



BARGE "HFL 3009"

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	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8
1 STBD	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8
2 PORT	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8
2 STBD	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8
3 PORT	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8
3 STBD	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

FWD. DRAFT = 1'-00"
 AFT DRAFT = 4'-00"
 DIFF. = 3'-00" (DOWN BY STERN)

THE CORRECTION FOR 3'-00" TRIM DOWN BY STERN FOR 3 PORT IS 00-1/8"
 FOR A MEASURED ULLAGE GAUGE OF 4'-00" ON 3 PORT, THE TRIM CORRECTED ULLAGE IS 4'-00 1/8"

LENGTH BETWEEN DRAFT MARKS: 238'-06"

January 15, 2017

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

<http://www.pmacorp.net>



BARGE "HFL 3009"

1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15' 05 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	200,827	0	185,826	0	170,808	0	155,760	0	140,712	0	125,664	0	110,616	0	95,563
1/4		1/4		1/4	200,515	1/4	185,513	1/4	170,495	1/4	155,447	1/4	140,399	1/4	125,351	1/4	110,303	1/4	95,249
1/2		1/2		1/2	200,204	1/2	185,201	1/2	170,181	1/2	155,133	1/2	140,085	1/2	125,037	1/2	109,989	1/2	94,936
3/4		3/4		3/4	199,892	3/4	184,888	3/4	169,868	3/4	154,820	3/4	139,772	3/4	124,724	3/4	109,676	3/4	94,622
1		1		1	199,580	1	184,576	1	169,554	1	154,506	1	139,458	1	124,410	1	109,362	1	94,308
1/4		1/4		1/4	199,267	1/4	184,263	1/4	169,241	1/4	154,193	1/4	139,145	1/4	124,097	1/4	109,049	1/4	93,995
1/2		1/2		1/2	198,954	1/2	183,950	1/2	168,927	1/2	153,879	1/2	138,831	1/2	123,783	1/2	108,735	1/2	93,681
3/4		3/4		3/4	198,642	3/4	183,638	3/4	168,614	3/4	153,566	3/4	138,518	3/4	123,470	3/4	108,422	3/4	93,367
2		2		2	198,329	2	183,325	2	168,300	2	153,252	2	138,204	2	123,156	2	108,108	2	93,054
1/4		1/4		1/4	198,017	1/4	183,013	1/4	167,987	1/4	152,939	1/4	137,891	1/4	122,843	1/4	107,794	1/4	92,740
1/2		1/2		1/2	197,704	1/2	182,700	1/2	167,673	1/2	152,625	1/2	137,577	1/2	122,529	1/2	107,481	1/2	92,426
3/4		3/4	211,343	3/4	197,392	3/4	182,387	3/4	167,360	3/4	152,312	3/4	137,264	3/4	122,216	3/4	107,167	3/4	92,113
3		3	211,163	3	197,079	3	182,075	3	167,046	3	151,998	3	136,950	3	121,902	3	106,854	3	91,799
1/4		1/4	210,983	1/4	196,766	1/4	181,762	1/4	166,733	1/4	151,685	1/4	136,637	1/4	121,589	1/4	106,540	1/4	91,486
1/2		1/2	210,803	1/2	196,454	1/2	181,450	1/2	166,419	1/2	151,371	1/2	136,323	1/2	121,275	1/2	106,226	1/2	91,172
3/4		3/4	210,623	3/4	196,141	3/4	181,137	3/4	166,106	3/4	151,058	3/4	136,010	3/4	120,962	3/4	105,913	3/4	90,858
4		4	210,391	4	195,829	4	180,825	4	165,792	4	150,744	4	135,696	4	120,648	4	105,599	4	90,545
1/4		1/4	210,159	1/4	195,516	1/4	180,512	1/4	165,479	1/4	150,431	1/4	135,383	1/4	120,335	1/4	105,285	1/4	90,231
1/2		1/2	209,927	1/2	195,203	1/2	180,199	1/2	165,165	1/2	150,117	1/2	135,069	1/2	120,021	1/2	104,972	1/2	89,917
3/4		3/4	209,695	3/4	194,891	3/4	179,887	3/4	164,852	3/4	149,804	3/4	134,756	3/4	119,708	3/4	104,658	3/4	89,604
5		5	209,414	5	194,578	5	179,574	5	164,538	5	149,490	5	134,442	5	119,394	5	104,345	5	89,290
1/4		1/4	209,133	1/4	194,266	1/4	179,262	1/4	164,225	1/4	149,177	1/4	134,129	1/4	119,081	1/4	104,031	1/4	88,976
1/2		1/2	208,853	1/2	193,953	1/2	178,949	1/2	163,911	1/2	148,863	1/2	133,815	1/2	118,767	1/2	103,717	1/2	88,663
3/4		3/4	208,572	3/4	193,641	3/4	178,636	3/4	163,598	3/4	148,550	3/4	133,502	3/4	118,454	3/4	103,404	3/4	88,349
6		6	208,266	6	193,328	6	178,324	6	163,284	6	148,236	6	133,188	6	118,140	6	103,090	6	88,036
1/4		1/4	207,959	1/4	193,015	1/4	178,011	1/4	162,971	1/4	147,923	1/4	132,875	1/4	117,827	1/4	102,776	1/4	87,722
1/2		1/2	207,653	1/2	192,703	1/2	177,699	1/2	162,657	1/2	147,609	1/2	132,561	1/2	117,513	1/2	102,463	1/2	87,408
3/4		3/4	207,347	3/4	192,390	3/4	177,386	3/4	162,344	3/4	147,296	3/4	132,248	3/4	117,200	3/4	102,149	3/4	87,095
7		7	207,037	7	192,078	7	177,074	7	162,030	7	146,982	7	131,934	7	116,886	7	101,836	7	86,781
1/4		1/4	206,726	1/4	191,765	1/4	176,761	1/4	161,717	1/4	146,669	1/4	131,621	1/4	116,573	1/4	101,522	1/4	86,467
1/2		1/2	206,416	1/2	191,452	1/2	176,448	1/2	161,403	1/2	146,355	1/2	131,307	1/2	116,259	1/2	101,208	1/2	86,154
3/4		3/4	206,106	3/4	191,140	3/4	176,136	3/4	161,090	3/4	146,042	3/4	130,994	3/4	115,946	3/4	100,895	3/4	85,840
8		8	205,796	8	190,827	8	175,823	8	160,776	8	145,728	8	130,680	8	115,632	8	100,581	8	85,526
1/4		1/4	205,485	1/4	190,515	1/4	175,510	1/4	160,463	1/4	145,415	1/4	130,367	1/4	115,319	1/4	100,267	1/4	85,213
1/2		1/2	205,175	1/2	190,202	1/2	175,197	1/2	160,149	1/2	145,101	1/2	130,053	1/2	115,005	1/2	99,954	1/2	84,899
3/4		3/4	204,864	3/4	189,890	3/4	174,884	3/4	159,836	3/4	144,788	3/4	129,740	3/4	114,692	3/4	99,640	3/4	84,586
9		9	204,554	9	189,577	9	174,570	9	159,522	9	144,474	9	129,426	9	114,378	9	99,326	9	84,272
1/4		1/4	204,243	1/4	189,264	1/4	174,257	1/4	159,209	1/4	144,161	1/4	129,113	1/4	114,065	1/4	99,013	1/4	83,958
1/2		1/2	203,933	1/2	188,952	1/2	173,943	1/2	158,895	1/2	143,847	1/2	128,799	1/2	113,751	1/2	98,699	1/2	83,645
3/4		3/4	203,622	3/4	188,639	3/4	173,630	3/4	158,582	3/4	143,534	3/4	128,486	3/4	113,438	3/4	98,386	3/4	83,331
10		10	203,312	10	188,327	10	173,316	10	158,268	10	143,220	10	128,172	10	113,124	10	98,072	10	83,017
1/4		1/4	203,001	1/4	188,014	1/4	173,003	1/4	157,955	1/4	142,907	1/4	127,859	1/4	112,811	1/4	97,758	1/4	82,704
1/2		1/2	202,691	1/2	187,701	1/2	172,689	1/2	157,641	1/2	142,593	1/2	127,545	1/2	112,497	1/2	97,445	1/2	82,390
3/4		3/4	202,380	3/4	187,389	3/4	172,376	3/4	157,328	3/4	142,280	3/4	127,232	3/4	112,184	3/4	97,131	3/4	82,076
11		11	202,070	11	187,076	11	172,062	11	157,014	11	141,966	11	126,918	11	111,870	11	96,817	11	81,763
1/4		1/4	201,759	1/4	186,764	1/4	171,749	1/4	156,701	1/4	141,653	1/4	126,605	1/4	111,557	1/4	96,504	1/4	81,449
1/2		1/2	201,449	1/2	186,451	1/2	171,435	1/2	156,387	1/2	141,339	1/2	126,291	1/2	111,243	1/2	96,190	1/2	81,136
3/4		3/4	201,138	3/4	186,138	3/4	171,122	3/4	156,074	3/4	141,026	3/4	125,978	3/4	110,930	3/4	95,876	3/4	80,822

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 TO TOP OF THREADS ON "MMC" VALVE.
 GAUGE POINT: (MMC) LOCATED 10'-09" OFF CENTERLINE AND 42'-06" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
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BARGE "HFL 3009"

1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15' 05 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	80,508	0	65,454	0	50,497	0	35,450	0	20,396	0	6,079	0		0		0		0	
1/4	80,195	1/4	65,140	1/4	50,185	1/4	35,136	1/4	20,082	1/4	5,804	1/4		1/4		1/4		1/4	
1/2	79,881	1/2	64,827	1/2	49,872	1/2	34,823	1/2	19,769	1/2	5,529	1/2		1/2		1/2		1/2	
3/4	79,567	3/4	64,514	3/4	49,560	3/4	34,509	3/4	19,455	3/4	5,254	3/4		3/4		3/4		3/4	
1	79,254	1	64,201	1	49,247	1	34,196	1	19,141	1	4,983	1		1		1		1	
1/4	78,940	1/4	63,889	1/4	48,934	1/4	33,882	1/4	18,828	1/4	4,712	1/4		1/4		1/4		1/4	
1/2	78,626	1/2	63,576	1/2	48,622	1/2	33,568	1/2	18,514	1/2	4,441	1/2		1/2		1/2		1/2	
3/4	78,313	3/4	63,264	3/4	48,309	3/4	33,255	3/4	18,201	3/4	4,170	3/4		3/4		3/4		3/4	
2	77,999	2	62,953	2	47,995	2	32,941	2	17,888	2	3,903	2		2		2		2	
1/4	77,686	1/4	62,641	1/4	47,681	1/4	32,627	1/4	17,575	1/4	3,636	1/4		1/4		1/4		1/4	
1/2	77,372	1/2	62,330	1/2	47,368	1/2	32,314	1/2	17,263	1/2	3,369	1/2		1/2		1/2		1/2	
3/4	77,058	3/4	62,018	3/4	47,054	3/4	32,000	3/4	16,950	3/4	3,102	3/4		3/4		3/4		3/4	
3	76,745	3	61,707	3	46,741	3	31,686	3	16,640	3	2,839	3		3		3		3	
1/4	76,431	1/4	61,396	1/4	46,427	1/4	31,373	1/4	16,330	1/4	2,577	1/4		1/4		1/4		1/4	
1/2	76,117	1/2	61,084	1/2	46,113	1/2	31,059	1/2	16,021	1/2	2,314	1/2		1/2		1/2		1/2	
3/4	75,804	3/4	60,773	3/4	45,800	3/4	30,746	3/4	15,711	3/4	2,052	3/4		3/4		3/4		3/4	
4	75,490	4	60,462	4	45,486	4	30,432	4	15,405	4	1,813	4		4		4		4	
1/4	75,176	1/4	60,151	1/4	45,172	1/4	30,118	1/4	15,099	1/4	1,573	1/4		1/4		1/4		1/4	
1/2	74,863	1/2	59,839	1/2	44,859	1/2	29,805	1/2	14,793	1/2	1,334	1/2		1/2		1/2		1/2	
3/4	74,549	3/4	59,528	3/4	44,545	3/4	29,491	3/4	14,487	3/4	1,095	3/4		3/4		3/4		3/4	
5	74,236	5	59,217	5	44,232	5	29,177	5	14,185	5	918	5		5		5		5	
1/4	73,922	1/4	58,905	1/4	43,918	1/4	28,864	1/4	13,883	1/4	740	1/4		1/4		1/4		1/4	
1/2	73,608	1/2	58,594	1/2	43,604	1/2	28,550	1/2	13,581	1/2	563	1/2		1/2		1/2		1/2	
3/4	73,295	3/4	58,283	3/4	43,291	3/4	28,237	3/4	13,279	3/4	386	3/4		3/4		3/4		3/4	
6	72,981	6	57,972	6	42,977	6	27,923	6	12,981	6		6		6		6		6	
1/4	72,667	1/4	57,660	1/4	42,663	1/4	27,609	1/4	12,683	1/4		1/4		1/4		1/4		1/4	
1/2	72,354	1/2	57,349	1/2	42,350	1/2	27,296	1/2	12,385	1/2		1/2		1/2		1/2		1/2	
3/4	72,040	3/4	57,038	3/4	42,036	3/4	26,982	3/4	12,086	3/4		3/4		3/4		3/4		3/4	
7	71,726	7	56,727	7	41,723	7	26,668	7	11,792	7		7		7		7		7	
1/4	71,413	1/4	56,415	1/4	41,409	1/4	26,355	1/4	11,498	1/4		1/4		1/4		1/4		1/4	
1/2	71,099	1/2	56,104	1/2	41,095	1/2	26,041	1/2	11,203	1/2		1/2		1/2		1/2		1/2	
3/4	70,786	3/4	55,793	3/4	40,782	3/4	25,728	3/4	10,909	3/4		3/4		3/4		3/4		3/4	
8	70,472	8	55,482	8	40,468	8	25,414	8	10,619	8		8		8		8		8	
1/4	70,158	1/4	55,170	1/4	40,154	1/4	25,100	1/4	10,328	1/4		1/4		1/4		1/4		1/4	
1/2	69,845	1/2	54,859	1/2	39,841	1/2	24,787	1/2	10,038	1/2		1/2		1/2		1/2		1/2	
3/4	69,531	3/4	54,548	3/4	39,527	3/4	24,473	3/4	9,747	3/4		3/4		3/4		3/4		3/4	
9	69,217	9	54,237	9	39,214	9	24,159	9	9,461	9		9		9		9		9	
1/4	68,904	1/4	53,925	1/4	38,900	1/4	23,846	1/4	9,174	1/4		1/4		1/4		1/4		1/4	
1/2	68,590	1/2	53,614	1/2	38,586	1/2	23,532	1/2	8,887	1/2		1/2		1/2		1/2		1/2	
3/4	68,276	3/4	53,303	3/4	38,273	3/4	23,219	3/4	8,601	3/4		3/4		3/4		3/4		3/4	
10	67,963	10	52,991	10	37,959	10	22,905	10	8,318	10		10		10		10		10	
1/4	67,649	1/4	52,680	1/4	37,645	1/4	22,591	1/4	8,035	1/4		1/4		1/4		1/4		1/4	
1/2	67,336	1/2	52,368	1/2	37,332	1/2	22,278	1/2	7,753	1/2		1/2		1/2		1/2		1/2	
3/4	67,022	3/4	52,057	3/4	37,018	3/4	21,964	3/4	7,470	3/4		3/4		3/4		3/4		3/4	
11	66,708	11	51,745	11	36,705	11	21,650	11	7,191	11		11		11		11		11	
1/4	66,395	1/4	51,433	1/4	36,391	1/4	21,337	1/4	6,912	1/4		1/4		1/4		1/4		1/4	
1/2	66,081	1/2	51,121	1/2	36,077	1/2	21,023	1/2	6,633	1/2		1/2		1/2		1/2		1/2	
3/4	65,767	3/4	50,809	3/4	35,764	3/4	20,710	3/4	6,354	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 01/13/2017 SW
CALCULATED: 01/14/2017 CL
PRINTED: 01/16/2017 JS

