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UNITED STATES
ATOMIC ENERGY COMMISSION
NEW YORK OPERATIONS OFFICE
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TELEPHONE NO.:
PLaza 7-3600

Health and Safety Laboratory

HSA:JHH:krw

December 17, 1956

Dr. Lauren R. Donaldson, Director
Applied Fisheries Laboratory
University of Washington
Fisheries Center
Seattle 5, Washington

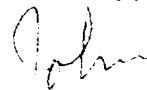
Dear Lauren:

Thanks very much for your information on the survey samples. We have now revised our data in terms of the weights that you gave us. This summary is as correct as possible. The particular question you asked concerning HASL #3815 is resolved by Isotopes, Inc., reducing their value to 80 ± 3 .

I believe this completes our data with the exception of a request from DEM for a repeated analysis of all crab samples. Crabs are apparently the limiting diet factor and they are asking for a check on all of our analyses. We will let you know if any changes are made.

Best regards to you and your staff.

Sincerely,



John H. Harley, Chief
Analytical Branch

UNAFI - POST LANDING MARSHALL ISLAND SURVEY SAMPLES

UNAFI Number	UNAFI Number	Organism	Tissue	Sampling Location Island	Collection Date	No. Spec.	Lab	Total Activity (B)		Sr90		Ca	S.U.
								C-Date	d/m/gm-net	d/m/gm-net	ppm/gm-net		
4042	I-9	Holothurid star	gonad	Rongelap	7-23-56		I, Inc.	10-10-56	46	2.7	± 0.11	0.00566	210 ± 11
4043	I-10	Holothurid star	gut & content	Rongelap	7-23-56		I, Inc.	10-10-56	31	1.2	± 0.05	0.155	5.4 ± 0.08
4044	I-11	Holothurid star	integument	Rongelap	7-23-56		I, Inc.	10-10-56	10	0.27	± 0.017	<0.00101	± 150
4045	I-12	Tridacna pigra	mantle	Kabellie	7-24-56		I, Inc.	10-10-56	2.6	0.030	± 0.016	<0.00239	± 6
4046	I-13	Tridacna pigra	muscle	Kabellie	7-24-56		I, Inc.	10-10-56	1.5	± 0.046		0.00000	± 5.3
4047	I-49a	Conobita	muscle	Kabellie	7-24-56		NSE		310	16	± 0.58	0.0016	4600 ± 300
4048	I-49b	Conobita	skeleton	Kabellie	7-24-56		NSE		2700	156	± 5.9	0.109	3910 ± 170
4049	I-49c	Conobita	liver	Kabellie	7-24-56		NSE		700	34	± 1.6	0.0034	4600 ± 300
4050	I-50a	Conobita	skeleton	Kabellie	7-24-56		NSE		1660	110	± 3.1	0.183	2190 ± 80
4051	I-50b	Conobita	liver	Kabellie	7-24-56		NSE		790	29	± 1.0	0.0026	2720 ± 130
4052	I-50c	Conobita	muscle	Kabellie	7-24-56		NSE		280	14.5	± 0.45	0.0015	2860 ± 170
4053	I-52	Conobita	skeleton	Rongelap	7-23-56		NSE		1.60	750	± 35	0.156	2200 ± 120
4054	I-51	Conobita	skeleton	Kabellie	7-24-56		NSE		2760	14.50	± 5.0	0.182	3600 ± 150
4035	F-266a	Reef fish	muscle	Rongelap	7-23-56	19	NSE		12	0.036	± 0.003	0.000808	20 ± 1.9
4036	F-266b	Reef fish	bone	Rongelap	7-23-56	19	NSE		31	1.9	± 0.082	0.0711	12 ± 0.5
4037	F-266c	Reef fish	liver	Rongelap	7-23-56	19	NSE		230	0.058	± 0.029	0.000990	27 ± 1.3
4038	F-311a	Reef fish	muscle	Kabellie	7-24-56	15	I, Inc.	10-10-56	2.9	0.027	± 0.004	0.00125	9.0 ± 1.6
4039	F-311b	Reef fish	muscle	Kabellie	7-24-56	15	I, Inc.	10-10-56	0.39	0.101	± 0.007	0.00104	4.4 ± 1.4
4040	F-311c	Reef fish	bone	Kabellie	7-24-56	15	I, Inc.	10-10-56	0.66	0.106	± 0.014	0.0714	0.8 ± 0.1
4041	F-311d	Reef fish	liver	Kabellie	7-24-56	15	I, Inc.	10-10-56	7.2	0.061	± 0.041	<0.00185	± 6
4024	RO-1	Breadfruit	meat	Rongelap	7-23-56		NSE		31	0.26	± 0.008	0.000447	260 ± 10
4025	RO-2	Papaya	seeds	Rongelap	7-23-56		I, Inc.	10-11-56	0.86	0.30	± 0.01	<0.00208	± 86
4026	RO-2	Papaya	seeds	Rongelap	7-23-56		I, Inc.		28	0.38	± 0.002	0.00237	74 ± 4
4027	RO-6	Coconut	meat	Rongelap	7-23-56		I, Inc.	10-10-56	0.36	0.033	± 0.003	<0.000376	± 11
4028	RO-7	Coconut	milk	Rongelap	7-23-56		NSE		66 (4/4/4)	0.034	± 0.004 (4/4)	0.000277 (ppm/4)	58 ± 7
4029	RO-8	Yorinia	pulp & seeds	Rongelap	7-23-56		NSE		46	1.4	± 0.048	0.000659	1000 ± 50
4029	RO-12	Arrowroot	corn	Rongelap	7-23-56		I, Inc.	10-10-56	0.16	0.27	± 0.004	0.00042	190 ± 3
4030	RO-16	Fandanus	fruit	Rongelap	7-23-56		NSE		63	1.2	± 0.041	0.00106	530 ± 20
4031	RO-20	Coconut	meat	Kabellie	7-24-56		I, Inc.	10-10-56	0.56	0.15	± 0.003	<0.000250	± 272
4032	RO-21	Coconut	milk	Kabellie	7-24-56		NSE		145	1.9	± 0.076	0.000474	1720 ± 110
4033	RO-22	Papaya	fruit	Rongelap	7-23-56		I, Inc.	10-10-56	0.10	0.37	± 0.006	0.000336	265 ± 4

