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FOLDER NAME	Dr. Leo Meyer (Marshall Island Natives)
NOTES	
FOUND BY	Perry Hall

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COPY

TRITIATED PLASMA SAMPLES

DR. LEO MEYER  
April, 1965

HOLE POS.	SAMPLE	VOL	VOL. INT STD.	Scpm	Tcpm	T <sub>corr</sub>	T-S	S-b	S-b <sub>corr</sub>	T-S / S-b <sub>corr</sub>	TBW(L)
	0. NC H <sub>2</sub> O STD.			28,021							
1	"	1.0ml	0.1966	2614	10,048	10,671	8057	2577	2613	3.0834	38.92
2	"	2.0		4411	9,832	10,343	5932	4374	4435	1.3375	33.77
3	"	1.0		3285	10,634	10,293	8008	3248	3293	2.4318	30.70
4	"	2.0		4659	10,101	10,626	5967	4622	4687	1.2731	32.14
5	"	1.0		3788	11,460	12,171	8383	3751	3804	2.2037	27.82
6	"	2.0		3535	9,078	9550	6015	3498	3547	1.6938	42.81
7	H <sub>2</sub> O Bk	2.0		37							

PRIVACY ACT MATERIAL REMOVED

NAME	BODY WEIGHT	TBW(Kg)	%TBW	1 - ( $\frac{\%TBW}{0.92}$ ) = approx. % Fat
	65.91	33.41	50.69	29.6
	67.27	33.26	49.44	31.3
	60.00	30.24	50.40	30.0
	60.91	31.66	51.98	27.8
	52.27	27.40	52.42	27.2
	72.73	42.17	57.98	19.5

S = sample  
T = sample + Internal Std.  
b = background  
TBW = Total Body Water

S-b<sub>corr</sub> = S-b (1.014), To correct for 4-6 hrs.

$$TBW(Liters) = \frac{(H_2O\ dilution)}{2500} \times (Sample\ Vol) \times \left( \frac{Vol. H_2O\ given}{Vol. Int. Std.} \right) \times \left( \frac{T-S}{S-b_{corr}} \right)$$

$$TBW(Kg) = TBW(L) \times 0.985$$

Calibrations:

L. Meyer's 1ml pipette = 0.9927 ml  
Int. Std. Auto ppt. = 0.1966 ml  
Int. Std. dilution = 1:2500