CANCELS AND SUPERCEDES
ALL PRIOR TO 01/2017

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



BARGE "HFL 3009"

1 STBD ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15' 05 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	200,683	0	185,676	0	170,652	0	155,598	0	140,545	0	125,492	0	110,439	0	95,380
1/4		1/4		1/4	200,372	1/4	185,363	1/4	170,338	1/4	155,285	1/4	140,231	1/4	125,178	1/4	110,125	1/4	95,066
1/2		1/2		1/2	200,060	1/2	185,051	1/2	170,025	1/2	154,971	1/2	139,918	1/2	124,865	1/2	109,811	1/2	94,752
3/4		3/4		3/4	199,747	3/4	184,738	3/4	169,711	3/4	154,658	3/4	139,604	3/4	124,551	3/4	109,498	3/4	94,439
1		1		1	199,435	1	184,425	1	169,397	1	154,344	1	139,291	1	124,237	1	109,184	1	94,125
1/4		1/4		1/4	199,122	1/4	184,113	1/4	169,084	1/4	154,030	1/4	138,977	1/4	123,924	1/4	108,871	1/4	93,811
1/2		1/2		1/2	198,809	1/2	183,800	1/2	168,770	1/2	153,717	1/2	138,663	1/2	123,610	1/2	108,557	1/2	93,498
3/4		3/4		3/4	198,497	3/4	183,487	3/4	168,457	3/4	153,403	3/4	138,350	3/4	123,296	3/4	108,243	3/4	93,184
2		2		2	198,184	2	183,174	2	168,143	2	153,090	2	138,036	2	122,983	2	107,930	2	92,870
1/4		1/4		1/4	197,871	1/4	182,862	1/4	167,829	1/4	152,776	1/4	137,722	1/4	122,669	1/4	107,616	1/4	92,556
1/2		1/2	211,515	1/2	197,559	1/2	182,549	1/2	167,516	1/2	152,462	1/2	137,409	1/2	122,356	1/2	107,302	1/2	92,243
3/4		3/4	211,335	3/4	197,246	3/4	182,236	3/4	167,202	3/4	152,149	3/4	137,095	3/4	122,042	3/4	106,988	3/4	91,929
3		3	211,155	3	196,933	3	181,924	3	166,888	3	151,835	3	136,782	3	121,728	3	106,675	3	91,615
1/4		1/4	210,975	1/4	196,620	1/4	181,611	1/4	166,575	1/4	151,521	1/4	136,468	1/4	121,415	1/4	106,361	1/4	91,301
1/2		1/2	210,795	1/2	196,308	1/2	181,298	1/2	166,261	1/2	151,208	1/2	136,154	1/2	121,101	1/2	106,047	1/2	90,988
3/4		3/4	210,563	3/4	195,995	3/4	180,986	3/4	165,948	3/4	150,894	3/4	135,841	3/4	120,788	3/4	105,734	3/4	90,674
4		4	210,331	4	195,682	4	180,673	4	165,634	4	150,581	4	135,527	4	120,474	4	105,420	4	90,360
1/4		1/4	210,098	1/4	195,370	1/4	180,360	1/4	165,320	1/4	150,267	1/4	135,214	1/4	120,160	1/4	105,106	1/4	90,046
1/2		1/2	209,866	1/2	195,057	1/2	180,047	1/2	165,007	1/2	149,953	1/2	134,900	1/2	119,847	1/2	104,792	1/2	89,733
3/4		3/4	209,585	3/4	194,744	3/4	179,735	3/4	164,693	3/4	149,640	3/4	134,586	3/4	119,533	3/4	104,479	3/4	89,419
5		5	209,305	5	194,432	5	179,422	5	164,380	5	149,326	5	134,273	5	119,220	5	104,165	5	89,105
1/4		1/4	209,024	1/4	194,119	1/4	179,109	1/4	164,066	1/4	149,013	1/4	133,959	1/4	118,906	1/4	103,851	1/4	88,791
1/2		1/2	208,743	1/2	193,806	1/2	178,797	1/2	163,752	1/2	148,699	1/2	133,646	1/2	118,592	1/2	103,537	1/2	88,478
3/4		3/4	208,437	3/4	193,493	3/4	178,484	3/4	163,439	3/4	148,385	3/4	133,332	3/4	118,279	3/4	103,224	3/4	88,164
6		6	208,130	6	193,181	6	178,171	6	163,125	6	148,072	6	133,018	6	117,965	6	102,910	6	87,850
1/4		1/4	207,824	1/4	192,868	1/4	177,859	1/4	162,812	1/4	147,758	1/4	132,705	1/4	117,652	1/4	102,596	1/4	87,536
1/2		1/2	207,517	1/2	192,555	1/2	177,546	1/2	162,498	1/2	147,444	1/2	132,391	1/2	117,338	1/2	102,282	1/2	87,223
3/4		3/4	207,207	3/4	192,243	3/4	177,233	3/4	162,184	3/4	147,131	3/4	132,078	3/4	117,024	3/4	101,969	3/4	86,909
7		7	206,897	7	191,930	7	176,920	7	161,871	7	146,817	7	131,764	7	116,711	7	101,655	7	86,595
1/4		1/4	206,587	1/4	191,617	1/4	176,608	1/4	161,557	1/4	146,504	1/4	131,450	1/4	116,397	1/4	101,341	1/4	86,281
1/2		1/2	206,276	1/2	191,305	1/2	176,295	1/2	161,243	1/2	146,190	1/2	131,137	1/2	116,084	1/2	101,027	1/2	85,968
3/4		3/4	205,966	3/4	190,992	3/4	175,982	3/4	160,930	3/4	145,876	3/4	130,823	3/4	115,770	3/4	100,714	3/4	85,654
8		8	205,655	8	190,679	8	175,669	8	160,616	8	145,563	8	130,509	8	115,456	8	100,400	8	85,340
1/4		1/4	205,345	1/4	190,366	1/4	175,356	1/4	160,303	1/4	145,249	1/4	130,196	1/4	115,143	1/4	100,086	1/4	85,026
1/2		1/2	205,034	1/2	190,054	1/2	175,042	1/2	159,989	1/2	144,936	1/2	129,882	1/2	114,829	1/2	99,772	1/2	84,713
3/4		3/4	204,723	3/4	189,741	3/4	174,729	3/4	159,675	3/4	144,622	3/4	129,569	3/4	114,515	3/4	99,459	3/4	84,399
9		9	204,413	9	189,428	9	174,415	9	159,362	9	144,308	9	129,255	9	114,202	9	99,145	9	84,085
1/4		1/4	204,102	1/4	189,116	1/4	174,102	1/4	159,048	1/4	143,995	1/4	128,941	1/4	113,888	1/4	98,831	1/4	83,771
1/2		1/2	203,791	1/2	188,803	1/2	173,788	1/2	158,735	1/2	143,681	1/2	128,628	1/2	113,575	1/2	98,517	1/2	83,458
3/4		3/4	203,481	3/4	188,490	3/4	173,474	3/4	158,421	3/4	143,367	3/4	128,314	3/4	113,261	3/4	98,204	3/4	83,144
10		10	203,170	10	188,178	10	173,161	10	158,107	10	143,054	10	128,001	10	112,947	10	97,890	10	82,830
1/4		1/4	202,859	1/4	187,865	1/4	172,847	1/4	157,794	1/4	142,740	1/4	127,687	1/4	112,634	1/4	97,576	1/4	82,516
1/2		1/2	202,549	1/2	187,552	1/2	172,534	1/2	157,480	1/2	142,427	1/2	127,373	1/2	112,320	1/2	97,262	1/2	82,203
3/4		3/4	202,238	3/4	187,239	3/4	172,220	3/4	157,166	3/4	142,113	3/4	127,060	3/4	112,007	3/4	96,949	3/4	81,889
11		11	201,928	11	186,927	11	171,906	11	156,853	11	141,799	11	126,746	11	111,693	11	96,635	11	81,575
1/4		1/4	201,617	1/4	186,614	1/4	171,593	1/4	156,539	1/4	141,486	1/4	126,433	1/4	111,379	1/4	96,321	1/4	81,261
1/2		1/2	201,307	1/2	186,301	1/2	171,279	1/2	156,226	1/2	141,172	1/2	126,119	1/2	111,066	1/2	96,007	1/2	80,948
3/4		3/4	200,995	3/4	185,989	3/4	170,965	3/4	155,912	3/4	140,859	3/4	125,805	3/4	110,752	3/4	95,694	3/4	80,634

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 TO TOP OF THREADS ON "MMC" VALVE.

