1/2	4,458.62	1/2	4,217.56	1/2	3,958.21	1/2	3,678.65	1/2	3,367.14	1/2	3,006.03	1/2	2,644.99		
3/4		3/4		3/4		3/4	4,452.38	3/4	4,212.37	3/4	3,952.61	3/4	3,672.62	3/4	3,359.60	3/4	2,998.50	3/4	2,637.47		
1	1	1	1	1	1	1	4,447.57	1	4,207.15	1	3,946.98	1	3,666.56	1	3,352.06	1	2,990.98	1	2,629.95		
1/4		1/4		1/4		1/4	4,442.76	1/4	4,201.92	1/4	3,941.34	1/4	3,660.50	1/4	3,344.53	1/4	2,983.46	1/4	2,622.42		
1/2		1/2		1/2		1/2	4,437.95	1/2	4,196.70	1/2	3,935.71	1/2	3,654.44	1/2	3,336.99	1/2	2,975.94	1/2	2,614.90		
3/4		3/4		3/4		3/4	4,433.13	3/4	4,191.48	3/4	3,930.07	3/4	3,648.37	3/4	3,329.45	3/4	2,968.42	3/4	2,607.38		
2	2	2	2	2	2	2	4,428.29	2	4,186.22	2	3,924.40	2	3,642.28	2	3,321.93	2	2,960.90	2	2,599.86		
1/4		1/4		1/4		1/4	4,423.44	1/4	4,180.96	1/4	3,918.74	1/4	3,636.18	1/4	3,314.41	1/4	2,953.37	1/4	2,592.34		
1/2		1/2		1/2		1/2	4,418.60	1/2	4,175.70	1/2	3,913.07	1/2	3,630.08	1/2	3,306.89	1/2	2,945.85	1/2	2,584.82		
3/4		3/4		3/4		3/4	4,413.75	3/4	4,170.45	3/4	3,907.40	3/4	3,623.98	3/4	3,299.37	3/4	2,938.33	3/4	2,577.29		
3	3	3	3	3	3	3	4,408.87	3	4,165.15	3	3,901.69	3	3,617.85	3	3,291.85	3	2,930.81	3	2,569.77		
1/4		1/4		1/4		1/4	4,403.99	1/4	4,159.86	1/4	3,895.99	1/4	3,611.72	1/4	3,284.32	1/4	2,923.29	1/4	2,562.25		
1/2		1/2		1/2		1/2	4,399.11	1/2	4,154.57	1/2	3,890.29	1/2	3,605.59	1/2	3,276.80	1/2	2,915.77	1/2	2,554.73		
3/4		3/4		3/4		3/4	4,394.23	3/4	4,149.28	3/4	3,884.59	3/4	3,599.46	3/4	3,269.28	3/4	2,908.24	3/4	2,547.21		
4	4	4	4	4	4	4	4,389.31	4	4,143.95	4	3,878.85	4	3,593.29	4	3,261.76	4	2,900.72	4	2,539.69		
1/4		1/4		1/4		1/4	4,384.40	1/4	4,138.63	1/4	3,873.11	1/4	3,587.12	1/4	3,254.24	1/4	2,893.20	1/4	2,532.18		
1/2		1/2		1/2		1/2	4,379.49	1/2	4,133.30	1/2	3,867.37	1/2	3,580.96	1/2	3,246.72	1/2	2,885.68	1/2	2,524.66		
3/4		3/4		3/4		3/4	4,374.57	3/4	4,127.98	3/4	3,861.64	3/4	3,574.79	3/4	3,239.19	3/4	2,878.16	3/4	2,517.15		
5	5	5	5	5	5	5	4,369.62	5	4,122.62	5	3,855.87	5	3,568.59	5	3,231.67	5	2,870.64	5	2,509.63		
1/4		1/4		1/4		1/4	4,364.67	1/4	4,117.26	1/4	3,850.09	1/4	3,562.39	1/4	3,224.15	1/4	2,863.11	1/4	2,502.11		
1/2		1/2		1/2		1/2	4,359.72	1/2	4,111.90	1/2	3,844.32	1/2	3,556.19	1/2	3,216.63	1/2	2,855.59	1/2	2,494.60		
3/4		3/4		3/4		3/4	4,354.78	3/4	4,106.54	3/4	3,838.55	3/4	3,549.99	3/4	3,209.11	3/4	2,848.07	3/4	2,487.08		
6	6	6	6	6	6	6	4,349.79	6	4,101.14	6	3,832.73	6	3,543.76	6	3,201.59	6	2,840.55	6	2,479.57		
1/4		1/4		1/4		1/4	4,344.81	1/4	4,095.75	1/4	3,826.90	1/4	3,537.52	1/4	3,194.07	1/4	2,833.03	1/4	2,472.05		
1/2		1/2		1/2		1/2	4,339.83	1/2	4,090.35	1/2	3,821.08	1/2	3,531.29	1/2	3,186.54	1/2	2,825.51	1/2	2,464.54		
3/4		3/4		3/4		3/4	4,334.84	3/4	4,084.96	3/4	3,815.26	3/4	3,525.06	3/4	3,179.02	3/4	2,817.99	3/4	2,457.02		
7	7	7	7	7	7	7	4,589.10	7	4,329.83	7	4,079.53	7	3,809.40	7	3,518.80	7	3,171.50	7	2,810.46	7	2,449.50
1/4		1/4		1/4		1/4	4,581.07	1/4	4,324.81	1/4	4,074.10	1/4	3,803.54	1/4	3,512.55	1/4	3,163.98	1/4	2,802.94	1/4	2,441.99
1/2		1/2		1/2		1/2	4,577.05	1/2	4,319.79	1/2	4,068.67	1/2	3,797.69	1/2	3,506.30	1/2	3,156.46	1/2	2,795.42	1/2	2,434.47
3/4		3/4		3/4		3/4	4,573.03	3/4	4,314.77	3/4	4,063.24	3/4	3,791.83	3/4	3,500.05	3/4	3,148.94	3/4	2,787.90	3/4	2,426.96
8	8	8	8	8	8	8	4,567.65	8	4,309.72	8	4,057.78	8	3,785.94	8	3,493.80	8	3,141.41	8	2,780.38	8	2,419.44
1/4		1/4		1/4		1/4	4,562.26	1/4	4,304.67	1/4	4,052.32	1/4	3,780.05	1/4	3,487.54	1/4	3,133.89	1/4	2,772.86	1/4	2,411.93
1/2		1/2		1/2		1/2	4,556.87	1/2	4,299.62	1/2	4,046.85	1/2	3,774.15	1/2	3,481.29	1/2	3,126.37	1/2	2,765.33	1/2	2,404.41
3/4		3/4		3/4		3/4	4,551.48	3/4	4,294.57	3/4	4,041.39	3/4	3,768.26	3/4	3,475.04	3/4	3,118.85	3/4	2,757.81	3/4	2,396.90
9	9	9	9	9	9	9	4,545.41	9	4,289.48	9	4,035.89	9	3,762.34	9	3,468.79	9	3,111.33	9	2,750.29	9	2,389.38
1/4		1/4		1/4		1/4	4,539.34	1/4	4,284.39	1/4	4,030.40	1/4	3,756.41	1/4	3,462.54	1/4	3,103.81	1/4	2,742.77	1/4	2,381.86
1/2		1/2		1/2		1/2	4,533.27	1/2	4,279.31	1/2	4,024.90	1/2	3,750.48	1/2	3,456.29	1/2	3,096.28	1/2	2,735.25	1/2	2,374.35
3/4		3/4		3/4		3/4	4,527.19	3/4	4,274.22	3/4	4,019.40	3/4	3,744.56	3/4	3,450.03	3/4	3,088.76	3/4	2,727.73	3/4	2,366.83
10	10	10	10	10	10	10	4,520.96	10	4,269.10	10	4,013.87	10	3,738.60	10	3,442.50	10	3,081.24	10	2,720.20	10	2,359.32
1/4		1/4		1/4		1/4	4,514.72	1/4	4,263.98	1/4	4,008.34	1/4	3,732.64	1/4	3,434.96	1/4	3,073.72	1/4	2,712.68	1/4	2,351.80
1/2		1/2		1/2		1/2	4,508.49	1/2	4,258.86	1/2	4,002.81	1/2	3,726.68	1/2	3,427.43	1/2	3,066.20	1/2	2,705.16	1/2	2,344.29
3/4		3/4		3/4		3/4	4,502.26	3/4	4,253.74	3/4	3,997.27	3/4	3,720.72	3/4	3,419.89	3/4	3,058.68	3/4	2,697.64	3/4	2,336.77
11	11	11	11	11	11	11	4,496.02	11	4,248.59	11	3,991.71	11	3,714.72	11	3,412.35	11	3,051.15	11	2,690.12	11	2,329.26
1/4		1/4		1/4		1/4	4,489.79	1/4	4,243.43	1/4	3,986.14	1/4	3,708.73	1/4	3,404.82	1/4	3,043.63	1/4	2,682.60	1/4	2,321.74
1/2		1/2		1/2		1/2	4,483.55	1/2	4,238.28	1/2	3,980.58	1/2	3,702.73	1/2	3,397.28	1/2	3,036.11	1/2	2,675.07	1/2	2,314.22
3/4		3/4		3/4		3/4	4,477.32	3/4	4,233.12	3/4	3,975.01	3/4	3,696.74	3/4	3,389.74	3/4	3,028.59	3/4	2,667.55	3/4	2,306.71

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'-06" OFF CENTERLINE AND 44'-06" FORWARD OF AFT BULKHEAD

PRECISION MEASUREMENT
 & ANALYSIS, INC.
 P.O. Box 2092
 Pearland, Texas 77588
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BARGE "EMS 399"

