411099

Laboratory Log Book - Lab. Trailer.

TG 7.1 - TU-6

HARDTACK Phase I -

Eniwetok Atoll

P.P.G.

19 April 1958 - 25 July 1958

50181

Manufactured by
U. S. Government Printing Office

3/5

DATE	Rec'd time	SAMPLE	SOURCE	c/m	c/t	B/c	P/m/L	E of C
4-19-58		Bathing Area	water	22	3 min	22	0	
4-19-58		Drinking water - Fountain water		19	3 min	22	0	
5-4-58	1300	Camp Blandy	Beach Water	22	6/1'	18	2,500	
5-5-58	0800	Camp Blandy	Beach Water	21	6/1'	18	3,500	12%
5-6-58	0800	CAMP BLANDY	BEACH WATER	7	6/1'	17	7000	10%
	0815	SALT WATER	USS BOXER TAKEN 5-5-58	3	6/1'	17	2700	11%
	0815	FRESH WATER	USS BOXER TAKEN 5-5-58	0	6/1'	17	—	—
5-7-58	0830	BEACH WATER	CAMP BLANDY	2	6/1'	20	1800	11%
	1600	FRESH WATER	USS BOXER TAKEN 5-6-58	0	6/1'	20	0	—
	1600	SALT WATER	USS BOXER USS BOXER	1	6/1'	20	900	11%
5-8-58	1045	Beach Water	Camp Blandy	2	10/1'	18	1800	11%
5-9-58	0800	Beach Water	Camp Blandy	2	10/1'	18	2,000	10%
5-10-58	0825	Beach water	Camp Blandy	2	6/1	18	1,600	12%
5-11-58	1630	BEACH WATER	CAMP BLANDY	5	6/1'	18	4500	11
5-12-58	0800	BEACH WATER	CAMP BLANDY	7	6/1'	16	5000	.12
	1600	BEACH WATER	CAMP BLANDY	1	6/1'	19	900	.11
	1700	Fresh water	USS Boxer spec taken 0725	2	6/1'	19	[illegible]	.12
	1700	Salt water	USS Boxer spec taken 0725	3	6/1'	16	[illegible]	.11
time sampled 5-13-58	Rec'd 0845	Beach water	spec taken [illegible] Camp Blandy	1	6/1	15	[illegible]	.10
	0845	Rain H_2O (caught in Bucket Peter Oboe Trailer)	spec taken @ 0845	9	10/1'	18	9,[illegible]	.10
	1040	water	Peter-Oboe	0	10'	19	0	.12
	1135	Rain H_2O	spec ... time in Rain 0910	6	10'	19	5,000	.12
	1330	Beach H_2O	Camp Blandy spec. taken @1200	3	10'	19	3,500	.12
	1330	H_2O From Lagoon Camp Blandy	spec taken @1200	2	10'	19	1,600	.12
	1450	Ocean H_2O -	From Peter-Oboe	6	10'	19	5,000	.12
	1450	H_2O From Mess Hall -	Peter-Oboe	3	10'	19	2,500	.12
	1625	Beach water	1600 specimen Camp Blandy	1	10'	19	835	.12
5-14-58	0830	Beach water	Camp Blandy taken @ 2000 5/13	0	10'	[illegible]	0	.12
	0830	Beach water	Camp Blandy 0800 specimen	2	10'	19	1,600	.12
	1330	Beach H_2O	Camp Blandy 1200 spec.	0	15'	19	0	.12
	1600	BEACH WATER	CAMP BLANDY	10	10'	20	9000	.11
	1600	Avon SEA WATER	ALFA-BRAVO CHANNEL 0500	20,804	10'	20	16,674,100	.1c
	2000	BEACH WATER	CAMP BLANDY	30	10'	24	4,980	.12
5-15-58	0645	Beach H_2O	Camp Blandy	26	5'	50	21,000	.12
	0645	Beach H_2O	Marine Pump	26	5'	26	21,000	.12
	0715	H_2O -	Near Mess Hall	0	5'	66	0	.12
	0715	H_2O -	Drinking Fountain Near trailer Compound	0	5'	69	0	.12

Date Specimen Rec'd	Time	Sample	Source	c/m	c/t	B/c	d/m/l	
5-15-58	0855	Beach Water	Camp Blandy 0800-Specimen	210	15'	65	175,000	.12
5-15-58	0935	Brine Discharge	USS Perkins F. APS	18	15'	65	14,450	.12
	0935	Fresh water	USS Perkins FLAPS	20	15'	65	16,600	.12
	1040	Flour	Mess Hall	0	5'	65	—	—
		Potatoes	Mess Hall	82	5'	65	65,800	.12
		Sweet Roll	Mess Hall	35	5'	100	28,200	.12
		Biscuit	Mess Hall	364	5'	65	303,300	.12
		Rye Bread	Mess Hall	68	5'	100	56,600	.12
	1200	Salt Water	Alfa Channel	1624	10'	78	1,359,300	.12
		Salt Water	Uncle	35	10'	107	29,100	.12
		Salt Water	Barge	0	10'	78	—	—
		Biscuit	Mess Hall	2,006	5'	91		.12
		Sweet Rolls	Mess Hall	875	5'	91		.12
		Potatoes	Mess Hall	1,595	5'	109		.12
		Rye Bread	Mess Hall	1,075	5'	91		.12
		An attempt was made to break down above food with one molar solution of Glacial Acetic Acid. 10 cc of solution was evaporated and counted.						
	1840	Salt Water	Camp Blandy 1200	29	10'	108	24,100	.12
		Salt Water	Camp Blandy	0	10'	109	0	.12
		Salt Water	Peter Oboe	13	10'	108	10,800	.12
Late	1500	Wipe - Screen East Side	Mess Hall	54,744	10'	108	—	.12
		Wipe - Table East Side	Mess Hall	30,005	10'	109	—	.12
		Wipe - Partition Between Bake	Mess Hall	19,000	10'	108	—	.12
		Wipe - Coffee Urn Edge of	Mess Hall	7,000	10'	109	—	.12
		Wipe - Table in Hall	Mess Hall	3,000	10'	108	—	.12
		Wipe - Coffee Grinder	Mess Hall	2,000	10'	109	—	.12
	1930	Wipe - Screen East Side	Mess Hall	103,000 c/m				.1
		Wipe - Table East Side	Mess Hall	29,000 c/m				.12
		Wipe - Partition Between Dis	Mess Hall	11,000 c/m				.12
		Wipe - Bakery Wall	Mess Hall	9,500 c/m				.1
		Wipe - Refer Door	Mess Hall	1,000 c/m				.1
		Brocoli	Mess Hall	69	10'	106		.1
		Potatoes	Mess Hall	58	10'	62		.1
5-16-58	0820	Salt Water	Camp Blandy					