GAUGE POINT: (MMC) LOCATED 10'-09" OFF CENTERLINE AND 42'-06" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092
Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "HFL 3009"

1 STBD ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15' 05 1/2"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	80,320	0	65,261	0	50,208	0	35,149	0	20,090	0	5,807	0		0		0		0	
1/4	80,007	1/4	64,947	1/4	49,895	1/4	34,835	1/4	19,776	1/4	5,532	1/4		1/4		1/4		1/4	
1/2	79,693	1/2	64,633	1/2	49,581	1/2	34,522	1/2	19,462	1/2	5,257	1/2		1/2		1/2		1/2	
3/4	79,379	3/4	64,319	3/4	49,267	3/4	34,208	3/4	19,149	3/4	4,985	3/4		3/4		3/4		3/4	
1	79,065	1	64,006	1	48,953	1	33,894	1	18,835	1	4,714	1		1		1		1	
1/4	78,752	1/4	63,692	1/4	48,640	1/4	33,580	1/4	18,521	1/4	4,443	1/4		1/4		1/4		1/4	
1/2	78,438	1/2	63,378	1/2	48,326	1/2	33,267	1/2	18,207	1/2	4,172	1/2		1/2		1/2		1/2	
3/4	78,124	3/4	63,064	3/4	48,012	3/4	32,953	3/4	17,895	3/4	3,905	3/4		3/4		3/4		3/4	
2	77,810	2	62,751	2	47,698	2	32,639	2	17,582	2	3,637	2		2		2		2	
1/4	77,497	1/4	62,437	1/4	47,385	1/4	32,325	1/4	17,269	1/4	3,370	1/4		1/4		1/4		1/4	
1/2	77,183	1/2	62,123	1/2	47,071	1/2	32,012	1/2	16,956	1/2	3,103	1/2		1/2		1/2		1/2	
3/4	76,869	3/4	61,810	3/4	46,757	3/4	31,698	3/4	16,646	3/4	2,841	3/4		3/4		3/4		3/4	
3	76,555	3	61,496	3	46,443	3	31,384	3	16,337	3	2,578	3		3		3		3	
1/4	76,242	1/4	61,183	1/4	46,130	1/4	31,071	1/4	16,027	1/4	2,316	1/4		1/4		1/4		1/4	
1/2	75,928	1/2	60,869	1/2	45,816	1/2	30,757	1/2	15,717	1/2	2,053	1/2		1/2		1/2		1/2	
3/4	75,614	3/4	60,556	3/4	45,502	3/4	30,443	3/4	15,411	3/4	1,814	3/4		3/4		3/4		3/4	
4	75,300	4	60,242	4	45,189	4	30,129	4	15,105	4	1,575	4		4		4		4	
1/4	74,987	1/4	59,929	1/4	44,875	1/4	29,816	1/4	14,799	1/4	1,335	1/4		1/4		1/4		1/4	
1/2	74,673	1/2	59,615	1/2	44,561	1/2	29,502	1/2	14,493	1/2	1,096	1/2		1/2		1/2		1/2	
3/4	74,359	3/4	59,302	3/4	44,247	3/4	29,188	3/4	14,191	3/4	919	3/4		3/4		3/4		3/4	
5	74,045	5	58,988	5	43,934	5	28,874	5	13,889	5	741	5		5		5		5	
1/4	73,732	1/4	58,674	1/4	43,620	1/4	28,561	1/4	13,586	1/4	564	1/4		1/4		1/4		1/4	
1/2	73,418	1/2	58,361	1/2	43,306	1/2	28,247	1/2	13,284	1/2	386	1/2		1/2		1/2		1/2	
3/4	73,104	3/4	58,047	3/4	42,992	3/4	27,933	3/4	12,986	3/4		3/4		3/4		3/4		3/4	
6	72,790	6	57,734	6	42,679	6	27,619	6	12,688	6		6		6		6		6	
1/4	72,477	1/4	57,420	1/4	42,365	1/4	27,306	1/4	12,389	1/4		1/4		1/4		1/4		1/4	
1/2	72,163	1/2	57,107	1/2	42,051	1/2	26,992	1/2	12,091	1/2		1/2		1/2		1/2		1/2	
3/4	71,849	3/4	56,793	3/4	41,737	3/4	26,678	3/4	11,797	3/4		3/4		3/4		3/4		3/4	
7	71,535	7	56,480	7	41,424	7	26,365	7	11,502	7		7		7		7		7	
1/4	71,222	1/4	56,166	1/4	41,110	1/4	26,051	1/4	11,208	1/4		1/4		1/4		1/4		1/4	
1/2	70,908	1/2	55,853	1/2	40,796	1/2	25,737	1/2	10,913	1/2		1/2		1/2		1/2		1/2	
3/4	70,594	3/4	55,539	3/4	40,483	3/4	25,423	3/4	10,623	3/4		3/4		3/4		3/4		3/4	
8	70,280	8	55,226	8	40,169	8	25,110	8	10,332	8		8		8		8		8	
1/4	69,967	1/4	54,912	1/4	39,855	1/4	24,796	1/4	10,042	1/4		1/4		1/4		1/4		1/4	
1/2	69,653	1/2	54,599	1/2	39,541	1/2	24,482	1/2	9,751	1/2		1/2		1/2		1/2		1/2	
3/4	69,339	3/4	54,285	3/4	39,228	3/4	24,168	3/4	9,464	3/4		3/4		3/4		3/4		3/4	
9	69,025	9	53,972	9	38,914	9	23,855	9	9,178	9		9		9		9		9	
1/4	68,712	1/4	53,658	1/4	38,600	1/4	23,541	1/4	8,891	1/4		1/4		1/4		1/4		1/4	
1/2	68,398	1/2	53,345	1/2	38,286	1/2	23,227	1/2	8,604	1/2		1/2		1/2		1/2		1/2	
3/4	68,084	3/4	53,031	3/4	37,973	3/4	22,913	3/4	8,322	3/4		3/4		3/4		3/4		3/4	
10	67,771	10	52,718	10	37,659	10	22,600	10	8,039	10		10		10		10		10	
1/4	67,457	1/4	52,404	1/4	37,345	1/4	22,286	1/4	7,756	1/4		1/4		1/4		1/4		1/4	
1/2	67,143	1/2	52,090	1/2	37,031	1/2	21,972	1/2	7,473	1/2		1/2		1/2		1/2		1/2	
3/4	66,829	3/4	51,777	3/4	36,718	3/4	21,658	3/4	7,194	3/4		3/4		3/4		3/4		3/4	
11	66,516	11	51,463	11	36,404	11	21,345	11	6,915	11		11		11		11		11	
1/4	66,202	1/4	51,149	1/4	36,090	1/4	21,031	1/4	6,636	1/4		1/4		1/4		1/4		1/4	
1/2	65,888	1/2	50,836	1/2	35,777	1/2	20,717	1/2	6,357	1/2		1/2		1/2		1/2		1/2	
3/4	65,574	3/4	50,522	3/4	35,463	3/4	20,404	3/4	6,082	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 01/13/2017 SW
CALCULATED: 01/14/2017 CL
PRINTED: 01/16/2017 JS

CANCELS AND SUPERCEDES
ALL PRIOR TO 01/2017

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



BARGE "HFL 3009"

2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15' 05 1/4"

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	201,805	0	186,797	0	171,770	0	156,709	0	141,649	0	126,589	0	111,528	0	96,462
1/4		1/4		1/4	201,493	1/4	186,484	1/4	171,456	1/4	156,396	1/4	141,335	1/4	126,275	1/4	111,215	1/4	96,148
1/2		1/2		1/2	201,181	1/2	186,172	1/2	171,142	1/2	156,082	1/2	141,022	1/2	125,961	1/2	110,901	1/2	95,834
3/4		3/4		3/4	200,868	3/4	185,859	3/4	170,828	3/4	155,768	3/4	140,708	3/4	125,647	3/4	110,587	3/4	95,520
1		1		1	200,555	1	185,546	1	170,515	1	155,454	1	140,394	1	125,334	1	110,273	1	95,206
1/4		1/4		1/4	200,243	1/4	185,233	1/4	170,201	1/4	155,141	1/4	140,080	1/4	125,020	1/4	109,960	1/4	94,892
1/2		1/2		1/2	199,930	1/2	184,921	1/2	169,887	1/2	154,827	1/2	139,766	1/2	124,706	1/2	109,646	1/2	94,578
3/4		3/4		3/4	199,617	3/4	184,608	3/4	169,573	3/4	154,513	3/4	139,453	3/4	124,392	3/4	109,332	3/4	94,264
2		2		2	199,305	2	184,295	2	169,260	2	154,199	2	139,139	2	124,079	2	109,018	2	93,950
1/4		1/4		1/4	212,912	1/4	198,992	1/4	183,983	1/4	168,946	1/4	153,886	1/4	138,825	1/4	123,765	1/4	108,704
1/2		1/2		1/2	212,733	1/2	198,679	1/2	183,670	1/2	168,632	1/2	153,572	1/2	138,511	1/2	123,451	1/2	108,390
3/4		3/4		3/4	212,554	3/4	198,367	3/4	183,357	3/4	168,318	3/4	153,258	3/4	138,198	3/4	123,137	3/4	108,076
3		3		3	212,375	3	198,054	3	183,045	3	168,005	3	152,944	3	137,884	3	122,824	3	107,763
1/4		1/4		1/4	212,196	1/4	197,741	1/4	182,732	1/4	167,691	1/4	152,630	1/4	137,570	1/4	122,510	1/4	107,449
1/2		1/2		1/2	211,965	1/2	197,428	1/2	182,419	1/2	167,377	1/2	152,317	1/2	137,256	1/2	122,196	1/2	107,135
3/4		3/4		3/4	211,734	3/4	197,116	3/4	182,107	3/4	167,063	3/4	152,003	3/4	136,943	3/4	121,882	3/4	106,821
4		4		4	211,502	4	196,803	4	181,794	4	166,750	4	151,689	4	136,629	4	121,569	4	106,507
1/4		1/4		1/4	211,271	1/4	196,490	1/4	181,481	1/4	166,436	1/4	151,375	1/4	136,315	1/4	121,255	1/4	106,193
1/2		1/2		1/2	210,991	1/2	196,178	1/2	181,168	1/2	166,122	1/2	151,062	1/2	136,001	1/2	120,941	1/2	105,879
3/4		3/4		3/4	210,711	3/4	195,865	3/4	180,856	3/4	165,808	3/4	150,748	3/4	135,688	3/4	120,627	3/4	105,565
5		5		5	210,432	5	195,552	5	180,543	5	165,495	5	150,434	5	135,374	5	120,314	5	105,251
1/4		1/4		1/4	210,152	1/4	195,240	1/4	180,230	1/4	165,181	1/4	150,120	1/4	135,060	1/4	120,000	1/4	104,937
1/2		1/2		1/2	209,846	1/2	194,927	1/2	179,918	1/2	164,867	1/2	149,807	1/2	134,746	1/2	119,686	1/2	104,623
3/4		3/4		3/4	209,541	3/4	194,614	3/4	179,605	3/4	164,553	3/4	149,493	3/4	134,433	3/4	119,372	3/4	104,309
6		6		6	209,235	6	194,302	6	179,292	6	164,239	6	149,179	6	134,119	6	119,059	6	103,996
1/4		1/4		1/4	208,930	1/4	193,989	1/4	178,980	1/4	163,926	1/4	148,865	1/4	133,805	1/4	118,745	1/4	103,682
1/2		1/2		1/2	208,620	1/2	193,676	1/2	178,667	1/2	163,612	1/2	148,552	1/2	133,491	1/2	118,431	1/2	103,368
3/4		3/4		3/4	208,311	3/4	193,363	3/4	178,354	3/4	163,298	3/4	148,238	3/4	133,178	3/4	118,117	3/4	103,054
7		7		7	208,002	7	193,051	7	178,042	7	162,984	7	147,924	7	132,864	7	117,804	7	102,740
1/4		1/4		1/4	207,693	1/4	192,738	1/4	177,729	1/4	162,671	1/4	147,610	1/4	132,550	1/4	117,490	1/4	102,426
1/2		1/2		1/2	207,383	1/2	192,425	1/2	177,416	1/2	162,357	1/2	147,297	1/2	132,236	1/2	117,176	1/2	102,112
3/4		3/4		3/4	207,073	3/4	192,113	3/4	177,102	3/4	162,043	3/4	146,983	3/4	131,923	3/4	116,862	3/4	101,798
8		8		8	206,764	8	191,800	8	176,789	8	161,729	8	146,669	8	131,609	8	116,549	8	101,484
1/4		1/4		1/4	206,454	1/4	191,487	1/4	176,476	1/4	161,416	1/4	146,355	1/4	131,295	1/4	116,235	1/4	101,170
1/2		1/2		1/2	206,144	1/2	191,175	1/2	176,162	1/2	161,102	1/2	146,042	1/2	130,981	1/2	115,921	1/2	100,856
3/4		3/4		3/4	205,835	3/4	190,862	3/4	175,848	3/4	160,788	3/4	145,728	3/4	130,668	3/4	115,607	3/4	100,543
9		9		9	205,525	9	190,549	9	175,535	9	160,474	9	145,414	9	130,354	9	115,293	9	100,229
1/4		1/4		1/4	205,215	1/4	190,237	1/4	175,221	1/4	160,161	1/4	145,100	1/4	130,040	1/4	114,980	1/4	99,915
1/2		1/2		1/2	204,905	1/2	189,924	1/2	174,907	1/2	159,847	1/2	144,787	1/2	129,726	1/2	114,666	1/2	99,601
3/4		3/4		3/4	204,596	3/4	189,611	3/4	174,593	3/4	159,533	3/4	144,473	3/4	129,413	3/4	114,352	3/4	99,287
10		10		10	204,286	10	189,298	10	174,280	10	159,219	10	144,159	10	129,099	10	114,038	10	98,973
1/4		1/4		1/4	203,976	1/4	188,986	1/4	173,966	1/4	158,906	1/4	143,845	1/4	128,785	1/4	113,725	1/4	98,659
1/2		1/2		1/2	203,667	1/2	188,673	1/2	173,652	1/2	158,592	1/2	143,532	1/2	128,471	1/2	113,411	1/2	98,345
3/4		3/4		3/4	203,357	3/4	188,360	3/4	173,338	3/4	158,278	3/4	143,218	3/4	128,158	3/4	113,097	3/4	98,031
11		11		11	203,048	11	188,048	11	173,025	11	157,964	11	142,904	11	127,844	11	112,783	11	97,717
1/4		1/4		1/4	202,738	1/4	187,735	1/4	172,711	1/4	157,651	1/4	142,590	1/4	127,530	1/4	112,470	1/4	97,403
1/2		1/2		1/2	202,427	1/2	187,422	1/2	172,397	1/2	157,337	1/2	142,277	1/2	127,216	1/2	112,156	1/2	97,089
3/4		3/4		3/4	202,116	3/4	187,110	3/4	172,083	3/4	157,023	3/4	141,963	3/4	126,902	3/4	111,842	3/4	96,776

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 TO TOP OF THREADS ON "MMC" VALVE.
 GAUGE POINT: (MMC) LOCATED 10'-09" OFF CENTERLINE AND 42'-06" FORWARD OF AFT BULKHEAD.