3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-04 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	2,299.19	0	1,938.84	0	1,584.78	0	1,228.34	0	872.30	0	512.01	0	150.89	0		0		0	
1/4	2,291.66	1/4	1,931.47	1/4	1,577.35	1/4	1,220.91	1/4	864.89	1/4	504.48	1/4	143.37	1/4		1/4		1/4	
1/2	2,284.14	1/2	1,924.10	1/2	1,569.93	1/2	1,213.48	1/2	857.48	1/2	496.96	1/2	135.84	1/2		1/2		1/2	
3/4	2,276.62	3/4	1,916.73	3/4	1,562.50	3/4	1,206.06	3/4	850.07	3/4	489.43	3/4	128.32	3/4		3/4		3/4	
1	2,269.09	1	1,909.36	1	1,555.07	1	1,198.63	1	842.56	1	481.91	1	120.79	1		1		1	
1/4	2,261.57	1/4	1,901.99	1/4	1,547.65	1/4	1,191.21	1/4	835.05	1/4	474.38	1/4	113.27	1/4		1/4		1/4	
1/2	2,254.05	1/2	1,894.62	1/2	1,540.22	1/2	1,183.78	1/2	827.54	1/2	466.86	1/2	105.74	1/2		1/2		1/2	
3/4	2,246.52	3/4	1,887.25	3/4	1,532.80	3/4	1,176.35	3/4	820.03	3/4	459.34	3/4	98.22	3/4		3/4		3/4	
2	2,239.00	2	1,879.88	2	1,525.37	2	1,168.93	2	812.52	2	451.81	2	90.69	2		2		2	
1/4	2,231.48	1/4	1,872.50	1/4	1,517.95	1/4	1,161.50	1/4	805.01	1/4	444.29	1/4	83.17	1/4		1/4		1/4	
1/2	2,223.95	1/2	1,865.13	1/2	1,510.52	1/2	1,154.08	1/2	797.50	1/2	436.76	1/2	75.65	1/2		1/2		1/2	
3/4	2,216.43	3/4	1,857.76	3/4	1,503.09	3/4	1,146.65	3/4	789.99	3/4	429.24	3/4	68.12	3/4		3/4		3/4	
3	2,208.91	3	1,850.39	3	1,495.67	3	1,139.24	3	782.48	3	421.71	3	60.87	3		3		3	
1/4	2,201.38	1/4	1,843.02	1/4	1,488.24	1/4	1,131.82	1/4	774.97	1/4	414.19	1/4	53.61	1/4		1/4		1/4	
1/2	2,193.86	1/2	1,835.65	1/2	1,480.82	1/2	1,124.41	1/2	767.46	1/2	406.67	1/2	46.36	1/2		1/2		1/2	
3/4	2,186.34	3/4	1,828.28	3/4	1,473.39	3/4	1,117.00	3/4	759.95	3/4	399.14	3/4	39.10	3/4		3/4		3/4	
4	2,178.82	4	1,820.91	4	1,465.96	4	1,109.58	4	752.44	4	391.62	4	33.72	4		4		4	
1/4	2,171.29	1/4	1,813.54	1/4	1,458.54	1/4	1,102.17	1/4	744.93	1/4	384.09	1/4	28.33	1/4		1/4		1/4	
1/2	2,163.77	1/2	1,806.17	1/2	1,451.11	1/2	1,094.76	1/2	737.42	1/2	376.57	1/2	22.95	1/2		1/2		1/2	
3/4	2,156.25	3/4	1,798.80	3/4	1,443.69	3/4	1,087.34	3/4	729.91	3/4	369.04	3/4	17.57	3/4		3/4		3/4	
5	2,148.72	5	1,791.43	5	1,436.26	5	1,079.93	5	722.41	5	361.52	5		5		5		5	
1/4	2,141.20	1/4	1,784.06	1/4	1,428.83	1/4	1,072.52	1/4	714.90	1/4	354.00	1/4		1/4		1/4		1/4	
1/2	2,133.68	1/2	1,776.69	1/2	1,421.41	1/2	1,065.10	1/2	707.39	1/2	346.47	1/2		1/2		1/2		1/2	
3/4	2,126.15	3/4	1,769.32	3/4	1,413.98	3/4	1,057.69	3/4	699.88	3/4	338.95	3/4		3/4		3/4		3/4	
6	2,118.63	6	1,761.95	6	1,406.56	6	1,050.28	6	692.37	6	331.43	6		6		6		6	
1/4	2,111.11	1/4	1,754.58	1/4	1,399.13	1/4	1,042.86	1/4	684.86	1/4	323.91	1/4		1/4		1/4		1/4	
1/2	2,103.58	1/2	1,747.21	1/2	1,391.71	1/2	1,035.45	1/2	677.35	1/2	316.38	1/2		1/2		1/2		1/2	
3/4	2,096.06	3/4	1,739.84	3/4	1,384.28	3/4	1,028.04	3/4	669.84	3/4	308.86	3/4		3/4		3/4		3/4	
7	2,088.54	7	1,732.47	7	1,376.85	7	1,020.62	7	662.33	7	301.34	7		7		7		7	
1/4	2,081.02	1/4	1,725.09	1/4	1,369.43	1/4	1,013.21	1/4	654.82	1/4	293.82	1/4		1/4		1/4		1/4	
1/2	2,073.49	1/2	1,717.72	1/2	1,362.00	1/2	1,005.80	1/2	647.31	1/2	286.30	1/2		1/2		1/2		1/2	
3/4	2,065.97	3/4	1,710.35	3/4	1,354.58	3/4	998.38	3/4	639.80	3/4	278.78	3/4		3/4		3/4		3/4	
8	2,058.45	8	1,702.98	8	1,347.15	8	990.97	8	632.29	8	271.26	8		8		8		8	
1/4	2,050.92	1/4	1,695.61	1/4	1,339.72	1/4	983.56	1/4	624.78	1/4	263.73	1/4		1/4		1/4		1/4	
1/2	2,043.40	1/2	1,688.24	1/2	1,332.30	1/2	976.14	1/2	617.27	1/2	256.21	1/2		1/2		1/2		1/2	
3/4	2,035.88	3/4	1,680.87	3/4	1,324.87	3/4	968.73	3/4	609.76	3/4	248.68	3/4		3/4		3/4		3/4	
9	2,028.35	9	1,673.50	9	1,317.45	9	961.32	9	602.25	9	241.16	9		9		9		9	
1/4	2,020.83	1/4	1,666.13	1/4	1,310.02	1/4	953.90	1/4	594.74	1/4	233.64	1/4		1/4		1/4		1/4	
1/2	2,013.31	1/2	1,658.76	1/2	1,302.59	1/2	946.49	1/2	587.23	1/2	226.12	1/2		1/2		1/2		1/2	
3/4	2,005.78	3/4	1,651.39	3/4	1,295.17	3/4	939.08	3/4	579.72	3/4	218.60	3/4		3/4		3/4		3/4	
10	1,998.26	10	1,644.02	10	1,287.74	10	931.66	10	572.20	10	211.08	10		10		10		10	
1/4	1,990.74	1/4	1,636.65	1/4	1,280.32	1/4	924.25	1/4	564.68	1/4	203.56	1/4		1/4		1/4		1/4	
1/2	1,983.21	1/2	1,629.28	1/2	1,272.89	1/2	916.84	1/2	557.15	1/2	196.03	1/2		1/2		1/2		1/2	
3/4	1,975.69	3/4	1,621.91	3/4	1,265.46	3/4	909.42	3/4	549.63	3/4	188.51	3/4		3/4		3/4		3/4	
11	1,968.32	11	1,614.48	11	1,258.04	11	902.00	11	542.10	11	180.99	11		11		11		11	
1/4	1,960.95	1/4	1,607.06	1/4	1,250.61	1/4	894.57	1/4	534.58	1/4	173.46	1/4		1/4		1/4		1/4	
1/2	1,953.58	1/2	1,599.63	1/2	1,243.19	1/2	887.14	1/2	527.05	1/2	165.94	1/2		1/2		1/2		1/2	
3/4	1,946.21	3/4	1,592.20	3/4	1,235.76	3/4	879.72	3/4	519.53	3/4	158.42	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 02/29/2016 SW
CALCULATED: 03/01/2016 CL
PRINTED: 03/01/2016 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 03/2016

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



BARGE "EMS 399"

3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-04 3/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	0	0	0	0	0	0	4,494.57	0	4,251.42	0	3,992.89	0	3,714.18	0	3,405.68	0	3,044.07	0	2,682.49
1/4		1/4		1/4		1/4	4,488.34	1/4	4,248.23	1/4	3,987.29	1/4	3,708.15	1/4	3,398.14	1/4	3,036.54	1/4	2,674.96
1/2		1/2		1/2		1/2	4,482.10	1/2	4,241.04	1/2	3,981.69	1/2	3,702.12	1/2	3,390.60	1/2	3,029.01	1/2	2,667.42
3/4		3/4		3/4		3/4	4,475.87	3/4	4,235.85	3/4	3,976.09	3/4	3,696.09	3/4	3,383.07	3/4	3,021.47	3/4	2,659.89
1	1	1	1	1	1	1	4,471.06	1	4,230.63	1	3,970.45	1	3,690.03	1	3,375.53	1	3,013.94	1	2,652.36
1/4		1/4		1/4		1/4	4,466.25	1/4	4,225.40	1/4	3,964.82	1/4	3,683.97	1/4	3,368.00	1/4	3,006.41	1/4	2,644.82
1/2		1/2		1/2		1/2	4,461.43	1/2	4,220.18	1/2	3,959.18	1/2	3,677.90	1/2	3,360.46	1/2	2,998.87	1/2	2,637.29
3/4		3/4		3/4		3/4	4,456.62	3/4	4,214.96	3/4	3,953.55	3/4	3,671.84	3/4	3,352.93	3/4	2,991.34	3/4	2,629.76
2	2	2	2	2	2	2	4,451.78	2	4,209.70	2	3,947.88	2	3,665.74	2	3,345.39	2	2,983.81	2	2,622.22
1/4		1/4		1/4		1/4	4,446.93	1/4	4,204.44	1/4	3,942.21	1/4	3,659.65	1/4	3,337.86	1/4	2,976.28	1/4	2,614.69
1/2		1/2		1/2		1/2	4,442.08	1/2	4,199.18	1/2	3,936.54	1/2	3,653.55	1/2	3,330.33	1/2	2,968.74	1/2	2,607.16
3/4		3/4		3/4		3/4	4,437.24	3/4	4,193.93	3/4	3,930.87	3/4	3,647.45	3/4	3,322.79	3/4	2,961.21	3/4	2,599.63
3	3	3	3	3	3	3	4,432.36	3	4,188.64	3	3,925.17	3	3,641.32	3	3,315.26	3	2,953.68	3	2,592.09
1/4		1/4		1/4		1/4	4,427.48	1/4	4,183.34	1/4	3,919.47	1/4	3,635.19	1/4	3,307.73	1/4	2,946.14	1/4	2,584.56
1/2		1/2		1/2		1/2	4,422.60	1/2	4,178.05	1/2	3,913.76	1/2	3,629.06	1/2	3,300.19	1/2	2,938.61	1/2	2,577.03
3/4		3/4		3/4		3/4	4,417.72	3/4	4,172.76	3/4	3,908.06	3/4	3,622.92	3/4	3,292.66	3/4	2,931.08	3/4	2,569.49
4	4	4	4	4	4	4	4,412.80	4	4,167.43	4	3,902.32	4	3,616.76	4	3,285.13	4	2,923.54	4	2,561.96
1/4		1/4		1/4		1/4	4,407.89	1/4	4,162.11	1/4	3,896.59	1/4	3,610.59	1/4	3,277.60	1/4	2,916.01	1/4	2,554.43
1/2		1/2		1/2		1/2	4,402.97	1/2	4,156.78	1/2	3,890.85	1/2	3,604.43	1/2	3,270.06	1/2	2,908.48	1/2	2,546.89
3/4		3/4		3/4		3/4	4,398.06	3/4	4,151.46	3/4	3,885.11	3/4	3,598.26	3/4	3,262.53	3/4	2,900.95	3/4	2,539.36
5	5	5	5	5	5	5	4,393.11	5	4,146.10	5	3,879.34	5	3,592.06	5	3,255.00	5	2,893.41	5	2,531.83
1/4		1/4		1/4		1/4	4,388.16	1/4	4,140.74	1/4	3,873.57	1/4	3,585.86	1/4	3,247.46	1/4	2,885.88	1/4	2,524.30
1/2		1/2		1/2		1/2	4,383.21	1/2	4,135.38	1/2	3,867.80	1/2	3,579.66	1/2	3,239.93	1/2	2,878.35	1/2	2,516.76
3/4		3/4		3/4		3/4	4,378.26	3/4	4,130.01	3/4	3,862.02	3/4	3,573.46	3/4	3,232.40	3/4	2,870.81	3/4	2,509.23
6	6	6	6	6	6	6	4,373.28	6	4,124.62	6	3,856.20	6	3,567.22	6	3,224.86	6	2,863.28	6	2,501.70
1/4		1/4		1/4		1/4	4,368.29	1/4	4,119.23	1/4	3,850.38	1/4	3,560.99	1/4	3,217.33	1/4	2,855.75	1/4	2,494.16
1/2		1/2		1/2		1/2	4,363.31	1/2	4,113.83	1/2	3,844.55	1/2	3,554.76	1/2	3,209.80	1/2	2,848.21	1/2	2,486.63
3/4		3/4		3/4	4,612.60	3/4	4,358.33	3/4	4,108.44	3/4	3,838.73	3/4	3,548.52	3/4	3,202.27	3/4	2,840.68	3/4	2,479.10
7	7	7	7	7	7	7	4,353.31	7	4,103.01	7	3,832.87	7	3,542.27	7	3,194.73	7	2,833.15	7	2,471.56
1/4		1/4		1/4		1/4	4,348.29	1/4	4,097.58	1/4	3,827.02	1/4	3,536.02	1/4	3,187.20	1/4	2,825.62	1/4	2,464.03
1/2		1/2		1/2		1/2	4,343.28	1/2	4,092.15	1/2	3,821.16	1/2	3,529.77	1/2	3,179.67	1/2	2,818.08	1/2	2,456.50
3/4		3/4		3/4		3/4	4,338.26	3/4	4,086.72	3/4	3,815.30	3/4	3,523.51	3/4	3,172.13	3/4	2,810.55	3/4	2,448.97
8	8	8	8	8	8	8	4,333.21	8	4,081.26	8	3,809.41	8	3,517.26	8	3,164.60	8	2,803.02	8	2,441.43
1/4		1/4		1/4		1/4	4,328.15	1/4	4,075.79	1/4	3,803.52	1/4	3,511.01	1/4	3,157.07	1/4	2,795.48	1/4	2,433.90
1/2		1/2		1/2		1/2	4,323.10	1/2	4,070.33	1/2	3,797.63	1/2	3,504.76	1/2	3,149.53	1/2	2,787.95	1/2	2,426.37
3/4		3/4		3/4		3/4	4,318.05	3/4	4,064.87	3/4	3,791.73	3/4	3,498.51	3/4	3,142.00	3/4	2,780.42	3/4	2,418.83
9	9	9	9	9	9	9	4,312.96	9	4,059.37	9	3,785.81	9	3,492.25	9	3,134.47	9	2,772.88	9	2,411.30
1/4		1/4		1/4		1/4	4,307.88	1/4	4,053.87	1/4	3,779.88	1/4	3,486.00	1/4	3,126.94	1/4	2,765.35	1/4	2,403.77
1/2		1/2		1/2		1/2	4,302.79	1/2	4,048.38	1/2	3,773.96	1/2	3,479.75	1/2	3,119.40	1/2	2,757.82	1/2	2,396.23
3/4		3/4		3/4		3/4	4,297.71	3/4	4,042.88	3/4	3,768.03	3/4	3,473.50	3/4	3,111.87	3/4	2,750.29	3/4	2,388.70
10	10	10	10	10	10	10	4,292.59	10	4,037.35	10	3,762.07	10	3,465.96	10	3,104.34	10	2,742.75	10	2,381.17
1/4		1/4		1/4		1/4	4,287.47	1/4	4,031.81	1/4	3,756.11	1/4	3,458.43	1/4	3,096.80	1/4	2,735.22	1/4	2,373.64
1/2		1/2		1/2		1/2	4,282.34	1/2	4,026.28	1/2	3,750.15	1/2	3,450.89	1/2	3,089.27	1/2	2,727.69	1/2	2,366.10
3/4		3/4		3/4		3/4	4,277.22	3/4	4,020.75	3/4	3,744.19	3/4	3,443.36	3/4	3,081.74	3/4	2,720.15	3/4	2,358.57
11	11	11	11	11	11	11	4,272.07	11	4,015.19	11	3,738.19	11	3,435.82	11	3,074.20	11	2,712.62	11	2,351.04
1/4		1/4		1/4		1/4	4,266.92	1/4	4,009.62	1/4	3,732.20	1/4	3,428.28	1/4	3,066.67	1/4	2,705.09	1/4	2,343.50
1/2		1/2		1/2		1/2	4,261.76	1/2	4,004.05	1/2	3,726.20	1/2	3,420.75	1/2	3,059.14	1/2	2,697.55	1/2	2,335.97
3/4		3/4		3/4		3/4	4,256.61	3/4	3,998.49	3/4	3,720.21	3/4	3,413.21	3/4	3,051.61	3/4	2,690.02	3/4	2,328.44