	DATE	TIME	SAMPLE	SOURCE	C/m	C/T	B/C	D/m/C	
	5-16-58	0815	Beach water -	Camp Blandy 0800	132	10'	107	132,000	.11
12		0920	BEACH WATER	CAMP BLANDY 0910	17	10'	107	15,400	.11
12		1015	Crackers -	Mess Hall (on serving line?)	375	10'	107		.10
12			Fruit -	Mess Hall (on Serving Line)	98	10'	107		.11 .18%
			Bread -	Mess Hall (on table)	151	10'	109		.10
12		1100	Lagoon H2O	Peter 0800	1,256	10'	107	114,000	.12
12		1400	SALT WATER	CAMP BLANDY 1200	17	5'	107	15,000	.11
12		1505	Fresh water	USNS Ainsworth TAP-181	7	10'	135	6,363	.11
12		1605	Brine Discharge	USNS Ainsworth TAP-181	0	10'	122	0	.10
12		1625	Salt water	Camp Blandy	0	5'	111	0	.11
12		1750	Salt water	Able	3,000	5'	111	500,000	.11
12		1750	Salt Water	Bravo	3,000	5'	116	500,000	.10
12	5-17-58	2230	Beach water	Camp Blandy (0800)	27	5'	73	22,600	.12
12			Beach Water	Camp Blandy (0800)	27	5'	94	22,600	.12
12			Beach water	Camp Blandy 0800	148	5'	92	24,400	.10
12			Shot Barge -	tore H2O	32	5'	104	24,000	.11
	5-19-58	0830	1) Salt Water -	USS Boxer 5-13-58	2	5'	75	1,750	.12
			2) Fresh Water -	USS Boxer 5-13-58	36	5'	84	24,000	.10
			3) Salt water -	USS Boxer 5-14-58	0	5'	100		.11
			4) Fresh water -	USS Boxer 5-14-58	20	5'	75	17,000	.12
			5) Salt Water -	USS Boxer 5-15-58	6	5'	84	5,000	.10
12			6) Fresh water	USS Boxer 5-15-58	2	5'	100	1,500	.11
12			7) Fresh water	USS Boxer 5-16-58	60	5'	75	50,000	.12
12			8) Salt water	USS Boxer 5-16-58	3	5'	84	3,000	.10
12			9) Fresh water	USS Boxer 5-17-58	0	5'	100	0	.11
12			10) Salt water	USS Boxer 5-17-58	135	5'	75	13,000	.12
12			11) Fresh water	USS Boxer 5-18-58	0	5'	84	0	.10
12			12) Salt Water -	USS Boxer 5-18-58	14	5'	100	13,000	.11
12			13) Salt water	Camp Blandy	0	5'	75	0	.12
12		1510	15 Salt H_2O	Camp Blandy	0	5'	80	0	.12
12	5-20-58	0930	Camp Blandy -	Salt Water	7	10'	54	5,400	.13
12		1100	SWIPE - SIDE	EAST Mess Hall	559	10'	54	—	.13
12			SWIPE - SIDE	WEST Mess Hall	110	10'	115	—	.10
12			SWIPE - Scuttle	Mess Hall	171	10'	54	—	.12
12			SWIPE - Hand	Mess Hall	548	10'	115	—	.10
12			Fresh H_2O	USS Boxer (0800)	1	10'	55	770	.13
12			Salt H_2O	USS Boxer (0800)	0	10'	91	0	.10
1		1625	Salt H2O	Camp Blandy	1	10'	55	770	.13

CORRESPONDENCE MAIL ROOM

Date	Time	Sample	Source	c/m	T/c	∅/c	d/m/l	
5-21-58	0830	Salt H_2O	Camp Blandy	0	10'	51	0	.
	1100	Swipe - Non Mess Hall South End - East side		541	10'	51	—	.13
	1100	Swipe - Non Mess Hall South End - west side		1300	10'	80	—	.10
	1100	Swipe - Non Mess Hall North End - west side		85	10'	51	—	.13
	1100	Swipe Non Mess Hall - (East North side Mess Hall End.		1,900	10'	80	—	.10
	1300	Salt H_2O	Camp Blandy	3	10'	51	2,310	.13
	1530	Urine - Schall	50cc imported	2	10'	53	308	.13
		urine - Tyler	50cc imported	4.6	10'	53	3,140	.13
		urine - Harvey	50cc imported	4	10'	80	800	.10
	1600	Salt H_2O	Camp Blandy	0	10'	53	0	.1
5-22-58	1345	Salt H_2O	Camp Blandy	10	10'	50	7,700	.13
5-23-58	1030	Swipes: Mess Hall - (table)	Peter Oboe (1600 5/22)	2,200	10'	49		.13
		Mess Hall	Peter Oboe (1600 5/22)	442 ~~50~~	10'	64	—	.11
		" "	" (1600 5/22)	8,000	10'	86	—	.10
		" "	" (1600 5/22)	980	10'	64	—	.11
	1030	Salt H_2O -	Camp Blandy (1600 5/22)	1	10'	49	770	.13
		Drinking Water -	Mess Hall Peter Oboe (5/22)	0	10'	64	0	.11
		Fresh H_2O	USS Boxer (1515 5/22)	0	10'	86	0	.10
		Salt H_2O	USS Boxer (1515 5/22)	0	10'	49	0	.13
	1120	Salt H_2O	Camp Blandy (0930 5/23)	2	10'	42	1,500	.13
	1130	Fresh H_2O	USS Boxer (0750 5/23)	7	10'	42	5,400	.13
		Salt H_2O	USS Boxer (0750 5/23)	0	10'	62	0	.10
5/24/58	0825	Salt H_2O -	Camp Blandy (12.00 5/23)	2	10'	43	1,600	.13
	0825	Salt H_2O	Camp Blandy (1600 5/23)	5	10'	57	4,500	.11
	0840	Salt H_2O	Camp Blandy (0800 5/24)	0	10'	56	0	.10
5/25/58	0900	Salt H_2O	(Camp Blandy 1200 5/24)	0	10'	42	0	.13
		Salt H_2O	(Camp Blandy 1600 5/24)	0	10'	56	0	.10
	1500	Salt H_2O	Camp Blandy 0800	2	10'	42	1,540	.13
		Salt H_2O	Camp Bland 1200	0	10'	55	—	—
5-26-58	0800	Salt H_2O	Camp Blandy 0800	1	10'	38	770	.13
	1000	Salt Water	100 me [illegible] 0900 [illegible] Beach	3,000	10'	38	2,307,600	.13
	1300	Salt Water	0930	19	10'	54	9,000	.10
	1300	Salt H_2O	Camp Blandy (1600 5/26)	0	10'	41	0	.13
	1300	Salt H_2O	(Camp Blandy 1200 5/26)	0	10'	53	0	.10
	1600	Salt H_2O	(Camp Blandy 1600 5/26)	0	10'	48	0	.10
5-27-58	1315	Salt H_2O	(Camp Blandy 0800 5/27)	0	10'	50	0	.10
	1315	Salt H_2O	Camp Blandy 1200 5/27	0	10'	[illegible]	[illegible]	[illegible]
5-28-58	0900	Salt H_2O	Camp Blandy 0800	3	10'	36	2,310	.13