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





BARGE "HFL 3009"

2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15' 05 1/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	81,394	0	66,326	0	51,788	0	37,320	0	22,291	0	7,223	0		0		0		0	
1/4	81,080	1/4	66,012	1/4	51,485	1/4	37,018	1/4	21,977	1/4	6,909	1/4		1/4		1/4		1/4	
1/2	80,766	1/2	65,704	1/2	51,184	1/2	36,710	1/2	21,663	1/2	6,595	1/2		1/2		1/2		1/2	
3/4	80,452	3/4	65,396	3/4	50,882	3/4	36,402	3/4	21,349	3/4	6,281	3/4		3/4		3/4		3/4	
1	80,138	1	65,088	1	50,580	1	36,094	1	21,035	1	5,968	1		1		1		1	
1/4	79,824	1/4	64,780	1/4	50,278	1/4	35,786	1/4	20,721	1/4	5,654	1/4		1/4		1/4		1/4	
1/2	79,510	1/2	64,478	1/2	49,977	1/2	35,472	1/2	20,407	1/2	5,340	1/2		1/2		1/2		1/2	
3/4	79,196	3/4	64,176	3/4	49,675	3/4	35,158	3/4	20,093	3/4	5,026	3/4		3/4		3/4		3/4	
2	78,882	2	63,873	2	49,374	2	34,844	2	19,779	2	4,713	2		2		2		2	
1/4	78,569	1/4	63,571	1/4	49,073	1/4	34,531	1/4	19,465	1/4	4,399	1/4		1/4		1/4		1/4	
1/2	78,255	1/2	63,269	1/2	48,771	1/2	34,217	1/2	19,151	1/2	4,086	1/2		1/2		1/2		1/2	
3/4	77,941	3/4	62,967	3/4	48,470	3/4	33,903	3/4	18,838	3/4	3,773	3/4		3/4		3/4		3/4	
3	77,627	3	62,665	3	48,169	3	33,589	3	18,524	3	3,460	3		3		3		3	
1/4	77,313	1/4	62,363	1/4	47,867	1/4	33,275	1/4	18,210	1/4	3,147	1/4		1/4		1/4		1/4	
1/2	76,999	1/2	62,061	1/2	47,566	1/2	32,961	1/2	17,896	1/2	2,854	1/2		1/2		1/2		1/2	
3/4	76,685	3/4	61,758	3/4	47,265	3/4	32,647	3/4	17,582	3/4	2,560	3/4		3/4		3/4		3/4	
4	76,371	4	61,456	4	46,964	4	32,333	4	17,268	4	2,267	4		4		4		4	
1/4	76,057	1/4	61,154	1/4	46,662	1/4	32,019	1/4	16,954	1/4	1,973	1/4		1/4		1/4		1/4	
1/2	75,743	1/2	60,852	1/2	46,361	1/2	31,705	1/2	16,640	1/2	1,738	1/2		1/2		1/2		1/2	
3/4	75,429	3/4	60,550	3/4	46,060	3/4	31,391	3/4	16,326	3/4	1,503	3/4		3/4		3/4		3/4	
5	75,116	5	60,248	5	45,759	5	31,078	5	16,012	5	1,267	5		5		5		5	
1/4	74,802	1/4	59,946	1/4	45,458	1/4	30,764	1/4	15,699	1/4	1,032	1/4		1/4		1/4		1/4	
1/2	74,488	1/2	59,643	1/2	45,156	1/2	30,450	1/2	15,385	1/2		1/2		1/2		1/2		1/2	
3/4	74,174	3/4	59,341	3/4	44,855	3/4	30,136	3/4	15,071	3/4		3/4		3/4		3/4		3/4	
6	73,860	6	59,039	6	44,554	6	29,822	6	14,757	6		6		6		6		6	
1/4	73,546	1/4	58,737	1/4	44,253	1/4	29,508	1/4	14,443	1/4		1/4		1/4		1/4		1/4	
1/2	73,232	1/2	58,435	1/2	43,952	1/2	29,195	1/2	14,129	1/2		1/2		1/2		1/2		1/2	
3/4	72,918	3/4	58,133	3/4	43,650	3/4	28,881	3/4	13,815	3/4		3/4		3/4		3/4		3/4	
7	72,604	7	57,831	7	43,349	7	28,567	7	13,501	7		7		7		7		7	
1/4	72,290	1/4	57,528	1/4	43,048	1/4	28,254	1/4	13,187	1/4		1/4		1/4		1/4		1/4	
1/2	71,976	1/2	57,226	1/2	42,747	1/2	27,940	1/2	12,873	1/2		1/2		1/2		1/2		1/2	
3/4	71,662	3/4	56,924	3/4	42,446	3/4	27,626	3/4	12,560	3/4		3/4		3/4		3/4		3/4	
8	71,349	8	56,622	8	42,144	8	27,313	8	12,246	8		8		8		8		8	
1/4	71,035	1/4	56,320	1/4	41,843	1/4	26,999	1/4	11,932	1/4		1/4		1/4		1/4		1/4	
1/2	70,721	1/2	56,018	1/2	41,542	1/2	26,685	1/2	11,618	1/2		1/2		1/2		1/2		1/2	
3/4	70,407	3/4	55,716	3/4	41,241	3/4	26,371	3/4	11,304	3/4		3/4		3/4		3/4		3/4	
9	70,093	9	55,413	9	40,939	9	26,057	9	10,990	9		9		9		9		9	
1/4	69,779	1/4	55,111	1/4	40,638	1/4	25,743	1/4	10,676	1/4		1/4		1/4		1/4		1/4	
1/2	69,465	1/2	54,809	1/2	40,337	1/2	25,430	1/2	10,362	1/2		1/2		1/2		1/2		1/2	
3/4	69,151	3/4	54,507	3/4	40,036	3/4	25,116	3/4	10,048	3/4		3/4		3/4		3/4		3/4	
10	68,837	10	54,205	10	39,735	10	24,802	10	9,734	10		10		10		10		10	
1/4	68,523	1/4	53,903	1/4	39,433	1/4	24,488	1/4	9,420	1/4		1/4		1/4		1/4		1/4	
1/2	68,209	1/2	53,600	1/2	39,132	1/2	24,174	1/2	9,107	1/2		1/2		1/2		1/2		1/2	
3/4	67,895	3/4	53,298	3/4	38,830	3/4	23,860	3/4	8,793	3/4		3/4		3/4		3/4		3/4	
11	67,582	11	52,996	11	38,528	11	23,546	11	8,479	11		11		11		11		11	
1/4	67,268	1/4	52,694	1/4	38,227	1/4	23,232	1/4	8,165	1/4		1/4		1/4		1/4		1/4	
1/2	66,954	1/2	52,392	1/2	37,925	1/2	22,918	1/2	7,851	1/2		1/2		1/2		1/2		1/2	
3/4	66,640	3/4	52,090	3/4	37,622	3/4	22,604	3/4	7,537	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 01/13/2017 SW
CALCULATED: 01/14/2017 CL
PRINTED: 01/16/2017 JS

CANCELS AND SUPERCEDES
ALL PRIOR TO 01/2017

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



BARGE "HFL 3009"

2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15' 05 1/4"

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	203,067	0	188,050	0	173,013	0	157,943	0	142,873	0	127,803	0	112,733	0	97,656
1/4		1/4		1/4	202,756	1/4	187,737	1/4	172,699	1/4	157,629	1/4	142,559	1/4	127,489	1/4	112,419	1/4	97,342
1/2		1/2		1/2	202,443	1/2	187,424	1/2	172,385	1/2	157,315	1/2	142,245	1/2	127,175	1/2	112,105	1/2	97,028
3/4		3/4		3/4	202,130	3/4	187,111	3/4	172,071	3/4	157,001	3/4	141,931	3/4	126,861	3/4	111,791	3/4	96,714
1		1		1	201,817	1	186,798	1	171,757	1	156,687	1	141,617	1	126,547	1	111,477	1	96,400
1/4		1/4		1/4	201,504	1/4	186,485	1/4	171,443	1/4	156,373	1/4	141,303	1/4	126,233	1/4	111,163	1/4	96,086
1/2		1/2		1/2	201,191	1/2	186,173	1/2	171,129	1/2	156,059	1/2	140,989	1/2	125,919	1/2	110,849	1/2	95,771
3/4		3/4		3/4	200,879	3/4	185,860	3/4	170,815	3/4	155,745	3/4	140,675	3/4	125,605	3/4	110,535	3/4	95,457
2		2		2	200,566	2	185,547	2	170,501	2	155,431	2	140,361	2	125,291	2	110,221	2	95,143
1/4		1/4		1/4	214,182	1/4	200,253	1/4	185,234	1/4	170,187	1/4	155,117	1/4	140,047	1/4	124,977	1/4	109,907
1/2		1/2		1/2	214,003	1/2	199,940	1/2	184,921	1/2	169,873	1/2	154,803	1/2	139,733	1/2	124,663	1/2	109,593
3/4		3/4		3/4	213,824	3/4	199,627	3/4	184,608	3/4	169,559	3/4	154,489	3/4	139,419	3/4	124,349	3/4	109,278
3		3		3	213,645	3	199,314	3	184,295	3	169,245	3	154,175	3	139,105	3	124,035	3	108,964
1/4		1/4		1/4	213,466	1/4	199,001	1/4	183,982	1/4	168,931	1/4	153,861	1/4	138,791	1/4	123,721	1/4	108,650
1/2		1/2		1/2	213,234	1/2	198,688	1/2	183,669	1/2	168,617	1/2	153,547	1/2	138,477	1/2	123,407	1/2	108,336
3/4		3/4		3/4	213,003	3/4	198,375	3/4	183,356	3/4	168,303	3/4	153,233	3/4	138,163	3/4	123,093	3/4	108,022
4		4		4	212,771	4	198,063	4	183,044	4	167,990	4	152,919	4	137,849	4	122,779	4	107,708
1/4		1/4		1/4	212,540	1/4	197,750	1/4	182,731	1/4	167,676	1/4	152,605	1/4	137,535	1/4	122,465	1/4	107,394
1/2		1/2		1/2	212,260	1/2	197,437	1/2	182,418	1/2	167,362	1/2	152,292	1/2	137,221	1/2	122,151	1/2	107,080
3/4		3/4		3/4	211,980	3/4	197,124	3/4	182,105	3/4	167,048	3/4	151,978	3/4	136,908	3/4	121,837	3/4	106,765
5		5		5	211,700	5	196,811	5	181,792	5	166,734	5	151,664	5	136,594	5	121,523	5	106,451
1/4		1/4		1/4	211,420	1/4	196,498	1/4	181,479	1/4	166,420	1/4	151,350	1/4	136,280	1/4	121,210	1/4	106,137
1/2		1/2		1/2	211,114	1/2	196,185	1/2	181,166	1/2	166,106	1/2	151,036	1/2	135,966	1/2	120,896	1/2	105,823
3/4		3/4		3/4	210,809	3/4	195,872	3/4	180,853	3/4	165,792	3/4	150,722	3/4	135,652	3/4	120,582	3/4	105,509
6		6		6	210,503	6	195,559	6	180,540	6	165,478	6	150,408	6	135,338	6	120,268	6	105,195
1/4		1/4		1/4	210,197	1/4	195,246	1/4	180,228	1/4	165,164	1/4	150,094	1/4	135,024	1/4	119,954	1/4	104,881
1/2		1/2		1/2	209,888	1/2	194,934	1/2	179,915	1/2	164,850	1/2	149,780	1/2	134,710	1/2	119,640	1/2	104,567
3/4		3/4		3/4	209,578	3/4	194,621	3/4	179,602	3/4	164,536	3/4	149,466	3/4	134,396	3/4	119,326	3/4	104,253
7		7		7	209,269	7	194,308	7	179,289	7	164,222	7	149,152	7	134,082	7	119,012	7	103,938
1/4		1/4		1/4	208,959	1/4	193,995	1/4	178,976	1/4	163,908	1/4	148,838	1/4	133,768	1/4	118,698	1/4	103,624
1/2		1/2		1/2	208,649	1/2	193,682	1/2	178,663	1/2	163,594	1/2	148,524	1/2	133,454	1/2	118,384	1/2	103,310
3/4		3/4		3/4	208,340	3/4	193,369	3/4	178,349	3/4	163,280	3/4	148,210	3/4	133,140	3/4	118,070	3/4	102,996
8		8		8	208,030	8	193,056	8	178,036	8	162,966	8	147,896	8	132,826	8	117,756	8	102,682
1/4		1/4		1/4	207,720	1/4	192,743	1/4	177,722	1/4	162,652	1/4	147,582	1/4	132,512	1/4	117,442	1/4	102,368
1/2		1/2		1/2	207,410	1/2	192,430	1/2	177,408	1/2	162,338	1/2	147,268	1/2	132,198	1/2	117,128	1/2	102,054
3/4		3/4		3/4	207,100	3/4	192,118	3/4	177,094	3/4	162,024	3/4	146,954	3/4	131,884	3/4	116,814	3/4	101,740
9		9		9	206,790	9	191,805	9	176,780	9	161,710	9	146,640	9	131,570	9	116,500	9	101,426
1/4		1/4		1/4	206,480	1/4	191,492	1/4	176,466	1/4	161,396	1/4	146,326	1/4	131,256	1/4	116,186	1/4	101,111
1/2		1/2		1/2	206,170	1/2	191,179	1/2	176,152	1/2	161,082	1/2	146,012	1/2	130,942	1/2	115,872	1/2	100,797
3/4		3/4		3/4	205,860	3/4	190,866	3/4	175,838	3/4	160,768	3/4	145,698	3/4	130,628	3/4	115,558	3/4	100,483
10		10		10	205,550	10	190,553	10	175,525	10	160,454	10	145,384	10	130,314	10	115,244	10	100,169
1/4		1/4		1/4	205,240	1/4	190,240	1/4	175,211	1/4	160,141	1/4	145,070	1/4	130,000	1/4	114,930	1/4	99,855
1/2		1/2		1/2	204,931	1/2	189,927	1/2	174,897	1/2	159,827	1/2	144,756	1/2	129,686	1/2	114,616	1/2	99,541
3/4		3/4		3/4	204,621	3/4	189,614	3/4	174,583	3/4	159,513	3/4	144,443	3/4	129,372	3/4	114,302	3/4	99,227
11		11		11	204,311	11	189,301	11	174,269	11	159,199	11	144,129	11	129,059	11	113,988	11	98,913
1/4		1/4		1/4	204,001	1/4	188,989	1/4	173,955	1/4	158,885	1/4	143,815	1/4	128,745	1/4	113,674	1/4	98,598
1/2		1/2		1/2	203,690	1/2	188,676	1/2	173,641	1/2	158,571	1/2	143,501	1/2	128,431	1/2	113,361	1/2	98,284
3/4		3/4		3/4	203,379	3/4	188,363	3/4	173,327	3/4	158,257	3/4	143,187	3/4	128,117	3/4	113,047	3/4	97,970

