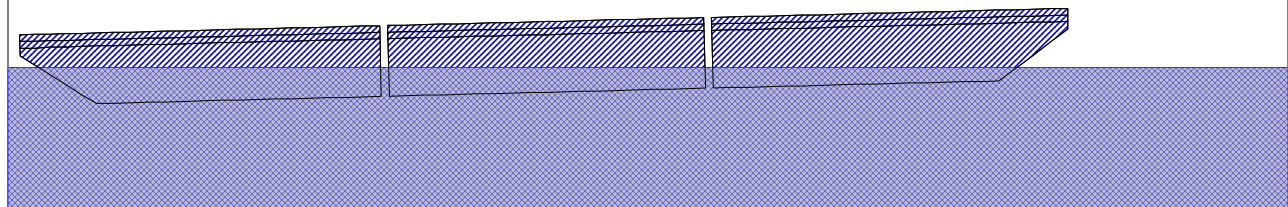


Test Pontoon

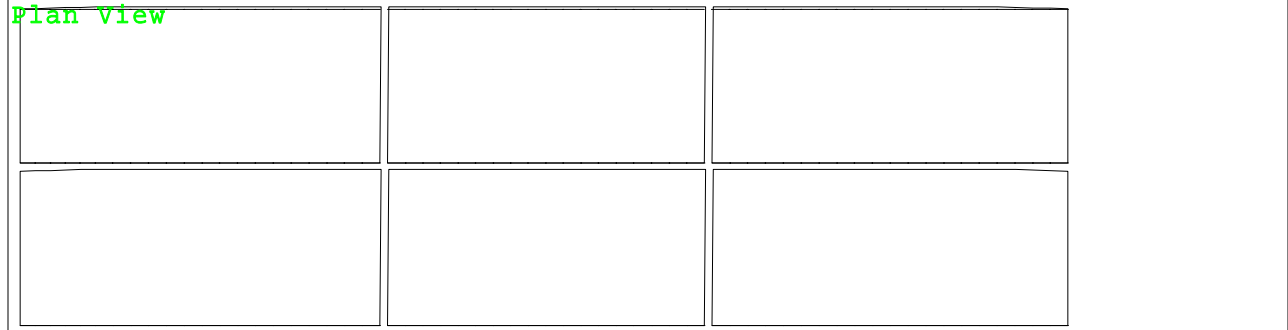
Client:	Ruben de Bruin
Project name:	DAVE
Condition description:	-
Document Nr:	-
Revision	B
Status:	Basic Engineering
Date:	8 JUL 2020
Author:	R.J.P. Hoekstra

CG - Draft: 0.061 @ 13.640f, 0.405 @ 0.000 Heel: stbd 2.36 deg.

Outboard Profile View



Plan View



-

Name:	Nato Ponton
Model info:	TESTPONT_A1
Units:	METERS
SG Water:	1.000

HYDROSTATIC PROPERTIES								
Trim: Aft 0.344/13.640,			Heel: Stbd 2.36 deg.,			VCG = 0.313		
LCF Draft	Displacement Weight(MT)	Buoyancy-Ctr. LCB	Weight/ VCB	Weight/ cm	LCF	Moment/ cm trim	GML	GMT
0.239	11.22	5.393f	0.143	0.49	6.579f	0.45	54.33	5.618
Distances in METERS.			Specific Gravity = 1.000.			Moment in m.-MT.		
Draft is from Baseline.			Trim is per 13.64m.			Free Surface included. GMT is from RA curve.		

Baseline draft: 0.061 @ 13.64f, 0.405 @ 0.00

WEIGHT STATUS				
Part	Weight(MT)	LCG	TCG	VCG
FIXED WEIGHT	7.50	6.820f	0.000	0.380
Distances in METERS.				

LOAD STATUS					
Trim: Aft 0.344/13.640			Heel: Stbd 2.36 deg.		
Tank Description	Name	Contents	Load Wt MT	Load%	Sounding
	WBT1.P	FRESH WATER	0.62	10.0	
	WBT1.S	FRESH WATER	3.10	50.0	
	WBT2.P	FRESH WATER	0.00	0.0	
	WBT2.S	FRESH WATER	0.00	0.0	
	WBT3.P	FRESH WATER	0.00	0.0	
	WBT3.S	FRESH WATER	0.00	0.0	
Total as loaded			3.72		
Soundings in m.					