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN WITH "HERMETIC" CLOSED GAUGING DEVICE
 GAUGE POINT: (HERMETIC) LOCATED 12'-06" OFF CENTERLINE AND 44'-06" FORWARD OF AFT BULKHEAD

PRECISION MEASUREMENT
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BARGE "EMS 399"

3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-04 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	2,320.90	0	1,959.20	0	1,597.45	0	1,235.70	0	873.96	0	512.80	0	151.07	0		0		0	
1/4	2,313.37	1/4	1,951.67	1/4	1,589.92	1/4	1,228.16	1/4	866.44	1/4	505.27	1/4	143.53	1/4		1/4		1/4	
1/2	2,305.84	1/2	1,944.13	1/2	1,582.38	1/2	1,220.63	1/2	858.92	1/2	497.73	1/2	135.99	1/2		1/2		1/2	
3/4	2,298.31	3/4	1,936.60	3/4	1,574.84	3/4	1,213.09	3/4	851.40	3/4	490.19	3/4	128.46	3/4		3/4		3/4	
1	2,290.77	1	1,929.06	1	1,567.31	1	1,205.55	1	843.88	1	482.66	1	120.92	1		1		1	
1/4	2,283.24	1/4	1,921.52	1/4	1,559.77	1/4	1,198.02	1/4	836.36	1/4	475.12	1/4	113.38	1/4		1/4		1/4	
1/2	2,275.71	1/2	1,913.99	1/2	1,552.23	1/2	1,190.48	1/2	828.84	1/2	467.59	1/2	105.85	1/2		1/2		1/2	
3/4	2,268.17	3/4	1,906.45	3/4	1,544.70	3/4	1,182.95	3/4	821.31	3/4	460.05	3/4	98.31	3/4		3/4		3/4	
2	2,260.64	2	1,898.91	2	1,537.16	2	1,175.41	2	813.79	2	452.51	2	90.78	2		2		2	
1/4	2,253.11	1/4	1,891.38	1/4	1,529.62	1/4	1,167.87	1/4	806.27	1/4	444.98	1/4	83.24	1/4		1/4		1/4	
1/2	2,245.57	1/2	1,883.84	1/2	1,522.09	1/2	1,160.34	1/2	798.75	1/2	437.44	1/2	75.70	1/2		1/2		1/2	
3/4	2,238.04	3/4	1,876.30	3/4	1,514.55	3/4	1,152.80	3/4	791.23	3/4	429.91	3/4	68.17	3/4		3/4		3/4	
3	2,230.51	3	1,868.77	3	1,507.01	3	1,145.26	3	783.71	3	422.37	3	60.90	3		3		3	
1/4	2,222.98	1/4	1,861.23	1/4	1,499.48	1/4	1,137.73	1/4	776.19	1/4	414.83	1/4	53.63	1/4		1/4		1/4	
1/2	2,215.44	1/2	1,853.69	1/2	1,491.94	1/2	1,130.19	1/2	768.66	1/2	407.30	1/2	46.37	1/2		1/2		1/2	
3/4	2,207.91	3/4	1,846.16	3/4	1,484.41	3/4	1,122.65	3/4	761.14	3/4	399.76	3/4	39.10	3/4		3/4		3/4	
4	2,200.37	4	1,838.62	4	1,476.87	4	1,115.12	4	753.62	4	392.22	4	33.72	4		4		4	
1/4	2,192.84	1/4	1,831.08	1/4	1,469.33	1/4	1,107.58	1/4	746.10	1/4	384.69	1/4	28.33	1/4		1/4		1/4	
1/2	2,185.30	1/2	1,823.55	1/2	1,461.80	1/2	1,100.04	1/2	738.58	1/2	377.15	1/2	22.95	1/2		1/2		1/2	
3/4	2,177.76	3/4	1,816.01	3/4	1,454.26	3/4	1,092.51	3/4	731.06	3/4	369.62	3/4	17.57	3/4		3/4		3/4	
5	2,170.23	5	1,808.47	5	1,446.72	5	1,084.97	5	723.54	5	362.08	5		5		5		5	
1/4	2,162.69	1/4	1,800.94	1/4	1,439.19	1/4	1,077.43	1/4	716.01	1/4	354.54	1/4		1/4		1/4		1/4	
1/2	2,155.15	1/2	1,793.40	1/2	1,431.65	1/2	1,069.90	1/2	708.49	1/2	347.01	1/2		1/2		1/2		1/2	
3/4	2,147.62	3/4	1,785.87	3/4	1,424.11	3/4	1,062.36	3/4	700.97	3/4	339.47	3/4		3/4		3/4		3/4	
6	2,140.08	6	1,778.33	6	1,416.58	6	1,054.82	6	693.45	6	331.93	6		6		6		6	
1/4	2,132.54	1/4	1,770.79	1/4	1,409.04	1/4	1,047.29	1/4	685.93	1/4	324.40	1/4		1/4		1/4		1/4	
1/2	2,125.01	1/2	1,763.26	1/2	1,401.50	1/2	1,039.75	1/2	678.41	1/2	316.86	1/2		1/2		1/2		1/2	
3/4	2,117.47	3/4	1,755.72	3/4	1,393.97	3/4	1,032.22	3/4	670.89	3/4	309.33	3/4		3/4		3/4		3/4	
7	2,109.93	7	1,748.18	7	1,386.43	7	1,024.68	7	663.36	7	301.79	7		7		7		7	
1/4	2,102.40	1/4	1,740.65	1/4	1,378.89	1/4	1,017.14	1/4	655.84	1/4	294.25	1/4		1/4		1/4		1/4	
1/2	2,094.86	1/2	1,733.11	1/2	1,371.36	1/2	1,009.61	1/2	648.32	1/2	286.72	1/2		1/2		1/2		1/2	
3/4	2,087.33	3/4	1,725.57	3/4	1,363.82	3/4	1,002.07	3/4	640.80	3/4	279.18	3/4		3/4		3/4		3/4	
8	2,079.79	8	1,718.04	8	1,356.28	8	994.53	8	633.28	8	271.64	8		8		8		8	
1/4	2,072.25	1/4	1,710.50	1/4	1,348.75	1/4	987.00	1/4	625.76	1/4	264.11	1/4		1/4		1/4		1/4	
1/2	2,064.72	1/2	1,702.96	1/2	1,341.21	1/2	979.46	1/2	618.24	1/2	256.57	1/2		1/2		1/2		1/2	
3/4	2,057.18	3/4	1,695.43	3/4	1,333.68	3/4	971.92	3/4	610.71	3/4	249.04	3/4		3/4		3/4		3/4	
9	2,049.64	9	1,687.89	9	1,326.14	9	964.39	9	603.19	9	241.50	9		9		9		9	
1/4	2,042.11	1/4	1,680.35	1/4	1,318.60	1/4	956.85	1/4	595.67	1/4	233.96	1/4		1/4		1/4		1/4	
1/2	2,034.57	1/2	1,672.82	1/2	1,311.07	1/2	949.31	1/2	588.15	1/2	226.43	1/2		1/2		1/2		1/2	
3/4	2,027.03	3/4	1,665.28	3/4	1,303.53	3/4	941.78	3/4	580.63	3/4	218.89	3/4		3/4		3/4		3/4	
10	2,019.50	10	1,657.74	10	1,295.99	10	934.24	10	573.09	10	211.36	10		10		10		10	
1/4	2,011.96	1/4	1,650.21	1/4	1,288.46	1/4	926.70	1/4	565.56	1/4	203.82	1/4		1/4		1/4		1/4	
1/2	2,004.42	1/2	1,642.67	1/2	1,280.92	1/2	919.17	1/2	558.02	1/2	196.28	1/2		1/2		1/2		1/2	
3/4	1,996.89	3/4	1,635.14	3/4	1,273.38	3/4	911.63	3/4	550.48	3/4	188.75	3/4		3/4		3/4		3/4	
11	1,989.35	11	1,627.60	11	1,265.85	11	904.09	11	542.95	11	181.21	11		11		11		11	
1/4	1,981.81	1/4	1,620.06	1/4	1,258.31	1/4	896.56	1/4	535.41	1/4	173.67	1/4		1/4		1/4		1/4	
1/2	1,974.28	1/2	1,612.53	1/2	1,250.77	1/2	889.02	1/2	527.88	1/2	166.14	1/2		1/2		1/2		1/2	
3/4	1,966.74	3/4	1,604.99	3/4	1,243.24	3/4	881.49	3/4	520.34	3/4	158.60	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 02/29/2016 SW
CALCULATED: 03/01/2016 CL
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ALL PRIOR TO 03/2016

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BARGE "EMS 399"