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 TO TOP OF THREADS ON "MMC" VALVE.
 GAUGE POINT: (MMC) LOCATED 10'-09" OFF CENTERLINE AND 42'-06" FORWARD OF AFT BULKHEAD.

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



BARGE "HFL 3009"

2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15' 05 1/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	82,578	0	67,501	0	52,423	0	37,381	0	22,306	0	7,228	0		0		0		0	
1/4	82,264	1/4	67,187	1/4	52,109	1/4	37,067	1/4	21,992	1/4	6,914	1/4		1/4		1/4		1/4	
1/2	81,950	1/2	66,873	1/2	51,795	1/2	36,753	1/2	21,678	1/2	6,600	1/2		1/2		1/2		1/2	
3/4	81,636	3/4	66,559	3/4	51,482	3/4	36,439	3/4	21,363	3/4	6,286	3/4		3/4		3/4		3/4	
1	81,322	1	66,244	1	51,168	1	36,125	1	21,049	1	5,972	1		1		1		1	
1/4	81,008	1/4	65,930	1/4	50,854	1/4	35,810	1/4	20,735	1/4	5,658	1/4		1/4		1/4		1/4	
1/2	80,694	1/2	65,616	1/2	50,541	1/2	35,496	1/2	20,421	1/2	5,344	1/2		1/2		1/2		1/2	
3/4	80,380	3/4	65,302	3/4	50,227	3/4	35,182	3/4	20,107	3/4	5,030	3/4		3/4		3/4		3/4	
2	80,066	2	64,988	2	49,914	2	34,868	2	19,793	2	4,716	2		2		2		2	
1/4	79,751	1/4	64,674	1/4	49,600	1/4	34,554	1/4	19,479	1/4	4,402	1/4		1/4		1/4		1/4	
1/2	79,437	1/2	64,360	1/2	49,287	1/2	34,240	1/2	19,165	1/2	4,089	1/2		1/2		1/2		1/2	
3/4	79,123	3/4	64,046	3/4	48,974	3/4	33,926	3/4	18,850	3/4	3,776	3/4		3/4		3/4		3/4	
3	78,809	3	63,731	3	48,661	3	33,612	3	18,536	3	3,463	3		3		3		3	
1/4	78,495	1/4	63,417	1/4	48,347	1/4	33,298	1/4	18,222	1/4	3,150	1/4		1/4		1/4		1/4	
1/2	78,181	1/2	63,103	1/2	48,034	1/2	32,983	1/2	17,908	1/2	2,856	1/2		1/2		1/2		1/2	
3/4	77,867	3/4	62,789	3/4	47,721	3/4	32,669	3/4	17,594	3/4	2,562	3/4		3/4		3/4		3/4	
4	77,553	4	62,475	4	47,408	4	32,355	4	17,280	4	2,269	4		4		4		4	
1/4	77,238	1/4	62,161	1/4	47,094	1/4	32,041	1/4	16,966	1/4	1,975	1/4		1/4		1/4		1/4	
1/2	76,924	1/2	61,847	1/2	46,781	1/2	31,727	1/2	16,652	1/2	1,739	1/2		1/2		1/2		1/2	
3/4	76,610	3/4	61,533	3/4	46,468	3/4	31,413	3/4	16,338	3/4	1,504	3/4		3/4		3/4		3/4	
5	76,296	5	61,219	5	46,155	5	31,099	5	16,023	5	1,268	5		5		5		5	
1/4	75,982	1/4	60,904	1/4	45,842	1/4	30,785	1/4	15,709	1/4	1,033	1/4		1/4		1/4		1/4	
1/2	75,668	1/2	60,590	1/2	45,529	1/2	30,471	1/2	15,395	1/2		1/2		1/2		1/2		1/2	
3/4	75,354	3/4	60,276	3/4	45,215	3/4	30,157	3/4	15,081	3/4		3/4		3/4		3/4		3/4	
6	75,040	6	59,962	6	44,902	6	29,842	6	14,767	6		6		6		6		6	
1/4	74,726	1/4	59,648	1/4	44,589	1/4	29,528	1/4	14,453	1/4		1/4		1/4		1/4		1/4	
1/2	74,411	1/2	59,334	1/2	44,276	1/2	29,215	1/2	14,139	1/2		1/2		1/2		1/2		1/2	
3/4	74,097	3/4	59,020	3/4	43,963	3/4	28,901	3/4	13,825	3/4		3/4		3/4		3/4		3/4	
7	73,783	7	58,706	7	43,649	7	28,587	7	13,511	7		7		7		7		7	
1/4	73,469	1/4	58,391	1/4	43,336	1/4	28,273	1/4	13,196	1/4		1/4		1/4		1/4		1/4	
1/2	73,155	1/2	58,077	1/2	43,023	1/2	27,959	1/2	12,882	1/2		1/2		1/2		1/2		1/2	
3/4	72,841	3/4	57,763	3/4	42,710	3/4	27,645	3/4	12,568	3/4		3/4		3/4		3/4		3/4	
8	72,527	8	57,449	8	42,397	8	27,331	8	12,254	8		8		8		8		8	
1/4	72,213	1/4	57,135	1/4	42,083	1/4	27,017	1/4	11,940	1/4		1/4		1/4		1/4		1/4	
1/2	71,898	1/2	56,821	1/2	41,770	1/2	26,703	1/2	11,626	1/2		1/2		1/2		1/2		1/2	
3/4	71,584	3/4	56,507	3/4	41,457	3/4	26,389	3/4	11,312	3/4		3/4		3/4		3/4		3/4	
9	71,270	9	56,193	9	41,144	9	26,075	9	10,998	9		9		9		9		9	
1/4	70,956	1/4	55,879	1/4	40,831	1/4	25,761	1/4	10,683	1/4		1/4		1/4		1/4		1/4	
1/2	70,642	1/2	55,564	1/2	40,518	1/2	25,447	1/2	10,369	1/2		1/2		1/2		1/2		1/2	
3/4	70,328	3/4	55,250	3/4	40,204	3/4	25,133	3/4	10,055	3/4		3/4		3/4		3/4		3/4	
10	70,014	10	54,936	10	39,891	10	24,819	10	9,741	10		10		10		10		10	
1/4	69,700	1/4	54,622	1/4	39,578	1/4	24,505	1/4	9,427	1/4		1/4		1/4		1/4		1/4	
1/2	69,386	1/2	54,308	1/2	39,264	1/2	24,190	1/2	9,113	1/2		1/2		1/2		1/2		1/2	
3/4	69,071	3/4	53,994	3/4	38,951	3/4	23,876	3/4	8,799	3/4		3/4		3/4		3/4		3/4	
11	68,757	11	53,680	11	38,637	11	23,562	11	8,485	11		11		11		11		11	
1/4	68,443	1/4	53,366	1/4	38,323	1/4	23,248	1/4	8,171	1/4		1/4		1/4		1/4		1/4	
1/2	68,129	1/2	53,051	1/2	38,009	1/2	22,934	1/2	7,856	1/2		1/2		1/2		1/2		1/2	
3/4	67,815	3/4	52,737	3/4	37,695	3/4	22,620	3/4	7,542	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 01/13/2017 SW
CALCULATED: 01/14/2017 CL
PRINTED: 01/16/2017 JS

CANCELS AND SUPERCEDES
ALL PRIOR TO 01/2017

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



BARGE "HFL 3009"

