SITE	Springfields				
SITE OWNER	Nuclear Decommissioning Authority				
WASTE CUSTODIAN	Springfields Fuels Limited				
	LLW				
Is the waste subject to	No				
Scottish Policy:					
WASTE VOLUMES		Reported			
Stocks:	At 1.4.2022	1000.0 m ³			
Future arisings -	1.4.2022 - 31.3.2025 1.4.2025 - 31.3.2030 1.4.2030 - 31.3.2040 1.4.2040 - 31.3.2050	~28000.0 m ³ ~28000.0 m ³ 28000.0 m ³ 15000.0 m ³			
Total future arisings:		99000.0 m ³			
Total waste volume:		100000.0 m ³			
Comment on volumes:	It is anticipated that waste disposals will be in line with plant operations and associated waste generation, and this usually occurs in the year of generation. It is the intention to continue with the policy of minimising arisings and pursuing processing routes to avoid generation of LLW. The radwaste disposals that Springfields make to the Clifton Marsh Landfill Site have changed with the issue to SITA (UK) Ltd (the site operator) of a new disposal authorisation to support the UK radwaste strategy. The activity concentrations limits within the new authorisation are higher within the scope of LLW than in previous authorisations. Uranium is the predominant disposal radionuclide in Springfields disposals to CMLFS; the site is authorised to accept material for disposal up to concentrations around the 200Bq/g level (0.2GBq/tonne). This clearly straddles the formally accepted definitions of VLLW and into the lower reaches of LLW. Springfields will continue to operate BAT principles in assessing the need to pre-treat any waste stream, hence the overall low				
Uncertainty factors on volumes:	Stock (upper):x 1.0Arisings (upper)x 1.25Stock (lower):x 0.1Arisings (lower)x 0.75				
WASTE SOURCE	Wastes are from the manufacture of nuclear fuel and uranium intermediates at Springfields and include general lightly contaminated wastes including plastics, clothing, rubble etc.				
PHYSICAL CHARACTERISTICS					
General description:	The RSA authorisation does not require subdivision of this general waste stream and hence no detailed information regarding composition is available. However, it is estimated that the waste stream includes general operational wastes contaminated with U, including scrap metal, plastics, glass, clothing. The waste has not undergone any change since it was generated.				
Physical components (%wt):	Plastics / rubber (30%), metal (9%), rubble/ concrete (30%), fabric (25%), putrescible (5%) and asbestos (building repairs) (1%).				
Sealed sources:	The waste does not contain sealed sources.				
Bulk density (t/m ³):	~0.25				

Comment on density: The density is that of the drummed waste in storage and is based on nuclear material inventory data and the type of containment.

CHEMICAL COMPOSITION

General description and components (%wt):	Plastics / rubber (30%), metal (9%), rubble/ concrete (30%), fabric (25%), putrescible (5%) and asbestos (building repairs) (1%).
Chemical state:	Neutral
Chemical form of radionuclides:	H-3: Not expected to be present. C-14: Not expected to be present. Cl-36: Not expected to be present. Se-79: Not expected to be present. Tc-99: Not expected to be present. I-129: Not expected to be present. Ra: Not expected to be present.

WASTE STREAM	2E90 Genera	al Waste	for Clifton Marsh Disposal		
	Th: Not expected to be present. U: Oxides of uranium. Np: Not expected to be present. Pu: Not expected to be present.				
Metals and alloys (%wt):	Amounts of metals within the waste stream have been estimated as detailed figures a currently unavailable.				
		(%wt)	Type(s) / Grade(s) with proportions	% of total C14 activity	
Stainless stee	9	~1.0	This is a varied waste stream so specific breakdown is not available	,	
Other ferrous	metals	~4.0			
Iron		~1.0			
Aluminium		<0.50			
Beryllium		0			
Cobalt		0			
Copper		<1.5			
Lead		<0.50			
Magnox/Magr	nesium	. 0			
Nickel		0			
Titanium		0			
Uranium		<0.02			
Zinc		<0.50			
Zircaloy/Zirco	nium	0			
Other metals.		0			

Organics (%wt):

It is noted that a detailed composition of this general waste stream is currently unavailable and therefore these figures have been estimated.