2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-04 3/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	0	0	0	0	0	0	4,701.23	0	4,397.36	0	4,078.13	0	3,738.76	0	3,381.16	0	3,020.45	0	2,659.75
1/4		1/4		1/4		1/4	4,693.74	1/4	4,390.90	1/4	4,071.26	1/4	3,731.47	1/4	3,373.64	1/4	3,012.94	1/4	2,652.23
1/2		1/2		1/2		1/2	4,686.24	1/2	4,384.45	1/2	4,064.40	1/2	3,724.18	1/2	3,366.13	1/2	3,005.42	1/2	2,644.72
3/4		3/4		3/4		3/4	4,678.74	3/4	4,378.00	3/4	4,057.54	3/4	3,716.88	3/4	3,358.61	3/4	2,997.91	3/4	2,637.20
1	1	1	1	1	1	1	4,672.67	1	4,371.51	1	4,050.64	1	3,709.56	1	3,351.10	1	2,990.39	1	2,629.69
1/4		1/4		1/4		1/4	4,666.59	1/4	4,365.02	1/4	4,043.74	1/4	3,702.23	1/4	3,343.58	1/4	2,982.88	1/4	2,622.17
1/2		1/2		1/2		1/2	4,660.51	1/2	4,358.53	1/2	4,036.84	1/2	3,694.90	1/2	3,336.07	1/2	2,975.36	1/2	2,614.66
3/4		3/4		3/4		3/4	4,654.43	3/4	4,352.04	3/4	4,029.94	3/4	3,687.58	3/4	3,328.55	3/4	2,967.85	3/4	2,607.14
2	2	2	2	2	2	2	4,648.32	2	4,345.52	2	4,023.01	2	3,680.22	2	3,321.04	2	2,960.33	2	2,599.63
1/4		1/4		1/4		1/4	4,642.21	1/4	4,339.00	1/4	4,016.08	1/4	3,672.86	1/4	3,313.53	1/4	2,952.82	1/4	2,592.11
1/2		1/2		1/2		1/2	4,636.10	1/2	4,332.48	1/2	4,009.14	1/2	3,665.49	1/2	3,306.01	1/2	2,945.31	1/2	2,584.60
3/4		3/4		3/4		3/4	4,629.99	3/4	4,325.95	3/4	4,002.21	3/4	3,658.13	3/4	3,298.50	3/4	2,937.79	3/4	2,577.08
3	3	3	3	3	3	3	4,623.84	3	4,319.40	3	3,995.24	3	3,650.74	3	3,290.98	3	2,930.28	3	2,569.57
1/4		1/4		1/4		1/4	4,617.70	1/4	4,312.84	1/4	3,988.28	1/4	3,643.34	1/4	3,283.47	1/4	2,922.76	1/4	2,562.06
1/2		1/2		1/2		1/2	4,611.55	1/2	4,306.28	1/2	3,981.31	1/2	3,635.95	1/2	3,275.95	1/2	2,915.25	1/2	2,554.54
3/4		3/4		3/4		3/4	4,605.40	3/4	4,299.73	3/4	3,974.34	3/4	3,628.55	3/4	3,268.44	3/4	2,907.73	3/4	2,547.03
4	4	4	4	4	4	4	4,599.22	4	4,293.14	4	3,967.34	4	3,621.12	4	3,260.92	4	2,900.22	4	2,539.51
1/4		1/4		1/4		1/4	4,593.04	1/4	4,286.55	1/4	3,960.34	1/4	3,613.70	1/4	3,253.41	1/4	2,892.70	1/4	2,532.00
1/2		1/2		1/2		1/2	4,586.86	1/2	4,279.96	1/2	3,953.34	1/2	3,606.27	1/2	3,245.89	1/2	2,885.19	1/2	2,524.48
3/4		3/4		3/4		3/4	4,580.68	3/4	4,273.37	3/4	3,946.34	3/4	3,598.84	3/4	3,238.38	3/4	2,877.67	3/4	2,516.97
5	5	5	5	5	5	5	4,574.47	5	4,266.74	5	3,939.30	5	3,591.37	5	3,230.86	5	2,870.16	5	2,509.45
1/4		1/4		1/4		1/4	4,568.26	1/4	4,260.12	1/4	3,932.26	1/4	3,583.91	1/4	3,223.35	1/4	2,862.64	1/4	2,501.94
1/2		1/2		1/2		1/2	4,562.04	1/2	4,253.49	1/2	3,925.23	1/2	3,576.45	1/2	3,215.83	1/2	2,855.13	1/2	2,494.42
3/4		3/4		3/4		3/4	4,555.83	3/4	4,246.87	3/4	3,918.19	3/4	3,568.98	3/4	3,208.32	3/4	2,847.61	3/4	2,486.91
6	6	6	6	6	6	6	4,549.58	6	4,240.21	6	3,911.11	6	3,561.48	6	3,200.80	6	2,840.10	6	2,479.39
1/4		1/4		1/4		1/4	4,543.33	1/4	4,233.55	1/4	3,904.02	1/4	3,553.97	1/4	3,193.29	1/4	2,832.58	1/4	2,471.88
1/2		1/2		1/2		1/2	4,537.08	1/2	4,226.89	1/2	3,896.93	1/2	3,546.47	1/2	3,185.78	1/2	2,825.07	1/2	2,464.36
3/4		3/4		3/4		3/4	4,845.81	3/4	4,530.83	3/4	4,220.23	3/4	3,889.85	3/4	3,538.97	3/4	3,178.26	3/4	2,817.56
7	7	7	7	7	7	7	4,840.53	7	4,524.55	7	4,213.54	7	3,882.72	7	3,531.45	7	3,170.75	7	2,810.04
1/4		1/4		1/4		1/4	4,835.24	1/4	4,518.27	1/4	4,206.84	1/4	3,875.60	1/4	3,523.94	1/4	3,163.23	1/4	2,802.53
1/2		1/2		1/2		1/2	4,829.95	1/2	4,511.98	1/2	4,200.15	1/2	3,868.48	1/2	3,516.42	1/2	3,155.72	1/2	2,795.01
3/4		3/4		3/4		3/4	4,824.66	3/4	4,505.70	3/4	4,193.46	3/4	3,861.36	3/4	3,508.91	3/4	3,148.20	3/4	2,787.50
8	8	8	8	8	8	8	4,818.01	8	4,499.39	8	4,186.73	8	3,854.21	8	3,501.39	8	3,140.69	8	2,779.98
1/4		1/4		1/4		1/4	4,811.36	1/4	4,493.07	1/4	4,180.00	1/4	3,847.05	1/4	3,493.88	1/4	3,133.17	1/4	2,772.47
1/2		1/2		1/2		1/2	4,804.71	1/2	4,486.75	1/2	4,173.27	1/2	3,839.89	1/2	3,486.36	1/2	3,125.66	1/2	2,764.95
3/4		3/4		3/4		3/4	4,798.06	3/4	4,480.43	3/4	4,166.55	3/4	3,832.74	3/4	3,478.85	3/4	3,118.14	3/4	2,757.44
9	9	9	9	9	9	9	4,790.72	9	4,474.08	9	4,159.78	9	3,825.55	9	3,471.33	9	3,110.63	9	2,749.92
1/4		1/4		1/4		1/4	4,783.39	1/4	4,467.73	1/4	4,153.02	1/4	3,818.36	1/4	3,463.82	1/4	3,103.11	1/4	2,742.41
1/2		1/2		1/2		1/2	4,776.05	1/2	4,461.38	1/2	4,146.26	1/2	3,811.17	1/2	3,456.30	1/2	3,095.60	1/2	2,734.89
3/4		3/4		3/4		3/4	4,768.71	3/4	4,455.03	3/4	4,139.50	3/4	3,803.98	3/4	3,448.79	3/4	3,088.08	3/4	2,727.38
10	10	10	10	10	10	10	4,761.21	10	4,448.64	10	4,132.70	10	3,796.76	10	3,441.28	10	3,080.57	10	2,719.86
1/4		1/4		1/4		1/4	4,753.72	1/4	4,442.26	1/4	4,125.91	1/4	3,789.53	1/4	3,433.76	1/4	3,073.05	1/4	2,712.35
1/2		1/2		1/2		1/2	4,746.22	1/2	4,435.87	1/2	4,119.11	1/2	3,782.31	1/2	3,426.25	1/2	3,065.54	1/2	2,704.83
3/4		3/4		3/4		3/4	4,738.72	3/4	4,429.49	3/4	4,112.31	3/4	3,775.08	3/4	3,418.73	3/4	3,058.03	3/4	2,697.32
11	11	11	11	11	11	11	4,731.22	11	4,423.07	11	4,105.48	11	3,767.83	11	3,411.22	11	3,050.51	11	2,689.81
1/4		1/4		1/4		1/4	4,723.73	1/4	4,416.65	1/4	4,098.65	1/4	3,760.57	1/4	3,403.70	1/4	3,043.00	1/4	2,682.29
1/2		1/2		1/2		1/2	4,716.23	1/2	4,410.23	1/2	4,091.82	1/2	3,753.31	1/2	3,396.19	1/2	3,035.48	1/2	2,674.78
3/4		3/4		3/4		3/4	4,708.73	3/4	4,403.81	3/4	4,084.99	3/4	3,746.05	3/4	3,388.67	3/4	3,027.97	3/4	2,667.26

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'-06" OFF CENTERLINE AND 51'-00" FORWARD OF AFT BULKHEAD

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



BARGE "EMS 399"

2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-04 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	2,299.04	0	1,938.34	0	1,577.63	0	1,216.92	0	859.09	0	511.33	0	150.63	0		0		0	
1/4	2,291.53	1/4	1,930.82	1/4	1,570.11	1/4	1,209.41	1/4	851.90	1/4	503.81	1/4	143.12	1/4		1/4		1/4	
1/2	2,284.01	1/2	1,923.31	1/2	1,562.60	1/2	1,201.89	1/2	844.72	1/2	496.30	1/2	135.60	1/2		1/2		1/2	
3/4	2,276.50	3/4	1,915.79	3/4	1,555.09	3/4	1,194.38	3/4	837.54	3/4	488.78	3/4	128.09	3/4		3/4		3/4	
1	2,268.98	1	1,908.28	1	1,547.57	1	1,186.87	1	830.36	1	481.27	1	120.57	1		1		1	
1/4	2,261.47	1/4	1,900.76	1/4	1,540.06	1/4	1,179.35	1/4	823.17	1/4	473.75	1/4	113.06	1/4		1/4		1/4	
1/2	2,253.95	1/2	1,893.25	1/2	1,532.54	1/2	1,171.84	1/2	815.99	1/2	466.24	1/2	105.54	1/2		1/2		1/2	
3/4	2,246.44	3/4	1,885.73	3/4	1,525.03	3/4	1,164.32	3/4	808.81	3/4	458.73	3/4	98.03	3/4		3/4		3/4	
2	2,238.92	2	1,878.22	2	1,517.51	2	1,156.81	2	801.62	2	451.21	2	90.51	2		2		2	
1/4	2,231.41	1/4	1,870.70	1/4	1,510.00	1/4	1,149.29	1/4	794.44	1/4	443.70	1/4	83.00	1/4		1/4		1/4	
1/2	2,223.89	1/2	1,863.19	1/2	1,502.48	1/2	1,141.78	1/2	787.26	1/2	436.18	1/2	75.49	1/2		1/2		1/2	
3/4	2,216.38	3/4	1,855.67	3/4	1,494.97	3/4	1,134.26	3/4	780.08	3/4	428.67	3/4	67.97	3/4		3/4		3/4	
3	2,208.86	3	1,848.16	3	1,487.45	3	1,126.75	3	772.89	3	421.15	3	60.73	3		3		3	
1/4	2,201.35	1/4	1,840.64	1/4	1,479.94	1/4	1,119.23	1/4	765.71	1/4	413.64	1/4	53.48	1/4		1/4		1/4	
1/2	2,193.84	1/2	1,833.13	1/2	1,472.42	1/2	1,111.72	1/2	758.53	1/2	406.12	1/2	46.23	1/2		1/2		1/2	
3/4	2,186.32	3/4	1,825.61	3/4	1,464.91	3/4	1,104.20	3/4	751.34	3/4	398.61	3/4	38.99	3/4		3/4		3/4	
4	2,178.81	4	1,818.10	4	1,457.39	4	1,096.69	4	744.16	4	391.09	4	33.62	4		4		4	
1/4	2,171.29	1/4	1,810.59	1/4	1,449.88	1/4	1,089.17	1/4	736.98	1/4	383.58	1/4	28.25	1/4		1/4		1/4	
1/2	2,163.78	1/2	1,803.07	1/2	1,442.37	1/2	1,081.66	1/2	729.80	1/2	376.07	1/2	22.88	1/2		1/2		1/2	
3/4	2,156.26	3/4	1,795.56	3/4	1,434.85	3/4	1,074.14	3/4	722.61	3/4	368.55	3/4	17.52	3/4		3/4		3/4	
5	2,148.75	5	1,788.04	5	1,427.34	5	1,066.63	5	715.43	5	361.04	5		5		5		5	
1/4	2,141.23	1/4	1,780.53	1/4	1,419.82	1/4	1,059.12	1/4	708.25	1/4	353.52	1/4		1/4		1/4		1/4	
1/2	2,133.72	1/2	1,773.01	1/2	1,412.31	1/2	1,051.60	1/2	701.06	1/2	346.01	1/2		1/2		1/2		1/2	
3/4	2,126.20	3/4	1,765.50	3/4	1,404.79	3/4	1,044.09	3/4	693.88	3/4	338.49	3/4		3/4		3/4		3/4	
6	2,118.69	6	1,757.98	6	1,397.28	6	1,036.57	6	686.70	6	330.98	6		6		6		6	
1/4	2,111.17	1/4	1,750.47	1/4	1,389.76	1/4	1,029.06	1/4	679.52	1/4	323.46	1/4		1/4		1/4		1/4	
1/2	2,103.66	1/2	1,742.95	1/2	1,382.25	1/2	1,021.54	1/2	672.33	1/2	315.95	1/2		1/2		1/2		1/2	
3/4	2,096.14	3/4	1,735.44	3/4	1,374.73	3/4	1,014.03	3/4	665.15	3/4	308.44	3/4		3/4		3/4		3/4	
7	2,088.63	7	1,727.92	7	1,367.22	7	1,006.51	7	657.97	7	300.92	7		7		7		7	
1/4	2,081.11	1/4	1,720.41	1/4	1,359.70	1/4	999.00	1/4	650.79	1/4	293.41	1/4		1/4		1/4		1/4	
1/2	2,073.60	1/2	1,712.89	1/2	1,352.19	1/2	991.48	1/2	643.60	1/2	285.89	1/2		1/2		1/2		1/2	
3/4	2,066.09	3/4	1,705.38	3/4	1,344.67	3/4	983.97	3/4	636.42	3/4	278.38	3/4		3/4		3/4		3/4	
8	2,058.57	8	1,697.86	8	1,337.16	8	976.45	8	629.24	8	270.86	8		8		8		8	
1/4	2,051.06	1/4	1,690.35	1/4	1,329.64	1/4	968.94	1/4	622.05	1/4	263.35	1/4		1/4		1/4		1/4	
1/2	2,043.54	1/2	1,682.84	1/2	1,322.13	1/2	961.42	1/2	614.87	1/2	255.83	1/2		1/2		1/2		1/2	
3/4	2,036.03	3/4	1,675.32	3/4	1,314.62	3/4	953.91	3/4	607.69	3/4	248.32	3/4		3/4		3/4		3/4	
9	2,028.51	9	1,667.81	9	1,307.10	9	946.39	9	600.51	9	240.80	9		9		9		9	
1/4	2,021.00	1/4	1,660.29	1/4	1,299.59	1/4	938.88	1/4	593.32	1/4	233.29	1/4		1/4		1/4		1/4	
1/2	2,013.48	1/2	1,652.78	1/2	1,292.07	1/2	931.37	1/2	586.14	1/2	225.78	1/2		1/2		1/2		1/2	
3/4	2,005.97	3/4	1,645.26	3/4	1,284.56	3/4	923.85	3/4	578.96	3/4	218.26	3/4		3/4		3/4		3/4	
10	1,998.45	10	1,637.75	10	1,277.04	10	916.65	10	571.44	10	210.75	10		10		10		10	
1/4	1,990.94	1/4	1,630.23	1/4	1,269.53	1/4	909.46	1/4	563.93	1/4	203.23	1/4		1/4		1/4		1/4	
1/2	1,983.42	1/2	1,622.72	1/2	1,262.01	1/2	902.26	1/2	556.41	1/2	195.72	1/2		1/2		1/2		1/2	
3/4	1,975.91	3/4	1,615.20	3/4	1,254.50	3/4	895.06	3/4	548.90	3/4	188.20	3/4		3/4		3/4		3/4	
11	1,968.39	11	1,607.69	11	1,246.98	11	887.86	11	541.38	11	180.69	11		11		11		11	
1/4	1,960.88	1/4	1,600.17	1/4	1,239.47	1/4	880.66	1/4	533.87	1/4	173.17	1/4		1/4		1/4		1/4	
1/2	1,953.36	1/2	1,592.66	1/2	1,231.95	1/2	873.47	1/2	526.36	1/2	165.66	1/2		1/2		1/2		1/2	
3/4	1,945.85	3/4	1,585.14	3/4	1,224.44	3/4	866.27	3/4	518.84	3/4	158.15	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 02/29/2016 SW
CALCULATED: 03/01/2016 CL
PRINTED: 03/01/2016 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 03/2016

