

COMMONWEALTH DEPARTMENT OF HEALTH



Australian Radiation Laboratory

Field and analytical data relating to the 1977 Survey
of residual Radiation contamination
of the Maralinga Range
(Appendices to A.R.L. Report No. ARL/TR 005)

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Part 2

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APPENDIX II (CONT)

ID NO.	SURVEY POINT		DESCRIPTION OF IMMEDIATE ENVIRONS OF SURVEY POINT	EXTERNAL RADIATION				SOIL SAMPLE				VEGETATION SLT'S	COTTEEPS
	PLANNED CO-ORDINATES	ACTUAL CO-ORDINATES		LOCATION	FIELD REFERENCE NO.	INSTR	READING	CORRECTED DOSE-RATE μ R/H	FIELD ID	LABORATORY ID	DEPTH (CM)		
MS321		469 009 1300 561	DISTANCE AND BEARING FROM GZ. REFER FIGURE	ONE TREE 340 YDS 255°T		NE 2601/N	20uR/H	23					
MS322		469 427 1300 316	"	ONE TREE 345 YDS 165°T		NE 2601/N	20uR/H	23					
MS323		469 243 1301 002	"	ONE TREE 365 YDS 345°T		NE 2601/N	20uR/H	23					
MS324			"	ONE TREE GENERAL AREA AROUND GZ.									
MS325	CO-ORDINATES NOT SPECIFIED	462 170 1297 625	CENTRE POINT OF SOUTHERN BOUNDARY FENCE	TARANAKI POINT		SCINTREX 504024 NE 2601/N	330CPS 20uR/H	26					
MS326	"	462 180 1297 610	EASTWARDS ALONG FENCE-LINE FROM REFERENCE POINT	TARANAKI 20YDS EASTWARDS		SCINTREX 504024 NE 2601/N	350CPS 30uR/H	34					
MS327	"	462 190 1297 590	"	TARANAKI 40YDS EASTWARDS		SCINTREX 504024 NE 2601/N	320CPS 30uR/H	32					
MS328	"	462 210 1297 580	"	TARANAKI 60YDS EASTWARDS		SCINTREX 504024 NE 2601/N	400CPS 40uR/H	42					
MS329	"	462 230 1297 590	"	TARANAKI 80YDS EASTWARDS		SCINTREX 504024 NE 2601/N	370CPS 35uR/H	38					
MS330	"	462 250 1297 580	"	TARANAKI 100YDS EASTWARDS		SCINTREX 504024 NE 2601/N	350CPS 35uR/H	37					
MS331	"	462 270 1297 570	"	TARANAKI 120YDS EASTWARDS		SCINTREX 504024 NE 2601/N	300CPS 30uR/H	31					
MS332	"	462 290 1297 570	"	TARANAKI 140YDS EASTWARD		SCINTREX 504024 NE 2601/N	240CPS 25uR/H	26					
MS333	"	462 350 1297 560	"	TARANAKI 200YDS EASTWARDS	SOME VEGETATION 0-3M HIGH	SCINTREX 504024 NE 2601/N	220CPS 20uR/H	22					
MS334	"	462 400 1297 550	"	TARANAKI 250YDS EASTWARDS	"	SCINTREX 504024 NE 2601/N	170CPS 15uR/H	17					
MS335	"	462 150 1297 610	WESTWARDS ALONG FENCE-LINE FROM REFERENCE POINT	TARANAKI 20YDS WESTWARDS	HARD, BARE GROUND, NO VEGETATION.	SCINTREX 504024 NE 2601/N	400CPS 23uR/H	42					
MS336	"	462 140 1297 600	"	TARANAKI 40YDS WESTWARDS	"	SCINTREX 504024 NE 2601/N	480CPS 40uR/H	46					
MS337	"	462 120 1297 600	"	TARANAKI 60YDS WESTWARDS	"	SCINTREX 504024 NE 2601/N	520CPS 36uR/H	45					
MS338	"	462 100 1297 610	"	TARANAKI 80YDS WESTWARDS	"	SCINTREX 504024 NE 2601/N	530CPS 50uR/H	53					

BAG OF GLAZING COLLECTED. GLAZING IS THIN AND BRITTLE.

APPENDIX II (CONT)

ID NO.	SURVEY POINT			DESCRIPTION OF IMMEDIATE ENVIRONS OF SURVEY POINT	EXTERNAL RADIATION				SOIL SAMPLE				VEGETATION SAMPLE	COLLECTORS
	PLANNED CO-ORDINATES NOT SPECIFIED	ACTUAL CO-ORDINATES	LOCATION		FIELD REFERENCE NO.	MONITOR	READING	CORRECTED DOSE-RATE μ R/H	FIELD ID	LABORATORY ID	HEATCO NO.	FEATURE		
MS339		462 080 1297 620	WESTWARDS ALONG FENCE-LINE FROM REFERENCE POINT	PARAMAKI 100YDS WESTWARDS	HARD, BARE GROUND, NO VEGETATION.	SCINTREX 504024 NE 2601/N	5200CPS 30 μ R/H	41						
MS340	"	462 060 1297 620	"	PARAMAKI 120YDS WESTWARDS	"	SCINTREX 504024 NE 2601/N	6200CPS 50 μ R/H	58						
MS341	"	462 040 1297 630	"	PARAMAKI 140YDS WESTWARDS	"	SCINTREX 504024 NE 2601/N	6000CPS 50 μ R/H	57						
MS342	"	461 980 1297 650	"	PARAMAKI 200YDS WESTWARDS	SOME VEGETATION TO 0.3M HIGH.	SCINTREX 504024 NE 2601/N	4000CPS 40 μ R/H	42						
MS343	"	461 240 1297 660	"	PARAMAKI 250YDS WESTWARDS	"	SCINTREX 504024 NE 2601/N	3000CPS 20 μ R/H	25						
MS344	"	462 170 1297 610	SOUTH FROM REFERENCE POINT	PARAMAKI 20YDS SOUTHWARDS	HARD, BARE GROUND, NO VEGETATION.	SCINTREX 504024 NE 2601/N	3600CPS 30 μ R/H	34						
MS345	"	462 160 1297 590	"	PARAMAKI 40YDS SOUTHWARDS	"	SCINTREX 504024 NE 2601/N	3600CPS 27 μ R/H	33						
MS346	"	462 160 1297 570	"	PARAMAKI 60YDS SOUTHWARDS	"	SCINTREX 504024 NE 2601/N	3400CPS 23 μ R/H	29						
MS347	"	462 150 1297 550	"	PARAMAKI 80YDS SOUTHWARDS	"	SCINTREX 504024 NE 2601/N	4100CPS 24 μ R/H	33						
MS348	"	462 150 1297 530	"	PARAMAKI 100YDS SOUTHWARDS	"	SCINTREX 504024 NE 2601/N	3900CPS 35 μ R/H	38						
MS349	"	462 150 1297 510	"	PARAMAKI 120YDS SOUTHWARDS	"	SCINTREX 504024 NE 2601/N	4000CPS 30 μ R/H	36						
MS350	"	462 140 1297 490	"	PARAMAKI 140YDS SOUTHWARDS	"	SCINTREX 504024 NE 2601/N	5000CPS 30 μ R/H	40						
MS351	"	462 140 1297 470	"	PARAMAKI 160YDS SOUTHWARDS	SOME VEGETATION TO 0.3M HIGH.	SCINTREX 504024 NE 2601/N	6000CPS 50 μ R/H	57						
MS352	"	462 130 1297 450	"	PARAMAKI 180YDS SOUTHWARDS	"	SCINTREX 504024 NE 2601/N	6400CPS 40 μ R/H	53						
MS353	"	462 130 1297 430	"	PARAMAKI 200YDS SOUTHWARDS	"	SCINTREX 504024 NE 2601/N	7200CPS 60 μ R/H	68						
MS354	"	462 120 1297 410	"	PARAMAKI 220YDS SOUTHWARDS	"	SCINTREX 504024 NE 2601/N	7100CPS 50 μ R/H	62						
MS355	"	462 120 1297 390	"	PARAMAKI 240YDS SOUTHWARDS	"	SCINTREX 504024 NE 2601/N	6500CPS 50 μ R/H	59						
MS356	"	462 120 1297 370	"	PARAMAKI 260YDS SOUTHWARDS	"	SCINTREX 504024 NE 2601/N	6200CPS 35 μ R/H	49						
MS357	"	462 110 1297 350	"	PARAMAKI 280YDS SOUTHWARDS	"	SCINTREX 504024 NE 2601/N	6000CPS 40 μ R/H	53						

GZ IS MARKED AS 7 YDS EAST OF THIS SURVEY LINE AT A DISTANCE OF 72 YDS SOUTH OF REFERENCE POINT.

APPENDIX II (CONT)

SURVEY POINT				EXTERNAL RADIATION				SOIL SAMPLE				VEGETATION	COMMENTS
ID NO.	PLANNED CO-ORDINATES	ACTUAL CO-ORDINATES	LOCATION	FIELD REFERENCE NO.	DESCRIPTION OF HIGHEST ENVIRONS OF SURVEY POINT	COUNTING INSTRUMENT	READING	FIELD ID	LABORATORY ID	DEPTH	MOISTURE		
MS358	COORDINATES NOT SPECIFIED	462 110 1297 330	SOUTH FROM REFERENCE POINT	PARAMAKI 300YDS SOUTHWARDS	SOME VEGETATION TO 0.3M HIGH	SCINTIPREX 504024 NE 2601/N	5700CPS 60uR/H	ONE TREE 110YD 0°T 0-4	MS49040	BULK	0-40		
MS359	"	462 100 1297 280	"	PARAMAKI 350YDS SOUTHWARDS	"	SCINTIPREX 504024 NE 2601/N	4400CPS 35uR/H	ONE TREE 110YD 0°T 4-8	MS49041	"	40-80	FIRM SOIL	
MS360	"	462 090 1297 230	"	PARAMAKI 400YDS SOUTHWARDS	"	SCINTIPREX 504024 NE 2601/N	3400CPS 30uR/H	ONE TREE 110YD 270°T 0-4	MS49140	BULK	0-40	"	
MS361	"	462 070 1297 180	"	PARAMAKI 450YDS SOUTHWARDS	"	SCINTIPREX 504024 NE 2601/N	3000CPS 20uR/H	BLAK 90YD 0°T 0-4	MS49240	BULK	0-40	"	
MS490	469 338 1300 760	469 338 1300 760	DISTANCE AND BEARING FROM GZ. REFER FIGURE -	ONE TREE 110YDS 0°T	FIRM SOIL, VEGETATION 0.3M HIGH, REGROWTH WELL ESTABLISHED	REFER TO FIGURE -	"	BLAK 90YD 0°T 0-4	MS49241	"	40-80	"	
MS491	469 230 1300 649	469 230 1300 649	"	ONE TREE 110YDS 270°T	"	"	"	BLAK 90YD 0°T 8-12	MS49242	"	80-120	"	
MS492	464 878 1297 870	464 878 1297 870	DISTANCE AND BEARING FROM GZ. REFER FIGURE -	BLAK 90YD 0°T	"	"	"	BLAK 90YD 90°T 0-4	MS49340	BULK	0-40	"	
MS493	464 965 1297 782	464 965 1297 782	"	BLAK 90YD 0°T	"	"	"	BLAK 90YD 0°T 0-4	MS49341	"	40-80	"	
MS494	463 570 1297 825	463 570 1297 825	DISTANCE AND BEARING FROM GZ. REFER FIGURE -	BREAKAWAY 110YDS 0°T	"	"	"	BLAK 90YD 90°T 4-8	MS49342	"	80-120	"	
MS495	463 460 1297 715	463 460 1297 715	"	BREAKAWAY 110YDS 270°T	"	"	"	BREAKAWAY 110YD 0°T 0-4	MS49440	BULK	0-40	"	
								BREAKAWAY 110YD 0°T 4-8	MS49441	"	40-80	"	
								BREAKAWAY 110YD 0°T 8-12	MS49442	"	80-120	"	
								BREAKAWAY 110YD 270°T 0-4	MS49540	BULK	0-40	"	
								BREAKAWAY 110YD 270°T 4-8	MS49541	"	40-80	"	
								BREAKAWAY 110YD 270°T 8-12	MS49542	"	80-120	"	