UNAFI Number	UNAFI Number	Type	Island Location	S-Date	Area	Lab	Total Activity (B)		Sr90		Total Ca	S.U.
UNAFI Number	UNAFI Number	Type	Island Location	S-Date	Area	Lab	C-Date	d/m/1	d/m/gm-net	d/m/ft ²		
3014		Clatern	Rongelap	7-27-56	Village	I, Inc.	8-7-56		31,000	(after filtering twice)	150	± 4
3015		Wall	Rongelap	7-23-56	Village	I, Inc.	8-7-56		22,000	(after filtering twice)	80	± 3

UNAFI Number	UNAFI Number	Sampling Location	Collection Date	Depth	Area	Lab	Total Activity (B)		Sr90	Sr90	Sr90	Total Ca	Minimum
UNAFI Number	UNAFI Number	Sampling Location	Collection Date	Depth	Area	Lab	C-Date	d/m/gm-net	d/m/gm-net	d/m/ft ²	Sr90	ppm/gm-net	S.U.
3002		Kabellie	7-24-56	0-2"	(first set)	UNAFI	8-4-56	1900 ± 80	150 ± 3.7	5.5 x 10 ⁵	0.07	0.29	220 ± 6
						I, Inc.	8-29-56	1820	155 ± 4.1	5.7 x 10 ⁵		0.31	
3003		Kabellie	7-24-56	2-4"	(first set)	UNAFI	8-4-56	406 ± 45	40 ± 0.41	1.3 x 10 ⁵		0.32	55 ± 0.6
						I, Inc.	8-29-56	471				0.35	8.0 ± 0.9
3004		Kabellie	7-24-56	4-6"	(first set)	UNAFI	8-4-56	± 40	1.5 ± 0.07	0.064 x 10 ⁵		0.35	8.0 ± 0.9
						I, Inc.	8-29-56	106				0.35	8.0 ± 0.9
3007		Kabellie	7-24-56	0-2"	(second set)	UNAFI	8-4-56	6210 ± 110	250 ± 4.9	9.3 x 10 ⁵	0.16	0.37	330 ± 2
						I, Inc.	8-30-56	5940	265 ± 1.2	9.8 x 10 ⁵		0.36	
3006		Kabellie	7-24-56	2-4"	(second set)	UNAFI	8-4-56	3300 ± 102	58 ± 2.9	2.2 x 10 ⁵	0.07	0.35	125 ± 2
						I, Inc.	8-30-56	1735	96 ± 1.7	5.6 x 10 ⁵		0.35	
3005		Kabellie	7-24-56	4-6"	(second set)	UNAFI	8-4-56	1160 ± 62	54 ± 2.8	1.8 x 10 ⁵	0.08	0.56	40 ± 1.3
						I, Inc.	8-30-56	651	30 ± 0.57	1.0 x 10 ⁵		0.34	
3008		Rongelap	7-23-56	0-2"	100' fr. lagoon	UNAFI	8-4-56	266 ± 52	10 ± 0.40	0.46 x 10 ⁵		0.36	13 ± 1.1
						I, Inc.	8-30-56	152				0.35	5.8 ± 0.4
3009		Rongelap	7-23-56	2-4"	100' fr. lagoon	UNAFI	8-4-56	± 39	4.5 ± 0.1	0.21 x 10 ⁵		0.35	5.8 ± 0.4
						I, Inc.	8-30-56	79.2				0.35	5.8 ± 0.4
3010		Rongelap	7-23-56	4-6"	100' fr. lagoon	UNAFI	8-4-56	± 45	1.4 ± 0.06	0.04 x 10 ⁵		0.35	1.9 ± 0.4
						I, Inc.	8-30-56	51.9				0.35	1.9 ± 0.4
3011		Rongelap	7-23-56	0-2"	mid island	UNAFI	8-4-56	1220 ± 58	68 ± 2.8	2.3 x 10 ⁵	0.06	0.20	44 ± 0.5
						I, Inc.	8-30-56	663	31 ± 0.21	1.0 x 10 ⁵		0.32	
3012		Rongelap	7-23-56	2-4"	mid island	UNAFI	8-4-56	134 ± 51	4.0 ± 0.2	0.16 x 10 ⁵		0.35	5.2 ± 0.3
						I, Inc.	8-30-56	106				0.35	5.2 ± 0.3
3011		Rongelap	7-23-56	4-6"	mid island	UNAFI	8-4-56	± 37	0.98 ± 0.03	0.10 x 10 ⁵		0.32	1.4 ± 0.1
						I, Inc.	8-30-56	51.9				0.32	1.4 ± 0.1
3010		Barry	7-23-56	surface	shore	UNAFI	8-4-56	17900 ± 203	7.6 ± 2.0		8.7	0.30	
3019		Barry	7-23-56	sub-surface	shore	UNAFI	8-4-56	107 ± 39					

* An of 9-20-56

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