DATE	TIME	SAMPLE	SOURCE	C/m	C/T	B/C	D/m
5-28-58	1000	SALT WATER	PETER OBOE 0934	45	10'	36	34,600
	1000	SWIPE	WINDOW LEDGE PETER OBOE	180	10'	51	
	1000	SWIPE	SCULLERY PETER OBOE	56	10'	43	
	1000	SWIPE	WINDOW LEDGE PETER OBOE	265	10'	51	
	1000	SWIPE	SERVING LINE PETER OBOE	279	10'	36	
5-29-58	0800	Salt H_2O	Camp Blandy	0	10'	39	0
5-30-58	1100	Salt H_2O	Camp Blandy	8	10'	37	6,2
#5-31-58 [illegible] 6-1-58	0900	Salt H_2O	Camp Blandy (0800 spec.)	10	10'	40	77
6-1-58	1300	Salt H_2O	Camp Blandy (1200 spec.)	15	10'	41	11,5
6-1-58	1650	Salt H_2O	Camp Blandy (1600 spec.)	25	10'	42	19,3
6-2-58	0930	SALT H_2O	CAMP BLANDY (0800)	18	10'	41	13,860
6-3-58	0945	Salt H_2O	Camp Blandy (1200 6/2/58)	29	10'	40	26,4
	0945	Salt H_2O	Camp Blandy (1600 6/2/58)	25	10'	53	25,0
	0945	Salt H_2O	Camp Blandy (0800 6/3/57)	34	10'	55	30,0
	0945	SALT WATER 0900 6-1-58	USS BOXER EVAP. CIR SYS	0	10'	51	—
	0945	FRESH WATER 0900 6-1-58	USS BOXER EVAP. FRESH H_2O	0	10'	53	—
	0945	SALT WATER 0800 6-2-58	USS BOXER EVAP. CIR SYS	3	10'	55	2,70
	0945	FRESH WATER 0800 6-2-58	USS BOXER EVAP. FRESH H_2O	3	10'	55	2,7
	0945	FRESH WATER 0800 6-3-58	USS BOXER EVAP. FRESH H_2O	0	10'	53	—
	0945	SALT WATER 0800 6-3-58	USS BOXER EVAP. CIR SYS	20	10'	53	20,000
	1515	SALT WATER	CAMP BLANDY 1200 6-3-58	25	10'	53	25,000
6-4-58	0900	SALT WATER	CAMP BLANDY 0800	28	10'	50	28,0
	0900	SALT WATER	CAMP BLANDY	50	10'	51	50,0
	0910	SWIPE	P-O MESS 0835 SERVING LINE	34	10'	51	—
	0910	SWIPE	P-O MESS 0836 TABLE WEST SIDE	45	10'	53	—
	0910	SWIPE	P-O MESS 0837 TABLE EAST SIDE	400	10'	50	—
	0910	SWIPE	P-O MESS 0838 SCULLERY	22	10'	53	—
	0930	Swipe -	Non Mess Hall center - westside Screen	400	10'	58	—
		Swipe -	Non Mess Hall NW Corner Screen	1,100	10'	51	—
		"	Non Mess Hall NE Corner Screen	7	10'	50	—
		"	Non Mess Hall Screen - Main Entrance	10	10'	53	
	1315	Salt H_2O -	Camp Blandy (1200 spec.)	578	10'	53	53,
6-5-58	0930	SALT WATER	CAMP BLANDY 0800	29	10'	56	26,300
6-6-58	1400	Salt H_2O	Camp Blandy	17	10'	48	15,0
6-7-58	0810	Salt H_2O	Camp Blandy	18	10'	52	18,0
6-8-58	0800	Salt H_2O	Camp Blandy	17	10'	43	17,0
6-9-58	0800	Salt H_2O	Camp Blandy	11	10'	42	11,0
6-10-58	0800	Salt H_2O	Camp Blandy	20	10'	37	290

	DATE	TIME	SAMPLE(S)	SOURCE	C/m	C/T	B/c	D/m/c	
*	6-11-58	0830	Salt H_2O -	Camp Blandy	27	10'	36	27,000	.10
	6-11-58	0930	Swipe- Window screen -	South side Peterobec MH	300	10'	37	—	.10
		0930	Swipe- Window Screen	East side (Peter-obec) Mess Hall	5,200	10'	44	—	.11
		0930	Swipe- Window Screen	West Side Peter-Obec MH	86	10'	36	—	.10
		0930	Swipe- Window Screen -	Northeast Side Peterobec MH	3,600	10'	40	—	.10
		1035	Fresh water System	USS Baker ons (spec of 6-10-58)	0	10'	48	0	.10
		1035	Salt water System	USS Baker ons (6-10-58 spec)	200	10'	43	82,000	.11
		1035	Fresh water System	USS Baker ons (6-11-58 Spec)	0	10'	49	0	.10
		1035	Salt water System	USS Baker ons (6-11-58 spec)	188	10'	32	144,600	.13
		1315	Salt water	Camp Blandy	27	10'	28	21,000	.13
		1600	Salt H_2O	Camp Blandy	20	10'	33	15,400	.13
	6-12-58	0820	Salt H_2O - Swipe	Camp Blandy Peterobec	17	10'	36	13,000	.10
	6-12-58	0900	Serving tray -	Mess Hall	5	10'	37	—	.10
	Specimens taken @ 1615 6-11-58	eating	Swipe table -	Peterobec Mess Hall	51	10'	39	—	.11
			Swipe- Serving Line -	Peterobec Mess Hall	15	10'	36	—	.10
			Swipe- Kitchen table	Peterobec Mess Hall (1200)	2	10'	38	—	.11
		1315	Salt H_2O -	Camp Blandy	14	10'	37	13,700	.11
		1610	Salt H_2O -	Camp Blandy	15	10'	41	13,600	.11
	6-13-58	[illegible]	Salt H_2O	Camp Blandy	10	10'	38	9,000	.11
	6-13-58	1380	Salt H_2O	Camp Blandy	10	10'	38	10,000	.10
	6-13-58	1630	Salt H_2O	Camp Blandy	10	10'	38	10,000	.10
	6-14-58	0815	Salt H_2O	Camp Blandy	12	10'	38	13,000	.10
	6-14-58	1230	Salt H_2O	Camp Blandy	22	10'	36	23,000	.10
*	6-15-58	0820	Salt H_2O	Camp Blandy	26	10'	33	26,000	.10
		1320	Salt H_2O	Camp Blandy	25	10'	37	25,000	.10
		1615	Salt H_2O	Camp Blandy	26	10'	34	24,000	.10
	6-16-58	0850	Salt H_2O	Camp Blandy	27	10'	35	24,500	.11
		1210	Salt H_2O -	Camp Blandy	31	10'	39	28,000	.11
	6-17-58	0835	Salt H_2O - Serving Line	Camp Blandy	28	10'	33	25,000	.10
		1030	Swipe- Non Mess Hall		7	10'	37	—	.10
			swipe table-19 Non						
			Eastside- Mess Hall		4	10'	25	—	.13
			swipe- Kitchen table Non Mess Hall		2	10'	33	—	.10
			swipe - Dish washing Room Non Mess Hall		0	10'	37	—	.11
		1230	Camp Blandy - Salt H_2O		15	10'	33	[illegible]	[illegible]
		1600	Salt H_2O -	Camp Blandy	13	10'	27	13,000	.10
	6-18-58	0900	Salt H_2O -	Camp Blandy	20	10'	33	15,000	.11