3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15' 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	183,617	0	173,299	0	162,967	0	152,612	0	140,466	0	125,521	0	110,576	0	95,617
1/4		1/4		1/4	183,402	1/4	173,084	1/4	162,751	1/4	152,396	1/4	140,155	1/4	125,210	1/4	110,265	1/4	95,306
1/2		1/2		1/2	183,187	1/2	172,869	1/2	162,535	1/2	152,181	1/2	139,844	1/2	124,899	1/2	109,954	1/2	94,994
3/4		3/4		3/4	182,972	3/4	172,654	3/4	162,319	3/4	151,965	3/4	139,533	3/4	124,587	3/4	109,642	3/4	94,683
1		1		1	182,757	1	172,439	1	162,104	1	151,749	1	139,221	1	124,276	1	109,331	1	94,371
1/4		1/4		1/4	182,542	1/4	172,224	1/4	161,888	1/4	151,534	1/4	138,910	1/4	123,965	1/4	109,019	1/4	94,060
1/2		1/2		1/2	182,327	1/2	172,009	1/2	161,672	1/2	151,318	1/2	138,599	1/2	123,653	1/2	108,708	1/2	93,748
3/4		3/4		3/4	191,739	3/4	182,112	3/4	171,794	3/4	161,457	3/4	151,102	3/4	138,287	3/4	123,342	3/4	108,397
2		2		2	191,616	2	181,897	2	171,579	2	161,241	2	150,886	2	137,976	2	123,031	2	108,085
1/4		1/4		1/4	191,492	1/4	181,682	1/4	171,364	1/4	161,025	1/4	150,671	1/4	137,664	1/4	122,719	1/4	107,774
1/2		1/2		1/2	191,369	1/2	181,467	1/2	171,149	1/2	160,809	1/2	150,455	1/2	137,353	1/2	122,408	1/2	107,462
3/4		3/4		3/4	191,245	3/4	181,252	3/4	170,934	3/4	160,594	3/4	150,239	3/4	137,042	3/4	122,097	3/4	107,151
3		3		3	191,086	3	181,037	3	170,719	3	160,378	3	150,024	3	136,730	3	121,785	3	106,839
1/4		1/4		1/4	190,926	1/4	180,822	1/4	170,504	1/4	160,162	1/4	149,808	1/4	136,419	1/4	121,474	1/4	106,527
1/2		1/2		1/2	190,767	1/2	180,607	1/2	170,290	1/2	159,947	1/2	149,592	1/2	136,108	1/2	121,162	1/2	106,216
3/4		3/4		3/4	190,607	3/4	180,392	3/4	170,075	3/4	159,731	3/4	149,376	3/4	135,796	3/4	120,851	3/4	105,904
4		4		4	190,415	4	180,178	4	169,860	4	159,515	4	149,157	4	135,485	4	120,540	4	105,592
1/4		1/4		1/4	190,222	1/4	179,963	1/4	169,645	1/4	159,299	1/4	148,938	1/4	135,174	1/4	120,228	1/4	105,281
1/2		1/2		1/2	190,029	1/2	179,748	1/2	169,430	1/2	159,084	1/2	148,719	1/2	134,862	1/2	119,917	1/2	104,969
3/4		3/4		3/4	189,836	3/4	179,533	3/4	169,215	3/4	158,868	3/4	148,500	3/4	134,551	3/4	119,606	3/4	104,657
5		5		5	189,625	5	179,318	5	169,000	5	158,652	5	148,269	5	134,240	5	119,294	5	104,345
1/4		1/4		1/4	189,413	1/4	179,103	1/4	168,785	1/4	158,437	1/4	148,038	1/4	133,928	1/4	118,983	1/4	104,034
1/2		1/2		1/2	189,202	1/2	178,888	1/2	168,570	1/2	158,221	1/2	147,807	1/2	133,617	1/2	118,672	1/2	103,722
3/4		3/4		3/4	188,991	3/4	178,673	3/4	168,355	3/4	158,005	3/4	147,576	3/4	133,305	3/4	118,360	3/4	103,410
6		6		6	188,776	6	178,458	6	168,140	6	157,789	6	147,329	6	132,994	6	118,049	6	103,098
1/4		1/4		1/4	188,561	1/4	178,243	1/4	167,925	1/4	157,574	1/4	147,083	1/4	132,683	1/4	117,738	1/4	102,786
1/2		1/2		1/2	188,347	1/2	178,028	1/2	167,710	1/2	157,358	1/2	146,836	1/2	132,371	1/2	117,426	1/2	102,475
3/4		3/4		3/4	188,132	3/4	177,813	3/4	167,495	3/4	157,142	3/4	146,589	3/4	132,060	3/4	117,115	3/4	102,163
7		7		7	187,917	7	177,598	7	167,280	7	156,927	7	146,326	7	131,749	7	116,803	7	101,851
1/4		1/4		1/4	187,702	1/4	177,383	1/4	167,064	1/4	156,711	1/4	146,064	1/4	131,437	1/4	116,492	1/4	101,539
1/2		1/2		1/2	187,487	1/2	177,168	1/2	166,849	1/2	156,495	1/2	145,801	1/2	131,126	1/2	116,181	1/2	101,228
3/4		3/4		3/4	187,272	3/4	176,953	3/4	166,634	3/4	156,279	3/4	145,539	3/4	130,815	3/4	115,869	3/4	100,916
8		8		8	187,057	8	176,738	8	166,418	8	156,064	8	145,260	8	130,503	8	115,558	8	100,604
1/4		1/4		1/4	186,842	1/4	176,523	1/4	166,202	1/4	155,848	1/4	144,982	1/4	130,192	1/4	115,247	1/4	100,292
1/2		1/2		1/2	186,627	1/2	176,308	1/2	165,987	1/2	155,632	1/2	144,704	1/2	129,881	1/2	114,935	1/2	99,980
3/4		3/4		3/4	186,411	3/4	176,093	3/4	165,771	3/4	155,416	3/4	144,426	3/4	129,569	3/4	114,624	3/4	99,669
9		9		9	186,196	9	175,878	9	165,555	9	155,201	9	144,131	9	129,258	9	114,313	9	99,357
1/4		1/4		1/4	185,981	1/4	175,663	1/4	165,339	1/4	154,985	1/4	143,837	1/4	128,946	1/4	114,001	1/4	99,045
1/2		1/2		1/2	185,766	1/2	175,448	1/2	165,124	1/2	154,769	1/2	143,543	1/2	128,635	1/2	113,690	1/2	98,733
3/4		3/4		3/4	185,551	3/4	175,234	3/4	164,908	3/4	154,554	3/4	143,249	3/4	128,324	3/4	113,378	3/4	98,422
10		10		10	185,336	10	175,019	10	164,692	10	154,338	10	142,942	10	128,012	10	113,067	10	98,110
1/4		1/4		1/4	185,122	1/4	174,804	1/4	164,477	1/4	154,122	1/4	142,635	1/4	127,701	1/4	112,756	1/4	97,798
1/2		1/2		1/2	184,907	1/2	174,589	1/2	164,261	1/2	153,906	1/2	142,329	1/2	127,390	1/2	112,444	1/2	97,487
3/4		3/4		3/4	184,692	3/4	174,374	3/4	164,045	3/4	153,691	3/4	142,022	3/4	127,078	3/4	112,133	3/4	97,175
11		11		11	184,477	11	174,159	11	163,829	11	153,475	11	141,711	11	126,767	11	111,822	11	96,863
1/4		1/4		1/4	184,262	1/4	173,944	1/4	163,614	1/4	153,259	1/4	141,400	1/4	126,456	1/4	111,510	1/4	96,552
1/2		1/2		1/2	184,047	1/2	173,729	1/2	163,398	1/2	153,044	1/2	141,089	1/2	126,144	1/2	111,199	1/2	96,240
3/4		3/4		3/4	183,832	3/4	173,514	3/4	163,182	3/4	152,828	3/4	140,778	3/4	125,833	3/4	110,888	3/4	95,929

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 TO TOP OF THREADS ON "MMC" VALVE.
 GAUGE POINT: (MMC) LOCATED 10'-09" OFF CENTERLINE AND 42'-03" FORWARD OF AFT BULKHEAD.

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



BARGE "HFL 3009"

3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15' 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	80,657	0	65,765	0	51,057	0	36,494	0	21,539	0	6,562	0		0		0		0	
1/4	80,345	1/4	65,455	1/4	50,755	1/4	36,186	1/4	21,227	1/4	6,250	1/4		1/4		1/4		1/4	
1/2	80,033	1/2	65,146	1/2	50,453	1/2	35,878	1/2	20,915	1/2	5,938	1/2		1/2		1/2		1/2	
3/4	79,722	3/4	64,836	3/4	50,151	3/4	35,570	3/4	20,603	3/4	5,626	3/4		3/4		3/4		3/4	
1	79,410	1	64,526	1	49,849	1	35,259	1	20,291	1	5,314	1		1		1		1	
1/4	79,098	1/4	64,216	1/4	49,547	1/4	34,948	1/4	19,979	1/4	5,002	1/4		1/4		1/4		1/4	
1/2	78,786	1/2	63,906	1/2	49,245	1/2	34,636	1/2	19,668	1/2	4,690	1/2		1/2		1/2		1/2	
3/4	78,474	3/4	63,596	3/4	48,943	3/4	34,325	3/4	19,356	3/4	4,378	3/4		3/4		3/4		3/4	
2	78,163	2	63,285	2	48,641	2	34,013	2	19,044	2	4,066	2		2		2		2	
1/4	77,852	1/4	62,975	1/4	48,339	1/4	33,701	1/4	18,732	1/4	3,755	1/4		1/4		1/4		1/4	
1/2	77,542	1/2	62,664	1/2	48,037	1/2	33,389	1/2	18,420	1/2	3,444	1/2		1/2		1/2		1/2	
3/4	77,231	3/4	62,353	3/4	47,735	3/4	33,077	3/4	18,108	3/4	3,132	3/4		3/4		3/4		3/4	
3	76,921	3	62,042	3	47,433	3	32,765	3	17,796	3	2,840	3		3		3		3	
1/4	76,611	1/4	61,730	1/4	47,131	1/4	32,453	1/4	17,484	1/4	2,548	1/4		1/4		1/4		1/4	
1/2	76,301	1/2	61,419	1/2	46,830	1/2	32,142	1/2	17,172	1/2	2,256	1/2		1/2		1/2		1/2	
3/4	75,991	3/4	61,107	3/4	46,528	3/4	31,830	3/4	16,860	3/4	1,964	3/4		3/4		3/4		3/4	
4	75,681	4	60,796	4	46,227	4	31,518	4	16,549	4	1,730	4		4		4		4	
1/4	75,371	1/4	60,484	1/4	45,926	1/4	31,206	1/4	16,237	1/4	1,495	1/4		1/4		1/4		1/4	
1/2	75,062	1/2	60,173	1/2	45,624	1/2	30,894	1/2	15,925	1/2	1,261	1/2		1/2		1/2		1/2	
3/4	74,752	3/4	59,861	3/4	45,323	3/4	30,582	3/4	15,613	3/4	1,027	3/4		3/4		3/4		3/4	
5	74,442	5	59,553	5	45,020	5	30,270	5	15,301	5		5		5		5		5	
1/4	74,132	1/4	59,244	1/4	44,717	1/4	29,958	1/4	14,989	1/4		1/4		1/4		1/4		1/4	
1/2	73,822	1/2	58,936	1/2	44,414	1/2	29,647	1/2	14,677	1/2		1/2		1/2		1/2		1/2	
3/4	73,512	3/4	58,628	3/4	44,111	3/4	29,335	3/4	14,365	3/4		3/4		3/4		3/4		3/4	
6	73,202	6	58,322	6	43,807	6	29,023	6	14,053	6		6		6		6		6	
1/4	72,892	1/4	58,017	1/4	43,502	1/4	28,711	1/4	13,741	1/4		1/4		1/4		1/4		1/4	
1/2	72,583	1/2	57,712	1/2	43,198	1/2	28,400	1/2	13,430	1/2		1/2		1/2		1/2		1/2	
3/4	72,273	3/4	57,407	3/4	42,893	3/4	28,088	3/4	13,118	3/4		3/4		3/4		3/4		3/4	
7	71,963	7	57,103	7	42,588	7	27,776	7	12,806	7		7		7		7		7	
1/4	71,653	1/4	56,799	1/4	42,284	1/4	27,464	1/4	12,494	1/4		1/4		1/4		1/4		1/4	
1/2	71,343	1/2	56,496	1/2	41,979	1/2	27,153	1/2	12,182	1/2		1/2		1/2		1/2		1/2	
3/4	71,033	3/4	56,192	3/4	41,675	3/4	26,841	3/4	11,870	3/4		3/4		3/4		3/4		3/4	
8	70,723	8	55,890	8	41,370	8	26,529	8	11,558	8		8		8		8		8	
1/4	70,413	1/4	55,588	1/4	41,066	1/4	26,217	1/4	11,246	1/4		1/4		1/4		1/4		1/4	
1/2	70,104	1/2	55,286	1/2	40,761	1/2	25,906	1/2	10,934	1/2		1/2		1/2		1/2		1/2	
3/4	69,794	3/4	54,984	3/4	40,456	3/4	25,594	3/4	10,621	3/4		3/4		3/4		3/4		3/4	
9	69,484	9	54,682	9	40,152	9	25,282	9	10,309	9		9		9		9		9	
1/4	69,174	1/4	54,380	1/4	39,847	1/4	24,970	1/4	9,997	1/4		1/4		1/4		1/4		1/4	
1/2	68,864	1/2	54,078	1/2	39,543	1/2	24,658	1/2	9,684	1/2		1/2		1/2		1/2		1/2	
3/4	68,554	3/4	53,776	3/4	39,238	3/4	24,346	3/4	9,372	3/4		3/4		3/4		3/4		3/4	
10	68,244	10	53,474	10	38,933	10	24,034	10	9,060	10		10		10		10		10	
1/4	67,934	1/4	53,172	1/4	38,629	1/4	23,722	1/4	8,747	1/4		1/4		1/4		1/4		1/4	
1/2	67,625	1/2	52,870	1/2	38,324	1/2	23,410	1/2	8,435	1/2		1/2		1/2		1/2		1/2	
3/4	67,315	3/4	52,568	3/4	38,020	3/4	23,098	3/4	8,123	3/4		3/4		3/4		3/4		3/4	
11	67,005	11	52,265	11	37,715	11	22,787	11	7,811	11		11		11		11		11	
1/4	66,695	1/4	51,963	1/4	37,411	1/4	22,475	1/4	7,499	1/4		1/4		1/4		1/4		1/4	
1/2	66,385	1/2	51,661	1/2	37,106	1/2	22,163	1/2	7,186	1/2		1/2		1/2		1/2		1/2	
3/4	66,075	3/4	51,359	3/4	36,801	3/4	21,851	3/4	6,874	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 01/13/2017 SW
CALCULATED: 01/14/2017 CL
PRINTED: 01/16/2017 JS

CANCELS AND SUPERCEDES
ALL PRIOR TO 01/2017

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



BARGE "HFL 3009"

3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15' 05"