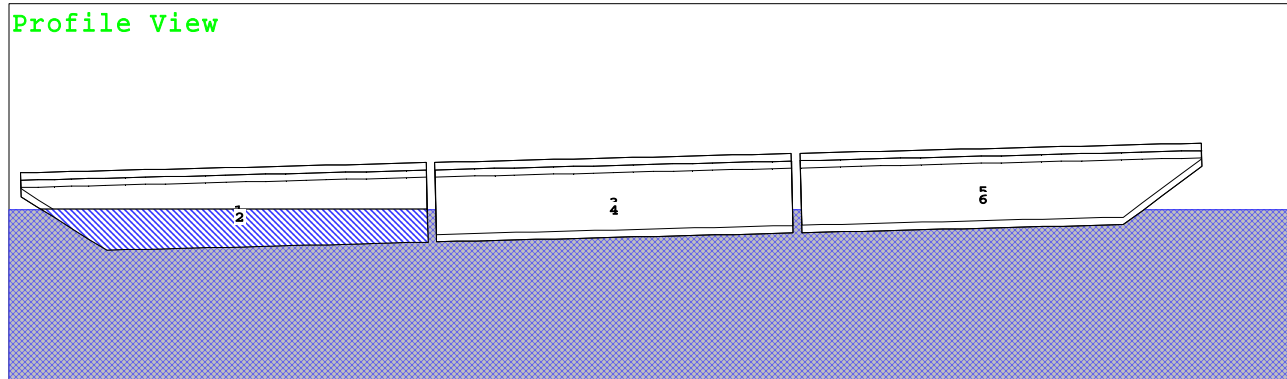
TANK STATUS							
Trim: Aft 0.344/13.640,				Heel: Stbd 2.36 deg.			
Part	Load	SpGr	Weight(MT)	LCG	TCG	VCG	RefHt
WBT1.P	0.100	1.000	0.62	2.395f	0.877p	0.050	-0.195
WBT1.S	0.500	1.000	3.10	2.555f	1.089s	0.204	-0.412
Total Tanks			3.72	2.529f	0.761s	0.178	
Distances in METERS.							

TANK STATUS							
Trim: Aft 0.344/13.640,				Heel: Stbd 2.36 deg.			
Part	Load	SpGr	Weight(MT)	LCG	TCG	VCG	
FRESH WATER	0.101	1.000	3.72	2.529f	0.761s	0.178	
Distances in METERS.							

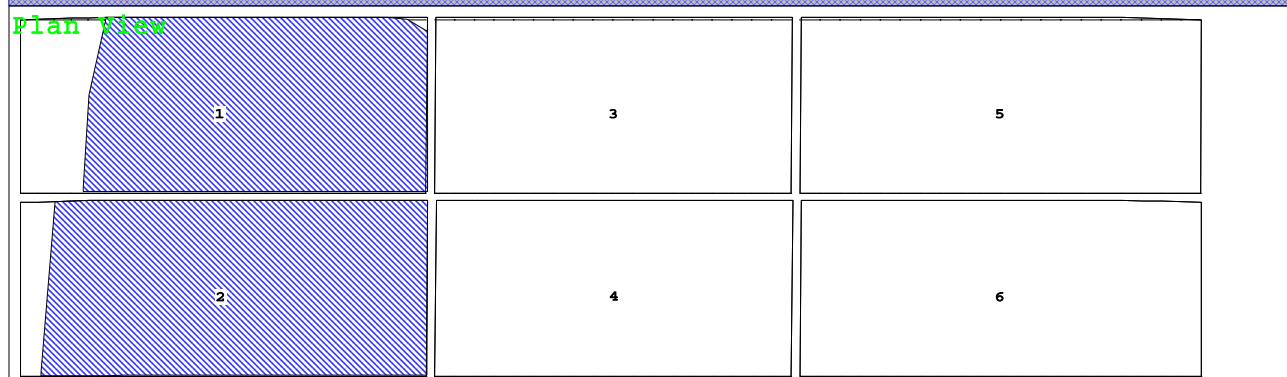
WEIGHT STATUS					
Trim: Aft 0.344/13.640,			Heel: Stbd 2.36 deg.		
Part	Weight(MT)	LCG	TCG	VCG	FSM
Total Fixed	7.50	6.820f	0.000	0.380	
Total Tanks	3.72	2.529f	0.761s	0.178	5.40
Total Weight	11.22	5.398f	0.252s	0.313	
Free Surface Adjustment				0.482	
Adjusted CG		5.410f	0.232s	0.794	
Distances in METERS.				Moments in m.-MT.	

CG - Draft: 0.061 @ 13.640f, 0.405 @ 0.000 Heel: stbd 2.36 deg.