	(%wt)	Type(s) and comment	% of total C14 activity
Total cellulosics	~10.0	This is a varied waste stream so specific breakdown is not available	
Paper, cotton	~8.0		
Wood	~2.0		
Halogenated plastics	~10.0		
Total non-halogenated plastics	~10.0		
Condensation polymers	~5.0		
Others	~5.0		
Organic ion exchange materials	0		
Total rubber	~15.0		
Halogenated rubber	~15.0		
Non-halogenated rubber	0		
Hydrocarbons	~5.0		
Oil or grease	0		
Fuel	0		
Asphalt/Tarmac (cont.coal tar)	0		
Asphalt/Tarmac (no coal tar)	~5.0		
Bitumen	0		
Others	0		

2022 Inventory

WASTE STREAM 2E90 General Waste for Clifton Marsh Disposal					
Other organics	10.0				
Other materials (%wt): -					
	(%wt)	Type(s) and comment	% of total C14 activity		
Inorganic ion exchange materials		This is a varied waste stream so specific breakdown is not available			
Inorganic sludges and flocs					
Soil	6.0				
Brick/Stone/Rubble	10.0				
Cementitious material	8.0				
Sand					
Glass/Ceramics	6.0				
Graphite					
Desiccants/Catalysts					
Asbestos	~1.0	Mostly building fabric in sheet form some old lagging from process vessels and may be either Amosite, Chrysotile or Crocidolite, all will be consigned to a purpose built mono cell.			
Non/low friable	~1.0				
Moderately friable	0				
Highly friable	0				
Free aqueous liquids	0				
Free non-aqueous liquids	0				
Powder/Ash	0				
Inorganic anions (%wt): -					
	(%wt)	Type(s) and comment			
Fluoride					
Chloride					
lodide					
Cyanide					
Carbonate					
Nitrate					
Nitrite					
Phosphate					

Materials of interest for This is a varied waste stream so specific breakdown is not available waste acceptance criteria:

Sulphate.....

WASTE STREAM

2E90

General Waste for Clifton Marsh Disposal

Type(s) and comment

	(%wt)
Combustible metals	Ρ
Low flash point liquids	0
Explosive materials	0
Phosphorus	0
Hydrides	0
Biological etc. materials	0
Biodegradable materials	~5.0
Putrescible wastes	~5.0
Non-putrescible wastes	Р
Corrosive materials	0
Pyrophoric materials	0
Generating toxic gases	0
Reacting with water	0
Higher activity particles	0
Soluble solids as bulk chemical compounds	Ρ

Hazardous substances / Asbestos ~1%. non hazardous pollutants:

Acrylamide	0
Benzene	0
Chlorinated solvents	0
Formaldehyde	0
Organometallics	0
Phenol	0
Styrene	0
Tri-butyl phosphate	NE
Other organophosphates	0
Vinyl chloride	NE
Arsenic	0
Barium	0
Boron	0
Boron (in Boral)	0
Boron (non-Boral)	0
Cadmium	0
Caesium	0
Selenium	0
Chromium	NE
Molybdenum	0

This is a varied waste stream so specific breakdown is not available This is a varied waste stream so specific breakdown is not available

This is a varied waste stream so specific breakdown is not available

Type(s) and comment

(%wt)

This is a varied waste stream so specific breakdown is not available

2022 Inventory

M 2E90

Thallium	0
Tin	NE
Vanadium	NE
Mercury compounds	0
Others	NE
Electronic Electrical Equipment (EEE)	
EEE Type 1	0
EEE Type 2	0
EEE Type 3	0
EEE Type 4	0
EEE Type 5	0
Complexing agents (%wt): Not yet determined	

(%wt)

Type(s) and comment

EDTA
DPTA
NTA
Polycarboxylic acids
Other organic complexants
Total complexing agents
he waste to No.