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



BARGE "EMS 399"

2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-04 3/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.		
0	0	0	0	0	0	0	4,722.15	0	4,417.90	0	4,098.29	0	3,758.51	0	3,400.48	0	3,039.34	0	2,678.19		
1/4		1/4		1/4		1/4	4,714.64	1/4	4,411.44	1/4	4,091.41	1/4	3,751.21	1/4	3,392.96	1/4	3,031.81	1/4	2,670.67		
1/2		1/2		1/2		1/2	4,707.13	1/2	4,404.98	1/2	4,084.54	1/2	3,743.91	1/2	3,385.43	1/2	3,024.29	1/2	2,663.15		
3/4		3/4		3/4		3/4	4,699.63	3/4	4,398.52	3/4	4,077.67	3/4	3,736.60	3/4	3,377.91	3/4	3,016.77	3/4	2,655.62		
1	1	1	1	1	1	1	4,693.54	1	4,392.02	1	4,070.76	1	3,729.27	1	3,370.38	1	3,009.24	1	2,648.10		
1/4		1/4		1/4		1/4	4,687.46	1/4	4,385.52	1/4	4,063.85	1/4	3,721.93	1/4	3,362.86	1/4	3,001.72	1/4	2,640.58		
1/2		1/2		1/2		1/2	4,681.37	1/2	4,379.03	1/2	4,056.95	1/2	3,714.60	1/2	3,355.34	1/2	2,994.19	1/2	2,633.05		
3/4		3/4		3/4		3/4	4,675.29	3/4	4,372.53	3/4	4,050.04	3/4	3,707.26	3/4	3,347.81	3/4	2,986.67	3/4	2,625.53		
2	2	2	2	2	2	2	4,669.17	2	4,366.00	2	4,043.10	2	3,699.89	2	3,340.29	2	2,979.15	2	2,618.00		
1/4		1/4		1/4		1/4	4,663.05	1/4	4,359.47	1/4	4,036.16	1/4	3,692.52	1/4	3,332.77	1/4	2,971.62	1/4	2,610.48		
1/2		1/2		1/2		1/2	4,656.93	1/2	4,352.94	1/2	4,029.22	1/2	3,685.15	1/2	3,325.24	1/2	2,964.10	1/2	2,602.96		
3/4		3/4		3/4		3/4	4,650.81	3/4	4,346.41	3/4	4,022.28	3/4	3,677.78	3/4	3,317.72	3/4	2,956.58	3/4	2,595.43		
3	3	3	3	3	3	3	4,644.66	3	4,339.85	3	4,015.30	3	3,670.38	3	3,310.19	3	2,949.05	3	2,587.91		
1/4		1/4		1/4		1/4	4,638.50	1/4	4,333.28	1/4	4,008.32	1/4	3,662.98	1/4	3,302.67	1/4	2,941.53	1/4	2,580.39		
1/2		1/2		1/2		1/2	4,632.35	1/2	4,326.72	1/2	4,001.35	1/2	3,655.57	1/2	3,295.15	1/2	2,934.00	1/2	2,572.86		
3/4		3/4		3/4		3/4	4,626.20	3/4	4,320.15	3/4	3,994.37	3/4	3,648.17	3/4	3,287.62	3/4	2,926.48	3/4	2,565.34		
4	4	4	4	4	4	4	4,620.01	4	4,313.55	4	3,987.36	4	3,640.73	4	3,280.10	4	2,918.96	4	2,557.81		
1/4		1/4		1/4		1/4	4,613.82	1/4	4,306.96	1/4	3,980.35	1/4	3,633.29	1/4	3,272.57	1/4	2,911.43	1/4	2,550.29		
1/2		1/2		1/2		1/2	4,607.64	1/2	4,300.36	1/2	3,973.34	1/2	3,625.85	1/2	3,265.05	1/2	2,903.91	1/2	2,542.77		
3/4		3/4		3/4		3/4	4,601.45	3/4	4,293.76	3/4	3,966.33	3/4	3,618.42	3/4	3,257.53	3/4	2,896.38	3/4	2,535.24		
5	5	5	5	5	5	5	4,595.23	5	4,287.13	5	3,959.29	5	3,610.94	5	3,250.00	5	2,888.86	5	2,527.72		
1/4		1/4		1/4		1/4	4,589.00	1/4	4,280.49	1/4	3,952.25	1/4	3,603.47	1/4	3,242.48	1/4	2,881.34	1/4	2,520.19		
1/2		1/2		1/2		1/2	4,582.78	1/2	4,273.86	1/2	3,945.20	1/2	3,596.00	1/2	3,234.96	1/2	2,873.81	1/2	2,512.67		
3/4		3/4		3/4		3/4	4,576.56	3/4	4,267.23	3/4	3,938.16	3/4	3,588.53	3/4	3,227.43	3/4	2,866.29	3/4	2,505.15		
6	6	6	6	6	6	6	4,570.31	6	4,260.56	6	3,931.06	6	3,581.01	6	3,219.91	6	2,858.77	6	2,497.62		
1/4		1/4		1/4		1/4	4,564.05	1/4	4,253.89	1/4	3,923.97	1/4	3,573.50	1/4	3,212.38	1/4	2,851.24	1/4	2,490.10		
1/2		1/2		1/2		1/2	4,557.79	1/2	4,247.23	1/2	3,916.87	1/2	3,565.99	1/2	3,204.86	1/2	2,843.72	1/2	2,482.58		
3/4		3/4		3/4		3/4	4,866.90	3/4	4,551.54	3/4	3,909.78	3/4	3,558.48	3/4	3,197.34	3/4	2,836.19	3/4	2,475.05		
7	7	7	7	7	7	7	4,545.25	7	4,233.86	7	3,902.65	7	3,550.96	7	3,189.81	7	2,828.67	7	2,467.53		
1/4		1/4		1/4		1/4	4,856.31	1/4	4,538.96	1/4	4,227.16	1/4	3,895.52	1/4	3,543.43	1/4	3,182.29	1/4	2,821.15	1/4	2,460.00
1/2		1/2		1/2		1/2	4,851.02	1/2	4,532.67	1/2	4,220.45	1/2	3,888.39	1/2	3,535.91	1/2	3,174.77	1/2	2,813.62	1/2	2,452.48
3/4		3/4		3/4		3/4	4,845.72	3/4	4,526.38	3/4	4,213.75	3/4	3,881.26	3/4	3,528.38	3/4	3,167.24	3/4	2,806.10	3/4	2,444.96
8	8	8	8	8	8	8	4,839.06	8	4,520.05	8	4,207.02	8	3,874.09	8	3,520.86	8	3,159.72	8	2,798.58	8	2,437.43
1/4		1/4		1/4		1/4	4,832.40	1/4	4,513.73	1/4	4,200.28	1/4	3,866.93	1/4	3,513.34	1/4	3,152.19	1/4	2,791.05	1/4	2,429.91
1/2		1/2		1/2		1/2	4,825.75	1/2	4,507.40	1/2	4,193.55	1/2	3,859.76	1/2	3,505.81	1/2	3,144.67	1/2	2,783.53	1/2	2,422.39
3/4		3/4		3/4		3/4	4,819.09	3/4	4,501.08	3/4	4,186.81	3/4	3,852.60	3/4	3,498.29	3/4	3,137.15	3/4	2,776.00	3/4	2,414.86
9	9	9	9	9	9	9	4,811.74	9	4,494.72	9	4,180.04	9	3,845.40	9	3,490.76	9	3,129.62	9	2,768.48	9	2,407.34
1/4		1/4		1/4		1/4	4,804.40	1/4	4,488.36	1/4	4,173.27	1/4	3,838.20	1/4	3,483.24	1/4	3,122.10	1/4	2,760.96	1/4	2,399.81
1/2		1/2		1/2		1/2	4,797.05	1/2	4,482.00	1/2	4,166.50	1/2	3,831.01	1/2	3,475.72	1/2	3,114.57	1/2	2,753.43	1/2	2,392.29
3/4		3/4		3/4		3/4	4,789.71	3/4	4,475.64	3/4	4,159.73	3/4	3,823.81	3/4	3,468.19	3/4	3,107.05	3/4	2,745.91	3/4	2,384.77
10	10	10	10	10	10	10	4,782.20	10	4,469.25	10	4,152.93	10	3,816.57	10	3,460.67	10	3,099.53	10	2,738.38	10	2,377.24
1/4		1/4		1/4		1/4	4,774.69	1/4	4,462.86	1/4	4,146.12	1/4	3,809.34	1/4	3,453.15	1/4	3,092.00	1/4	2,730.86	1/4	2,369.72
1/2		1/2		1/2		1/2	4,767.19	1/2	4,456.46	1/2	4,139.32	1/2	3,802.11	1/2	3,445.62	1/2	3,084.48	1/2	2,723.34	1/2	2,362.19
3/4		3/4		3/4		3/4	4,759.68	3/4	4,450.07	3/4	4,132.51	3/4	3,794.88	3/4	3,438.10	3/4	3,076.96	3/4	2,715.81	3/4	2,354.67
11	11	11	11	11	11	11	4,752.17	11	4,443.64	11	4,125.68	11	3,787.61	11	3,430.57	11	3,069.43	11	2,708.29	11	2,347.15
1/4		1/4		1/4		1/4	4,744.67	1/4	4,437.22	1/4	4,118.84	1/4	3,780.34	1/4	3,423.05	1/4	3,061.91	1/4	2,700.77	1/4	2,339.62
1/2		1/2		1/2		1/2	4,737.16	1/2	4,430.79	1/2	4,112.00	1/2	3,773.08	1/2	3,415.53	1/2	3,054.38	1/2	2,693.24	1/2	2,332.10
3/4		3/4		3/4		3/4	4,729.65	3/4	4,424.36	3/4	4,105.16	3/4	3,765.81	3/4	3,408.00	3/4	3,046.86	3/4	2,685.72	3/4	2,324.58

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'-06" OFF CENTERLINE AND 51'-00" FORWARD OF AFT BULKHEAD

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



BARGE "EMS 399"