Date	Time	Sample	Source	c/m	c/T	B/c	D/m/l
6-19-58	0820	Swipe – window ledge	South side Peter oboe MH	65	10'	29	—
Specimen taken	0820	Swipe window	East side Peter oboe MH	900	10'	26	—
1715, 6-18-58	0820	Swipe window	North side Peter oboe MH	1,076	10'	39	—
	0820	Swipe dust window ledge –	North west P-O- MH.	3240	10'	34	—
	0815	Salt H_2O	– Camp Blandy	35,000	10'	29	35,000
6-20-58	0800	Salt H_2O –	Camp Blandy	34	10'	34	34,000
6-21-58	0800	Salt H_2O	Camp Blandy	52	10'	31	52,000
6-22-58	0915	Salt H_2O	Camp Blandy	63	10'	28	63,000
6-23-58	0815	Salt H_2O	Camp Blandy	53	10'	31	53,000
6-23-58	0940	Rain Water	– Outside trailer	13	10'	34	13,000
6-24-58	0815	Salt H_2O –	Camp Blandy	58	10'	27	53,000
	0815	Swipe – South-West side	Nan Mess Hall	9	10'	28	—
	0815	Swipe North West side –	Nan Mess Hall	0	10'	40	—
	0815	Swipe North East side	Nan Mess Hall	20	10'	32	—
	0815	Swipe South east side	Nan Mess Hall	5	10'	27	—
Alpha	0815	Swipe South – West side	Nan Mess H.	9	10'	49	—
counts	0815	Swipe North West side	Nan Mess Hall	3	10'	49	—
	0815	Swipe North East side	Nan Mess Hall	0	10'	49	—
	0815	Swipe Southeast side	Nan Mess Hall	6	10'	49	—
6-25-58	0730	Rain Water	Outside Trlr.	11	10'	29	10,000
	0800	Salt H_2O	Camp Blandy	37	10'	29	34,000
6-26-58	0740	Swipe – table – North side	Peter oboe M.H.	56	10'	26	—
	0740	Swipe – table – South side	Peter oboe M.H.	25	10'	31	—
	0740	Swipe screen west side	Peter oboe M.H.	42	10'	33	—
	0740	Swipe Screen – east side	Peter oboe M.H.	241	10'	27	—
Alpha	0740	Swipe table – North side	Peter oboe M.H.	0	10'	20	
counts	0740	Swipe – table South side –	Peter oboe M.N.	3	10'	20	
	0740	Swipe – Screen – west side	Peter oboe M.N.	2	10'	20	
	0740	Swipe – Screen east side	Peter oboe M.H.	4	10'	20	
Soil	1030	103.5 grams soil from	Uncle	d/m for 10cc 14,800	10'	26	d/m for 1 4,800
Samples		120 grams soil from	2410.002	20,700	10'	31	4,880
		135 grams soil from	Charlie	~~954~~ 937	10'	27	85,000

100 grams of above soil was dissolve in 100 cc of water. 10 cc was evaporated and Counted.

Alpha counts were 1 d/m Uncle sample, 2 d/m f... 0 d/m for Charlie sample.

Date	Rec'd time	Sample	Source	Gross c/m	B/G	Net c/m	d/m/L	Counter Efficiency	[illegible]
6-27-58	0815	Salt H_2O	Camp Blandy	74	29	45	45,000	.10	10'
* Redwood 0530									
6-28-58	0825	Salt H_2O	Camp Blandy	48	26	22	23,000	.10	10'
6-28-58	1200	Salt H_2O -	Camp Blandy	50	26	24	24,000	.10	10'
6-28-58	1515	Rain H_2O	caught outside trailer	44	29	15	15,000	.10	10'
6-29-58	0800	Salt H_2O	Camp Blandy	66	32	34	34,000	.10	10'
	0800	Rain H_2O	collected overnight; 1000cc	~~[illegible]~~ 1530	30	1,500	~~[illegible]~~ 1,364,000	.11	10'
* Hickory 1200	1100	Rain H_2O	Morning collection	143	35	108	98,100	.11	10'
	1245	Salt H_2O	Camp Blandy	60	34	26	26,000	.10	10'
	1900	SALT WATER	CAMP BLANDY 1600	68	33	35	35,000	.10	10'
	1900	RAIN WATER	AFTERNOON	119	32	87	[illegible]	.11	10'
6-30-58	0840	Swipe Window screen	east side Nav M.H.	144	32	112	—	.10	10'
	0840	Swipe Window screen	~~[illegible]~~ North side Nav M.N.	210	22	188	—	.13	10'
	0840	Swipe- Window screen	South side Nav M.N.	244	38	206	—	.11	10'
	0840	Swipe- Window screen	West side Nav M.N.	82	32	50	—	.10	10'
Alpha counts	0840	Swipe Window Screen	east side Nav M.N.	19	21	0	—	~~[illegible]~~ .42	10'
Alpha counts	0840	Swipe Window screen	north side Nav M.N.	20	21	0	—	.42	10'
Alpha counts	0840	Swipe Window screen	South side Nav M.N.	21	21	0	—	.42	10'
Alpha counts	0840	Swipe Window Screen	West side Nav M.N.	20	21	0	—	.42	10'
	0910	Salt H_2O	Camp Blandy	63	32	31	31,000	.10	10'
Beta	0945	tape	Fallout trays No. 1	357	32	335	—	.10	10'
Beta	↓	Filter paper	Fallout trays	224	32	192	—	.10	10'
Alpha		tape	Fallout tray	18	21	0	—	.42	10'
Alpha		Filter paper	"	21	21	0	—	.42	10'
Beta		tape	Fallout tray No. 2	320	32	288	—	.10	10'
Beta		Filter paper	"	288	32	266	—	.10	10'
Alpha		tape	"	20	21	0	—	.42	10'
Alpha		Filter paper	"	17	21	0	—	.42	10'
Beta		tape	Fallout tray No. 3	326	32	293	—	.10	10'
Beta		Filter paper	"	211	32	179	—	.10	10'
Alpha		tape	"	19	21	0	—	.42	10'
Alpha		Filter paper	"	13	21	0	—	.42	10'
	1215	Salt H_2O	camp Blandy	45	30	15	15,000	.10	10'
	1610	Salt H_2O	camp Blandy	63	30	33	33,000	.10	10'
7-1-58	0815	Salt H_2O	camp Blandy	54	30	24	24,000	.10	10'
7-2-58	0816	Salt H_2O	camp Blandy	58	29	29	29,000	.10	10'
7-2-58	1230	Salt H_2O	camp Blandy	55	29	26	26,000	.10	10'
- Alpha count	1230	" "	"	25	2	0	—	.14	30'
	1330	Salt H_2O	swimming area Peter Aboe	73	29	44	44,000	.10	10'
Alpha count		" "	" "	2	2	0	—	.14	20