Potential for the waste to contain discrete items:

TREATMENT, PACKAGING AND DISPOSAL

Planned on-site / off-site treatment(s):	Treatment	On-si Off s	te / site	Stream volume %	
	Low force compaction				
	Supercompaction (HFC)				
	Incineration				
	Solidification				
	Decontamination				
	Metal treatment				
	Size reduction				
	Decay storage				
	Recyling / reuse				
	Other / various				
	None		100.0		
Comment on planned treatments:	A lot of work goes on before material is classified classified no further segregation / treatment is app	into this w propriate.	aste strea	am, once it is	
Disposal Routes:	Disposal Route		Stream volume %	Disposal density t/m3	
	Expected to be consigned to the LLW Repository				
	Expected to be consigned to a Landfill Facility			~0.25	
	Expected to be consigned to an On-Site Disposa				
	Expected to be consigned to an Incineration Faci				
	Expected to be consigned to a Metal Treatment F	Expected to be consigned to a Metal Treatment Facility			
	Expected to be consigned as Out of Scope				

Expected to be recycled / reused Disposal route not known

WASTE STREAM

2E90

General Waste for Clifton Marsh Disposal

Classification codes for waste expected to be consigned to a landfill facility:

This waste stream consists of mixed municipal waste from plant operations (paper, plastic, polly, building and maintenance wastes.

Upcoming (2022/23-2024/25) Waste Routing (if expected to change from above):

Disposal Route	Stream volume %			
Disposal Route	2022/23	2023/24	2024/25	
Expected to be consigned to the LLW Repository Expected to be consigned to a Landfill Facility Expected to be consigned to an On-Site Disposal Facility Expected to be consigned to an Incineration Facility Expected to be consigned to a Metal Treatment Facility Expected to be consigned as Out of Scope Expected to be recycled / reused Disposal route not known				

Opportunities for alternative disposal routing: Not yet determined

Baseline Management Route M	Opportunity /anagement Route	Stream volume (%)	Estimated Date that Opportunity will be realised	Opportunity Confidence	Comment

Waste Packaging for Disposal: (Not applicable to this waste stream)

Container	Stream volume %	Waste loading m ³	Number of packages	
1/3 Height IP-1 ISO				
2/3 Height IP-2 ISO				
1/2 Height WAMAC IP-2 ISO				
1/2 Height IP-2 Disposal/Re-usable ISO				
2m box (no shielding)				
4m box (no shielding)				
Other (Skips / Drums)				

Other information:

Waste stream loaded into 14 and 33 M3 skips and 210L drums.

Waste Planned for Disposal at the LLW Repository: (Not applicable to this waste stream)

Container voidage:	
Waste Characterisation Form (WCH):	

Waste consigned for disposal to LLWR in year of generation:

Non-Containerised Waste for In-Vault Grouting: (Not applicable to this waste stream)

Stream volume (%):	-	
Waste stream variation:	-	
Bounding cuboidal volume:		
Inaccessible voidage:	-	
Other information:	-	

RADIOACTIVITY

Source:

The main source of activity is contamination by uranium and its daughters. The waste becomes contaminated from contact with intermediate uranium compounds during the fuel

WASTE STREAM	2E90 General Waste for Clifton Marsh Disposal
	manufacturing process.
Uncertainty:	Activities are estimated on the basis that site processes a mixture of natural and enriched material.
Definition of total alpha and total beta/gamma:	The waste stream is contaminated by coming in contact with Uranium and its intermediate products (oxides). The uranium is from a series of enrichments with a Site mean of 3.2%U235, it is assumed that the uranium is not irradiated therefore contains no reactor products and is aged to a point of equilibrium. This waste stream typically has an activity concentration of 25Bq/g therefore this is split equally between alpha and beta/ gamma activity.
Measurement of radioactivities:	by chemical analysis and direct monitoring
Other information:	A total activity is assumed in the Radionuclide tab based on the site generic fingerprint and has been assumed a 50:50 split between alpha and b/g.