APPENDIX III

Tabulation of radionuclide concentrations in soil samples.

SAMPLE NUMBER	CO-ORDINATES AND GRID NAME	ACTIVITY AND UNCERTAINTY AS NANOCURIES PER KILOGRAM													
		CO 60	SR 90	BA133	CS137	EU152	EU154	EU155	PU239	AM241					
MS001A0	466000 E 1290900 N CLEAN AREA	.13 .01	.11 .01	.29 .02	.40 .02										
MS001B0	466000 E 1290900 N CLEAN AREA	.11 .01	.11 .00	.29 .02	.39 .03										
MS001C0	466000 E 1290900 N CLEAN AREA	.11 .00	.11 .00	.39 .03	.21 .03										
MS001A1	466000 E 1290900 N CLEAN AREA	.24 .02	.18 .01												
MS001A2	466000 E 1290900 N CLEAN AREA	.08 .01	.08 .01												
MS001D0	466000 E 1290900 N CLEAN AREA	.14 .00	.14 .00	.14 .02	.35 .03									.11 .03	
MS002S0	467430 E 1296600 N CLEAN AREA	.12 .00	.12 .00	.35 .03	.12 .03										
MS003S0	469600 E 1287300 N CLEAN AREA	0.11 .01	0.11 .01	.39 .03	.12 .03										
MS004S0	470400 E 1281100 N CLEAN AREA	.04 .00	.04 .00	.11 .03	.11 .03										
MS005S0	468500 E 1277000 N CLEAN AREA	.09 .01	.09 .01	.25 .03	.25 .03										
MS007S0	465800 E 1302100 N BROADSCALE	1.45 .04	1.45 .04	1.08 .03	1.08 .03			.17 .03						.23 .03	
MS008S0	465700 E 1305100 N BROADSCALE	1.48 .02	1.48 .02	1.15 .04	1.15 .04			.12 .03							
MS009S0	465000 E 1307300 N BROADSCALE	.18 .01	.18 .01	.33 .04	.33 .04										
MS010S0	467700 E 1307300 N BROADSCALE	.72 .02	.72 .02												
MS011S0	471000 E 1307300 N BROADSCALE	.30 .01	.30 .01	.44 .02	.44 .02									.44 .03	
MS012S0	474200 E 1307300 N BROADSCALE	.16 .01	.16 .01	.31 .03	.31 .03									.64 .04	
MS013S0	478600 E 1307300 N BROADSCALE	.36 .01	.36 .01	1.46 .04	1.46 .04			.30 .03						.25 .03	

* MEASUREMENT MADE ON COMBINED SAMPLE

SAMPLE NUMBER	CO-ORDINATES AND GRID NAME	ACTIVITY AND UNCERTAINTY AS NANOCURIES PER KILOGRAM										
		CO 60	SR 90	8A133	CS137	EU152	EU154	EU155	PU239	AM241		
M801480	463800 E 1307300 N BROADSCALE		.73 .01		.81 .03			.18 .04				.16 .03
M801500	466900 E 1307300 N BROADSCALE		.30 .01		1.01 .04			.16 .04				.20 .04
M801600	466700 E 1304900 N BROADSCALE		.18 .01		.36 .03							.23 .03
M801700	466500 E 1302100 N BROADSCALE		.25 .01		.23 .03							
M801800	467400 E 1302100 N BROADSCALE		.21 .00		.49 .03			.31 .03				.31 .04
M801900	469300 E 1302100 N BROADSCALE		.55 .02		.65 .03			.11 .03				1.37 .04
M8020A0	471000 E 1302100 N BROADSCALE	.44 .02	6.70 .30		18.74 .13	.09 .03		6.25 .05				2.85 .06
M8020B0	471000 E 1302100 N BROADSCALE	.19 .02	2.59 .09		5.79 .08			1.94 .04				.93 .04
M8020C0	471000 E 1302100 N BROADSCALE				.07 .02							
M8020C1	471000 E 1302100 N BROADSCALE		.06 .00									
M8020C2	471000 E 1302100 N BROADSCALE		.04 .00		.07 .02							
M802100	474300 E 1302100 N BROADSCALE		.45 .01		.29 .03							
M802200	474300 E 1301400 N BROADSCALE		.25 .02		.58 .03			.07 .03				.24 .03
M802300	474300 E 1300300 N BROADSCALE		.52 .01		1.60 .04			.68 .03				
M802400	474300 E 1298600 N BROADSCALE		.16 .01		.24 .02			.26 .02				
M802500	470029 E 1302068 N INTER		.58 .02		.61 .03			.23 .03				
M802900	470067 E 1302130 N INTER	.11 .02	1.36 .04		3.43 .06			.89 .04				.66 .04

* MEASUREMENT MADE ON COMBINED SAMPLE

SAMPLE NUMBER	CO-ORDINATES AND GRID NAME	ACTIVITY AND UNCERTAINTY AS NANOCURIES PER KILOGRAM									
		CD 60	SR 90	BA133	CS137	EU152	EU154	EU155	PU239	AM241	
M803080	471189 E 1301689 N INTER	.09 .01	.86 .03		1.99 .04			.57 .03		.34 .03	
M803180	469844 E 1301672 N INTER		.62 .02		.94 .03	.11 .02		.29 .03		.22 .03	
M803280	469933 E 1301871 N INTER	.08 .02	1.23 .01		1.67 .05	.16 .02		.41 .03		.51 .03	
M803380	470629 E 1301661 N INTER		.75 .03		1.93 .05			.43 .03		.24 .03	
M803480	471630 E 1301363 N INTER		1.47 .05		2.37 .05			.70 .04		8.17 .07	
M803580	465728 E 1300379 N INTER		4.11 .11		1.62 .04	.09 .03		.47 .02		.10 .03	
M8036A0	466692 E 1299991 N INTER	.07 .02	6.18* .16		2.93 .06			.88 .04		.57 .04	
M803680	466692 E 1299991 N INTER	.19 .02	6.18* .16		5.42 .07			1.50 .04		1.17 .04	
M8036C0	466692 E 1299991 N INTER	.48 .04	6.18* .16		18.08 .22			6.11 .08		4.01 .10	
M803780	470383 E 1300699 N INTER	.07 .02	.35 .01		.60 .03			.25 .02			
M803880	470525 E 1300905 N INTER		.76 .02		.55 .03			.18 .03		.12 .03	
M803980	464024 E 1299858 N INTER		1.97 .04		2.05 .05			.52 .04		.50 .03	
M8040A0	464430 E 1299910 N INTER	.10 .01	4.72* .10		3.66 .06			1.45 .04		1.14 .04	
M804080	464430 E 1299910 N INTER	.48 .02	4.72* .10		20.69 .12	.16 .03		6.60 .07		5.66 .07	
M8040C0	464430 E 1299910 N INTER		4.72* .10		.49 .02			.13 .03		.10 .02	
M8041A0	464795 E 1299934 N INTER	.15 .02	11.37* .20		8.15 .09	.10 .03		2.58 .05		2.27 .05	
M804180	464795 E 1299934 N INTER	1.09 .06	11.37* .20		54.77 .38			15.27 .21		11.97 .20	

* MEASUREMENT MADE ON COMBINED SAMPLE

SAMPLE NUMBER	CO-ORDINATES AND GRID NAME		CO 60	SR 90	BA133	CS137	EU152	EU154	EU155	PUR39	AM241
	464795 E	1299934 N									
MS04100	INTER		.02	.20		.10	.03		.06		.06
MS04280	464700 E	1299064 N		.71		.36			.08		.15
	INTER			.02		.03			.03		.03
MS04350	465221 E	1299165 N		1.09		1.70	.11		.40		.35
	INTER			.04		.04	.02		.03		.03
MS04430	465429 E	1299505 N	.15	5.78		5.41	.21		1.63		1.20
	INTER		.04	.17		.12	.04		.08		.07
MS04580	465484 E	1299714 N		2.66		2.16			.58		.75
	INTER			.07		.05			.03		.03
MS050A0	465685 E	1299714 N	1.61	25.26*	.90	16.86	1.42		13.11		7.94
	INTER		.07	.50	.08	.41	.07		.13		.16
MS04680	465685 E	1299714 N	.53	25.26*	.35	17.02	.31		4.76		2.62
	INTER		.02	.50	.03	.12	.03		.07		.06
MS046C0	465685 E	1299714 N	1.35	25.26*	.70	38.61	1.21		9.80		6.04
	INTER		.06	.50	.06	.31	.27		.17		.14
MS04790	465885 E	1299714 N	.20	3.57		5.53	.17		1.98		1.27
	INTER		.02	.09		.08	.03		.03		.04
MS04800	466010 E	1299517 N	.12	3.22		6.14	.11		1.49		1.22
	INTER		.02	.09		.08	.03		.04		.04
MS04980	467760 E	1299760 N	.11	1.97		2.64			.60		.42
	INTER		.02	.06		.05			.03		.03
MS05080	468543 E	1299704 N		.54		2.64			.60		.28
	INTER			.02		.06			.03		.03
MS05190	469440 E	1299245 N		.22		.46			.23		.11
	INTER			.01		.03			.02		.03
MS05280	463580 E	1298099 N	1.15	3.12		9.19	5.47		2.56		1.42
	INTER		.05	.09		.15	.07		.10		.08
MS05390	463620 E	1298435 N	1.09	3.20		9.48	5.60		2.56		2.08
	INTER		.05	.07		.16	.08		.10		.09
MS05480	463640 E	1298760 N		.41		1.48			.38		.20
	INTER			.01		.04			.04		.03
MS05580	463967 E	1298086 N	.28	.74		2.27	1.07		.93		.53
	INTER		.03	.03		.09	.05		.04		.06