2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-04 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	2,317.05	0	1,955.91	0	1,594.77	0	1,233.62	0	872.50	0	511.95	0	150.81	0		0		0	
1/4	2,309.53	1/4	1,948.39	1/4	1,587.24	1/4	1,226.10	1/4	864.99	1/4	504.42	1/4	143.29	1/4		1/4		1/4	
1/2	2,302.00	1/2	1,940.86	1/2	1,579.72	1/2	1,218.58	1/2	857.48	1/2	496.90	1/2	135.77	1/2		1/2		1/2	
3/4	2,294.48	3/4	1,933.34	3/4	1,572.20	3/4	1,211.05	3/4	849.97	3/4	489.38	3/4	128.24	3/4		3/4		3/4	
1	2,286.96	1	1,925.81	1	1,564.67	1	1,203.53	1	842.46	1	481.85	1	120.72	1		1		1	
1/4	2,279.43	1/4	1,918.29	1/4	1,557.15	1/4	1,196.01	1/4	834.95	1/4	474.33	1/4	113.20	1/4		1/4		1/4	
1/2	2,271.91	1/2	1,910.77	1/2	1,549.62	1/2	1,188.48	1/2	827.45	1/2	466.80	1/2	105.67	1/2		1/2		1/2	
3/4	2,264.39	3/4	1,903.24	3/4	1,542.10	3/4	1,180.96	3/4	819.94	3/4	459.28	3/4	98.15	3/4		3/4		3/4	
2	2,256.86	2	1,895.72	2	1,534.58	2	1,173.43	2	812.43	2	451.76	2	90.62	2		2		2	
1/4	2,249.34	1/4	1,888.20	1/4	1,527.05	1/4	1,165.91	1/4	804.92	1/4	444.23	1/4	83.10	1/4		1/4		1/4	
1/2	2,241.81	1/2	1,880.67	1/2	1,519.53	1/2	1,158.39	1/2	797.41	1/2	436.71	1/2	75.58	1/2		1/2		1/2	
3/4	2,234.29	3/4	1,873.15	3/4	1,512.01	3/4	1,150.86	3/4	789.90	3/4	429.19	3/4	68.05	3/4		3/4		3/4	
3	2,226.77	3	1,865.62	3	1,504.48	3	1,143.34	3	782.39	3	421.66	3	60.80	3		3		3	
1/4	2,219.24	1/4	1,858.10	1/4	1,496.96	1/4	1,135.82	1/4	774.88	1/4	414.14	1/4	53.54	1/4		1/4		1/4	
1/2	2,211.72	1/2	1,850.58	1/2	1,489.43	1/2	1,128.29	1/2	767.38	1/2	406.62	1/2	46.29	1/2		1/2		1/2	
3/4	2,204.20	3/4	1,843.05	3/4	1,481.91	3/4	1,120.77	3/4	759.87	3/4	399.09	3/4	39.03	3/4		3/4		3/4	
4	2,196.67	4	1,835.53	4	1,474.39	4	1,113.24	4	752.36	4	391.57	4	33.66	4		4		4	
1/4	2,189.15	1/4	1,828.01	1/4	1,466.86	1/4	1,105.72	1/4	744.85	1/4	384.04	1/4	28.29	1/4		1/4		1/4	
1/2	2,181.62	1/2	1,820.48	1/2	1,459.34	1/2	1,098.20	1/2	737.34	1/2	376.52	1/2	22.91	1/2		1/2		1/2	
3/4	2,174.10	3/4	1,812.96	3/4	1,451.82	3/4	1,090.67	3/4	729.83	3/4	369.00	3/4	17.54	3/4		3/4		3/4	
5	2,166.58	5	1,805.43	5	1,444.29	5	1,083.15	5	722.32	5	361.47	5		5		5		5	
1/4	2,159.05	1/4	1,797.91	1/4	1,436.77	1/4	1,075.63	1/4	714.81	1/4	353.95	1/4		1/4		1/4		1/4	
1/2	2,151.53	1/2	1,790.39	1/2	1,429.24	1/2	1,068.10	1/2	707.31	1/2	346.43	1/2		1/2		1/2		1/2	
3/4	2,144.00	3/4	1,782.86	3/4	1,421.72	3/4	1,060.58	3/4	699.80	3/4	338.90	3/4		3/4		3/4		3/4	
6	2,136.48	6	1,775.34	6	1,414.20	6	1,053.05	6	692.29	6	331.38	6		6		6		6	
1/4	2,128.96	1/4	1,767.81	1/4	1,406.67	1/4	1,045.53	1/4	684.78	1/4	323.86	1/4		1/4		1/4		1/4	
1/2	2,121.43	1/2	1,760.29	1/2	1,399.15	1/2	1,038.01	1/2	677.27	1/2	316.33	1/2		1/2		1/2		1/2	
3/4	2,113.91	3/4	1,752.77	3/4	1,391.62	3/4	1,030.48	3/4	669.76	3/4	308.81	3/4		3/4		3/4		3/4	
7	2,106.39	7	1,745.24	7	1,384.10	7	1,022.96	7	662.25	7	301.29	7		7		7		7	
1/4	2,098.86	1/4	1,737.72	1/4	1,376.58	1/4	1,015.43	1/4	654.75	1/4	293.76	1/4		1/4		1/4		1/4	
1/2	2,091.34	1/2	1,730.20	1/2	1,369.05	1/2	1,007.91	1/2	647.24	1/2	286.24	1/2		1/2		1/2		1/2	
3/4	2,083.81	3/4	1,722.67	3/4	1,361.53	3/4	1,000.39	3/4	639.73	3/4	278.71	3/4		3/4		3/4		3/4	
8	2,076.29	8	1,715.15	8	1,354.01	8	992.86	8	632.22	8	271.19	8		8		8		8	
1/4	2,068.77	1/4	1,707.62	1/4	1,346.48	1/4	985.34	1/4	624.71	1/4	263.67	1/4		1/4		1/4		1/4	
1/2	2,061.24	1/2	1,700.10	1/2	1,338.96	1/2	977.82	1/2	617.20	1/2	256.14	1/2		1/2		1/2		1/2	
3/4	2,053.72	3/4	1,692.58	3/4	1,331.43	3/4	970.29	3/4	609.69	3/4	248.62	3/4		3/4		3/4		3/4	
9	2,046.20	9	1,685.05	9	1,323.91	9	962.77	9	602.18	9	241.10	9		9		9		9	
1/4	2,038.67	1/4	1,677.53	1/4	1,316.39	1/4	955.24	1/4	594.68	1/4	233.57	1/4		1/4		1/4		1/4	
1/2	2,031.15	1/2	1,670.01	1/2	1,308.86	1/2	947.72	1/2	587.17	1/2	226.05	1/2		1/2		1/2		1/2	
3/4	2,023.62	3/4	1,662.48	3/4	1,301.34	3/4	940.20	3/4	579.66	3/4	218.53	3/4		3/4		3/4		3/4	
10	2,016.10	10	1,654.96	10	1,293.82	10	932.67	10	572.13	10	211.00	10		10		10		10	
1/4	2,008.58	1/4	1,647.43	1/4	1,286.29	1/4	925.15	1/4	564.61	1/4	203.48	1/4		1/4		1/4		1/4	
1/2	2,001.05	1/2	1,639.91	1/2	1,278.77	1/2	917.63	1/2	557.09	1/2	195.95	1/2		1/2		1/2		1/2	
3/4	1,993.53	3/4	1,632.39	3/4	1,271.24	3/4	910.10	3/4	549.56	3/4	188.43	3/4		3/4		3/4		3/4	
11	1,986.00	11	1,624.86	11	1,263.72	11	902.58	11	542.04	11	180.91	11		11		11		11	
1/4	1,978.48	1/4	1,617.34	1/4	1,256.20	1/4	895.05	1/4	534.52	1/4	173.38	1/4		1/4		1/4		1/4	
1/2	1,970.96	1/2	1,609.81	1/2	1,248.67	1/2	887.53	1/2	526.99	1/2	165.86	1/2		1/2		1/2		1/2	
3/4	1,963.43	3/4	1,602.29	3/4	1,241.15	3/4	880.01	3/4	519.47	3/4	158.34	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 02/29/2016 SW
CALCULATED: 03/01/2016 CL
PRINTED: 03/01/2016 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 03/2016

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



BARGE "EMS 399"

1 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-04 1/2"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.		
0	0	0	0	0	0	0	4,616.42	0	4,314.53	0	3,995.81	0	3,656.91	0	3,300.00	0	2,940.16	0	2,580.32		
1/4		1/4		1/4		1/4	4,608.94	1/4	4,308.10	1/4	3,988.97	1/4	3,649.64	1/4	3,292.51	1/4	2,932.67	1/4	2,572.82		
1/2		1/2		1/2		1/2	4,601.47	1/2	4,301.66	1/2	3,982.12	1/2	3,642.36	1/2	3,285.01	1/2	2,925.17	1/2	2,565.33		
3/4		3/4		3/4		3/4	4,595.41	3/4	4,295.19	3/4	3,975.24	3/4	3,635.06	3/4	3,277.51	3/4	2,917.67	3/4	2,557.83		
1	1	1	1	1	1	1	4,589.35	1	4,288.72	1	3,968.36	1	3,627.75	1	3,270.02	1	2,910.18	1	2,550.33		
1/4		1/4		1/4		1/4	4,583.29	1/4	4,282.26	1/4	3,961.48	1/4	3,620.44	1/4	3,262.52	1/4	2,902.68	1/4	2,542.84		
1/2		1/2		1/2		1/2	4,577.24	1/2	4,275.79	1/2	3,954.60	1/2	3,613.13	1/2	3,255.02	1/2	2,895.18	1/2	2,535.34		
3/4		3/4		3/4		3/4	4,571.14	3/4	4,269.28	3/4	3,947.69	3/4	3,605.79	3/4	3,247.53	3/4	2,887.69	3/4	2,527.84		
2	2	2	2	2	2	2	4,565.05	2	4,262.78	2	3,940.78	2	3,598.45	2	3,240.03	2	2,880.19	2	2,520.35		
1/4		1/4		1/4		1/4	4,558.96	1/4	4,256.28	1/4	3,933.86	1/4	3,591.10	1/4	3,232.53	1/4	2,872.69	1/4	2,512.85		
1/2		1/2		1/2		1/2	4,552.87	1/2	4,249.78	1/2	3,926.95	1/2	3,583.76	1/2	3,225.04	1/2	2,865.20	1/2	2,505.35		
3/4		3/4		3/4		3/4	4,546.74	3/4	4,243.24	3/4	3,920.00	3/4	3,576.39	3/4	3,217.54	3/4	2,857.70	3/4	2,497.86		
3	3	3	3	3	3	3	4,540.62	3	4,236.70	3	3,913.05	3	3,569.01	3	3,210.04	3	2,850.20	3	2,490.36		
1/4		1/4		1/4		1/4	4,534.49	1/4	4,230.16	1/4	3,906.10	1/4	3,561.63	1/4	3,202.55	1/4	2,842.71	1/4	2,482.86		
1/2		1/2		1/2		1/2	4,528.36	1/2	4,223.63	1/2	3,899.15	1/2	3,554.26	1/2	3,195.05	1/2	2,835.21	1/2	2,475.37		
3/4		3/4		3/4		3/4	4,522.20	3/4	4,217.06	3/4	3,892.17	3/4	3,546.84	3/4	3,187.55	3/4	2,827.71	3/4	2,467.87		
4	4	4	4	4	4	4	4,516.04	4	4,210.48	4	3,885.19	4	3,539.43	4	3,180.06	4	2,820.22	4	2,460.37		
1/4		1/4		1/4		1/4	4,509.88	1/4	4,203.91	1/4	3,878.21	1/4	3,532.02	1/4	3,172.56	1/4	2,812.72	1/4	2,452.88		
1/2		1/2		1/2		1/2	4,503.72	1/2	4,197.34	1/2	3,871.22	1/2	3,524.61	1/2	3,165.06	1/2	2,805.22	1/2	2,445.38		
3/4		3/4		3/4		3/4	4,497.53	3/4	4,190.74	3/4	3,864.21	3/4	3,517.17	3/4	3,157.57	3/4	2,797.73	3/4	2,437.88		
5	5	5	5	5	5	5	4,491.33	5	4,184.13	5	3,857.19	5	3,509.72	5	3,150.07	5	2,790.23	5	2,430.39		
1/4		1/4		1/4		1/4	4,485.14	1/4	4,177.52	1/4	3,850.17	1/4	3,502.28	1/4	3,142.57	1/4	2,782.73	1/4	2,422.89		
1/2		1/2		1/2		1/2	4,478.95	1/2	4,170.92	1/2	3,843.16	1/2	3,494.83	1/2	3,135.08	1/2	2,775.24	1/2	2,415.39		
3/4		3/4		3/4		3/4	4,472.72	3/4	4,164.28	3/4	3,836.09	3/4	3,487.36	3/4	3,127.58	3/4	2,767.74	3/4	2,407.90		
6	6	6	6	6	6	6	4,466.49	6	4,157.64	6	3,829.02	6	3,479.88	6	3,120.08	6	2,760.24	6	2,400.40		
1/4		1/4		1/4		1/4	4,460.26	1/4	4,151.00	1/4	3,821.95	1/4	3,472.41	1/4	3,112.59	1/4	2,752.75	1/4	2,392.90		
1/2		1/2		1/2		1/2	4,768.14	1/2	4,454.03	1/2	4,144.36	1/2	3,814.88	1/2	3,464.93	1/2	3,105.09	1/2	2,745.25	1/2	2,385.41
3/4		3/4		3/4		3/4	4,762.86	3/4	4,447.77	3/4	4,137.68	3/4	3,807.78	3/4	3,457.44	3/4	3,097.59	3/4	2,737.75	3/4	2,377.91
7	7	7	7	7	7	7	4,757.59	7	4,441.50	7	4,131.01	7	3,800.68	7	3,449.94	7	3,090.10	7	2,730.26	7	2,370.41
1/4		1/4		1/4		1/4	4,752.32	1/4	4,435.24	1/4	4,124.34	1/4	3,793.58	1/4	3,442.44	1/4	3,082.60	1/4	2,722.76	1/4	2,362.92
1/2		1/2		1/2		1/2	4,747.04	1/2	4,428.98	1/2	4,117.66	1/2	3,786.47	1/2	3,434.95	1/2	3,075.10	1/2	2,715.26	1/2	2,355.42
3/4		3/4		3/4		3/4	4,740.41	3/4	4,422.68	3/4	4,110.95	3/4	3,779.34	3/4	3,427.45	3/4	3,067.61	3/4	2,707.77	3/4	2,347.92
8	8	8	8	8	8	8	4,733.77	8	4,416.38	8	4,104.25	8	3,772.20	8	3,419.95	8	3,060.11	8	2,700.27	8	2,340.43
1/4		1/4		1/4		1/4	4,727.13	1/4	4,410.09	1/4	4,097.54	1/4	3,765.06	1/4	3,412.46	1/4	3,052.61	1/4	2,692.77	1/4	2,332.93
1/2		1/2		1/2		1/2	4,720.49	1/2	4,403.79	1/2	4,090.83	1/2	3,757.93	1/2	3,404.96	1/2	3,045.12	1/2	2,685.28	1/2	2,325.43
3/4		3/4		3/4		3/4	4,713.17	3/4	4,397.46	3/4	4,084.09	3/4	3,750.75	3/4	3,397.46	3/4	3,037.62	3/4	2,677.78	3/4	2,317.94
9	9	9	9	9	9	9	4,705.85	9	4,391.13	9	4,077.34	9	3,743.58	9	3,389.97	9	3,030.12	9	2,670.28	9	2,310.44
1/4		1/4		1/4		1/4	4,698.54	1/4	4,384.79	1/4	4,070.60	1/4	3,736.41	1/4	3,382.47	1/4	3,022.63	1/4	2,662.79	1/4	2,302.94
1/2		1/2		1/2		1/2	4,691.22	1/2	4,378.46	1/2	4,063.86	1/2	3,729.24	1/2	3,374.97	1/2	3,015.13	1/2	2,655.29	1/2	2,295.45
3/4		3/4		3/4		3/4	4,683.74	3/4	4,372.10	3/4	4,057.08	3/4	3,722.04	3/4	3,367.48	3/4	3,007.63	3/4	2,647.79	3/4	2,287.95
10	10	10	10	10	10	10	4,676.26	10	4,365.73	10	4,050.30	10	3,714.83	10	3,359.98	10	3,000.14	10	2,640.30	10	2,280.45
1/4		1/4		1/4		1/4	4,668.78	1/4	4,359.37	1/4	4,043.53	1/4	3,707.62	1/4	3,352.48	1/4	2,992.64	1/4	2,632.80	1/4	2,272.96
1/2		1/2		1/2		1/2	4,661.30	1/2	4,353.00	1/2	4,036.75	1/2	3,700.42	1/2	3,344.99	1/2	2,985.14	1/2	2,625.30	1/2	2,265.46
3/4		3/4		3/4		3/4	4,653.82	3/4	4,346.60	3/4	4,029.94	3/4	3,693.18	3/4	3,337.49	3/4	2,977.65	3/4	2,617.81	3/4	2,257.96
11	11	11	11	11	11	11	4,646.34	11	4,340.20	11	4,023.13	11	3,685.94	11	3,329.99	11	2,970.15	11	2,610.31	11	2,250.47
1/4		1/4		1/4		1/4	4,638.86	1/4	4,333.80	1/4	4,016.32	1/4	3,678.70	1/4	3,322.50	1/4	2,962.65	1/4	2,602.81	1/4	2,242.97
1/2		1/2		1/2		1/2	4,631.38	1/2	4,327.40	1/2	4,009.50	1/2	3,671.46	1/2	3,315.00	1/2	2,955.16	1/2	2,595.32	1/2	2,235.47
3/4		3/4		3/4		3/4	4,623.90	3/4	4,320.96	3/4	4,002.66	3/4	3,664.19	3/4	3,307.50	3/4	2,947.66	3/4	2,587.82	3/4	2,227.98