WASTE STREAM 2E90 **General Waste for Clifton Marsh Disposal**

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N0 94 III 234 M0 93 Pa 231 Tc 97 Pa 233 Tc 99 U 232 Pd 107 U 232 Ag 108m U 234 Ag 108m U 235 Cd 109 U 238 Cd 113m Np 237 Sh 113m Pu 238 Sh 123 Pu 238 Sh 124 Pu 238 Sh 125 Pu 240 Sb 126 Pu 239 Te 127m Am 242m Ta 128 Cm 244 Cs 134 Cm 243 Cs 137 Cm 246 La 133 Cm 248 Cr 1249 Cm 248 Cr 1249 Ch 250 Pm 147 Cr 252 Sm 151 Other a Eu 152 Total bro 1.25E-05 AA 1 Pm 147 Cr 252 Sh 12	ND 93m					Th 232				
Imposition Pa 231 Te 97 Pa 233 Te 98 U 232 Ru 106 U 233 Pd 107 U 234 Ag 108m U 235 Ag 108m U 236 Cd 109 U 238 Cd 113m Np 237 Sn 121m Pu 238 Sn 121m Pu 238 Sn 123 Pu 239 Sn 126 Pu 240 Sb 125 Pu 241 Sb 126 Pu 242 Te 127m Am 241 Te 127m Am 243 Cs 134 Cm 242 Cs 134 Cm 243 Cs 137 Cm 246 La 138 Cm 248 Ce 144 Cf 225 Pm 145 Cf 251 Pm 147 Cf 251 Sm 151 Other b/g Fu 152 Total by 01 1.25E-05 AA 1 Eu 152 Total by 01 1.25E-05 BB 2	ND 94					In 234 Do 221				
To 97 U 233 Ru 106 U 233 Pd 107 U 234 Ag 108m U 235 Ag 1010m U 236 Cd 109 U 238 Cd 113m Np 237 Sn 119m Pu 236 Sn 121m Pu 238 Sn 123 Pu 239 Sn 124 Pu 230 Sh 125 Pu 240 Sh 126 Pu 240 Sh 126 Pu 241 Sh 126 Pu 242 Te 125m Am 241 Te 127m Am 243 Cs 134 Cm 242 Cs 135 Cm 243 Cs 137 Cm 243 Sh 133 Cm 244 La 137 Cm 248 Ce 144 Cf 250 Pm 145 Cf 250 Pm 147 Cf 251 Sm 151 Other b/g Eu 152 Other b/g Eu 154 Total a 1.25E-05 BB 2	Tc 97					Pa 231				
Ru 106 U 233 Pd 107 U 234 Ag 108m U 236 Cd 109 U 236 Cd 113m Np 237 Sn 121m Pu 238 Sn 121m Pu 238 Sn 122 Pu 239 Sh 126 Pu 240 Sb 126 Pu 241 Sb 126 Pu 242 Te 125m Am 241 Te 125m Am 242 Te 127m Am 243 Cs 134 Cm 242 Cs 135 Cm 242 Cs 135 Cm 243 Cs 137 Cm 246 La 137 Cm 248 Ca 144 Cf 250 Pm 145 Cf 250 Pm 147 Cf 250 Sm 151 Other 3 Eu 152 Total a 1.25E-05 BB 2	TC 97					Fa 233				
No.00 0.200 U.234 Aq 108m U.235 U.236 Aq 109 U.238 U.236 Cd 109 U.238 U.237 Sn 119m Pu.236 V.239 Sn 121m Pu.239 V.242 Sn 123 Pu.239 V.241 Sh 126 Pu.241 V.242 Te 125m Am 241 V.242 Te 125m Am 243 V.242 Ta 138 Cm 242 V.242 Cs 134 Cm 243 V.242 Cs 135 Cm 244 V.242 Ba 133 Cm 243 V.244 Pm 147 Cf 250 V.249 Pm 147 Cf 250 V.44 Sh 147 Cf 250 V.44 Pi	Ru 106					0 232				
Ag 108m U 235 Ag 109m U 236 Cd 109 U 238 Cd 113m Np 237 Sn 119m Pu 236 Sn 121m Pu 238 Sn 123 Pu 239 Sh 126 Pu 240 Sb 125 Pu 241 Sb 126 Pu 241 Te 127m Am 242n 1129 Am 242n I219 Am 243 Cs 134 Cm 243 Cs 135 Cm 244 Cs 137 Cm 246 Ba 133 Cm 248 Ce 144 Cf 250 Pm 143 Cf 251 Sm 151 Other a Eu 152 Total b/a 1,25E-05 AA 1 Eu 154 Total b/a 1,25E-05 AA 1 1,25E-05	Pd 107					11 234				