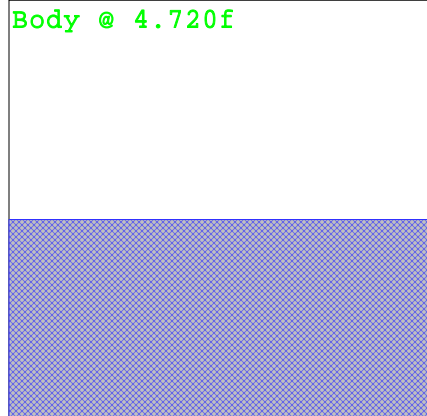
Profile View



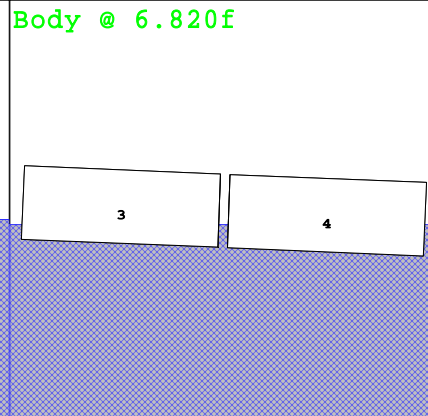
Plan View



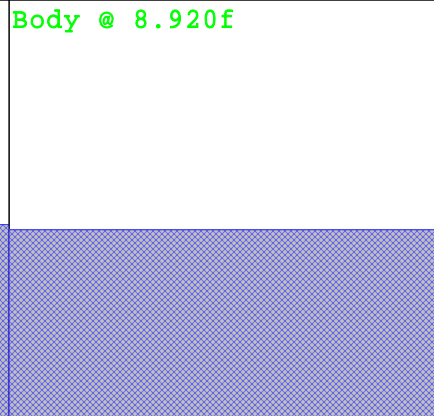
Body @ 4.720f



Body @ 6.820f



Body @ 8.920f



Tanks

1 WBT1.P...10% FRESH WATER	2 WBT1.S...50% FRESH WATER	4 WBT2.S...0% FRESH WATER	6 WBT3.S...0% FRESH WATER
	3 WBT2.P...0% FRESH WATER	5 WBT3.P...0% FRESH WATER	

RIGHTING ARMS vs HEEL ANGLE

Fixed CG: LCG = 6.820f TCG = 0.000 VCG = 0.380

Origin Depth	Degrees of Trim	Degrees of Heel	Displacement Weight(MT)	Righting Arms in Trim	Righting Arms in Heel	Area
0.404	1.44a	2.36s	11.218	0.000	0.000	0.0000
0.404	1.44a	3.36s	11.218	0.000	0.097	0.0009
0.404	1.45a	4.36s	11.218	0.000	0.192	0.0034
0.404	1.48a	5.36s	11.218	0.000	0.281	0.0075
0.406	1.52a	6.36s	11.219	0.000	0.364	0.0131
0.407	1.57a	7.36s	11.217	0.000	0.440	0.0202
0.409	1.64a	8.36s	11.217	0.000	0.508	0.0284
0.409	1.71a	9.36s	11.217	0.000	0.569	0.0378
0.409	1.79a	10.36s	11.218	0.000	0.620	0.0482
0.408	1.87a	11.36s	11.218	0.000	0.662	0.0594
0.407	1.95a	12.36s	11.218	0.000	0.696	0.0712
0.397	2.44a	17.36s	11.218	0.000	0.782	0.1370
0.389	2.86a	21.11s	11.217	0.000	0.795	0.1888
0.387	3.00a	22.36s	11.219	0.000	0.795	0.2062
0.376	3.57a	27.36s	11.218	0.000	0.780	0.2752
0.366	4.15a	32.36s	11.216	0.000	0.750	0.3421
0.355	4.73a	37.36s	11.218	0.000	0.710	0.4059
0.345	5.29a	42.36s	11.219	0.000	0.661	0.4658
0.333	5.83a	47.36s	11.218	0.000	0.606	0.5212
0.320	6.33a	52.36s	11.218	0.000	0.546	0.5715

Distances in METERS.

Specific Gravity = 1.000.

Area in m.-Rad.

Note: The Center of Gravity shown above is for the Fixed Weight of 7.50 MT. As the tank load centers shift with heel and trim, the total Center of Gravity varies. The righting arms shown above include the effect of the C.G. variation.

GM is the lesser of waterplane-derived GM and the RA-curve slope.