* MEASUREMENT MADE ON COMBINED SAMPLE

SAMPLE NUMBER	CO-ORDINATES AND GRID NAME	ACTIVITY AND UNCERTAINTY AS NANOCURIES PER KILOGRAM									
		CO 60	SR 90	BA133	CS137	EU152	EU154	EU155	PU239	AM241	
MS056A0	464060 E 1298430 N INTER	1.78 .06	5.64* .16		21.87 .22	7.22 .08	.80 .13	6.30 .12		3.62 .11	
MS056B0	464060 E 1298430 N INTER	1.41 .06	5.64* .16		17.95 .22	5.75 .08		5.32 .11		3.06 .10	
MS056C0	464060 E 1298430 N INTER	1.33 .06	5.64* .16		27.52 .30	3.61 .07		8.84 .11		5.14 .14	
MS057B0	464177 E 1298761 N INTER	.22 .02	1.73 .05		8.92 .09	.10 .03		3.73 .06		3.44 .06	
MS058A0	464369 E 1298084 N INTER	1.03 .05	3.50* .07		11.81 .18	3.66 .06		3.38 .07		1.73 .09	
MS058B0	464369 E 1298084 N INTER	.68 .04	3.50* .07		8.70 .15	2.90 .06		2.47 .09		1.66 .08	
MS058C0	464369 E 1298084 N INTER	.74 .04	3.50* .07		10.24 .16	2.45 .05		3.00 .06		1.53 .08	
MS059A0	464439 E 1298439 N INTER	.45 .04	.32* .14		10.62 .18	1.04 .06		3.93 .11		3.55 .11	
MS059B0	464439 E 1298439 N INTER	.82 .05	7.32* .14		19.66 .26	2.24 .06		6.63 .09		5.29 .13	
MS059C0	464439 E 1298439 N INTER	.92 .05	7.32* .14		26.08 .29	2.15 .07		7.60 .15		6.40 .13	
MS060A0	464547 E 1298778 N INTER	.07 .02	9.09* .24		1.89 .05			.55 .04		.50 .04	
MS060B0	464547 E 1298778 N INTER	.41 .04	9.09* .24		21.56 .26	.22 .06		7.32 .13		7.03 .13	
MS060C0	464547 E 1298778 N INTER	.18 .02	9.09* .24		9.85 .10	.17 .03		3.11 .04		2.87 .06	
MS061B0	465430 E 1298120 N INTER	.79 .05	1.57 .04		5.97 .13	2.87 .05		1.86 .09		1.98 .08	
MS062B0	465722 E 1298178 N INTER	.08 .02	.16 .01		.53 .03	.32 .02				.22 .03	
MS063B0	465694 E 1298653 N INTER		1.19 .02		.51 .03	.10 .02		.11 .03		.10 .03	
MS064B0	465742 E 1298275 N INTER		.08 .00		.07 .02						

* MEASUREMENT MADE ON COMBINED SAMPLE

SAMPLE NUMBER	CO-ORDINATES AND GRID NAME	ACTIVITY AND UNCERTAINTY AS HANDOUTS PER KILOGRAM									
		CD 60	SR 90	BA133	CS137	EU152	EU154	EU155	PU239	AM241	
MS06550	465833 E 1298548 N INTER	.05 .02	.94 .03		.44 .03	.10 .02		.08 .03		.07 .01	
MS06650	466946 E 1298226 N INTER		.10 .00		.49 .03			.18 .04			
MS06750	467850 E 1298605 N INTER	.08 .02	.58 .02		.49 .03	.17 .02		.09 .03			
MS06850	468021 E 1298960 N INTER	.06 .02	.14 .01		1.25 .04			.22 .03		.19 .03	
MS06950	468302 E 1298872 N INTER		.08 .01		.13 .03						
MS07050	468393 E 1298378 N INTER	.52 .04	3.11 .07		2.05 .08	1.08 .04		.80 .04		4.68 .10	
MS07150	468536 E 1298646 N INTER	.18 .02	1.10 .04		1.78 .04	.35 .02		.39 .04		.89 .04	
MS07250	464380 E 1297820 N INTER	.24 .04	.82 .03		1.19 .07	.95 .04		.53 .04		.45 .05	
MS07350	464227 E 1297447 N INTER		.09 .01		.29 .03	.18 .02					
MS07450	464561 E 1297342 N INTER	.05 .03	.17 .01			.31 .02					
MS07550	465107 E 1297308 N INTER	.06 .02	.07 .00		.30 .02	.33 .02					
MS07650	465445 E 1297493 N INTER	.06 .02	.11 .01		.32 .03	.37 .02					
MS07750	465292 E 1297961 N INTER	.71 .02	1.80 .06		5.12 .06	3.73 .03		.38 .05		1.54 .04	
MS07850	465668 E 1297584 N INTER		.13 .00		.32 .03	.28 .02					
MS07950	465736 E 1297687 N INTER	.07 .02	.14 .00		.43 .03	.25 .02					
MS08050	463536 E 1299528 N BREAKAWAY		.85 .02		.81 .03			.28 .03		.34 .03	
MS08150	463564 E 1299238 N BREAKAWAY		1.55 .04		1.64 .04	.06 .02		.42 .03		12.45 .09	

* MEASUREMENT MADE ON COMBINED SAMPLE

SAMPLE NUMBER	COORDINATES AND GRID NAME	ACTIVITY AND UNCERTAINTY AS NANOCURIES PER KILOGRAM									
		CO 60	SR 90	BA133	CS137	EU152	EU154	EU155	Pu239	AM241	
M8082A0	463591 E 1298948 N BREAKAWAY	.75 .04	3.44* .06		25.94 .23	.29 .06	8.74 .14			5.21 .12	
M8082B0	463591 E 1298948 N BREAKAWAY	.11 .02	3.44* .06		3.40 .06	.17 .02	.83 .04			.71 .04	
M8082C0	463591 E 1298948 N BREAKAWAY	.32 .02	3.44* .06		12.49 .10	.27 .03	3.23 .06			2.11 .05	
M8083B0	463660 E 1299100 N BREAKAWAY	.22 .02	6.00 .09		8.39 .09	.22 .03	2.88 .04			1.97 .05	
M8084B0	463632 E 1299391 N BREAKAWAY		1.25 .03		.80 .03		.24 .03			.38 .03	
M8085B0	463716 E 1299547 N BREAKAWAY		.43 .02		1.53 .04		.48 .03			.49 .03	
M8086B0	463744 E 1299253 N BREAKAWAY		.63 .02		1.23 .04		.27 .03			.30 .03	
M8087A0	463772 E 1298963 N BREAKAWAY	.33 .02	2.71* .05		14.95 .12	.36 .03	5.09 .07			3.78 .06	
M8087B0	463772 E 1298963 N BREAKAWAY		2.71* .05		1.53 .04		1.02 .04			.66 .04	
M8087C0	463772 E 1298963 N BREAKAWAY	.04 .02	2.71* .05		.83 .03	.09 .02	.19 .03			.20 .03	
M8088B0	463857 E 1299118 N BREAKAWAY	.17 .02	4.69 .14		9.08 .10	.12 .03	2.46 .03			1.79 .05	
M8089A0	463830 E 1299411 N BREAKAWAY	.11 .02	2.71 .09		4.74 .07		1.55 .05			8.98 .07	
M8089B0	463830 E 1299411 N BREAKAWAY		.98 .03		1.80 .04		.51 .03			8.15 .07	
M8089C0	463830 E 1299411 N BREAKAWAY	.05 .02	.07 .00		.10 .02					.46 .03	
M8089C1	463830 E 1299411 N BREAKAWAY		.05 .00								
M8089C2	463830 E 1299411 N BREAKAWAY	.06 .02	.00 .00								
M8090B0	463922 E 1299368 N BREAKAWAY	.11 .01	4.64 .21		3.38 .06		1.22 .03			9.44 .08	

* MEASUREMENT MADE ON COMBINED SAMPLE

SAMPLE NUMBER	CO-ORDINATES AND GRID NAME	ACTIVITY AND UNCERTAINTY AS MICROCURIES PER KILOGRAM									
		CO 60	SR 90	HA133	CS137	EU152	EU154	EU155	PU239	AM241	
MS091A0	463950 E 1299275 N BREAKAWAY	.38 .03	3.42* .05	13.97 .18	7.99 .09	5.98 .20	5.98 .12			3.75 .10	
MS091B0	463950 E 1299275 N BREAKAWAY	.16 .02	3.42* .05	7.99 .09	7.99 .09	2.15 .05	2.15 .05			1.85 .05	
MS091C0	463950 E 1299275 N BREAKAWAY	.21 .03	3.42* .05	10.23 .12	10.23 .12	3.52 .05	3.52 .05			2.85 .05	
MS092S0	463978 E 1298981 N BREAKAWAY	.14 .02	1.00 .04	5.54 .07	5.54 .07	2.14 .05	2.14 .05			1.87 .04	
MS093A0	464053 E 1299136 N BREAKAWAY	.69 .02	5.08 .08	35.27 .14	35.27 .14	12.16 .09	12.16 .09			11.71 .08	
MS093B0	464053 E 1299136 N BREAKAWAY	.20 .00	4.65 .06	8.10 .10	8.10 .10	2.50 0.00	2.50 0.00			1.90 0.00	
MS093C0	464053 E 1299136 N BREAKAWAY	.09 .00	.09 .00	.13 .02	.13 .02					.36 .03	
MS093B1	464053 E 1299136 N BREAKAWAY	.37 .03	25.68 .31	22.47 .22	22.47 .22	7.19 .12	7.19 .12			7.29 .12	
MS093B2	464053 E 1299136 N BREAKAWAY	.09 .02	4.08 .10	1.42 .04	1.42 .04	.44 .03	.44 .03			.20 .03	
MS094S0	464025 E 1299430 N BREAKAWAY	.09 .02	2.12 .06	3.79 .06	3.79 .06	.95 .04	.95 .04			.72 .04	
MS095S0	464094 E 1299587 N BREAKAWAY	.07 .02	.82 .02	2.01 .05	2.01 .05	.54 .03	.54 .03			.70 .03	
MS096S0	464122 E 1299291 N BREAKAWAY	.16 .02	1.13 .02	4.71 .07	4.71 .07	2.27 .05	2.27 .05			1.43 .04	
MS097A0	464150 E 1298995 N BREAKAWAY	.27 .01	.27 .01	3.41 .06	3.41 .06	1.47 .05	1.47 .05			2.25 .05	
MS097C0	464150 E 1298995 N BREAKAWAY	.56 .02	27.60 .59	28.93 .14	28.93 .14	9.82 .08	9.82 .08			9.32 .07	
MS097B0	464150 E 1298995 N BREAKAWAY	.14 .01	.14 .01	.32 .02	.32 .02					.15 .03	
MS097C1	464150 E 1298995 N BREAKAWAY	.06 .01	1.77 .05	2.57 .05	2.57 .05	1.19 .02	1.19 .02			.89 .03	
MS097C2	464150 E 1298995 N BREAKAWAY	.08 .01	.09 .00	.19 .02	.19 .02					.18 .03	