Name 0 236 V236 U238 V210 U238 V211m Pu236 Sn 121m Pu238 Sn 123 Pu239 Sn 126 Pu240 Sb 125 Pu241 Sb 126 Pu242 Te 125m Am 241 Te 127m Am 242m 1129 Am 243 Cs 134 Cm 242 Cs 135 Cm 243 Cs 137 Cm 246 La 138 Cm 248 Ce 144 Cf 220 Pm 145 Cf 251 Sm 151 Other a Eu 152 Other b/g Eu 155 Total b/g 1.25E-05 AA 1 1.25E-05 AA 1 1.25E-05 BB 2	Ag 108m					U 235				
Cd 109 U 238 U 238 Cd 113m Np 237 Sn 119m Pu 236 Sn 121 Pu 238 Sn 123 Pu 239 Sn 126 Pu 240 Sb 125 Pu 241 Sb 126 Pu 242 Te 125m Am 241 Te 125m Am 243 Cs 134 Cm 243 Cs 135 Cm 243 Cs 137 Cm 244 Ba 133 Cm 245 La 138 Cm 248 Ce 144 Cf 250 Pm 145 Cf 250 Pm 147 Cf 250 Sm 151 Other a Eu 152 Other b/g Eu 152 Total b/a	Ag 110m					U 236				
Cd 113m Np 237 Pu 236 Sn 121m Pu 238 Sn 123 Pu 239 Sn 126 Pu 240 Sb 125 Pu 240 Sb 126 Pu 241 Te 125m Am 241 Te 127m Am 243 Cs 134 Cm 242 Cs 134 Cm 243 Cs 135 Cm 244 Ba 133 Cm 246 La 137 Cm 246 La 138 Cm 246 Ce 144 Cf 250 Pm 147 Cf 251 Sm 151 Chter a Eu 152 Other b/g Eu 152 Total b/g 1,25E-05 AA 1 1,25E-05 BB 2	Cd 109					U 238				
Sn 119m Pu 236 Sn 121m Pu 238 Sn 123 Pu 239 Sn 126 Pu 240 Sb 125 Pu 241 Sb 126 Pu 242 Te 125m Am 241 Te 127m Am 242 1129 Am 243 Cs 134 Cm 242 Cs 135 Cm 243 Cs 137 Cm 244 Ba 133 Cm 246 La 137 Cm 246 La 137 Cm 246 Ce 144 Cf 249 Pm 147 Cf 251 Sm 147 Cf 251 Sm 151 Other a Eu 152 Other b/g Eu 155 Total bg 1.25E-05 AA 1 Total bg 1.25E-05 BB 2	Cd 113m					Np 237				
Sn 121m Pu 238 Pu 239 Sn 123 Pu 239 Sn 126 Pu 240 Sb 125 Pu 241 Sb 126 Pu 242 Te 125m Am 241 Te 127m Am 241 129 Am 243 Cs 134 Cm 242 Cs 134 Cm 243 Cs 133 Cm 244 Ba 133 Cm 245 La 137 Cm 246 La 138 Cm 248 Ce 144 Cf 250 Pm 147 Cf 250 Sm 151 Other a Eu 152 Other b/g Eu 155 Total b/g 1.25E-05 BB 2	Sn 119m					Pu 236				
Sn 123 Pu 239 Pu 240 Sh 126 Pu 240 Pu 241 Sb 125 Pu 241 Pu 241 Sh 126 Pu 241 Pu 241 Te 125m Am 241 Am 241 Te 127m Am 242m Am 243 129 Am 243 Am 243 Cs 134 Cm 242 Am 243 Cs 135 Cm 243 Am 241 Sh 126 Cm 243 Am 243 Cs 137 Cm 243 Am 243 Ba 133 Cm 244 Am 245 La 137 Cm 246 Am 246 Ce 144 Cf 249 Am 248 Pm 145 Cf 250 Am 248 Pm 147 Cf 250 Am 248 Sm 151 Cf 252 Am 1 Sm 151 Cf 252 Am 1 Sm 151 Chter 3g Am 1 Eu 152 Total b/g Image 1 Sm 154 Image 1 Image 1 Eu 152 Fotal b/g Image 1 Eu 155 Total b/g Image 1 Image 1 Image 1 Imag	Sn 121m					Pu 238				
