```
*************************************************************************
*****        G A M M A   S P E C T R U M   A N A L Y S I S        *****
*************************************************************************


Filename: ERT01,C:\GENIE2K\CAMFILES\SMP-NFB-WAREHOUSE-BAG NO.6.CNF

Report Generated On              : 7/18/2017   9:55:52 PM

Sample Title                     : NFB-WAREHOUSE-BAG NO.6
Sample Description               : 450 cc Soil
Sample Identification            :
Sample Type                      :
Sample Geometry                  :

Peak Locate Threshold            :  3.00
Peak Locate Range (in channels)  :   100 -  8192
Peak Area Range (in channels)    :   100 -  8192
Identification Energy Tolerance  :    1.000 keV

Sample Size                      :  8.739E+002 GWET

Sample Taken On                  : 12/7/2016  12:00:00 PM
Acquisition Started              : 7/18/2017   7:55:41 PM

Live Time                        :     7200.0 seconds
Real Time                        :     7209.4 seconds

Dead Time                        :   0.13 %


          Energy Calibration Used Done On       : 5/10/2017
          Efficiency Calibration Used Done On   : 12/14/2016
          Efficiency ID                         : ERT0101
```

****
***** P E A K A N A L Y S I S R E P O R T *****
****

Detector Name: ERT01
Sample Title: NFB-WAREHOUSE-BAG NO.6
Peak Analysis Performed on: 7/18/2017 9:55:52 PM
Peak Analysis From Channel: 100
Peak Analysis To Channel: 8192

	Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
	1	249-	258	254.05	63.38	0.80	1.70E+002	84.32	3.06E+003
M	2	294-	317	300.14	74.90	0.97	2.06E+003	72.34	4.72E+003
m	3	294-	317	309.20	77.16	0.97	3.48E+003	83.71	4.83E+003
M	4	330-	379	337.48	84.23	1.31	7.26E+002	65.08	5.66E+003
m	5	330-	379	349.47	87.22	1.32	1.84E+003	75.36	6.00E+003
m	6	330-	379	360.60	90.01	1.32	1.13E+003	68.17	5.99E+003
m	7	330-	379	372.61	93.01	1.32	1.79E+003	76.42	5.63E+003
	8	509-	527	517.18	129.14	0.93	7.08E+002	155.41	6.93E+003
	9	739-	756	744.75	186.01	1.15	1.85E+003	137.12	5.16E+003
	10	831-	845	837.57	209.21	1.04	1.19E+003	110.35	3.82E+003
M	11	949-	982	955.08	238.58	1.11	1.45E+004	130.42	2.73E+003
m	12	949-	982	967.21	241.61	1.11	2.47E+003	62.71	2.35E+003
	13	1070-	1093	1081.48	270.17	1.51	1.46E+003	119.77	3.22E+003
	14	1102-	1120	1110.27	277.36	1.06	5.23E+002	98.41	2.71E+003
	15	1148-	1161	1153.07	288.06	0.75	7.18E+001	70.00	1.75E+003
	16	1175-	1189	1181.27	295.11	1.11	4.20E+003	97.88	1.86E+003
	17	1195-	1212	1200.96	300.03	1.16	9.44E+002	88.01	2.07E+003
	18	1306-	1322	1312.31	327.86	1.26	7.90E+002	82.09	1.88E+003
	19	1347-	1361	1353.70	338.20	1.21	3.01E+003	87.21	1.59E+003
	20	1400-	1422	1408.06	351.79	1.17	7.42E+003	123.78	1.97E+003
	21	1630-	1647	1638.21	409.31	1.00	5.22E+002	69.59	1.33E+003
	22	1846-	1862	1852.33	462.82	1.40	9.62E+002	62.90	9.43E+002
	23	2027-	2060	2043.26	510.54	1.41	2.48E+003	104.53	1.61E+003
M	24	2225-	2257	2229.46	557.07	1.22	2.80E+001	8.53	5.45E+002
m	25	2225-	2257	2250.37	562.30	1.22	2.11E+002	13.61	6.42E+002
	26	2317-	2346	2333.09	582.97	1.32	5.85E+003	109.12	1.27E+003
	27	2428-	2448	2437.54	609.07	1.38	6.16E+003	95.58	8.15E+002
M	28	2471-	2497	2482.49	620.31	0.36	1.92E+001	2.59	1.71E+002
m	29	2471-	2497	2492.25	622.75	0.36	2.86E+001	2.79	1.78E+002
M	30	2643-	2671	2647.68	661.59	1.50	7.47E+001	21.03	4.80E+002
m	31	2643-	2671	2661.78	665.12	1.51	1.94E+002	26.74	6.46E+002
	32	2901-	2921	2909.60	727.05	1.39	1.35E+003	60.77	6.37E+002
	33	3012-	3027	3021.94	755.13	1.17	1.85E+002	38.21	4.24E+002
M	34	3062-	3098	3074.34	768.22	1.54	5.86E+002	32.20	5.21E+002
m	35	3062-	3098	3089.93	772.12	1.55	2.78E+002	23.82	4.22E+002
M	36	3123-	3152	3129.48	782.00	1.51	8.57E+001	18.47	3.57E+002
m	37	3123-	3152	3143.68	785.55	1.51	3.16E+002	25.94	4.18E+002
	38	3169-	3192	3180.28	794.70	1.46	8.19E+002	50.61	4.36E+002
	39	3218-	3234	3225.46	805.99	1.06	9.50E+001	35.90	3.81E+002
M	40	3317-	3375	3323.36	830.46	1.75	6.67E+001	18.83	3.73E+002
m	41	3317-	3375	3343.58	835.51	1.75	3.17E+002	25.15	4.30E+002
m	42	3317-	3375	3360.95	839.85	1.76	2.47E+002	22.61	3.72E+002

	Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
	43	3432-	3454	3442.86	860.32	1.44	7.86E+002	47.51	3.80E+002
	44	3610-	3626	3617.17	903.89	1.47	6.14E+001	32.62	3.21E+002
	45	3634-	3657	3645.71	911.02	1.51	4.27E+003	75.85	3.71E+002
	46	3726-	3747	3737.30	933.91	1.25	3.75E+002	38.99	3.05E+002
M	47	3847-	3889	3859.98	964.57	1.60	8.72E+002	32.50	2.31E+002
m	48	3847-	3889	3876.87	968.79	1.60	2.50E+003	52.32	2.48E+002
	49	3994-	4014	4004.71	1000.74	1.51	1.77E+002	30.25	2.03E+002
	50	4308-	4326	4316.04	1078.55	1.65	6.96E+001	26.37	1.82E+002
	51	4369-	4381	4375.79	1093.48	0.67	2.81E+001	19.21	1.30E+002
	52	4471-	4494	4482.96	1120.26	1.52	1.38E+003	49.34	2.63E+002
	53	4611-	4630	4622.92	1155.24	1.28	1.47E+002	30.13	2.17E+002
	54	4940-	4966	4955.05	1238.25	1.64	5.08E+002	39.90	2.48E+002
	55	4984-	4999	4991.20	1247.28	0.69	4.38E+001	23.66	1.70E+002
	56	5119-	5135	5127.14	1281.26	1.19	9.44E+001	25.87	1.84E+002
	57	5504-	5527	5514.06	1377.96	1.60	3.60E+002	34.71	2.11E+002
M	58	5605-	5645	5610.55	1402.07	1.85	7.83E+001	14.22	1.45E+002
m	59	5605-	5645	5635.30	1408.26	1.85	2.17E+002	18.56	1.39E+002
	60	5826-	5860	5846.93	1461.15	1.91	1.05E+003	48.74	2.44E+002
M	61	5977-	6015	5987.39	1496.25	1.70	6.12E+001	11.75	1.61E+002
m	62	5977-	6015	6008.70	1501.58	1.71	4.72E+001	11.03	1.51E+002
M	63	6032-	6064	6040.78	1509.59	1.40	1.51E+002	16.45	1.40E+002
m	64	6032-	6064	6055.83	1513.36	1.40	2.98E+001	10.65	1.40E+002
	65	6319-	6333	6326.76	1581.07	0.65	2.40E+001	21.47	1.43E+002
M	66	6347-	6389	6357.77	1588.82	2.09	4.14E+002	22.83	1.18E+002
m	67	6347-	6389	6375.43	1593.23	2.09	2.20E+002	17.50	1.16E+002
	68	6478-	6496	6488.00	1621.36	1.79	2.07E+002	22.80	9.26E+001
	69	6517-	6537	6527.63	1631.27	1.97	1.79E+002	23.26	9.98E+001
	70	6913-	6935	6924.26	1730.39	1.90	3.08E+002	23.73	6.58E+001
	71	7050-	7077	7064.28	1765.39	1.88	1.26E+003	40.98	9.38E+001
	72	7384-	7409	7396.50	1848.41	0.99	1.90E+002	20.93	5.85E+001