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	185,331	0	174,987	0	164,629	0	154,248	0	142,154	0	127,139	0	112,123	0	97,092
1/4		1/4		1/4	185,115	1/4	174,771	1/4	164,413	1/4	154,032	1/4	141,842	1/4	126,826	1/4	111,810	1/4	96,778
1/2		1/2		1/2	184,900	1/2	174,556	1/2	164,196	1/2	153,816	1/2	141,529	1/2	126,513	1/2	111,497	1/2	96,465
3/4		3/4		3/4	184,684	3/4	174,340	3/4	163,980	3/4	153,599	3/4	141,216	3/4	126,200	3/4	111,184	3/4	96,152
1		1		1	184,469	1	174,125	1	163,764	1	153,383	1	140,903	1	125,887	1	110,871	1	95,839
1/4		1/4		1/4	184,253	1/4	173,909	1/4	163,548	1/4	153,167	1/4	140,591	1/4	125,575	1/4	110,559	1/4	95,525
1/2		1/2		1/2	184,038	1/2	173,694	1/2	163,331	1/2	152,951	1/2	140,278	1/2	125,262	1/2	110,246	1/2	95,212
3/4		3/4		3/4	183,822	3/4	173,478	3/4	163,115	3/4	152,734	3/4	139,965	3/4	124,949	3/4	109,933	3/4	94,899
2		2	193,258	2	183,607	2	173,263	2	162,899	2	152,518	2	139,652	2	124,636	2	109,620	2	94,586
1/4		1/4	193,134	1/4	183,391	1/4	173,047	1/4	162,683	1/4	152,302	1/4	139,339	1/4	124,323	1/4	109,307	1/4	94,272
1/2		1/2	193,010	1/2	183,176	1/2	172,832	1/2	162,466	1/2	152,086	1/2	139,026	1/2	124,010	1/2	108,994	1/2	93,959
3/4		3/4	192,887	3/4	182,960	3/4	172,616	3/4	162,250	3/4	151,869	3/4	138,714	3/4	123,698	3/4	108,681	3/4	93,646
3		3	192,763	3	182,745	3	172,401	3	162,034	3	151,653	3	138,401	3	123,385	3	108,368	3	93,333
1/4		1/4	192,603	1/4	182,529	1/4	172,185	1/4	161,817	1/4	151,437	1/4	138,088	1/4	123,072	1/4	108,055	1/4	93,019
1/2		1/2	192,443	1/2	182,314	1/2	171,970	1/2	161,601	1/2	151,221	1/2	137,775	1/2	122,759	1/2	107,742	1/2	92,706
3/4		3/4	192,283	3/4	182,098	3/4	171,754	3/4	161,385	3/4	151,004	3/4	137,462	3/4	122,446	3/4	107,429	3/4	92,393
4		4	192,123	4	181,883	4	171,539	4	161,169	4	150,788	4	137,149	4	122,133	4	107,116	4	92,080
1/4		1/4	191,930	1/4	181,667	1/4	171,323	1/4	160,952	1/4	150,568	1/4	136,837	1/4	121,821	1/4	106,802	1/4	91,766
1/2		1/2	191,737	1/2	181,452	1/2	171,108	1/2	160,736	1/2	150,348	1/2	136,524	1/2	121,508	1/2	106,489	1/2	91,453
3/4		3/4	191,544	3/4	181,236	3/4	170,892	3/4	160,520	3/4	150,129	3/4	136,211	3/4	121,195	3/4	106,176	3/4	91,140
5		5	191,350	5	181,021	5	170,677	5	160,304	5	149,909	5	135,898	5	120,882	5	105,863	5	90,827
1/4		1/4	191,138	1/4	180,805	1/4	170,461	1/4	160,087	1/4	149,677	1/4	135,585	1/4	120,569	1/4	105,549	1/4	90,513
1/2		1/2	190,926	1/2	180,590	1/2	170,246	1/2	159,871	1/2	149,446	1/2	135,272	1/2	120,256	1/2	105,236	1/2	90,200
3/4		3/4	190,715	3/4	180,374	3/4	170,030	3/4	159,655	3/4	149,214	3/4	134,960	3/4	119,944	3/4	104,923	3/4	89,887
6		6	190,503	6	180,159	6	169,815	6	159,439	6	148,983	6	134,647	6	119,631	6	104,610	6	89,574
1/4		1/4	190,287	1/4	179,943	1/4	169,599	1/4	159,222	1/4	148,735	1/4	134,334	1/4	119,318	1/4	104,296	1/4	89,260
1/2		1/2	190,072	1/2	179,728	1/2	169,384	1/2	159,006	1/2	148,488	1/2	134,021	1/2	119,005	1/2	103,983	1/2	88,947
3/4		3/4	189,857	3/4	179,512	3/4	169,168	3/4	158,790	3/4	148,240	3/4	133,708	3/4	118,692	3/4	103,670	3/4	88,634
7		7	189,642	7	179,297	7	168,953	7	158,574	7	147,993	7	133,395	7	118,379	7	103,357	7	88,321
1/4		1/4	189,426	1/4	179,081	1/4	168,737	1/4	158,357	1/4	147,729	1/4	133,083	1/4	118,067	1/4	103,043	1/4	88,007
1/2		1/2	189,211	1/2	178,866	1/2	168,521	1/2	158,141	1/2	147,465	1/2	132,770	1/2	117,754	1/2	102,730	1/2	87,694
3/4		3/4	188,995	3/4	178,650	3/4	168,305	3/4	157,925	3/4	147,202	3/4	132,457	3/4	117,441	3/4	102,417	3/4	87,381
8		8	188,779	8	178,435	8	168,089	8	157,708	8	146,938	8	132,144	8	117,128	8	102,104	8	87,068
1/4		1/4	188,564	1/4	178,219	1/4	167,873	1/4	157,492	1/4	146,659	1/4	131,831	1/4	116,815	1/4	101,790	1/4	86,754
1/2		1/2	188,348	1/2	178,004	1/2	167,657	1/2	157,276	1/2	146,379	1/2	131,518	1/2	116,502	1/2	101,477	1/2	86,441
3/4		3/4	188,133	3/4	177,788	3/4	167,440	3/4	157,060	3/4	146,099	3/4	131,206	3/4	116,190	3/4	101,164	3/4	86,128
9		9	187,917	9	177,573	9	167,224	9	156,843	9	145,820	9	130,893	9	115,877	9	100,851	9	85,815
1/4		1/4	187,701	1/4	177,357	1/4	167,008	1/4	156,627	1/4	145,524	1/4	130,580	1/4	115,564	1/4	100,537	1/4	85,501
1/2		1/2	187,486	1/2	177,142	1/2	166,792	1/2	156,411	1/2	145,228	1/2	130,267	1/2	115,251	1/2	100,224	1/2	85,188
3/4		3/4	187,270	3/4	176,926	3/4	166,575	3/4	156,195	3/4	144,933	3/4	129,954	3/4	114,938	3/4	99,911	3/4	84,875
10		10	187,055	10	176,711	10	166,359	10	155,978	10	144,637	10	129,641	10	114,625	10	99,598	10	84,562
1/4		1/4	186,839	1/4	176,495	1/4	166,143	1/4	155,762	1/4	144,329	1/4	129,329	1/4	114,313	1/4	99,284	1/4	84,248
1/2		1/2	186,624	1/2	176,280	1/2	165,926	1/2	155,546	1/2	144,021	1/2	129,016	1/2	114,000	1/2	98,971	1/2	83,935
3/4		3/4	186,408	3/4	176,064	3/4	165,710	3/4	155,330	3/4	143,713	3/4	128,703	3/4	113,687	3/4	98,658	3/4	83,622
11		11	186,193	11	175,849	11	165,494	11	155,113	11	143,405	11	128,390	11	113,374	11	98,345	11	83,309
1/4		1/4	185,977	1/4	175,633	1/4	165,278	1/4	154,897	1/4	143,092	1/4	128,077	1/4	113,061	1/4	98,031	1/4	82,995
1/2		1/2	185,762	1/2	175,418	1/2	165,061	1/2	154,681	1/2	142,780	1/2	127,764	1/2	112,748	1/2	97,718	1/2	82,682
3/4		3/4	185,546	3/4	175,202	3/4	164,845	3/4	154,465	3/4	142,467	3/4	127,452	3/4	112,436	3/4	97,405	3/4	82,369

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 TO TOP OF THREADS ON "MMC" VALVE.
 GAUGE POINT: (MMC) LOCATED 10'-09" OFF CENTERLINE AND 42'-03" FORWARD OF AFT BULKHEAD.

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BARGE "HFL 3009"

3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15' 05"

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	82,056	0	67,020	0	51,983	0	36,962	0	21,930	0	6,894	0		0		0		0	
1/4	81,742	1/4	66,706	1/4	51,670	1/4	36,650	1/4	21,617	1/4	6,581	1/4		1/4		1/4		1/4	
1/2	81,429	1/2	66,393	1/2	51,357	1/2	36,337	1/2	21,303	1/2	6,268	1/2		1/2		1/2		1/2	
3/4	81,116	3/4	66,080	3/4	51,044	3/4	36,024	3/4	20,990	3/4	5,955	3/4		3/4		3/4		3/4	
1	80,803	1	65,767	1	50,730	1	35,711	1	20,677	1	5,641	1		1		1		1	
1/4	80,489	1/4	65,453	1/4	50,417	1/4	35,398	1/4	20,364	1/4	5,328	1/4		1/4		1/4		1/4	
1/2	80,176	1/2	65,140	1/2	50,104	1/2	35,085	1/2	20,050	1/2	5,015	1/2		1/2		1/2		1/2	
3/4	79,863	3/4	64,827	3/4	49,791	3/4	34,772	3/4	19,737	3/4	4,702	3/4		3/4		3/4		3/4	
2	79,550	2	64,514	2	49,477	2	34,459	2	19,424	2	4,389	2		2		2		2	
1/4	79,236	1/4	64,200	1/4	49,164	1/4	34,146	1/4	19,111	1/4	4,077	1/4		1/4		1/4		1/4	
1/2	78,923	1/2	63,887	1/2	48,851	1/2	33,833	1/2	18,797	1/2	3,765	1/2		1/2		1/2		1/2	
3/4	78,610	3/4	63,574	3/4	48,538	3/4	33,520	3/4	18,484	3/4	3,453	3/4		3/4		3/4		3/4	
3	78,297	3	63,261	3	48,224	3	33,207	3	18,171	3	3,140	3		3		3		3	
1/4	77,983	1/4	62,947	1/4	47,911	1/4	32,893	1/4	17,858	1/4	2,847	1/4		1/4		1/4		1/4	
1/2	77,670	1/2	62,634	1/2	47,598	1/2	32,580	1/2	17,544	1/2	2,555	1/2		1/2		1/2		1/2	
3/4	77,357	3/4	62,321	3/4	47,285	3/4	32,267	3/4	17,231	3/4	2,262	3/4		3/4		3/4		3/4	
4	77,044	4	62,008	4	46,972	4	31,954	4	16,918	4	1,969	4		4		4		4	
1/4	76,730	1/4	61,694	1/4	46,659	1/4	31,640	1/4	16,605	1/4	1,734	1/4		1/4		1/4		1/4	
1/2	76,417	1/2	61,381	1/2	46,346	1/2	31,327	1/2	16,291	1/2	1,499	1/2		1/2		1/2		1/2	
3/4	76,104	3/4	61,068	3/4	46,033	3/4	31,014	3/4	15,978	3/4	1,264	3/4		3/4		3/4		3/4	
5	75,791	5	60,755	5	45,720	5	30,701	5	15,665	5	1,030	5		5		5		5	
1/4	75,477	1/4	60,441	1/4	45,407	1/4	30,387	1/4	15,352	1/4		1/4		1/4		1/4		1/4	
1/2	75,164	1/2	60,128	1/2	45,094	1/2	30,074	1/2	15,039	1/2		1/2		1/2		1/2		1/2	
3/4	74,851	3/4	59,815	3/4	44,781	3/4	29,761	3/4	14,725	3/4		3/4		3/4		3/4		3/4	
6	74,538	6	59,502	6	44,469	6	29,448	6	14,412	6		6		6		6		6	
1/4	74,224	1/4	59,188	1/4	44,156	1/4	29,134	1/4	14,099	1/4		1/4		1/4		1/4		1/4	
1/2	73,911	1/2	58,875	1/2	43,843	1/2	28,821	1/2	13,786	1/2		1/2		1/2		1/2		1/2	
3/4	73,598	3/4	58,562	3/4	43,530	3/4	28,508	3/4	13,472	3/4		3/4		3/4		3/4		3/4	
7	73,285	7	58,249	7	43,218	7	28,195	7	13,159	7		7		7		7		7	
1/4	72,971	1/4	57,935	1/4	42,905	1/4	27,881	1/4	12,846	1/4		1/4		1/4		1/4		1/4	
1/2	72,658	1/2	57,622	1/2	42,592	1/2	27,568	1/2	12,533	1/2		1/2		1/2		1/2		1/2	
3/4	72,345	3/4	57,309	3/4	42,279	3/4	27,255	3/4	12,219	3/4		3/4		3/4		3/4		3/4	
8	72,032	8	56,996	8	41,967	8	26,942	8	11,906	8		8		8		8		8	
1/4	71,718	1/4	56,682	1/4	41,654	1/4	26,628	1/4	11,593	1/4		1/4		1/4		1/4		1/4	
1/2	71,405	1/2	56,369	1/2	41,341	1/2	26,315	1/2	11,280	1/2		1/2		1/2		1/2		1/2	
3/4	71,092	3/4	56,056	3/4	41,028	3/4	26,002	3/4	10,966	3/4		3/4		3/4		3/4		3/4	
9	70,779	9	55,743	9	40,716	9	25,689	9	10,653	9		9		9		9		9	
1/4	70,465	1/4	55,429	1/4	40,403	1/4	25,375	1/4	10,340	1/4		1/4		1/4		1/4		1/4	
1/2	70,152	1/2	55,116	1/2	40,090	1/2	25,062	1/2	10,027	1/2		1/2		1/2		1/2		1/2	
3/4	69,839	3/4	54,803	3/4	39,777	3/4	24,749	3/4	9,713	3/4		3/4		3/4		3/4		3/4	
10	69,526	10	54,490	10	39,465	10	24,436	10	9,400	10		10		10		10		10	
1/4	69,212	1/4	54,176	1/4	39,152	1/4	24,123	1/4	9,087	1/4		1/4		1/4		1/4		1/4	
1/2	68,899	1/2	53,863	1/2	38,839	1/2	23,809	1/2	8,774	1/2		1/2		1/2		1/2		1/2	
3/4	68,586	3/4	53,550	3/4	38,526	3/4	23,496	3/4	8,460	3/4		3/4		3/4		3/4		3/4	
11	68,273	11	53,237	11	38,214	11	23,183	11	8,147	11		11		11		11		11	
1/4	67,959	1/4	52,923	1/4	37,901	1/4	22,870	1/4	7,834	1/4		1/4		1/4		1/4		1/4	
1/2	67,646	1/2	52,610	1/2	37,588	1/2	22,556	1/2	7,521	1/2		1/2		1/2		1/2		1/2	
3/4	67,333	3/4	52,297	3/4	37,275	3/4	22,243	3/4	7,207	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 01/13/2017 SW
CALCULATED: 01/14/2017 CL
PRINTED: 01/16/2017 JS