Sn 126 Pu 240 Pu 241 Sb 125 Pu 241 Pu 241 Sb 126 Pu 242 Pu 242 Te 125m Am 241 Am 241 Te 127m Am 242m Am 243 1129 Am 243 Cm 242 Cs 134 Cm 243 Cm 243 Cs 135 Cm 244 Am 245 Cs 137 Cm 244 Am 245 Ba 133 Cm 244 Am 245 La 137 Cm 246 Am 246 La 138 Cm 246 Am 247 Pm 145 Cf 249 Am 248 Pm 145 Cf 250 Am 248 Sm 147 Cf 252 Am 245 Sm 151 Other a Am 245 Eu 152 Total a 1.25E-05 AA 1 Lu 52 Fotal b/g Fotal b/g Fotal b/g	Sn 123					Pu 239				
Sb 125 Pu 241 Sb 126 Pu 242 Te 125m Am 241 Te 127m Am 242m 1129 Am 243 Cs 134 Cm 242 Cs 135 Cm 243 Cs 137 Cm 244 Ba 133 Cm 244 La 137 Cm 246 La 138 Cm 248 Ce 144 Cf 249 Pm 145 Cf 250 Pm 147 Cf 251 Sm 147 Cf 252 Sm 151 Other a/g Eu 152 Total a 1.25E-05 BB 2 Eu 155 Fotal b/g 1.25E-05 BB 2	Sn 126					Pu 240				
Sb 126 Pu 242 Te 125m Am 241 Te 127m Am 242m I 129 Am 243 Cs 134 Cm 242 Cs 135 Cm 242 Cs 137 Cm 243 Ba 133 Cm 244 La 137 Cm 245 La 138 Cm 248 Ce 144 Cf 249 Pm 145 Cf 250 Pm 147 Cf 250 Sm 147 Cf 251 Sm 151 Other a Eu 152 Total b/g Eu 155 Total b/g	Sb 125					Pu 241				
Te 125m Am 241 Te 127m Am 242m 1129 Am 243 Cs 134 Cm 243 Cs 135 Cm 243 Cs 137 Cm 243 Ba 133 Cm 244 Ba 133 Cm 245 La 137 Cm 246 La 138 Cm 248 Ce 144 Cf 249 Pm 145 Cf 250 Pm 147 Cf 251 Sm 151 Other a Eu 152 Other b/g Eu 154 Total a Eu 155 BB 2	Sb 126					Pu 242				
Te 127m Am 242m I 129 Am 243 Cs 134 Cm 242 Cs 135 Cm 243 Cs 137 Cm 243 Ba 133 Cm 244 Ba 133 Cm 245 La 137 Cm 246 La 138 Cm 248 Ce 144 Cf 249 Pm 145 Cf 250 Pm 147 Cf 252 Sm 147 Cf 252 Sm 151 Other a Eu 152 Other b/g Eu 154 Total a 1.25E-05 AA 1 Eu 155 BB 2	Te 125m					Am 241				
I 129 Am 243 Cs 134 Cm 242 Cs 135 Cm 243 Cs 137 Cm 243 Ba 133 Cm 244 Ba 133 Cm 245 La 137 Cm 246 La 138 Cm 248 Ce 144 Cf 249 Pm 145 Cf 250 Pm 147 Cf 252 Sm 147 Cf 252 Sm 151 Other a Eu 152 Other b/g Eu 154 Total a 1.25E-05 AA 1 Eu 155 BB 2	Te 127m					Am 242m				
Cs 134 Cm 242 Cs 135 Cm 243 Cs 137 Cm 243 Ba 133 Cm 244 Ba 133 Cm 245 La 137 Cm 246 La 138 Cm 248 Ce 144 Cf 249 Pm 145 Cf 250 Pm 147 Cf 251 Sm 147 Cf 252 Sm 151 Other a Eu 152 Total a 1.25E-05 AA 1 Eu 154 Total a/2 1.25E-05 BB 2	l 129					Am 243				
Cs 135 Cm 243 Cs 137 Cm 244 Ba 133 Cm 245 La 137 Cm 246 La 138 Cm 248 Ce 144 Cf 249 Pm 145 Cf 250 Pm 147 Cf 252 Sm 147 Cf 252 Sm 151 Other a Eu 152 Total a 1.25E-05 AA 1 Eu 154 Total b/g 1.25E-05 BB 2	Cs 134					Cm 242				