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

****
***** N U C L I D E M D A R E P O R T *****
****

Detector Name: ERT01
Sample Geometry:
Sample Title: NFB-WAREHOUSE-BAG NO.6
Nuclide Library Used: C:\GENIE2K\CAMFILES\ERT_LIBRARY_LMDA.NLB

	Nuclide Name	Energy (keV)	Yield (%)	Line MDA (pCi/GWET)	Nuclide MDA (pCi/GWET)	Activity (pCi/GWET)
+	K-40	1460.82*	10.55	1.2417E+000	1.24E+000	7.3983E+000
	Co-60	1173.23	99.85	1.0455E-001	1.05E-001	-3.0851E-002
		1332.49	99.98	1.0772E-001		-2.4990E-002
>		2505.71	0.10	0.0000E+000		0.0000E+000
+	Cs-137	32.06	5.54	8.5870E+003	7.29E-002	4.4845E+003
		661.66*	84.99	7.2883E-002		3.7056E-002
+	Tl-208	72.80	2.02	1.8491E+001	2.07E-001	-1.7724E+000
		74.97*	3.41	6.3620E+000		2.8793E+001
		84.90*	1.51	1.1728E+001		1.7126E+001
		277.36*	6.31	2.2800E+000		2.6621E+000
		510.77*	22.60	8.5486E-001		4.5362E+000
		583.19*	84.50	2.0714E-001		3.3127E+000
		763.13	1.81	8.7569E+000		1.3119E+000
		860.56*	12.42	9.1180E-001		3.9576E+000
+	Bi-212	39.86	1.06	1.9304E+003	1.87E+000	2.5611E+002
		727.33*	6.74	1.8669E+000		1.1112E+001
		785.37*	1.11	7.2207E+000		1.6626E+001
		1620.74*	1.51	5.6268E+000		1.3748E+001
		1806.00	0.09	1.1580E+002		4.0846E+001
+	Pb-212	74.81*	10.40	2.0860E+000	2.38E-001	9.4408E+000
		77.11*	17.50	1.1519E+000		8.7162E+000
		87.30*	7.81	2.1821E+000		7.8305E+000
		115.18	0.59	2.6187E+001		1.6860E+001
		238.63*	43.30	2.3762E-001		9.8862E+000
		300.09*	3.28	3.9441E+000		9.6347E+000
+	Bi-214	76.86*	0.43	3.7919E+001	2.22E-001	2.8693E+002
		89.81*	0.24	5.2999E+001		1.1654E+002
		386.77	0.30	3.6558E+001		6.4547E-001
		454.77	0.29	3.6819E+001		5.3362E-001
		609.31*	45.49	2.2219E-001		5.3451E+000
		665.45*	1.53	4.6321E+000		5.2884E+000
		703.11	0.48	2.3222E+001		1.8662E+001
		719.86	0.39	2.7669E+001		-5.4889E+000
		768.36*	4.89	1.4389E+000		5.5169E+000
		786.10*	0.31	2.0719E+001		4.7705E+001
		806.17*	1.26	6.1788E+000		3.5933E+000
		934.06*	3.10	2.7581E+000		6.4624E+000
		964.08*	0.36	1.5493E+001		1.3164E+002
		1051.96	0.31	2.8143E+001		5.5309E+000
		1120.29*	14.91	6.3736E-001		5.7325E+000