Date	Time Rec'd	Sample	Source	Gross C/m	B/c	Net C/m	D/M L	Count EFF.
7-2-58	1330	Salt H_2O	100 mR Line Peter oboe	~~6,700~~ 6,686	36	6,650	60,590,000	.11
Alpha count	1330	" "	" "	2	2	0	—	.14
7-2-58	1430	Swipe table	Peter oboe Mess Hall	29	29	0	—	.10
	1430	Swipe Cooking Pot - trays	Peter oboe Mess Hall	36	36	0	—	.11
	1430		Peter oboe Mess Hall	30	29	1	—	.10
	1430	Silverware	Rack Peter oboe Mess Hall	51	36	15	—	.11
No alpha activity found on above swipes.								
	1615	Salt H_2O	Camp Blandy	50	29	21	21,000	.10
* [illegible] 7-3-58	0830	Rain Water	Collected overnight [illegible]	8599	19	8,580	865,000	[illegible]
	0815	Salt H_2O	Camp Blandy	76	27	49	61,000	.08
	1330	Rain Water	Collected During 1315 to 1330	117,000	27	117,000	146,250,000	.08
7-4-58 counting room	[illegible]	tape	[illegible]	[illegible]	250	[illegible]	—	.13
End of trailer	[illegible]	Filter Paper	"	[illegible]	327	1600	—	.8
put attached on Engine Room end	0800	tape	"	54,125	250	53,900	—	.13
	0800	Filter Paper	"	66,257	327	65,800	—	.08
Size of above tape and Filter paper is								
	0900	Swipe - Right Front Peter-oboe	A.H. (taken 1416 hrs)	570	413	167	—	.08
	0900	Swipe Left Front	Peter-oboe A.H. 1416, 7/3/58	983	250	733	—	.13
	0900	Swipe Right Rear	"	3,644	336	3,208	—	.09
	0900	Swipe Left Rear	"	481	327	154	—	.08
	0915	Salt H_2O	Camp Blandy	~~430~~ 324		106	132,500	.08
put out @1000 7/4	1715	3.3cm tape	From Fallout tray on "DE" trailer	1,846	300	1,546	—	.08
	1715	Rain H_2O	only 5cc collected	59,000	300	59,000	147,000,000	.08
7-5-58	[illegible]	tape	Fallout tray	680	175	[illegible]		[illegible]
	[illegible]	Filter paper	"	[illegible]	137	[illegible]		[illegible]
	[illegible]	Rain H_2O	collected overnight	[illegible]	187	1,113	[illegible]	[illegible]
	0815	Salt Water	Camp Blandy	249	187	62	[illegible]	[illegible]
	1220	Salt H_2O	Camp Blandy	210	156	[illegible]	[illegible]	[illegible]
7-6-58	0815	Rain H_2O	Collected overnight	2,085	~~122~~ 122	1,913	1,900,000	10%
	0820	Salt H_2O	Camp Blandy	179	110	69	86,000	.08
	1640	tape	Fallout tray	465	135	330	—	.08
7-7-58	0800	Salt H_2O	Camp Blondy	162	122	66	[illegible]	.10
7-8-58	0740	Filter paper ~~tape~~	Fallout tray put out 7/4	600	78	522	—	.09
	1000	Salt H_2O	Camp Blondy	158	78	80	90,000	.09
	1040	Filter paper	Fallout tray	394	78	316	—	.09
	1200	Rain H_2O	Rain of 1100-1120	680	80	600	750,000	.08
	1200	Salt H_2O	Camp Blandy	133	90	43	47,000	.09
	1430	Rain H_2O	PM Rain [illegible]	546	90	456	507,000	.09

Date	Time Read	Sample	Source	Gross c/m	B/C	Net c/m	D/M	D/M/L	ct	C/E
7-8-58	1430	Swipe plate	Non Ness Hall	95	95	0	0	—	10'	.08
	1430	Swipe Serving Line	" " "	117	90	17	158	—	10'	.09
	1430	Swipe coffee table near urn	" " "	92	80	12	160	—	10'	.08
	1430	Swipe North Eating table side	" " "	96	96	0	0	—	10'	.10
	1430	Kitchen table	" " "	90	90	0	0	—	10'	.09
7-9-58	0810	Salt H_2O	Camp Blandy	125	82	43	430	43,000	10'	.10
	1000	tape	North End of trailer put out 7/4	460	82	378	3,780	—	10'	.10
	1015	2cc of Rain Water		957	82	875	8,750	4,375,000	10'	.10
	1030	4cc of Rain Water		250	82	168	1,680	420,000	10'	.10
7-10-58	0745	Rain Water	collected overnight Peter Aboe	4,018	69	3,949	43,877	4,390,000	10'	.09
	0830	Swipe - table	Ness Hall	79	72	7	88	—	10'	.08
	0830	Swipe tray in rack	"	78	69	9	100	—	10'	.09
	0830	Swipe — top of Dishwasher	"	292	69	223	2,477	—	10'	.09
	0830	Serving Line	"	284	72	212	2,645	—	10'	.08
	0830	Salt Water	Camp Blandy outside	238	69	169	1,877	188,000	10'	.09
	1100	1 gram of Soil	trailer	769	69	700	7,777 (1 gram)	per 100 gram 777,700	10'	.09
	1230	Salt Water	Camp Blandy	124	78	46	510	51,000	10'	.09
	1645	1cc Rain Water	Afternoon Rainfall	80	70	10	110	110,000	10'	.09
7-11-58	0745	5cc Rain Water	overnight Rainfall	~~120~~	62	58	580	116,000	10'	.10
	0810	Salt Water	Camp Blandy	90	62	28	280	28,000	10'	.10
	1000	10cc Rain Water	Morning Rainfall	166	60	106	1060	106,000	10'	.10
* paper [illegible] 1330 7/12										
7/13	0810	Salt water	Camp Blandy	184	57	36	360	36,000	10'	.10
7/13	0845	Filter paper	Fallout tray	72	57	15	150	—	10'	.10
	1420	RAIN WATER	HEERNS	92	61	31	310	31,000	10'	.10
7/14	0810	tape	Fallout tray	109	53	56	560	—	10'	.10
	0810	Salt Water	Camp Blandy	107	53	54	540	54,000	10'	.10
	1215	Filter paper	Fallout tray	108	53	55	550	—	10'	.10
7/15	0815	8cc Rain H_2O	overnight Rainfall	88	55	33	330	41,200	10'	.10
7/15	0900	Salt Water	Camp Blandy	81	55	26	260	26,000	10'	.10
	1350	Rain Water		79	53	26	260	26,000	10'	.10
7/16	[illegible]	Rain Water	over-night Rain	60	54	6	60	6,000	10'	.10
7/16	1030	Salt Water	Camp Blandy	86	54	32	320	32,000	10'	.10
7/17	0815	Salt Water	Camp Blandy	90	51	39	390	39,000	10'	.10
7/18	0800	Rain Water	overnight Rainfall	800	53	747	6800	680,000	10'	.11
7/21	0800	Rain Water	two day Rainfall	69	43	26	260	26,000	10'	.10
	1300	Rain Water	AM Rainfall	63	43	20	200	20,000	10'	.10