Cs 137 Cm 244 Ba 133 Cm 245 La 137 Cm 246 La 138 Cm 248 Ce 144 Cf 249 Pm 145 Cf 250 Pm 147 Cf 251 Sm 147 Cf 252 Sm 151 Other a Eu 152 Other b/g Eu 154 Total a 1.25E-05 AA 1 Eu 155 Total b/g 1.25E-05 BB 2	Cs 135					Cm 243				
Ba 133 Cm 245 La 137 Cm 246 La 138 Cm 248 Ce 144 Cf 249 Pm 145 Cf 250 Pm 147 Cf 251 Sm 147 Cf 252 Sm 151 Other a Eu 152 Other b/g Eu 154 Total a 1.25E-05 AA 1 Eu 155 Total b/g 1.25E-05 BB 2	Cs 137					Cm 244				
La 137 Cm 246 La 138 Cm 248 Ce 144 Cf 249 Pm 145 Cf 250 Pm 147 Cf 251 Sm 147 Cf 252 Sm 151 Other a Eu 152 Other b/g Eu 154 Total a 1.25E-05 AA 1 Eu 155 Total b/g 1.25E-05 BB 2	Ba 133					Cm 245				
La 138 Cm 248 Cm 248 Ce 144 Cf 249 Image: Cm 248 Pm 145 Cf 249 Image: Cm 248 Pm 145 Cf 250 Image: Cm 248 Pm 147 Cf 250 Image: Cm 248 Sm 147 Cf 251 Image: Cm 248 Sm 147 Cf 252 Image: Cm 248 Sm 151 Other a Image: Cm 248 Eu 152 Other b/g Image: Cm 248 Eu 154 Total a 1.25E-05 AA 1 Eu 155 Total b/g 1.25E-05 BB 2	La 137					Cm 246				
Ctr 144 Ctr 249 Ctr 249 Pm 145 Cf 250 Pm 147 Cf 251 Sm 147 Cf 252 Sm 151 Other a Eu 152 Other b/g Eu 154 Total a 1.25E-05 AA 1 Eu 155 Total b/g 1.25E-05 B B 2	La 138					Cf 248				
Pm 143 Cf 250 Pm 147 Cf 251 Sm 147 Cf 252 Sm 151 Other a Eu 152 Other b/g Eu 154 Total a 1.25E-05 A A 1 Eu 155 Total b/g 1.25E-05 B B 2	Ce 144					Cf 250				
Sm 147 Cf 252 Sm 147 Other a Eu 152 Other b/g Eu 154 Total a 1.25E-05 A A 1 1.25E-05 B B 2 Eu 155 Total b/g 1.25E-05 A A 1 1.25E-05 B B 2	Pm 143					Cf 251				
Sm 151 Other a Eu 152 Other b/g Eu 154 Total a 1.25E-05 A A 1 1.25E-05 B B 2 Eu 155 Total b/g 1.25E-05 A A 1 1.25E-05 B B 2	Sm 147					Cf 252				
Eu 152 Other b/g Eu 154 Total a Eu 155 Total b/g	Sm 151					Other a				
Eu 152 Total a 1.25E-05 AA 1 1.25E-05 BB 2 Eu 155 Total b/g 1.25E-05 AA 1 1.25E-05 BB 2	Eu 152					Other b/a				
Eu 155 Total b/g 1.25E-05 AA 1 1.25E-05 B B 2	Eu 154			1		Total a	1.25E-05	ΔΔ 1	1.25E-05	BB 2
	Eu 155					Total b/g	1.25E-05	AA 1	1.25E-05	BB 2

Bands (Upper and Lower)

A a factor of 1.5 B a factor of 3 C a factor of 10 D a factor of 100 E a factor of 1000

Note: Bands quantify uncertainty in mean radioactivity.

Code

1 Measured activity 2 Derived activity (best estimate) 3 Derived activity (upper limit)

4 Not present

5 Present but not significant 6 Likely to be present but not assessed 7 Present in significant quantities but not determined

8 Not expected to be present in significant quantity