CANCELS AND SUPERCEDES
ALL PRIOR TO 01/2017

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



BARGE "HFL 3009"

PORT SLOP TANK ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 5'-06"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0		0	4,137	0	2,982	0	1,829	0	674	0		0		0		0	
1/4		1/4		1/4	4,113	1/4	2,958	1/4	1,804	1/4	650	1/4		1/4		1/4		1/4	
1/2		1/2		1/2	4,089	1/2	2,934	1/2	1,780	1/2	626	1/2		1/2		1/2		1/2	
3/4		3/4		3/4	4,065	3/4	2,910	3/4	1,756	3/4	602	3/4		3/4		3/4		3/4	
1		1	5,140	1	4,041	1	2,886	1	1,732	1	577	1		1		1		1	
1/4		1/4	5,128	1/4	4,017	1/4	2,862	1/4	1,708	1/4	553	1/4		1/4		1/4		1/4	
1/2		1/2	5,117	1/2	3,993	1/2	2,838	1/2	1,684	1/2	529	1/2		1/2		1/2		1/2	
3/4		3/4	5,105	3/4	3,969	3/4	2,814	3/4	1,660	3/4	505	3/4		3/4		3/4		3/4	
2		2	5,093	2	3,945	2	2,790	2	1,636	2	481	2		2		2		2	
1/4		1/4	5,070	1/4	3,921	1/4	2,766	1/4	1,612	1/4	457	1/4		1/4		1/4		1/4	
1/2		1/2	5,046	1/2	3,897	1/2	2,742	1/2	1,588	1/2	433	1/2		1/2		1/2		1/2	
3/4		3/4	5,023	3/4	3,873	3/4	2,718	3/4	1,564	3/4	409	3/4		3/4		3/4		3/4	
3		3	4,999	3	3,849	3	2,693	3	1,540	3	385	3		3		3		3	
1/4		1/4	4,975	1/4	3,824	1/4	2,669	1/4	1,516	1/4	361	1/4		1/4		1/4		1/4	
1/2		1/2	4,952	1/2	3,800	1/2	2,645	1/2	1,492	1/2	337	1/2		1/2		1/2		1/2	
3/4		3/4	4,928	3/4	3,776	3/4	2,621	3/4	1,468	3/4	313	3/4		3/4		3/4		3/4	
4		4	4,904	4	3,752	4	2,597	4	1,444	4	289	4		4		4		4	
1/4		1/4	4,881	1/4	3,728	1/4	2,573	1/4	1,419	1/4	265	1/4		1/4		1/4		1/4	
1/2		1/2	4,857	1/2	3,704	1/2	2,550	1/2	1,395	1/2	241	1/2		1/2		1/2		1/2	
3/4		3/4	4,833	3/4	3,680	3/4	2,526	3/4	1,371	3/4	217	3/4		3/4		3/4		3/4	
5		5	4,810	5	3,656	5	2,502	5	1,347	5	192	5		5		5		5	
1/4		1/4	4,786	1/4	3,632	1/4	2,478	1/4	1,323	1/4	168	1/4		1/4		1/4		1/4	
1/2		1/2	4,762	1/2	3,608	1/2	2,454	1/2	1,299	1/2	144	1/2		1/2		1/2		1/2	
3/4		3/4	4,739	3/4	3,584	3/4	2,430	3/4	1,275	3/4	120	3/4		3/4		3/4		3/4	
6		6	4,715	6	3,560	6	2,406	6	1,251	6	96	6		6		6		6	
1/4		1/4	4,691	1/4	3,536	1/4	2,382	1/4	1,227	1/4		1/4		1/4		1/4		1/4	
1/2		1/2	4,667	1/2	3,512	1/2	2,358	1/2	1,203	1/2		1/2		1/2		1/2		1/2	
3/4		3/4	4,643	3/4	3,488	3/4	2,334	3/4	1,179	3/4		3/4		3/4		3/4		3/4	
7		7	4,619	7	3,464	7	2,310	7	1,155	7		7		7		7		7	
1/4		1/4	4,594	1/4	3,439	1/4	2,286	1/4	1,131	1/4		1/4		1/4		1/4		1/4	
1/2		1/2	4,570	1/2	3,415	1/2	2,262	1/2	1,107	1/2		1/2		1/2		1/2		1/2	
3/4		3/4	4,546	3/4	3,391	3/4	2,238	3/4	1,083	3/4		3/4		3/4		3/4		3/4	
8		8	4,522	8	3,367	8	2,214	8	1,059	8		8		8		8		8	
1/4		1/4	4,498	1/4	3,343	1/4	2,189	1/4	1,035	1/4		1/4		1/4		1/4		1/4	
1/2		1/2	4,474	1/2	3,319	1/2	2,165	1/2	1,011	1/2		1/2		1/2		1/2		1/2	
3/4		3/4	4,450	3/4	3,295	3/4	2,141	3/4	987	3/4		3/4		3/4		3/4		3/4	
9		9	4,426	9	3,271	9	2,117	9	962	9		9		9		9		9	
1/4		1/4	4,402	1/4	3,247	1/4	2,093	1/4	938	1/4		1/4		1/4		1/4		1/4	
1/2		1/2	4,378	1/2	3,223	1/2	2,069	1/2	914	1/2		1/2		1/2		1/2		1/2	
3/4		3/4	4,354	3/4	3,199	3/4	2,045	3/4	890	3/4		3/4		3/4		3/4		3/4	
10		10	4,330	10	3,175	10	2,021	10	866	10		10		10		10		10	
1/4		1/4	4,306	1/4	3,151	1/4	1,997	1/4	842	1/4		1/4		1/4		1/4		1/4	
1/2		1/2	4,282	1/2	3,127	1/2	1,973	1/2	818	1/2		1/2		1/2		1/2		1/2	
3/4		3/4	4,258	3/4	3,103	3/4	1,949	3/4	794	3/4		3/4		3/4		3/4		3/4	
11		11	4,234	11	3,078	11	1,925	11	770	11		11		11		11		11	
1/4		1/4	4,209	1/4	3,054	1/4	1,901	1/4	746	1/4		1/4		1/4		1/4		1/4	
1/2		1/2	4,185	1/2	3,030	1/2	1,877	1/2	722	1/2		1/2		1/2		1/2		1/2	
3/4		3/4	4,161	3/4	3,006	3/4	1,853	3/4	698	3/4		3/4		3/4		3/4		3/4	

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK AT GAUGE POINT.

STRAPPED: 01/13/2017 SW
CALCULATED: 01/14/2017 CL
PRINTED: 01/16/2017 JS

CANCELS AND SUPERCEDES
ALL PRIOR TO 01/2017

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT
& ANALYSIS, INC.

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



BARGE "HFL 3009"

STBD SLOP TANK ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 5'-06 1/4"

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	4,161	0	3,006	0	1,853	0	698	0		0		0		0	
1/4		1/4		1/4	4,137	1/4	2,982	1/4	1,829	1/4	674	1/4		1/4		1/4		1/4	
1/2		1/2		1/2	4,113	1/2	2,958	1/2	1,804	1/2	650	1/2		1/2		1/2		1/2	
3/4		3/4		3/4	4,089	3/4	2,934	3/4	1,780	3/4	626	3/4		3/4		3/4		3/4	
1		1		1	4,065	1	2,910	1	1,756	1	602	1		1		1		1	
1/4		1/4		1/4	5,140	1/4	4,041	1/4	2,886	1/4	1,732	1/4		1/4		1/4		1/4	
1/2		1/2		1/2	5,128	1/2	4,017	1/2	2,862	1/2	1,708	1/2		1/2		1/2		1/2	
3/4		3/4		3/4	5,117	3/4	3,993	3/4	2,838	3/4	1,684	3/4		3/4		3/4		3/4	
2		2		2	5,105	2	3,969	2	2,814	2	1,660	2		2		2		2	
1/4		1/4		1/4	5,093	1/4	3,945	1/4	2,790	1/4	1,636	1/4		1/4		1/4		1/4	
1/2		1/2		1/2	5,070	1/2	3,921	1/2	2,766	1/2	1,612	1/2		1/2		1/2		1/2	
3/4		3/4		3/4	5,046	3/4	3,897	3/4	2,742	3/4	1,588	3/4		3/4		3/4		3/4	
3		3		3	5,023	3	3,873	3	2,718	3	1,564	3		3		3		3	
1/4		1/4		1/4	4,999	1/4	3,849	1/4	2,693	1/4	1,540	1/4		1/4		1/4		1/4	
1/2		1/2		1/2	4,975	1/2	3,824	1/2	2,669	1/2	1,516	1/2		1/2		1/2		1/2	
3/4		3/4		3/4	4,952	3/4	3,800	3/4	2,645	3/4	1,492	3/4		3/4		3/4		3/4	
4		4		4	4,928	4	3,776	4	2,621	4	1,468	4		4		4		4	
1/4		1/4		1/4	4,904	1/4	3,752	1/4	2,597	1/4	1,444	1/4		1/4		1/4		1/4	
1/2		1/2		1/2	4,881	1/2	3,728	1/2	2,573	1/2	1,419	1/2		1/2		1/2		1/2	
3/4		3/4		3/4	4,857	3/4	3,704	3/4	2,550	3/4	1,395	3/4		3/4		3/4		3/4	
5		5		5	4,833	5	3,680	5	2,526	5	1,371	5		5		5		5	
1/4		1/4		1/4	4,810	1/4	3,656	1/4	2,502	1/4	1,347	1/4		1/4		1/4		1/4	
1/2		1/2		1/2	4,786	1/2	3,632	1/2	2,478	1/2	1,323	1/2		1/2		1/2		1/2	
3/4		3/4		3/4	4,762	3/4	3,608	3/4	2,454	3/4	1,299	3/4		3/4		3/4		3/4	
6		6		6	4,739	6	3,584	6	2,430	6	1,275	6		6		6		6	
1/4		1/4		1/4	4,715	1/4	3,560	1/4	2,406	1/4	1,251	1/4		1/4		1/4		1/4	
1/2		1/2		1/2	4,691	1/2	3,536	1/2	2,382	1/2	1,227	1/2		1/2		1/2		1/2	
3/4		3/4		3/4	4,667	3/4	3,512	3/4	2,358	3/4	1,203	3/4		3/4		3/4		3/4	
7		7		7	4,643	7	3,488	7	2,334	7	1,179	7		7		7		7	
1/4		1/4		1/4	4,619	1/4	3,464	1/4	2,310	1/4	1,155	1/4		1/4		1/4		1/4	
1/2		1/2		1/2	4,594	1/2	3,439	1/2	2,286	1/2	1,131	1/2		1/2		1/2		1/2	
3/4		3/4		3/4	4,570	3/4	3,415	3/4	2,262	3/4	1,107	3/4		3/4		3/4		3/4	
8		8		8	4,546	8	3,391	8	2,238	8	1,083	8		8		8		8	
1/4		1/4		1/4	4,522	1/4	3,367	1/4	2,214	1/4	1,059	1/4		1/4		1/4		1/4	
1/2		1/2		1/2	4,498	1/2	3,343	1/2	2,189	1/2	1,035	1/2		1/2		1/2		1/2	
3/4		3/4		3/4	4,474	3/4	3,319	3/4	2,165	3/4	1,011	3/4		3/4		3/4		3/4	
9		9		9	4,450	9	3,295	9	2,141	9	987	9		9		9		9	
1/4		1/4		1/4	4,426	1/4	3,271	1/4	2,117	1/4	962	1/4		1/4		1/4		1/4	
1/2		1/2		1/2	4,402	1/2	3,247	1/2	2,093	1/2	938	1/2		1/2		1/2		1/2	
3/4		3/4		3/4	4,378	3/4	3,223	3/4	2,069	3/4	914	3/4		3/4		3/4		3/4	
10		10		10	4,354	10	3,199	10	2,045	10	890	10		10		10		10	
1/4		1/4		1/4	4,330	1/4	3,175	1/4	2,021	1/4	866	1/4		1/4		1/4		1/4	
1/2		1/2		1/2	4,306	1/2	3,151	1/2	1,997	1/2	842	1/2		1/2		1/2		1/2	
3/4		3/4		3/4	4,282	3/4	3,127	3/4	1,973	3/4	818	3/4		3/4		3/4		3/4	
11		11		11	4,258	11	3,103	11	1,949	11	794	11		11		11		11	
1/4		1/4		1/4	4,234	1/4	3,078	1/4	1,925	1/4	770	1/4		1/4		1/4		1/4	
1/2		1/2		1/2	4,209	1/2	3,054	1/2	1,901	1/2	746	1/2		1/2		1/2		1/2	
3/4		3/4		3/4	4,185	3/4	3,030	3/4	1,877	3/4	722	3/4		3/4		3/4		3/4	

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK AT GAUGE POINT.

STRAPPED: 01/13/2017 SW
CALCULATED: 01/14/2017 CL
PRINTED: 01/16/2017 JS

CANCELS AND SUPERCEDES
ALL PRIOR TO 01/2017

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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