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'-06" OFF CENTERLINE AND 51'-00" FORWARD OF AFT BULKHEAD

PRECISION MEASUREMENT
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BARGE "EMS 399"

1 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-04 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
	2,220.48		1,860.64		1,500.80		1,141.09		782.26		426.08		104.18								
1/4	2,212.98	1/4	1,853.14	1/4	1,493.30	1/4	1,133.62	1/4	774.78	1/4	418.92	1/4	97.92	1/4		1/4		1/4			
1/2	2,205.49	1/2	1,845.65	1/2	1,485.80	1/2	1,126.15	1/2	767.30	1/2	411.77	1/2	91.67	1/2		1/2		1/2			
3/4	2,197.99	3/4	1,838.15	3/4	1,478.31	3/4	1,118.67	3/4	759.81	3/4	404.68	3/4	85.49	3/4		3/4		3/4			
1	2,190.49	1	1,830.65	1	1,470.81	1	1,111.20	1	752.33	1	397.60	1	79.31	1		1		1			
1/4	2,183.00	1/4	1,823.15	1/4	1,463.31	1/4	1,103.73	1/4	744.85	1/4	390.52	1/4	73.13	1/4		1/4		1/4			
1/2	2,175.50	1/2	1,815.66	1/2	1,455.82	1/2	1,096.25	1/2	737.37	1/2	383.44	1/2	66.95	1/2		1/2		1/2			
3/4	2,168.00	3/4	1,808.16	3/4	1,448.32	3/4	1,088.78	3/4	729.89	3/4	376.43	3/4	60.84	3/4		3/4		3/4			
2	2,160.51	2	1,800.66	2	1,440.82	2	1,081.31	2	722.41	2	369.42	2	54.74	2		2		2			
1/4	2,153.01	1/4	1,793.17	1/4	1,433.33	1/4	1,073.83	1/4	714.93	1/4	362.41	1/4	48.63	1/4		1/4		1/4			
1/2	2,145.51	1/2	1,785.67	1/2	1,425.83	1/2	1,066.36	1/2	707.44	1/2	355.41	1/2	42.53	1/2		1/2		1/2			
3/4	2,138.02	3/4	1,778.17	3/4	1,418.33	3/4	1,058.89	3/4	699.96	3/4	348.47	3/4	36.77	3/4		3/4		3/4			
3	2,130.52	3	1,770.68	3	1,410.84	3	1,051.41	3	692.48	3	341.54	3	31.01	3		3		3			
1/4	2,123.02	1/4	1,763.18	1/4	1,403.34	1/4	1,043.94	1/4	685.00	1/4	334.61	1/4	25.24	1/4		1/4		1/4			
1/2	2,115.53	1/2	1,755.68	1/2	1,395.84	1/2	1,036.47	1/2	677.52	1/2	327.68	1/2	19.48	1/2		1/2		1/2			
3/4	2,108.03	3/4	1,748.19	3/4	1,388.35	3/4	1,028.99	3/4	670.04	3/4	320.82	3/4	15.67	3/4		3/4		3/4			
4	2,100.53	4	1,740.69	4	1,380.85	4	1,021.52	4	662.55	4	313.96	4	11.86	4		4		4			
1/4	2,093.04	1/4	1,733.19	1/4	1,373.35	1/4	1,014.04	1/4	655.07	1/4	307.11	1/4	8.05	1/4		1/4		1/4			
1/2	2,085.54	1/2	1,725.70	1/2	1,365.86	1/2	1,006.57	1/2	647.59	1/2	300.25	1/2	4.24	1/2		1/2		1/2			
3/4	2,078.04	3/4	1,718.20	3/4	1,358.36	3/4	999.10	3/4	640.11	3/4	293.47	3/4		3/4		3/4		3/4			
5	2,070.55	5	1,710.70	5	1,350.86	5	991.62	5	632.63	5	286.69	5		5		5		5			
1/4	2,063.05	1/4	1,703.21	1/4	1,343.37	1/4	984.15	1/4	625.15	1/4	279.91	1/4		1/4		1/4		1/4			
1/2	2,055.55	1/2	1,695.71	1/2	1,335.87	1/2	976.68	1/2	617.66	1/2	273.12	1/2		1/2		1/2		1/2			
3/4	2,048.06	3/4	1,688.21	3/4	1,328.37	3/4	969.20	3/4	610.18	3/4	266.42	3/4		3/4		3/4		3/4			
6	2,040.56	6	1,680.72	6	1,320.88	6	961.73	6	602.70	6	259.71	6		6		6		6			
1/4	2,033.06	1/4	1,673.22	1/4	1,313.38	1/4	954.26	1/4	595.22	1/4	253.01	1/4		1/4		1/4		1/4			
1/2	2,025.57	1/2	1,665.72	1/2	1,305.88	1/2	946.78	1/2	587.74	1/2	246.30	1/2		1/2		1/2		1/2			
3/4	2,018.07	3/4	1,658.23	3/4	1,298.39	3/4	939.31	3/4	580.26	3/4	239.67	3/4		3/4		3/4		3/4			
7	2,010.57	7	1,650.73	7	1,290.89	7	931.84	7	572.77	7	233.04	7		7		7		7			
1/4	2,003.08	1/4	1,643.23	1/4	1,283.39	1/4	924.36	1/4	565.29	1/4	226.41	1/4		1/4		1/4		1/4			
1/2	1,995.58	1/2	1,635.74	1/2	1,275.90	1/2	916.89	1/2	557.81	1/2	219.77	1/2		1/2		1/2		1/2			
3/4	1,988.08	3/4	1,628.24	3/4	1,268.40	3/4	909.42	3/4	550.37	3/4	213.22	3/4		3/4		3/4		3/4			
8	1,980.59	8	1,620.74	8	1,260.90	8	901.94	8	542.92	8	206.66	8		8		8		8			
1/4	1,973.09	1/4	1,613.25	1/4	1,253.41	1/4	894.47	1/4	535.48	1/4	200.11	1/4		1/4		1/4		1/4			
1/2	1,965.59	1/2	1,605.75	1/2	1,245.91	1/2	887.00	1/2	528.04	1/2	193.55	1/2		1/2		1/2		1/2			
3/4	1,958.10	3/4	1,598.25	3/4	1,238.41	3/4	879.52	3/4	520.67	3/4	187.07	3/4		3/4		3/4		3/4			
9	1,950.60	9	1,590.76	9	1,230.92	9	872.05	9	513.30	9	180.59	9		9		9		9			
1/4	1,943.10	1/4	1,583.26	1/4	1,223.42	1/4	864.57	1/4	505.93	1/4	174.11	1/4		1/4		1/4		1/4			
1/2	1,935.61	1/2	1,575.76	1/2	1,215.92	1/2	857.10	1/2	498.56	1/2	167.63	1/2		1/2		1/2		1/2			
3/4	1,928.11	3/4	1,568.27	3/4	1,208.43	3/4	849.63	3/4	491.25	3/4	161.22	3/4		3/4		3/4		3/4			
10	1,920.61	10	1,560.77	10	1,200.93	10	842.15	10	483.94	10	154.82	10		10		10		10			
1/4	1,913.12	1/4	1,553.27	1/4	1,193.43	1/4	834.68	1/4	476.64	1/4	148.41	1/4		1/4		1/4		1/4			
1/2	1,905.62	1/2	1,545.78	1/2	1,185.94	1/2	827.21	1/2	469.33	1/2	142.01	1/2		1/2		1/2		1/2			
3/4	1,898.12	3/4	1,538.28	3/4	1,178.46	3/4	819.71	3/4	462.10	3/4	135.68	3/4		3/4		3/4		3/4			
11	1,890.63	11	1,530.78	11	1,170.99	11	812.22	11	454.86	11	129.35	11		11		11		11			
1/4	1,883.13	1/4	1,523.29	1/4	1,163.51	1/4	804.72	1/4	447.63	1/4	123.02	1/4		1/4		1/4		1/4			
1/2	1,875.63	1/2	1,515.79	1/2	1,156.04	1/2	797.22	1/2	440.40	1/2	116.69	1/2		1/2		1/2		1/2			
3/4	1,868.14	3/4	1,508.29	3/4	1,148.57	3/4	789.74	3/4	433.24	3/4	110.43	3/4		3/4		3/4		3/4			

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 02/29/2016 SW
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CANCELS AND SUPERCEDES
ALL PRIOR TO 03/2016

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



BARGE "EMS 399"