* MEASUREMENT MADE ON COMBINED SAMPLE

SAMPLE NUMBER	CO-ORDINATES AND GRID NAME	ACTIVITY AND UNCERTAINTY AS NANOCURIES PER KILOGRAM										AM241					
		SR 90	8A133	CS137	EU152	EU154	EU155	PU239	CO 60	SR 90	8A133		CS137	EU152	EU154	EU155	PU239
MS098S0	464256 E	5.37	.16	9.81	.10	2.83											2.66
	BREAKAWAY	.14	.02	.10	.03	.06											.05
MS099S0	464228 E	1.77	.08	3.63		1.00											.86
	BREAKAWAY	.04	.02	.06		.04											.04
MS100A0	464313 E	9.78*	.15	7.87		2.32											2.10
	BREAKAWAY	.17	.02	.09		.05											.05
MS100B0	464313 E	9.78*	.35	12.14		4.36											3.68
	BREAKAWAY	.17	.02	.11		.04											.06
MS100C0	464313 E	9.78*	1.23	43.43		15.84											11.28
	BREAKAWAY	.17	.09	.48		.19											.24
MS101S0	464341 E	1.76	.07	2.49		.78											.61
	BREAKAWAY	.05	.02	.05		.04											.04
MS102A0	464306 E	.61		1.30		.42											1.25
	BREAKAWAY	.02		.04		.03											.04
MS102A1	464306 E	.11		.14													
	BREAKAWAY	.00		.03													
MS102A2	464306 E	.01		.55		.20											.16
	BREAKAWAY	.00		.03		.04											.04
MS103A0	464370 E	8.85*	.15	4.14		1.09											2.87
	BREAKAWAY	.20	.02	.07		.04											.05
MS103B0	464370 E	8.85*	.49	22.34		8.03											8.67
	BREAKAWAY	.20	.04	.27		.10											.16
MS103C0	464370 E	8.85*	.08	3.81		1.24											1.15
	BREAKAWAY	.20	.02	.06		.04											.04
MS104S0	464553 E	2.55	.10	3.98		1.89											1.62
	BREAKAWAY	.05	.02	.06		.05											.04
MS105S0	464525 E	1.80	.07	1.50		.53											.37
	BREAKAWAY	.03	.02	.04		.03											.03
MS106S0	464600 E	2.03	.13	5.14		1.58											1.37
	BREAKAWAY	.05	.02	.07		.04											.04
MS107S0	464629 E	4.07	.16	6.33		3.01											2.66
	BREAKAWAY	.13	.02	.08		.06											.05
MS108S0	464657 E	.43	.07	3.47		1.24											1.06
	BREAKAWAY	.02	.02	.06		.03											.04

* MEASUREMENT MADE ON COMBINED SAMPLE

SAMPLE NUMBER	CO-ORDINATES AND GRID NAME	ACTIVITY AND UNCERTAINTY AS NANOCURIES PER KILOGRAM										AM241	
		CO-60	SR 90	8A133	CS137	EU152	EU154	EU155	PU239				
MS10950	464500 E 1297600 N BIAK	.90 .03	.11 .00		.16 .03	3.52 .04	.30 .06	.28 .03					
MS11050	464086 E 1297544 N BIAK	2.06 .05	.20 .03		1.39 .05	13.09 .07	1.16 .08	.49 .06					.44 .05
MS11150	465050 E 1297510 N BIAK	.75 .03	.07 .00		.32 .03	3.45 .04	.43 .07						
MS11250	465191 E 1297992 N BIAK	1.52 .09	2.46 .00		9.02 .23	7.11 .12		3.21 .10					3.04 .14
MS11350	464720 E 1298125 N BIAK	.39 .03	.43 .02		1.45 .07	2.05 .04		.52 .04					.26 .05
MS11450	464087 E 1298102 N BIAK	.40 .04	.05 .03		2.47 .09	1.68 .05		.85 .07					.74 .07
MS11550	465079 E 1298120 N BIAK	.30 .03	.47 .02		1.48 .07	1.40 .05		.83 .04					.46 .06
MS11650	465240 E 1298104 N BIAK	.41 .04	1.06 .03		2.95 .10	1.55 .05		1.14 .05					.96 .07
MS11750	465010 E 1298251 N BIAK	.33 .03	.77 .03		3.39 .10	1.25 .04		1.08 .08					1.02 .07
MS11850	464772 E 1298310 N BIAK	.44 .04	6.65 .18		3.74 .11	1.96 .05		1.24 .05					1.12 .07
MS11950	464941 E 1298375 N BIAK	.60 .02	2.02 .05		7.34 .07	2.51 .03	.30 .07	2.35 .05					.22 0.00
MS120A0	465133 E 1298320 N BIAK	.04 .05	2.52 .05		7.54 .16	4.10 .06		2.83 .07					2.39 .10
MS120B0	465133 E 1298320 N BIAK	.09 .02	.13 .00		.21 .03	.17 .02							
MS120C0	465133 E 1298320 N BIAK	.04 .05	3.11 .00		14.12 .20	3.68 .07		4.76 .13					5.26 .12
MS120A1	465133 E 1298320 N BIAK	.95 .05	5.85 .13		14.81 .21	3.58 .08		4.98 .13					5.28 .12
MS120A2	465133 E 1298320 N BIAK	1.30 .06	0.64 .23		25.90 .28	3.34 .08		9.20 .10					9.30 .16
MS121A0	464303 E 1298376 N BIAK	1.07 .06	4.24* .01		12.40 .21	4.20 .08		4.44 .09					4.31 .12

* MEASUREMENT MADE ON COMBINED SAMPLE

SAMPLE NUMBER	CO-ORDINATES AND GRID NAME	CO 60	ACTIVITY AND UNCERTAINTY AS NANOCURIES PER KILOGRAM										AM241	
			SR 90	BA133	CS137	EU152	EU154	EU155	EU156	EU157	EU158	EU159		EU160
MS12180	464303 E 1298376 N BIAK	1.19 .05	4.24* .01	21.71 .22	4.61 .06	7.53 .13	7.53 .13	7.53 .13	7.53 .13	7.53 .13	7.53 .13	7.53 .13	7.53 .13	7.65 .14
MS121C0	464303 E 1298376 N BIAK	1.07 .06	4.24* .01	14.42 .22	4.41 .08	5.32 .09	5.32 .09	5.32 .09	5.32 .09	5.32 .09	5.32 .09	5.32 .09	5.32 .09	4.77 .12
MS122A0	465064 E 1298444 N BIAK	1.64 .07	6.65 .26	37.10 .33	4.98 .09	12.55 .12	12.55 .12	12.55 .12	12.55 .12	12.55 .12	12.55 .12	12.55 .12	12.55 .12	11.60 .19
MS122B0	465064 E 1298444 N BIAK	1.10 .06	3.18 .07	13.18 .21	5.21 .08	4.61 .08	4.61 .08	4.61 .08	4.61 .08	4.61 .08	4.61 .08	4.61 .08	4.61 .08	4.21 .12
MS122C0	465064 E 1298444 N BIAK	1.66 .05	3.15 .08	12.84 .19	3.20 .06	5.07 .09	5.07 .09	5.07 .09	5.07 .09	5.07 .09	5.07 .09	5.07 .09	5.07 .09	4.33 .10
MS122A1	465064 E 1298444 N BIAK	1.40 .06	9.75 .19	27.50 .27	4.60 .07	9.14 .16	9.14 .16	9.14 .16	9.14 .16	9.14 .16	9.14 .16	9.14 .16	9.14 .16	8.83 .15
MS122A2	465064 E 1298444 N BIAK	1.48 .06	12.79 .28	33.90 .31	3.96 .08	11.82 .18	11.82 .18	11.82 .18	11.82 .18	11.82 .18	11.82 .18	11.82 .18	11.82 .18	11.92 .17
MS123S0	464825 E 1298511 N BIAK	1.31 .03	1.40 .03	5.25 .13	1.12 .04	2.78 .06	2.78 .06	2.78 .06	2.78 .06	2.78 .06	2.78 .06	2.78 .06	2.78 .06	2.37 .09
MS124S0	464995 E 1298567 N BIAK	1.26 .04	1.51 .04	4.25 .12	1.13 .04	1.68 .05	1.68 .05	1.68 .05	1.68 .05	1.68 .05	1.68 .05	1.68 .05	1.68 .05	1.26 .07
MS125S0	465188 E 1298513 N BIAK	1.13 .02	1.45 .01	8.2 .03	1.50 .02	2.1 .03	2.1 .03	2.1 .03	2.1 .03	2.1 .03	2.1 .03	2.1 .03	2.1 .03	1.7 .03
MS126S0	465358 E 1298569 N BIAK	1.62 .02	1.62 .02	2.41 .09	1.46 .04	1.64 .07	1.64 .07	1.64 .07	1.64 .07	1.64 .07	1.64 .07	1.64 .07	1.64 .07	1.67 .06
MS127S0	465119 E 1298636 N BIAK	1.40 .01	1.40 .01	1.00 .03	1.17 .02	1.48 .03	1.48 .03	1.48 .03	1.48 .03	1.48 .03	1.48 .03	1.48 .03	1.48 .03	1.44 .03
MS128S0	464880 E 1298704 N BIAK	1.10 .01	1.10 .01	1.10 .01	1.10 .01	1.10 .01	1.10 .01	1.10 .01	1.10 .01	1.10 .01	1.10 .01	1.10 .01	1.10 .01	1.10 .01
MS129S0	465050 E 1298760 N BIAK	3.55 .09	3.55 .09	1.81 .08	1.25 .04	1.50 .07	1.50 .07	1.50 .07	1.50 .07	1.50 .07	1.50 .07	1.50 .07	1.50 .07	1.54 .06
MS130S0	465242 E 1298705 N BIAK	1.05 .02	1.05 .02	1.05 .02	1.05 .02	1.05 .02	1.05 .02	1.05 .02	1.05 .02	1.05 .02	1.05 .02	1.05 .02	1.05 .02	1.05 .02
MS131S0	465440 E 1298860 N BIAK	1.20 .01	1.20 .01	1.20 .01	1.20 .01	1.20 .01	1.20 .01	1.20 .01	1.20 .01	1.20 .01	1.20 .01	1.20 .01	1.20 .01	1.19 .03
MS132S0	465200 E 1298925 N BIAK	1.78 .03	1.78 .03	1.78 .03	1.78 .03	1.78 .03	1.78 .03	1.78 .03	1.78 .03	1.78 .03	1.78 .03	1.78 .03	1.78 .03	1.78 .03