Date	Time Rec'd	Sample	Source	Gross c/m	B/G	Net c/m	U/Milk	CT	CE
7-25	0800	SALT H_2O	CAMP BLANDY	56	46	10	10,000 ~~K000~~	10'	10%
	1200	SALT H_2O	CAMP BLANDY	77	43	34	34 000	10'	.10
	1600	SALT H_2O	CAMP BLANDY	72	43	29	29 000	10'	.10

Counter Efficiency

Counter	Source	4m from counter - Background	% Eff
	22,900 d/m		
2	22,900 d/m	2,800	
3	22,900 d/m	2,658	
4	22,900 d/m	2,209	
5	22,900 d/m	2,691	
Alpha	13,977 d/m	4,573	
Counts taken 4-30-58			
1	5-20- 22,900	2,300	
2	22,800 d/m	2,889	
3	22,900 d/m	2,500	
4	22,800	2,242	
5	22,800 d/m	2,300	
Alpha	13,977 d/m	4,260	
1	22,800 d/m	2,150	
2	22,800 d/m	2,100	
3	22,900 d/m	2,560	
4	22,900 d/m	2,320	
5	22,800 d/m	2,450	
Alpha	13,563	5,150	
checked 6-11-58			
Alpha 6-25-58	13,563	5,665	
Alpha 6-30-58	13,563	1,037	
	1,300	85	
	1,872	94	
	13,977	747	
Alpha 7-2-58	13,977	1,941	
7-3-58			
1	22,800	2,200	
2	22,900	3,760	
3	22,800	2,500	
4	22,900	2,300	
5	22,900	3,280	
Alpha	13,977	1,451	
1			
3			
4	22,800	2,320	
	22,800		

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		Source	c/m	Efficiency
7-11-58				
	Alpha	13,977	2,135	15%
	1	22,900	2,254	10%
	3	22,800	2,500	11%
	4	22,800	2,249	10%
	5	22,900	2,374	10%
1/15/68	1	22,800	2,300	10%
	3	22,800	2,600	11%
	4	22,800	2,280	10%
	5	22,800	2,500	11%

NOT

CPM	wk 10	11	12	13	14	15	16
1	1,000	909	830	770	715	667	625
2	2,000	1,818	1,660	1,540	1,430	1,334	1,250
3	3,000	2,727	2,490	2,310	2,135	2,001	1,875
4	4,000	3,636	3,320	3,080	2,860	2,668	2,500
5	5,000	4,545	4,150	3,850	3,775	3,335	3,125
6	6,000	5,454	4,980	4,620	4,270	4,002	3,750
7	7,000	6,363	5,810	5,390	5,005	4,669	4,375
8	8,000	7,272	6,640	6,160	5,720	5,336	5,000
9	9,000	8,181	7,470	6,930	6,435	6,003	5,625
10	10,000	9,090	8,300	7,700	7,150	6,670	6,250
11	11,000	9,999	9,130	8,470	7,865	7,337	6,875
12	12,000	10,908	9,960	9,240	8,540	8,004	7,500
13	13,000	11,817	10,990	10,010	9,285	8,671	8,125
14	14,000	12,726	11,620	10,780	10,010	9,338	8,750
15	15,000	13,635	12,450	11,550	10,925	10,005	9,375
16	16,000	14,544	13,280	12,320	11,540	10,672	10,000
17	17,000	15,453	14,110	13,160	12,155	11,339	10,625
18	18,000	16,362	14,960	13,860	12,870	12,006	11,350
19	19,000	17,271	~~14,630~~ 15,770	~~13,585~~ 14,630	~~13~~ 13,685	12,673	11,975
20	20,000	18,180	16,600	15,400	14,300	13,340	12,500
21	21,000	19,089	17,430	16,170	15,015	14,007	13,125
22	22,000	19,998	18,260	16,940	15,730	14,674	13,750
23	23,000	20,907	19,290	17,780	16,445	15,341	14,375

preparation of AgCl.

1. In a 50 ml. beaker place approx. 25 ml. deionized water
2. Add 2% aerosol solution - 2 drops
3. " 20 drops 5% HCl solution
4. " 15 drops 5% $AgNO_3$ solution
5. Heat to almost boiling
6. Filter through assembly.

apparatus assembly

1. Place porcelain filter base in rubber stopper, insert in filter flask.
2. Attach vac. connection.
3. Place filter paper on filter base.
4. Dampen with deionized water from wash bottle.
5. Center chimney over filter paper and secure with rubber bands. Use care in installing since chimney can fly over and break.

Sample for analysis should be clear, if turbid, filter before analysis.