1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-04 1/2"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	0	0	0	0	0	0	4,613.43	0	4,311.81	0	3,993.37	0	3,654.77	0	3,298.14	0	2,938.63	0	2,579.11
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,605.96	1/4	4,305.38	1/4	3,986.53	1/4	3,647.51	1/4	3,290.65	1/4	2,931.14	1/4	2,571.62
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,598.49	1/2	4,298.95	1/2	3,979.70	1/2	3,640.24	1/2	3,283.16	1/2	2,923.65	1/2	2,564.13
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,592.44	3/4	4,292.49	3/4	3,972.82	3/4	3,632.94	3/4	3,275.67	3/4	2,916.16	3/4	2,556.64
1	1	1	1	1	1	1	4,586.38	1	4,286.03	1	3,965.95	1	3,625.64	1	3,268.18	1	2,908.67	1	2,549.15
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,580.33	1/4	4,279.56	1/4	3,959.07	1/4	3,618.33	1/4	3,260.69	1/4	2,901.18	1/4	2,541.66
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,574.28	1/2	4,273.10	1/2	3,952.20	1/2	3,611.03	1/2	3,253.20	1/2	2,893.69	1/2	2,534.17
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,568.19	3/4	4,266.60	3/4	3,945.29	3/4	3,603.70	3/4	3,245.71	3/4	2,886.20	3/4	2,526.68
2	2	2	2	2	2	2	4,562.11	2	4,260.11	2	3,938.39	2	3,596.36	2	3,238.22	2	2,878.71	2	2,519.19
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,556.02	1/4	4,253.61	1/4	3,931.48	1/4	3,589.02	1/4	3,230.73	1/4	2,871.22	1/4	2,511.70
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,549.94	1/2	4,247.11	1/2	3,924.57	1/2	3,581.69	1/2	3,223.24	1/2	2,863.73	1/2	2,504.21
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,543.82	3/4	4,240.58	3/4	3,917.63	3/4	3,574.32	3/4	3,215.75	3/4	2,856.24	3/4	2,496.72
3	3	3	3	3	3	3	4,537.69	3	4,234.05	3	3,910.69	3	3,566.95	3	3,208.26	3	2,848.75	3	2,489.23
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,531.57	1/4	4,227.52	1/4	3,903.74	1/4	3,559.58	1/4	3,200.77	1/4	2,841.26	1/4	2,481.74
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,525.45	1/2	4,220.99	1/2	3,896.80	1/2	3,552.21	1/2	3,193.28	1/2	2,833.77	1/2	2,474.25
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,519.30	3/4	4,214.42	3/4	3,889.82	3/4	3,544.80	3/4	3,185.79	3/4	2,826.28	3/4	2,466.76
4	4	4	4	4	4	4	4,513.14	4	4,207.85	4	3,882.85	4	3,537.40	4	3,178.30	4	2,818.79	4	2,459.27
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,506.99	1/4	4,201.29	1/4	3,875.87	1/4	3,529.99	1/4	3,170.81	1/4	2,811.30	1/4	2,451.78
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,500.83	1/2	4,194.72	1/2	3,868.90	1/2	3,522.59	1/2	3,163.32	1/2	2,803.81	1/2	2,444.29
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,494.65	3/4	4,188.12	3/4	3,861.88	3/4	3,515.15	3/4	3,155.83	3/4	2,796.32	3/4	2,436.80
5	5	5	5	5	5	5	4,488.46	5	4,181.52	5	3,854.87	5	3,507.71	5	3,148.34	5	2,788.83	5	2,429.31
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,482.27	1/4	4,174.92	1/4	3,847.86	1/4	3,500.27	1/4	3,140.85	1/4	2,781.34	1/4	2,421.82
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,476.08	1/2	4,168.32	1/2	3,840.85	1/2	3,492.84	1/2	3,133.36	1/2	2,773.85	1/2	2,414.33
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,469.85	3/4	4,161.69	3/4	3,833.79	3/4	3,485.36	3/4	3,125.87	3/4	2,766.36	3/4	2,406.84
6	6	6	6	6	6	6	4,463.63	6	4,155.06	6	3,826.73	6	3,477.88	6	3,118.38	6	2,758.87	6	2,399.35
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,457.41	1/4	4,148.42	1/4	3,819.67	1/4	3,470.40	1/4	3,110.89	1/4	2,751.38	1/4	2,391.86
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,451.18	1/2	4,141.79	1/2	3,812.60	1/2	3,462.92	1/2	3,103.40	1/2	2,743.89	1/2	2,384.37
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,444.93	3/4	4,135.12	3/4	3,805.51	3/4	3,455.43	3/4	3,095.91	3/4	2,736.40	3/4	2,376.88
7	7	7	7	7	7	7	4,438.67	7	4,128.45	7	3,798.41	7	3,447.94	7	3,088.42	7	2,728.91	7	2,369.39
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,432.41	1/4	4,121.78	1/4	3,791.32	1/4	3,440.45	1/4	3,080.93	1/4	2,721.42	1/4	2,361.90
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,426.15	1/2	4,115.11	1/2	3,784.22	1/2	3,432.96	1/2	3,073.44	1/2	2,713.93	1/2	2,354.41
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,419.86	3/4	4,108.41	3/4	3,777.09	3/4	3,425.47	3/4	3,065.95	3/4	2,706.44	3/4	2,346.92
8	8	8	8	8	8	8	4,413.57	8	4,101.71	8	3,769.96	8	3,417.98	8	3,058.46	8	2,698.95	8	2,339.43
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,407.28	1/4	4,095.01	1/4	3,762.83	1/4	3,410.49	1/4	3,050.97	1/4	2,691.46	1/4	2,331.94
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,400.99	1/2	4,088.30	1/2	3,755.70	1/2	3,403.00	1/2	3,043.48	1/2	2,683.97	1/2	2,324.45
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,394.66	3/4	4,081.57	3/4	3,748.53	3/4	3,395.51	3/4	3,035.99	3/4	2,676.48	3/4	2,316.96
9	9	9	9	9	9	9	4,388.34	9	4,074.83	9	3,741.37	9	3,388.02	9	3,028.50	9	2,668.99	9	2,309.47
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,382.01	1/4	4,068.09	1/4	3,734.20	1/4	3,380.53	1/4	3,021.01	1/4	2,661.50	1/4	2,301.98
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,375.68	1/2	4,061.36	1/2	3,727.04	1/2	3,373.04	1/2	3,013.52	1/2	2,654.01	1/2	2,294.49
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,369.32	3/4	4,054.59	3/4	3,719.84	3/4	3,365.55	3/4	3,006.03	3/4	2,646.52	3/4	2,287.00
10	10	10	10	10	10	10	4,362.96	10	4,047.82	10	3,712.64	10	3,358.06	10	2,998.54	10	2,639.03	10	2,279.51
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,356.60	1/4	4,041.05	1/4	3,705.44	1/4	3,350.57	1/4	2,991.05	1/4	2,631.54	1/4	2,272.02
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,350.24	1/2	4,034.27	1/2	3,698.24	1/2	3,343.08	1/2	2,983.56	1/2	2,624.05	1/2	2,264.53
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,343.85	3/4	4,027.47	3/4	3,691.01	3/4	3,335.59	3/4	2,976.07	3/4	2,616.56	3/4	2,257.04
11	11	11	11	11	11	11	4,337.45	11	4,020.66	11	3,683.78	11	3,328.10	11	2,968.58	11	2,609.07	11	2,249.55
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,331.06	1/4	4,013.86	1/4	3,676.54	1/4	3,320.61	1/4	2,961.09	1/4	2,601.58	1/4	2,242.06
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,324.67	1/2	4,007.05	1/2	3,669.31	1/2	3,313.12	1/2	2,953.60	1/2	2,594.09	1/2	2,234.57
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,318.24	3/4	4,000.21	3/4	3,662.04	3/4	3,305.63	3/4	2,946.12	3/4	2,586.60	3/4	2,227.08

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'-06" OFF CENTERLINE AND 51'-00" FORWARD OF AFT BULKHEAD

PRECISION MEASUREMENT
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BARGE "EMS 399"

1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-04 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
	2,219.59		1,860.08		1,500.56		1,141.05		781.56		425.70		104.08								
1/4	2,212.10	1/4	1,852.59	1/4	1,493.07	1/4	1,133.56	1/4	774.09	1/4	418.55	1/4	97.83	1/4		1/4		1/4			
1/2	2,204.61	1/2	1,845.10	1/2	1,485.58	1/2	1,126.07	1/2	766.61	1/2	411.40	1/2	91.58	1/2		1/2		1/2			
3/4	2,197.12	3/4	1,837.61	3/4	1,478.09	3/4	1,118.58	3/4	759.14	3/4	404.32	3/4	85.41	3/4		3/4		3/4			
1	2,189.64	1	1,830.12	1	1,470.60	1	1,111.09	1	751.66	1	397.25	1	79.24	1		1		1			
1/4	2,182.15	1/4	1,822.63	1/4	1,463.11	1/4	1,103.60	1/4	744.19	1/4	390.17	1/4	73.06	1/4		1/4		1/4			
1/2	2,174.66	1/2	1,815.14	1/2	1,455.62	1/2	1,096.11	1/2	736.71	1/2	383.10	1/2	66.89	1/2		1/2		1/2			
3/4	2,167.17	3/4	1,807.65	3/4	1,448.13	3/4	1,088.62	3/4	729.24	3/4	376.09	3/4	60.79	3/4		3/4		3/4			
2	2,159.68	2	1,800.16	2	1,440.65	2	1,081.13	2	721.76	2	369.09	2	54.69	2		2		2			
1/4	2,152.19	1/4	1,792.67	1/4	1,433.16	1/4	1,073.64	1/4	714.29	1/4	362.09	1/4	48.59	1/4		1/4		1/4			
1/2	2,144.70	1/2	1,785.18	1/2	1,425.67	1/2	1,066.15	1/2	706.81	1/2	355.09	1/2	42.49	1/2		1/2		1/2			
3/4	2,137.21	3/4	1,777.69	3/4	1,418.18	3/4	1,058.66	3/4	699.34	3/4	348.16	3/4	36.74	3/4		3/4		3/4			
3	2,129.72	3	1,770.20	3	1,410.69	3	1,051.17	3	691.87	3	341.24	3	30.98	3		3		3			
1/4	2,122.23	1/4	1,762.71	1/4	1,403.20	1/4	1,043.68	1/4	684.39	1/4	334.31	1/4	25.22	1/4		1/4		1/4			
1/2	2,114.74	1/2	1,755.22	1/2	1,395.71	1/2	1,036.19	1/2	676.92	1/2	327.39	1/2	19.47	1/2		1/2		1/2			
3/4	2,107.25	3/4	1,747.73	3/4	1,388.22	3/4	1,028.70	3/4	669.44	3/4	320.54	3/4	15.66	3/4		3/4		3/4			
4	2,099.76	4	1,740.24	4	1,380.73	4	1,021.21	4	661.97	4	313.69	4	11.85	4		4		4			
1/4	2,092.27	1/4	1,732.75	1/4	1,373.24	1/4	1,013.72	1/4	654.49	1/4	306.83	1/4	8.04	1/4		1/4		1/4			
1/2	2,084.78	1/2	1,725.26	1/2	1,365.75	1/2	1,006.23	1/2	647.02	1/2	299.98	1/2	4.23	1/2		1/2		1/2			
3/4	2,077.29	3/4	1,717.77	3/4	1,358.26	3/4	998.74	3/4	639.54	3/4	293.21	3/4		3/4		3/4		3/4			
5	2,069.80	5	1,710.28	5	1,350.77	5	991.25	5	632.07	5	286.43	5		5		5		5			
1/4	2,062.31	1/4	1,702.79	1/4	1,343.28	1/4	983.76	1/4	624.59	1/4	279.66	1/4		1/4		1/4		1/4			
1/2	2,054.82	1/2	1,695.30	1/2	1,335.79	1/2	976.27	1/2	617.12	1/2	272.88	1/2		1/2		1/2		1/2			
3/4	2,047.33	3/4	1,687.81	3/4	1,328.30	3/4	968.78	3/4	609.64	3/4	266.18	3/4		3/4		3/4		3/4			
6	2,039.84	6	1,680.32	6	1,320.81	6	961.29	6	602.17	6	259.48	6		6		6		6			
1/4	2,032.35	1/4	1,672.83	1/4	1,313.32	1/4	953.80	1/4	594.69	1/4	252.78	1/4		1/4		1/4		1/4			
1/2	2,024.86	1/2	1,665.34	1/2	1,305.83	1/2	946.31	1/2	587.22	1/2	246.08	1/2		1/2		1/2		1/2			
3/4	2,017.37	3/4	1,657.85	3/4	1,298.34	3/4	938.82	3/4	579.74	3/4	239.45	3/4		3/4		3/4		3/4			
7	2,009.88	7	1,650.36	7	1,290.85	7	931.33	7	572.27	7	232.83	7		7		7		7			
1/4	2,002.39	1/4	1,642.87	1/4	1,283.36	1/4	923.84	1/4	564.79	1/4	226.20	1/4		1/4		1/4		1/4			
1/2	1,994.90	1/2	1,635.38	1/2	1,275.87	1/2	916.35	1/2	557.32	1/2	219.58	1/2		1/2		1/2		1/2			
3/4	1,987.41	3/4	1,627.89	3/4	1,268.38	3/4	908.86	3/4	549.88	3/4	213.03	3/4		3/4		3/4		3/4			
8	1,979.92	8	1,620.40	8	1,260.89	8	901.37	8	542.44	8	206.48	8		8		8		8			
1/4	1,972.43	1/4	1,612.91	1/4	1,253.40	1/4	893.88	1/4	535.00	1/4	199.93	1/4		1/4		1/4		1/4			
1/2	1,964.94	1/2	1,605.42	1/2	1,245.91	1/2	886.39	1/2	527.57	1/2	193.38	1/2		1/2		1/2		1/2			
3/4	1,957.45	3/4	1,597.93	3/4	1,238.42	3/4	878.90	3/4	520.21	3/4	186.90	3/4		3/4		3/4		3/4			
9	1,949.96	9	1,590.44	9	1,230.93	9	871.41	9	512.84	9	180.43	9		9		9		9			
1/4	1,942.47	1/4	1,582.95	1/4	1,223.44	1/4	863.92	1/4	505.48	1/4	173.95	1/4		1/4		1/4		1/4			
1/2	1,934.98	1/2	1,575.46	1/2	1,215.95	1/2	856.43	1/2	498.12	1/2	167.48	1/2		1/2		1/2		1/2			
3/4	1,927.49	3/4	1,567.97	3/4	1,208.46	3/4	848.94	3/4	490.82	3/4	161.08	3/4		3/4		3/4		3/4			
10	1,920.00	10	1,560.48	10	1,200.97	10	841.45	10	483.52	10	154.68	10		10		10		10			
1/4	1,912.51	1/4	1,552.99	1/4	1,193.48	1/4	833.96	1/4	476.21	1/4	148.28	1/4		1/4		1/4		1/4			
1/2	1,905.02	1/2	1,545.50	1/2	1,185.99	1/2	826.47	1/2	468.91	1/2	141.88	1/2		1/2		1/2		1/2			
3/4	1,897.53	3/4	1,538.01	3/4	1,178.50	3/4	818.98	3/4	461.69	3/4	135.56	3/4		3/4		3/4		3/4			
11	1,890.04	11	1,530.52	11	1,171.01	11	811.49	11	454.46	11	129.23	11		11		11		11			
1/4	1,882.55	1/4	1,523.03	1/4	1,163.52	1/4	804.00	1/4	447.23	1/4	122.91	1/4		1/4		1/4		1/4			
1/2	1,875.06	1/2	1,515.54	1/2	1,156.03	1/2	796.51	1/2	440.01	1/2	116.58	1/2		1/2		1/2		1/2			
3/4	1,867.57	3/4	1,508.05	3/4	1,148.54	3/4	789.04	3/4	432.85	3/4	110.33	3/4		3/4		3/4		3/4			

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 02/29/2016 SW
CALCULATED: 03/01/2016 CL
PRINTED: 03/01/2016 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 03/2016

PRECISION MEASUREMENT
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