* MEASUREMENT MADE ON COMBINED SAMPLE

SAMPLE NUMBER	CO-ORDINATES AND GRID NAME	ACTIVITY AND UNCERTAINTY AS NANOCURIES PER KILOGRAM										AM241
		SR 90	BA133	CS137	EU152	EU154	EU155	PU239	AM241			
MS13380	464960 E 1298990 N BIAK	.15 .02	2.56 .08	4.69 .07	2.12 .05	2.12 .05	2.12 .05	2.12 .05	2.12 .05	2.12 .05	2.12 .05	1.65 .04
MS13480	467835 E 1298040 N TADJE	.48 .02	.08 .01	.25 .02	3.17 .03	.56 .05	.56 .05	.56 .05	.56 .05	.56 .05	.56 .05	.12 .03
MS13580	467954 E 1297991 N TADJE	1.86 .07	2.56 .08	3.45 .11	9.04 .08	.81 .15	1.36 .06	1.36 .06	1.36 .06	1.36 .06	1.36 .06	7.82 .13
MS13680	468080 E 1297960 N TADJE	.91 .03	.34 .01	.45 .03	6.15 .05	.47 .07	.47 .07	.47 .07	.47 .07	.47 .07	.47 .07	
MS137A0	467895 E 1298256 N TADJE	.48 .04	.24 .01	.66 .05	1.71 .04	.31 .04	.31 .04	.31 .04	.31 .04	.31 .04	.31 .04	1.27 .06
MS137B0	467895 E 1298256 N TADJE	56.81 .54	51.69 .57	51.69 .57	3.55 .15	14.76 .21	5721.69 564.81	109.73 .66	109.73 .66	109.73 .66	109.73 .66	
MS137C0	467895 E 1298256 N TADJE	.79 .03	.40 .01	.83 .03	2.94 .03	.31 .06	.31 .06	.31 .06	.31 .06	.31 .06	.31 .06	1.34 .04
MS138A0	468169 E 1298156 N TADJE	2.88 .11	18.37* .31	25.07 .35	7.39 .12	1.15 .22	2399.48 363.66	62.36 .44	62.36 .44	62.36 .44	62.36 .44	
MS138B0	468169 E 1298156 N TADJE	2.69 .11	18.37* .31	21.34 .34	6.15 .11	.86 .18	1426.89 452.48	54.20 .33	54.20 .33	54.20 .33	54.20 .33	
MS138C0	468169 E 1298156 N TADJE	2.73 .10	18.37* .31	19.79 .30	9.01 .11	7.23 .20	1704.50 319.98	51.95 .36	51.95 .36	51.95 .36	51.95 .36	
MS139A0	468067 E 1298300 N TADJE	96.14 .57	63.61* 1.03	118.45 .71	5.56 .18	45.86 .29	28642.16 1104.63	316.67 .95	316.67 .95	316.67 .95	316.67 .95	
MS139B0	468067 E 1298300 N TADJE	31.51 .37	63.61* 1.03	34.37 .45	4.17 .14	16.86 .20	17786.52 701.11	119.03 .68	119.03 .68	119.03 .68	119.03 .68	
MS139C0	468067 E 1298300 N TADJE	40.48 .41	63.61* 1.03	46.69 .51	4.59 .14	29.36 .25	14681.44 887.13	191.79 .77	191.79 .77	191.79 .77	191.79 .77	
MS140A0	467964 E 1298444 N TADJE	6.05 .16	4.75 .12	9.75 .23	1.67 .08	2.84 .09	809.19 244.32	19.96 .26	19.96 .26	19.96 .26	19.96 .26	
MS140B0	467964 E 1298444 N TADJE	.30 .02	.19 .01	.32 .02	1.84 .02	.26 .03	.26 .03	.26 .03	.26 .03	.26 .03	.26 .03	
MS140C0	467964 E 1298444 N TADJE	.92 .03	.71 .02	1.59 .04	.75 .02	2.44 .04	2.44 .04	2.44 .04	2.44 .04	2.44 .04	2.44 .04	
MS14180	468238 E 1298344 N TADJE	1.19 .05	1.96 .01	2.09 .08	1.48 .04	5.58 .07	5.58 .07	5.58 .07	5.58 .07	5.58 .07	5.58 .07	

* MEASUREMENT MADE ON COMBINED SAMPLE

SAMPLE NUMBER	CO-ORDINATES AND GRID NAME	ACTIVITY AND UNCERTAINTY AS MANCOPIES PER KILOGRAM										AM241				
		SK 90	BA133	CS157	EU152	EU154	EU155	PU239	CO 60	SK 90	BA133		CS157	EU152	EU154	EU155
MS142S0	468135 E 1298488 N TADJE	2.14	9.62	1.02	4.10	1663.37	19.59	19.59	19.59	19.59	19.59	19.59	19.59	19.59	19.59	19.59
MS143A0	468033 E 1298632 N TADJE	4.16	0.06	1.24	2.87	2151.54	16.53	16.53	16.53	16.53	16.53	16.53	16.53	16.53	16.53	16.53
MS143B0	468033 E 1298632 N TADJE	5.89	6.68	1.24	3.02	934.19	19.57	19.57	19.57	19.57	19.57	19.57	19.57	19.57	19.57	19.57
MS143C0	468033 E 1298632 N TADJE	2.54	7.05	1.00	2.21	1051.47	14.46	14.46	14.46	14.46	14.46	14.46	14.46	14.46	14.46	14.46
MS143A1	468033 E 1298632 N TADJE	4.65	7.11	2.29	2.13	2226.69	13.52	13.52	13.52	13.52	13.52	13.52	13.52	13.52	13.52	13.52
MS143A2	468033 E 1298632 N TADJE	10.48	14.78	1.65	4.00	26.75	26.75	26.75	26.75	26.75	26.75	26.75	26.75	26.75	26.75	26.75
MS143D0	468033 E 1298632 N TADJE	0.11	0.12	0.20	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
MS14301	468033 E 1298632 N TADJE	0.05	0.00	0.02	0.20	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
MS143D2	468033 E 1298632 N TADJE	0.10	0.07	0.27	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
MS144S0	468307 E 1298532 N TADJE	12.08	11.70	1.51	4.63	3400.36	29.39	29.39	29.39	29.39	29.39	29.39	29.39	29.39	29.39	29.39
MS145A0	468205 E 1298675 N TADJE	27.85	34.51	1.99	12.74	15170.18	89.19	89.19	89.19	89.19	89.19	89.19	89.19	89.19	89.19	89.19
MS145B0	468205 E 1298675 N TADJE	30.50	23.49	1.87	7.72	3398.87	60.37	60.37	60.37	60.37	60.37	60.37	60.37	60.37	60.37	60.37
MS145C0	468205 E 1298675 N TADJE	13.07	20.41	2.12	8.06	8165.26	56.30	56.30	56.30	56.30	56.30	56.30	56.30	56.30	56.30	56.30
MS145C1	468205 E 1298675 N TADJE	2.30	31.31	2.07	11.40	4335.91	80.40	80.40	80.40	80.40	80.40	80.40	80.40	80.40	80.40	80.40
MS145C2	468205 E 1298675 N TADJE	11.59	11.12	0.81	4.31	3566.05	29.94	29.94	29.94	29.94	29.94	29.94	29.94	29.94	29.94	29.94
MS145D0	468205 E 1298675 N TADJE	0.97	1.14	0.31	0.53	2.57	2.57	2.57	2.57	2.57	2.57	2.57	2.57	2.57	2.57	2.57
MS145D1	468205 E 1298675 N TADJE	0.12	0.07	0.04	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08

* MEASUREMENT MADE ON COMBINED SAMPLE

SAMPLE NUMBER	CO-ORDINATES AND GRID NAME	ACTIVITY AND UNCERTAINTY AS NANOCURIES PER KILOGRAM									
		SR 90	BA133	CS137	EU152	EU154	EU155	PU239	AM241		
MS14502	468205 E 1298675 N TAOJE	.09 .00	.06 .03	.12 .03	.29 .06	.12 .04					
MS14680	468970 E 1300760 N ONE TREE	.41 .01	.56 .03	3.02 .04	.29 .06	.12 .04					
MS147A0	469030 E 1300415 N ONE TREE	12.00 .22	66.00 .65	17.70 .25	13.80 .30	27.65 .41				6.90 .30	
MS147B0	469030 E 1300415 N ONE TREE	6.12 .15	106.06 .75	17.64 .19	27.65 .41					16.25 .32	
MS147C0	469030 E 1300415 N ONE TREE	.60 .02	6.49 .19	18.26 .17	1.59 .24	1.27 .16				.72 .12	
MS14701	469030 E 1300415 N ONE TREE	7.62 .21	267.29 1.34	20.49 .25	2.08 .34	76.49 .40				40.97 .53	
MS147B2	469030 E 1300415 N ONE TREE	7.98 .20	10.18 .30	03.51 .30	4.09 .40	3.09 .15				1.40 .20	
MS14880	469340 E 1300260 N ONE TREE	2.65 .12	4.53 .11	1.70 .05	1.89 .09					.94 .07	
MS149A0	469375 E 1301065 N ONE TREE	3.19* .09	6.77 .14	2.55 .05	1.63 .09					.99 .08	
MS14980	469375 E 1301065 N ONE TREE	3.19* .09	12.43 .20	4.90 .07	3.04 .07					1.57 .09	
MS149C0	469375 E 1301065 N ONE TREE	3.19* .09	17.04 .24	3.06 .07	4.05 .13					2.45 .11	
MS150A0	469562 E 1300821 N ONE TREE	1.52 .03	9.00 .24	18.82 .20	1.78 .27	1.79 .18				.87 .14	
MS150B0	469562 E 1300821 N ONE TREE	.94 .03	6.27 .20	10.76 .13	1.93 .32	1.27 .15				1.44 .12	
MS150C0	469562 E 1300821 N ONE TREE	2.89 .06	10.15 .16	13.28 .10	1.33 .13	2.42 .07				1.08 .09	
MS150C1	469562 E 1300821 N ONE TREE	2.85 .11	8.79 .22	19.02 .15	1.72 .22	1.32 .16				.62 .13	
MS150C2	469562 E 1300821 N ONE TREE	2.21 .02	7.81 .22	20.21 .19	2.46 .27	1.68 .18				.76 .13	
MS151S0	469749 E 1300577 N ONE TREE	.85 .04	4.60 .12	1.88 .05	1.45 .05					.59 .07	