6. Filter prepared AgCl thru assembly, wash walls with water.
7. Filter liquid sample before filter drys.

Sample counts / sample

Sample #1 21,138 c/m for five minutes
100
21,038

Sample #2 18,100 average c/m counts for five minutes
190 background
18,000

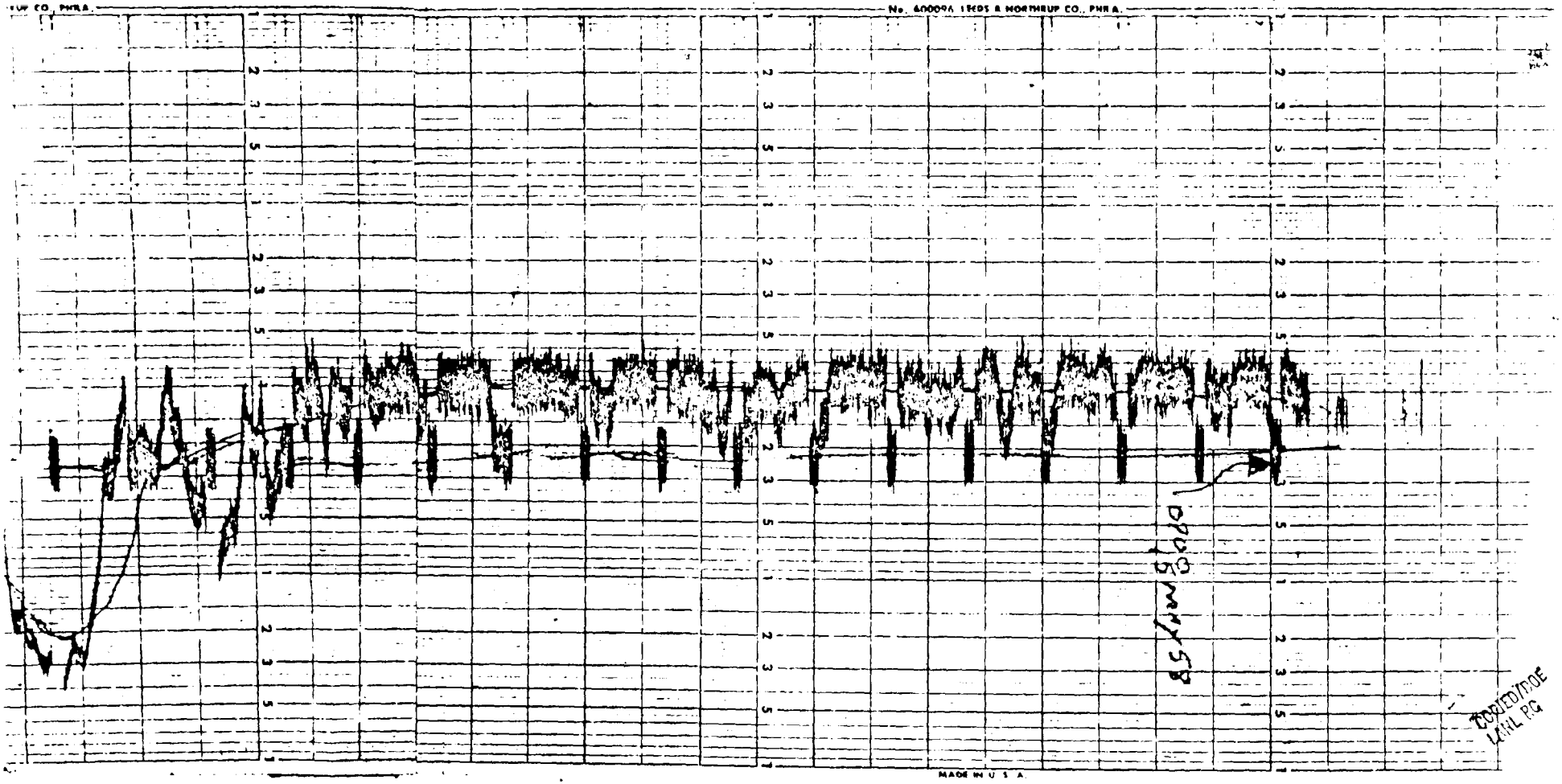
2,000 C/m Biscuit
875 C/m Sweet Rolls
1,595 C/m Potatoes
1,075 C/m Rye Bread

Spec. No.	Soil samples	Weight
(1)	Uncle	103.6 grams
(2)	2410.4	120 grams
(3)	Charlie	135 grams

100 grams of above soil sample was placed in beaker of 100cc H_2O

10cc of solution was evaporated in a planchet.

Sample counts		Count for 1'	Background	Net count	For 100 cc
(1)	Gross Beta for 10' 148,440	14,840	26	14,800	
	Alpha for 10' 210	21	20	1	
Counter efficiency 10%	148,000 D/m per 10cc				
	1,480,000 D/m per 100cc				
(2)	Gross Beta for 10' 20,758	20,758	31	20,700	
	Alpha for 10' 220	22	20	2	
Counter efficiency 10%	185,000 D/m for 10cc				
	1,850,000 D/m for 100cc				
(3)	Gross Beta for 10' 9,640	964	27	937	
	Alpha for 10'	0	20	0	
Counter efficiency 10%	8,500 D/m per 10cc				
	85,000 D/m per 100cc				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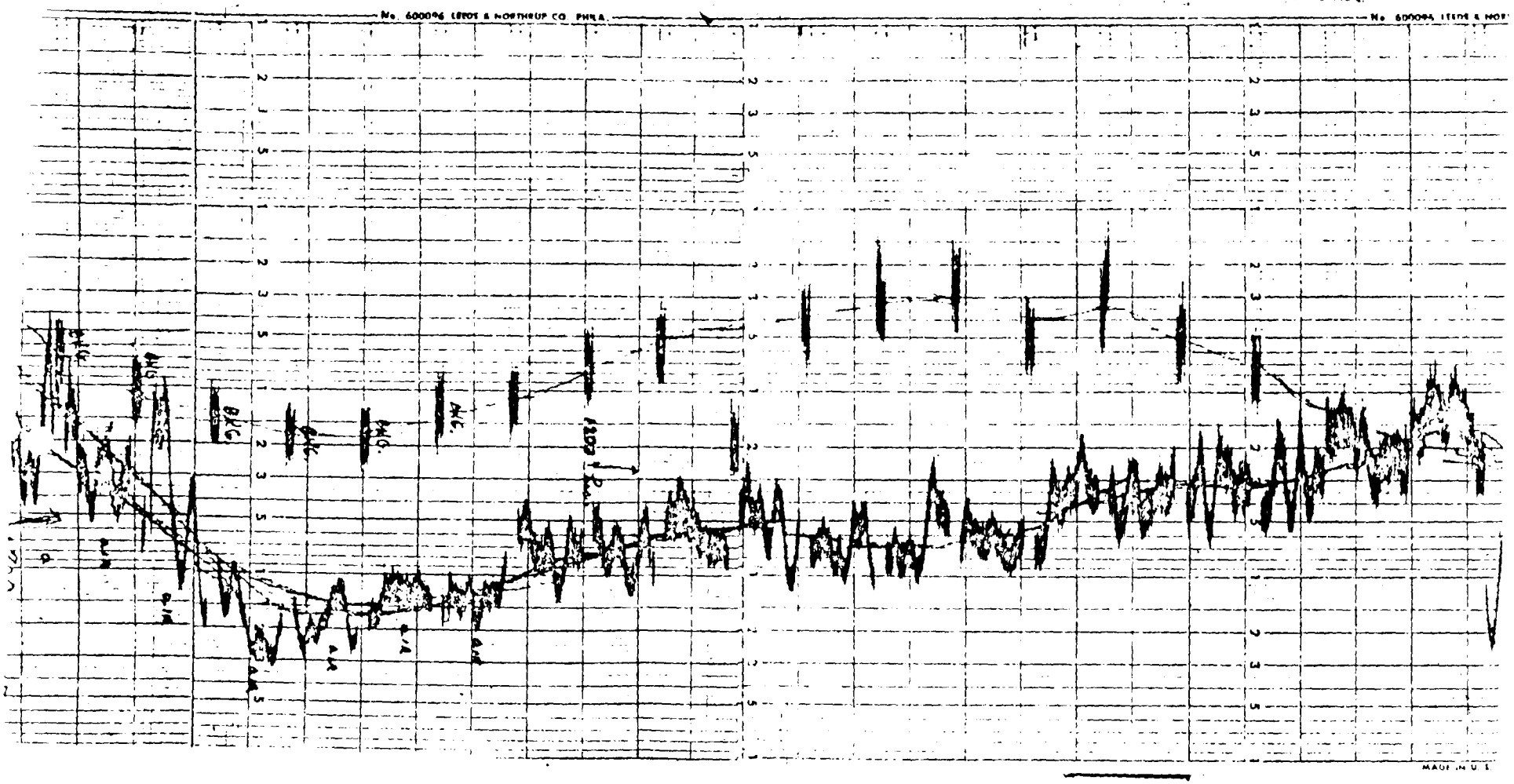
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DINNING ROOM SWIPE COUNT REPORT