* MEASUREMENT MADE ON COMBINED SAMPLE

SAMPLE NUMBER	CO-ORDINATES AND GRID NAME	CO 60	SK 90	ACTIVITY AND UNCERTAINTY AS NANOCURIES PER KILOGRAM										AM241
				BA133	CS137	KU132	KU154	KU155	PU239	AM241				
MS152A0	469548 E 1301003 N ONE TREE	1.84 .09	5.21* .11	29.02 .58	5.41 .10	7.83 .13								4.96 .17
MS152B0	469548 E 1301003 N ONE TREE	1.51 .06	5.21* .11	17.03 .20	4.93 .06	4.33 .07	.56 .13							2.18 .10
MS152C0	469548 E 1301003 N ONE TREE	2.31 .08	5.21* .11	28.21 .28	4.75 .09	7.56 .16								5.37 .13
MS153A0	469734 E 1300760 N ONE TREE	.86 .05	2.55* .05	10.10 .16	4.24 .07	2.67 .06								1.46 .08
MS153B0	469734 E 1300760 N ONE TREE	1.23 .06	2.55* .05	26.59 .29	3.95 .08	8.10 .10								3.73 .13
MS153C0	469734 E 1300760 N ONE TREE	.84 .05	2.55* .05	11.05 .17	4.01 .07	2.91 .06								1.28 .08
MS154A0	469534 E 1301186 N ONE TREE	.63 .05	6.12* .16	10.01 .15	1.51 .06	2.73 .07								1.45 .09
MS154B0	469534 E 1301186 N ONE TREE	1.85 .07	6.12* .16	31.26 .28	3.02 .06	8.52 .14								6.37 .13
MS154C0	469534 E 1301186 N ONE TREE	2.32 .11	6.12* .16	40.48 .49	4.56 .13	11.24 .17								7.87 .21
MS155A0	469721 E 1300943 N ONE TREE	.61 .04	1.92* .05	9.28 .16	2.00 .05	2.65 .06								1.22 .08
MS155B0	469721 E 1300943 N ONE TREE	.48 .04	1.92* .05	7.05 .15	1.85 .05	2.06 .06								1.18 .08
MS155C0	469721 E 1300943 N ONE TREE	1.21 .05	1.92* .05	25.54 .26	3.05 .07	5.83 .13	.40 .12							3.40 .11
MS156B0	469908 E 1300699 N ONE TREE	.43 .03	2.65 .07	6.79 .14	1.22 .05	1.81 .05								.97 .07
MS157A0	469707 E 1301125 N ONE TREE	2.14 .10	15.56 .29	42.26 .46	6.08 .13	9.97 .24								5.61 .19
MS157B0	469707 E 1301125 N ONE TREE	1.53 .06	6.36 .18	27.87 .28	4.49 .08	7.05 .16								5.97 .14
MS157C0	469707 E 1301125 N ONE TREE	2.43 .08	13.53 .24	53.31 .43	5.06 .10	14.05 .13								7.67 .17
MS157A1	469707 E 1301125 N ONE TREE	3.53 .15	18.23 .41	75.31 .68	8.05 .16	17.90 .32	1.02 .28							10.27 .29

* MEASUREMENT MADE ON COMBINED SAMPLE

SAMPLE NUMBER	CO-ORDINATES AND GRID NAME	CO 60	ACTIVITY AND UNCERTAINTY AS NANOCURIES PER KILOGRAM					AM241
			SR 90	8A133	CS137	EU152	EU154	
MS157A2	469707 E 1301125 N ONE TREE	2.67 .12	12.26 .31	58.87 .59	6.75 .15	13.84 .20	7.76 .24	7.76 .24
MS158A0	469893 E 1300802 N ONE TREE	1.39 .06	3.46* .09	30.14 .30	3.67 .08	7.97 .11	4.42 .13	4.42 .13
MS158B0	469893 E 1300802 N ONE TREE	.09 .05	3.46* .09	21.23 .25	2.16 .07	6.19 .09	3.38 .11	3.38 .11
MS158C0	469893 E 1300802 N ONE TREE	.16 .02	3.46* .09	.82 .04	.51 .03	.21 .04	.15 .04	.15 .04
MS159A0	469695 E 1301305 N ONE TREE	1.99 .11	5.46* .02	40.44 .53	5.06 .13	10.21 .17	5.85 .21	5.85 .21
MS159B0	469695 E 1301305 N ONE TREE	1.01 .07	5.46* .02	28.98 .29	4.48 .07	7.31 .10	4.16 .13	4.16 .13
MS159C0	469695 E 1301305 N ONE TREE	.12 .02	5.46* .02	1.28 .04	.18 .02	.32 .04	.27 .03	.27 .03
MS160A0	469879 E 1301064 N ONE TREE	1.34 .06	9.69* .22	30.67 .31	7.03 .15	8.80 .10	5.24 .14	5.24 .14
MS160B0	469879 E 1301064 N ONE TREE	1.19 .06	9.69* .22	28.65 .29	3.42 .07	8.23 .16	4.92 .13	4.92 .13
MS160C0	469879 E 1301064 N ONE TREE	1.20 .05	9.69* .22	27.58 .25	3.63 .07	6.77 .14	3.64 .11	3.64 .11
MS161A0	470064 E 1300824 N ONE TREE	.27 .01	.27 .01	.42 .03	.15 .02	.13 .04		
MS161B0	470064 E 1300824 N ONE TREE	.72 .04	4.48 .11	23.03 .23	1.71 .05	5.96 .11	3.20 .10	3.20 .10
MS161C0	470064 E 1300824 N ONE TREE	.38 .04	2.59 .06	9.35 .17	1.04 .04	2.55 .06	1.28 .08	1.28 .08
MS161C1	470064 E 1300824 N ONE TREE	.58 .04	4.11 .12	14.71 .21	1.34 .05	3.86 .10	2.34 .09	2.34 .09
MS161C2	470064 E 1300824 N ONE TREE	1.08 .05	4.08 .07	28.46 .28	2.18 .07	7.55 .10	3.52 .12	3.52 .12
MS162A0	469866 E 1301246 N ONE TREE	1.32 .06	7.34* .18	28.92 .29	4.17 .08	7.15 .15	4.45 .12	4.45 .12
MS162B0	469866 E 1301246 N ONE TREE	1.63 .06	7.34* .18	37.06 .33	4.47 .09	9.51 .11	5.12 .14	5.12 .14

* MEASUREMENT MADE ON COMBINED SAMPLE

SAMPLE NUMBER	CO-ORDINATES AND GRID NAME	ACTIVITY AND UNCERTAINTY AS NANOCURIES PER KILOGRAM									
		CO 68	SR 98	BA133	CS137	EU152	EU154	EU155	PU239	AM241	
S162C0	469866 E 1301246 N ONE TREE	.12 .02	7.34* .18		1.34 .05	.25 .02		.25 .04		.17 .04	
S163A0	470051 E 1301004 N ONE TREE	.94 .05	0.78* .15		25.17 .25	2.88 .06		6.69 .13		4.85 .11	
S163B0	470051 E 1301004 N ONE TREE	1.22 .05	0.78* .15		27.55 .25	3.06 .07		7.84 .13		4.77 .11	
S163C0	470051 E 1301004 N ONE TREE	1.36 .06	0.78* .15		27.16 .30	3.86 .08		7.01 .10		3.51 .12	
S164S0	469933 E 1301487 N ONE TREE	.12 .02	1.77 .05		3.54 .06	.18 .02		1.34 .05		.89 .04	
S165S0	470117 E 1301247 N ONE TREE		.09 .00		.30 .03						
S166S0	470302 E 1301006 N ONE TREE		.99 .03		1.00 .05	.14 .03		.55 .04		.35 .03	
S168S0	470289 E 1301107 N ONE TREE		.22 .01		.34 .03			.13 .04			
S169S0	470170 E 1301670 N ONE TREE	.12 .02	1.05 .03		4.15 .07	.09 .03		1.46 .05		.82 .04	
S170S0	470355 E 1301430 N ONE TREE		.14 .01		.26 .03						
S171S0	470540 E 1301190 N ONE TREE		.10 .01		.14 .02						
S172S0	465540 E 1298980 N MARCOO	.11 .02	.75 .03	.04 .02	1.33 .04	.42 .02		.44 .04		.36 .03	
S173A0	465670 E 1298962 N MARCOO	1.09 .05	19.01* .41	.49 .05	10.67 .18	2.58 .07		3.37 .11		1.46 .09	
S173B0	465670 E 1298962 N MARCOO	1.68 .07	19.01* .41	1.58 .06	9.59 .17	4.52 .08		4.21 .08			
S173C0	465670 E 1298962 N MARCOO	4.57 .16	19.01* .41	5.15 .14	39.09 .51	9.53 .17		14.45 .19		2.97 .22	
S174S0	465030 E 1290960 N MARCOO	.49 .04	5.01 .21		10.59 .17	.67 .05		4.38 .10		2.89 .10	
S175S0	465821 E 1299174 N MARCOO	.53 .03	10.95 .27	.52 .03	5.25 .08	.45 .06		1.74 .07		.47 .05	

* MEASUREMENT MADE ON COMBINED SAMPLE

SAMPLE NUMBER	CO-ORDINATES AND GRID NAME	ACTIVITY AND UNCERTAINTY AS NANOCURIES PER KILOGRAM									
		CO 60	SR 90	8A133	C6137	EU152	EU154	EU155	PUE39	AM241	
MS17680	465540 E 1299188 N MARC00	.57 .04	5.51 .14	.32 .06	7.78 .16	1.61 .06	3.02 .07			1.13 .08	
MS177A0	465685 E 1299281 N MARC00	.06 .03	.80 .02		.58 .04	.20 .03					
MS17780	465685 E 1299281 N MARC00	.67 .04	22.33 .55	.72 .05	9.55 .16	.81 .05	2.82 .07				
MS177C0	465685 E 1299281 N MARC00	1.16 .06	41.05 1.05	1.45 .06	24.21 .27	1.80 .06	5.85 .09			.42 .10	
MS177D0	465685 E 1299281 N MARC00	.35 .02	9.88 .32	.36 .02	5.36 .08	.66 .03	1.35 .04				
MS177D1	465685 E 1299281 N MARC00	.05 .02	1.42 .03		.32 .03	.19 .03					
MS177D2	465685 E 1299281 N MARC00		.08 .00		.06 .02	.13 .02					
MS17890	465690 E 1299380 N MARC00	.08 .02	2.56 .07	.07 .02	1.46 .04	.13 .02	.47 .02			.14 .03	
MS17980	465550 E 1299387 N MARC00		2.16 .05		1.13 .04		.39 .03			.29 .03	
MS180A0	465695 E 1299480 N MARC00	.17 .02	.86 .00		.42 .03	.49 .02					
MS180B0	465695 E 1299480 N MARC00		.37 .01		.36 .03						
MS180C0	465695 E 1299480 N MARC00	1.35 .06	34.98 .01	1.45 .06	25.96 .29	1.47 .06	6.33 .09			1.27 .14	
MS180D0	465695 E 1299480 N MARC00	4.95 .16	126.10 1.21	5.34 .17	102.44 .82	4.93 .16	27.14 .26			8.77 .31	
MS180D1	465695 E 1299480 N MARC00	.11 .02	5.40 .09	.10 .02	1.40 .04	.09 .02	.16 .03				
MS180D2	465695 E 1299480 N MARC00		2.61 .09		2.11 .04		.33 .03			.29 .03	
MS18190	465840 E 1299573 N MARC00	.11 .02	2.47 .11	.05 .02	1.86 .05	.07 .02	.60 .04			.41 .03	
MS18280	465560 E 1299587 N MARC00		1.05 .04		1.12 .04	.44 .03	.24 .03			.21 .03	

* MEASUREMENT MADE ON COMBINED SAMPLE

SAMPLE NUMBER	CO-ORDINATES AND GRID NAME	ACTIVITY AND UNCERTAINTY AS NANOCURIES PER KILOGRAM									
		CO 60	SR 90	BA133	CS137	EU152	EU154	EU155	PU239	AM241	
MS183A0	465705 E 1299680 N MARCOO	.15 .02	5.92 .15		4.54 .06			1.98 .04		1.57 .04	
MS183B0	465705 E 1299680 N MARCOO		.67 .02		.37 .03						
MS183C0	465705 E 1299680 N MARCOO	.44 .02	14.00 .63	.38 .03	12.62 .11	.40 .03		3.21 .06		1.84 .05	
MS183D0	465705 E 1299680 N MARCOO		.58 .01		.28 .03					.19 .03	
MS183D1	465705 E 1299680 N MARCOO		.11 .01		.09 .02						
MS183D2	465705 E 1299680 N MARCOO		.02 .00								
MS185A0	465780 E 1299630 N MARCOO WHEAT AREA	.32 .02	10.82 .28	.41 .02	6.00 .08	.47 .02		2.53 .05		.51 .04	
MS185A1	465780 E 1299630 N MARCOO WHEAT AREA		.07 .00								
MS185A2	465780 E 1299630 N MARCOO WHEAT AREA		1.23 .02		.38 .03			.10 .04			
MS185B0	465780 E 1299630 N MARCOO WHEAT AREA	.63 .04	19.57 .44	.58 .05	15.22 .21	.53 .05		3.57 .07		3.95 .11	
MS185B1	465780 E 1299630 N MARCOO WHEAT AREA		1.50 .02		.26 .03						
MS185B2	465780 E 1299630 N MARCOO WHEAT AREA		.64 .01								
MS185C0	465780 E 1299630 N MARCOO WHEAT AREA		2.10 .06		1.35 .04			.12 .03		.50 .03	
MS185C1	465780 E 1299630 N MARCOO WHEAT AREA		.10 .01		.05 .02						
MS185C2	465780 E 1299630 N MARCOO WHEAT AREA		.04 .00								
MS186A0	465780 E 1299640 N MARCOO WHEAT AREA	.71 .03	22.76 .42	.40 .04	25.57 .18	.38 .04		6.40 .06		3.37 .08	
MS186A1	465780 E 1299640 N MARCOO WHEAT AREA	.21 .02	6.26 .10	.13 .03	6.58 .09	.24 .02		1.49 .03		.54 .04	

* MEASUREMENT MADE ON COMBINED SAMPLE

SAMPLE NUMBER	COORDINATES AND GRID NAME	ACTIVITY AND UNCERTAINTY AS NANOCURIES PER KILOGRAM												
		CO 60	SR 90 .83 .02	BA133	CS137 .24 .03	EU152	EU154	EU155	PU239	AM241				
MS186A2	465780 E 1299640 N MARCOS WHEAT AREA													
MS188A0	463572 E 1297735 N BREAKAWAY GZ	256.01 1.09	16.73 .46	43.05 .82	827.92 1.04	74.29 1.35	11.79 .98				6.09 .69			
MS188A1	463572 E 1297735 N BREAKAWAY GZ	262.02 1.30			1036.04 1.62	69.32 1.60								
MS188A2	463572 E 1297735 N BREAKAWAY GZ	205.27 1.16	.43 .01		893.85 1.53	54.46 1.40								
MS191A0	463574 E 1297755 N BREAKAWAY GZ	128.97 .82		44.53 .67	366.55 1.03	35.44 1.02	19.98 .44				9.63 .51			
MS191A1	463574 E 1297755 N BREAKAWAY GZ	201.88 .43	.41 .02	1.43 .18	801.67 .80	62.27 .61	10.00 .27				2.00 .25			
MS191A2	463574 E 1297755 N BREAKAWAY GZ	178.89 1.01			802.83 1.32	51.92 1.40								
MS198A0	463579 E 1297795 N BREAKAWAY GZ	50.00 .53	28.00 .60	67.86 .75	232.17 .71	24.34 .74	20.04 .62				13.12 .45			
MS198A1	463579 E 1297795 N BREAKAWAY GZ	61.83 .50	.03 .00	1.51 .32	272.09 .63	26.51 .67	1.57 .48							
MS198A2	463579 E 1297795 N BREAKAWAY GZ	72.82 .62	.06 .02		269.95 .63	22.88 .75								
MS207A0	463586 E 1297864 N BREAKAWAY GZ	6.60 .17	3.40 .14	13.01 .27	35.67 .24	2.92 .32	2.94 .22				1.72 .16			
MS207A1	463586 E 1297864 N BREAKAWAY GZ	7.66 .18	3.71 .09	30.27 .39	43.51 .27	4.30 .29	7.49 .27				3.98 .21			
MS207A2	463586 E 1297864 N BREAKAWAY GZ	9.60 .25	2.42 .07	48.40 .60	48.70 .35	3.80 .40	9.80 .20				5.75 .30			
MS207A3	463586 E 1297864 N BREAKAWAY GZ	10.25 .16		.70 .12	61.10 .24	4.30 .23								
MS207A4	463586 E 1297864 N BREAKAWAY GZ	10.26 .17	2.63 .08	2.69 .14	52.13 .19	3.58 .23	1.76 .11				7.43 .17			
MS216A0	463598 E 1297964 N BREAKAWAY GZ	4.93 .16	2.17 .06	6.93 .21	27.86 .23	2.43 .27	2.01 .12				.74 .14			
MS216A1	463598 E 1297964 N BREAKAWAY GZ	4.86 .15	2.92 .08	43.02 .47	21.77 .18	2.42 .28	10.39 .17				6.09 .21			

* MEASUREMENT MADE ON COMBINED SAMPLE

SAMPLE NUMBER	CO-ORDINATES AND GRID NAME	ACTIVITY AND UNCERTAINTY AS NANOCURIES PER KILOGRAM									
		CO 60	SR 90	BA133	CS137	EU152	EU154	EU155	PU239	AM241	
MS216A2	463598 E 1297964 N BREAKAWAY GZ	2.31 .08	1.44 .04		4.92 .13	13.84 .12	1.24 .16	.94 .11		AM241 .63 .09	
MS216A3	463598 E 1297964 N BREAKAWAY GZ	2.15 .08	.45 .02		1.40 .09	14.71 .11					
MS216A4	463598 E 1297964 N BREAKAWAY GZ		.06 .00		.12 .04						
MS226A0	464883 E 1297801 N BIAK GZ	33.33 .42	10.44 .28		19.09 .42	106.97 .49	11.55 .53	10.07 .26		8.76 .33	
MS226A1	464883 E 1297801 N BIAK GZ	112.28 .87			7.28 .48	240.59 1.44	26.74 .91	265.58 1.33		170.17 1.02	
MS226A2	464883 E 1297801 N BIAK GZ	92.59 .46		.56 .19	.86 .24	254.27 .55	21.64 .51				
MS229A0	464888 E 1297820 N BIAK GZ	67.54 .62	6.34 .18		11.70 .44	280.16 .83	28.28 .82	5.56 .57		6.53 .41	
MS229A1	464888 E 1297820 N BIAK GZ	84.69 .30				278.83 .28	22.81 .35				
MS236A0	464899 E 1297859 N BIAK GZ	15.30 .30	.12 .01			89.42 .35	8.08 .46				
MS236A1	464899 E 1297859 N BIAK GZ	19.06 .12	.35 .01			112.40 .14	8.10 .19				
MS236A2	464899 E 1297859 N BIAK GZ	20.53 .41	.11 .01			108.04 .43	6.66 .46				
MS236A3	464899 E 1297859 N BIAK GZ	18.16 .21	.07 .00			104.15 .25	7.02 .32				
MS245A0	464918 E 1297926 N BIAK GZ	8.21 .22	8.60 .15		55.11 .61	44.10 .32	4.46 .36	17.07 .24		16.33 .33	
MS245A1	464918 E 1297926 N BIAK GZ	7.79 .14	.18 .02			43.99 .20					
MS245A2	464918 E 1297926 N BIAK GZ	9.78 .16	.26 .01			43.89 .17	3.50 .22				
MS254A0	464945 E 1298022 N BIAK GZ	1.06 .03	.17 .01		.55 .03	5.81 .05	.63 .07	.17 .04		.20 .04	
MS254A1	464945 E 1298022 N BIAK GZ	1.08 .03	.23 .01		.80 .04	5.85 .05	.56 .09	.31 .05		.19 .04	