5/15/58

1500 30,000 c/m = 3 mr
1700 29,000 c/m = 2 mr

1500 55,000 c/m =
1700 102,608 c/m = 1

1500 19,000 c/m = 1 mr
1700 11,000 c/m = 1 mr

1700
1,000 c/m

1700 9,500 c/m

1500 3,000 c/m

15000 2,000 c/m

Broccoli - 58 c/m
Butter — 64 c/m

1. Efficiency of Geiger-Mueller tube is about 15%, but some may vary from 10 to 20%.

2. Check efficiency of G-M tube at least once each week with Strontium^{90} source.

3. Alpha counting setup is very poor. Samples, such as swipes with become stuck in drawer and the phosphor will be wiped off tube. Better technique is to use Thyac probe attached to Berkeley Scaler. Efficiency will be same as Radiac instrument. Use a good plutonium source for calculated efficiency.

4. Ideal counting time for field work is ten minutes. It is better than several short counts.

5. ten or fifteen cc is good amount to evaporate. Large flat planchets are best to use.

6. Decide who is to collect the samples.

7. It might prove educational and interesting to visit other task groups to observe procedures and counting techniques.

8. Use first shelf of lead pig for best counting results.

9. Would be desirable to have mimeograph sheets for counting log.

10. When background goes up outside of trailer, background in lead pigs will raise.

11. Some of the different types of specimens handled at EPG were as follows: sea water, food samples, swipes from mess halls, nose swipes for alpha, urines for tritum, fresh water samples, air filter samples for Gross Beta and alpha. Only tritum analysis was done at Eniwetok atoll.

12. Swipes of mess halls are of no value when you don't know the area covered.

13. No radioiodines were done at EPG.

14. Results of liquid specimens were reported at Bikini Atoll so many d/m per liter, and at Eniwetok Atoll so many d/m per cc.

15. Keep out unauthorized people from the trailers.

16. Extremly hot specimens should not be counted.

17. Counting rain water samples may be of value. Several high counts were had on the operation

18. Sea water will have higher counts in the morning than the afternoon, due to tide changes.

19. About one thousand samples at EPG. About [illegible] at Bikini.

[redacted]

SUBJECT: List of samples processed 13 July through 19 July 1958, BIKINI ATOLL.

SAMPLE	WHERE COLLECTED	DATE	TIME	COUNT
Salt Water	Camp Blandy Swimming Area	13-7	0810	57,000 d/m/liter
Filter Paper	Fallout tray, No. 1, Nan	"	0845	15 c/p/m
Rain Water	Radchem. Trailer, Compound area, Nan	"	1930	31,000 d/m/liter
Tape	Fallout tray, No. 1, Nan	14-7	0810	56 c/p/m
Salt Water	Camp Blandy Swimming Area	"	0810	54,000 d/m/liter
Filter Paper	Fallout tray, No. 2, Nan	"	1215	55 c/p/m
Rain Water	Overnight Rainfall, Nan	15-7	0815	41,000 d/m/liter
Salt Water	Camp Blandy Swimming Area	"	0900	26,000 "
Rain Water	Radchem. Trailer, Compound Area, Nan	"	1350	26,000 "
Rain Water	Overnight Rainfall, Nan	16-7	0800	6,000 d/m/liter
Salt Water	Camp Blandy Swimming Area	"	0815	32,000 "
Salt Water	Camp Blandy Swimming Area	17-7	0815	39,000 d/m/liter
Rain Water	Radchem. Trailer, Compound area, Nan	18-7	0800	680,000 d/m/liter

[redacted]

[redacted]

SUBJECT: List of samples processed 5 July through 12 July 1958, BIKINI ATOLL.

SAMPLE	WHERE COLLECTED	DATE	TIME	COUNT	
Tape	Fallout tray, No. 1, Nan	5-7	0730	680	c/p/m
Filter Paper	Fallout tray, No. 2, Nan	"	0730	1,063	"
Rain Water	Radchem.Trailer,Compound Area, Nan	"	0745	1,400,000	d/m/liter
Salt Water	Camp Blandy Swimming Area	"	0810	77,500	"
Salt Water	Camp Blandy Swimming Area	"	1220	54,000	"
Rain Water	Radchem.Trailer, Compound Area, Nan	6-7	0815	1,900,000	d/m/liter
Salt Water	Camp Blandy Swimming Area	"	0820	86,000	"
Tape	Fallout tray, No. 1, Nan	"	1640	330	c/p/m
Salt Water	Camp Blandy Swimming Area	7-7	0800	60,000	d/m/liter
Filter Paper	Fallout tray, No. 1 Nan	8-7	0740	522	c/p/m
Filter Paper	Fallout tray, No. 2 Nan	"	1040	316	"
Salt Water	Camp Blandy Swimming Area	"	1000	90,000	d/m/liter
Salt Water	Camp Blandy Swimming Area	"	1200	47,000	"
Rain Water	A.M. Collection, Compound Area, Nan	"	1200	750,000	"
Rain Water	P.M. Collection, Compound Area, Nan	"	1430	507,000	"
Swipe	Plate, Mess Hall, Nan	"	1430	0	c/p/m
Swipe	Serving Counter, Mess Hall, Nan	"	1430	17	"
Swipe	Table, Mess Hall, near coffee urn	"	1430	12	"
Swipe	Table, Mess Hall, eating	"	1430	0	"
Swipe	Table, Mess Hall, kitchen	"	1430	0	"
Rain Water	Radchem.Trailer, Compound Area, Nan	10-7	0745	4,390,000	d/m/liter
Swipe	Table, Mess Hall, Peter-Oboe	"	0830	7	c/p/m
Swipe	Tray, Mess Hall, Peter-Oboe	"	0830	9	"
Swipe	Dishwasher, Mess Hall, Peter-Oboe	"	0830	223	"
Swipe	Serving Counter, Mess Hall, Oboe	"	0830	212	"
Salt Water	Camp Blandy Swimming Area	"	0830	188,000	d/m/liter
Salt Water	Camp Blandy Swimming Area	"	1230	51,000	"
Soil	Radchem.Trailer, Outside, Nan	"	1100	7,800	d/m/gram
Rain Water	Radchem.Trailer, Afternoon rainfall	"	1645	110,000	d/m/liter
Rain Water	Compound Area, overnight rainfall	11-7	0745	116,000	d/m/liter
Salt Water	Compound Area	"	1000	106,000	"
Salt Water	Camp Blandy Swimming Area	"	0810	28,000	"

[redacted]

All of the above samples were tested for Gross Beta.
No Alpha activity was found on any of these samples.
Swipes were taken of an area of approximately 15 cm^2.
Size of the tape and filter paper was 3.7 cm in diameter.

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