SAMPLE NUMBER	CO-ORDINATES AND GRID NAME	CO 60	ACTIVITY AND UNCERTAINTY AS NANOCURIES PER KILOGRAM										
			SR 90	BA133	CS137	EU152	EU154	EU155	PU239	AM241			
1S254A2	464945 E 1298022 N BIAK GZ	1.03 .03	.17 .01		.10 .03	5.64 .04	.58 .08						
1S254A3	464945 E 1298022 N BIAK GZ	.97 .03	0.05 .01		.04 .04	5.44 .04	.54 .07						
1S254A4	464945 E 1298022 N BIAK GZ	.94 .03	.03 .00		.19 .03	5.20 .04							
1S490A0	469338 E 1300760 N ONE-TREE GZ	24.61 .35	2.55 .12	13.64 .35	128.85 .39	12.76 .53	3.42 .38	1.74 .28					
1S490A1	469338 E 1300760 N ONE-TREE GZ	36.13 .18	.40 .02	1.91 .12	181.67 .28	13.81 .31	.62 .18	.52 .12					
1S491A0	469230 E 1300649 N ONE-TREE GZ	44.44 .47	1.17 .06	12.64 .38	185.66 .58	17.23 .62	5.57 .45	2.58 .32					
1S492A0	464878 E 1297870 N BIAK GZ	20.03 .22	.76 .03	1.88 .16	109.18 .32	9.39 .34	1.06 .23	.54 .17					
1S492A1	464878 E 1297870 N BIAK GZ	24.12 .26	.06 .01	.48 .17	133.63 .39	10.83 .38	1.77 .20						
1S492A2	464878 E 1297870 N BIAK GZ	21.93 .14	.04 .00		120.33 .15	9.29 .19	.69 .14						
1S493A0	464965 E 1297782 N BIAK GZ	29.25 .27	.35 .04		177.97 .40	13.17 .41	2.17 .22						
1S493A1	464965 E 1297782 N BIAK GZ	28.72 .27	.14 .03		167.35 .39	10.55 .41							
1S493A2	464965 E 1297782 N BIAK GZ	28.28 .16	.09 .01		156.71 .20	11.00 .20							
1S494A0	463570 E 1297825 N BREAKAWAY GZ	16.93 .31	4.76 .15	21.97 .42	92.54 .36	8.51 .47	7.45 .23	3.23 .27					
1S494A1	463570 E 1297825 N BREAKAWAY GZ	23.13 .18	1.80 .06	4.38 .15	152.17 .25	11.49 .28	2.74 .12	.92 .14					
1S494A2	463570 E 1297825 N BREAKAWAY GZ	24.93 .38	.03 .01	1.98 .28	158.86 .59	12.23 .56	3.06 .31						
1S495A0	463460 E 1297715 N BREAKAWAY GZ	19.09 .32	.36 .05	11.09 .33	119.42 .46	10.17 .47	2.54 .37	1.65 .27					
1S495A1	463460 E 1297715 N BREAKAWAY GZ	18.09 .20	1.92 .17		117.12 .34	7.56 .30							

* MEASUREMENT MADE ON COMBINED SAMPLE

SAMPLE
NUMBER
MS495A2

CO-ORDINATES
AND GRID NAME
463460 E 1297715 N
BREAKAWAY GZ

CO 60
17.01
.13

SR 90
.37
.04

ACTIVITY AND UNCERTAINTY AS NANOCURIES PER KILOGRAM
C9137
8A133
108.91
.14

EU152
EU154
6.37
.19

EU155
PU239
AM241

APPENDIX IV RADIONUCLIDE CONCENTRATIONS IN VEGETATION
SAMPLES COLLECTED DURING THE 1977 SURVEY.

SAMPLE NUMBER	CO-ORDINATES AND GRID NAME	CO 60	ACTIVITY AND UNCERTAINTY AS NANOCURIES PER KILOGRAM					
			BA133	CS137	EU152	EU154	EU155	AM241
1S003V0	469600 E 1287300 N CLEAN AREA			.40 .05				
1S004V0	470400 E 1281100 N CLEAN AREA			.79 .06				
MS094V0	464025 E 1299430 N BREAKAWAY	.19 .04		3.22 .11	.19 .03		.94 .04	.48 .06
MS094V1	464025 E 1299430 N BREAKAWAY			1.20 .08	.18 .03		.65 .04	.55 .06
MS096V0	464122 E 1299291 N BREAKAWAY							
MS102V0	464306 E 1299312 N BREAKAWAY			.24 .02	.05 .02			.12 .02
MS120V0	465133 E 1298320 N BIAK	.06 .02		.10 .02	.11 .01			
MS122V0	465064 E 1298444 N BIAK			.54 .05	.66 .04		.29 .05	.17 .05
MS143V0	468033 E 1298632 N TADJE	.12 .02		.17 .03				.12 .04
MS145V0	468205 E 1298675 N TADJE	1.43 .07		1.33 .07	.52 .04		.64 .04	3.04 .09
MS147V0	469030 E 1300415 N ONE TREE	.40 .04		.53 .05	1.85 .05			
MS177V0	465685 E 1299281 N MARCOO	.21 .03	.30 .03	8.57 .14	.36 .03		.66 .04	.23 .05
MS190V0	0 E 0 N BREAKAWAY GZ 20YDS RADIUS	11.42 .20	.35 .06	1.11 .11		15.33 .17		
MS192V0	463560 E 1297680 N BREAKAWAY	6.57 .20	.42 .08	2.08 .16	18.79 .20	1.77 .27	.34 .17	
MS200V0	0 E 0 N BREAKAWAY GZ 80YDS RADIUS	3.35 .09		1.05 .08	13.06 .15	1.50 .14	.41 .05	
MS211V0	0 E 0 N BREAKAWAY GZ 150YD RADIUS	2.26 .09		.32 .06	10.13 .12	8.35 .11		
MS228V0	0 E 0 N BIAK GZ 20YDS RADIUS	2.56 .08		.11 .05	3.56 .06			
MS231V0	0 E 0 N BIAK GZ 40YDS RADIUS	.14 .03			.20 .03			
MS238V0	0 E 0 N BIAK GZ 80YDS RADIUS	2.67 .13		.50 .10	6.26 .11	.61 .25		
MS249V0	0 E 0 N BIAK GZ 150YDS RADIUS	.33 .02		.10 .02	.96 .03			

APPENDIX V RADIONUCLIDE CONCENTRATIONS IN
ANIMAL SAMPLES.

Sample Number	Co-ordinates where taken		Tissue	Activity (nCi/kg dry tissue)			
				⁶⁰ Co	¹³⁷ Cs	¹⁵² Eu	²⁴¹ Am
502	462 200 1297 300	E N	Skin & Fur	-	-	-	-
			Gut	0.02 ± 0.01	0.01 ± 0.01	-	-
			Lung	-	-	-	-
			Bone	-	-	-	-
			Soft tissue	-	-	-	-
503	464 800 1298 700	E N	Skin & Fur	-	0.12 ± 0.02	-	-
			Gut	0.04 ± 0.01	0.06 ± 0.01	0.03 ± 0.01	-
			Lung	-	-	-	-
			Bone	-	-	-	-
			Soft tissue	-	0.02 ± 0.01	-	-
504	465 700 1299 200	E N	Skin & Fur	-	0.03 ± 0.01	-	-
			Gut	0.03 ± 0.01	0.06 ± 0.01	0.04 ± 0.01	0.02 ± 0.01
			Lung	-	-	-	-
			Bone	-	-	-	-
			Soft tissue	-	-	-	-
505	465 900 1297 300	E N	Skin & Fur	-	0.04 ± 0.01	-	-
			Gut	0.02 ± 0.01	0.03 ± 0.01	0.02 ± 0.01	-
			Lung	-	-	-	-
			Bone	-	-	-	-
			Foetus	-	-	-	-
			Soft tissue	-	0.02 ± 0.01	-	-
506	467 000 1297 000	E N	Skin & Fur	-	-	-	-
			Gut	-	-	-	-
			Lung	-	-	-	-
			Bone	-	-	-	-
			Soft tissue	-	-	-	-
507	464 800 1297 500	E N	Skin & Fur	-	-	-	-
			Gut	-	-	-	-
			Lung	-	-	-	-
			Bone	-	-	-	-
			Soft tissue	-	-	-	-
508	464 000 1297 700	E N	Skin & Fur	-	-	0.07 ± 0.01	-
			Gut	0.08 ± 0.01	0.02 ± 0.01	0.06 ± 0.01	-
			Lung	-	-	-	-
			Bone	-	-	-	-
			Soft tissue	-	-	-	-
509	462 300 1297 100	E N	Skin & Fur	-	-	-	-
			Lung	-	-	-	-
			Bone	-	-	-	-
			Soft tissue	-	-	-	-
510	463 700 1298 200	E N	Skin & Fur	-	-	-	-
			Gut	-	-	-	-
			Lung	-	-	-	-
			Bone	-	-	-	-
			Soft tissue	-	-	-	-

APPENDIX V CONTINUED

Sample Number	Co-ordinates where taken	Tissue	Activity (nCi/kg dry tissue)			
			⁶⁰ Co	¹³⁷ Cs	¹⁵² Eu	²⁴¹ Am
511	467 600 E 1296 700 N	Skin & Fur	-	-	-	-
		Gut	0.02 ± 0.01	0.03 ± 0.01	0.03 ± 0.01	0.21 ± 0.01
		Lung	-	-	-	-
		Bone	-	-	-	-
		Foetus	0.04 ± 0.02	-	-	-
		Soft tissue	-	0.02 ± 0.01	-	-
512	478 000 E 1298 200 N	Skin & Fur	-	-	-	-
		Gut	-	0.01 ± 0.01	-	-
		Lung	-	-	-	-
		Bone	-	0.08 ± 0.06	-	-
		Soft tissue	-	-	-	-
514	Not Known	Skin & Fur	-	-	-	0.38 ± 0.02
		Gut	0.04 ± 0.01	-	0.02 ± 0.01	0.27 ± 0.01
		Lung	-	-	-	-
		Bone	-	-	-	-
		Soft tissue	0.02 ± 0.01	-	-	-
515	466 600 E 1298 000 N	Skin & Fur	-	-	-	-
		Gut	-	0.01 ± 0.01	-	-
		Lung	-	-	-	-
		Bone	-	-	-	-
		Foetus	-	-	-	-
		Soft tissue	-	-	-	-

- NOTE:**
1. All animal samples derived from individual rabbits taken during the Survey in August 1977.
 2. Radionuclides not detected indicated by dash(-).