	Nuclide Name	Energy (keV)	Yield (%)	Line MDA (pCi/GWET)	Nuclide MDA (pCi/GWET)	Activity (pCi/GWET)
+	Bi-214	1133.66	0.25	3.7681E+001	2.22E-001	1.3388E+000
		1155.19*	1.63	5.0817E+000		5.6840E+000
		1207.68	0.45	2.2855E+001		1.9858E+001
		1238.11*	5.79	1.8042E+000		5.8802E+000
		1280.96*	1.43	5.4955E+000		4.5407E+000
		1377.67*	4.00	2.5020E+000		6.5291E+000
		1385.31	0.76	1.4846E+001		1.2030E+001
		1401.50*	1.27	4.7423E+000		4.5347E+000
		1407.98*	2.15	2.7494E+000		7.4377E+000
		1509.23*	2.11	2.9389E+000		5.5331E+000
		1538.50	0.38	2.8552E+001		2.1311E+001
		1543.32	0.20	5.2031E+001		2.1012E+001
		1583.22	0.69	2.2093E+001		1.2415E+001
		1594.73	0.25	6.4563E+001		4.2208E+000
		1599.31	0.23	5.2454E+001		5.5018E+000
		1661.28	1.15	8.5745E+000		9.9341E+000
		1683.99	0.22	4.0848E+001		-7.9881E+000
		1729.59*	2.92	2.1723E+000		8.6973E+000
		1764.49*	15.40	5.3268E-001		6.7558E+000
		1847.42*	2.11	3.0240E+000		7.5352E+000
		1873.16	0.22	3.9511E+001		-1.4891E+000
>		2118.55	1.14	0.0000E+000		0.0000E+000
>		2204.21	5.08	0.0000E+000		0.0000E+000
+	Pb-214	53.28	1.20	8.3755E+001	3.23E-001	-2.7238E+001
		74.81*	6.44	2.6995E+000		1.2217E+001
		77.11*	10.80	1.4957E+000		1.1318E+001
		87.30*	4.84	2.8216E+000		1.0126E+001
		242.00*	7.43	1.0346E+000		7.9438E+000
		258.87	0.52	2.1941E+001		7.7001E+000
		274.80	0.47	2.6616E+001		-7.2486E-001
		295.22*	19.30	4.7415E-001		5.7851E+000
		351.93*	37.60	3.2318E-001		5.7513E+000
		462.00*	0.22	3.9202E+001		1.4671E+002
		533.66	0.19	5.6651E+001		2.3933E+001
		785.96*	1.07	6.0026E+000		1.3821E+001
		839.04*	0.59	1.0853E+001		2.0707E+001
+	Ra-224	81.07	0.13	1.8843E+002	2.34E+000	1.6754E+001
		83.78*	0.22	8.1611E+001		1.1917E+002
		240.99*	4.10	2.3397E+000		1.7964E+001
+	Ra-226	81.07	0.20	1.0041E+002	3.56E+000	8.9277E+000
		83.78*	0.33	4.3267E+001		6.3180E+001
		94.90	0.15	1.0585E+002		-5.3943E+001
		186.21*	3.59	3.5591E+000		1.0539E+001
+	Ac-228	99.50	1.26	1.3391E+001	4.55E-001	3.1712E+000
		129.07*	2.50	6.8734E+000		6.8051E+000
		209.25*	3.97	3.4175E+000		8.2638E+000
		270.24*	3.55	4.7315E+000		1.3065E+001
		328.00*	3.04	4.1720E+000		9.1179E+000
		338.32*	11.40	9.9500E-001		9.4114E+000
		409.46*	2.02	6.0166E+000		1.0177E+001

	Nuclide Name	Energy (keV)	Yield (%)	Line MDA (pCi/GWET)	Nuclide MDA (pCi/GWET)	Activity (pCi/GWET)
+	Ac-228	463.00*	4.45	2.4292E+000	4.55E-001	9.0908E+000
		755.31*	1.03	9.3057E+000		1.0177E+001
		772.29*	1.52	5.2300E+000		1.0535E+001
		794.94*	4.31	2.6914E+000		1.1203E+001
		835.70*	1.70	5.0056E+000		1.1410E+001
		911.20*	26.20	4.5464E-001		1.0650E+001
		964.79*	4.99	1.4062E+000		1.1949E+001
		968.96*	15.90	4.5834E-001		1.0779E+001
		1588.20*	3.06	2.3978E+000		1.3415E+001
		1630.62*	1.52	6.0160E+000		1.1833E+001
	Th-228	84.37*	1.26	1.4055E+001	1.41E+001	2.0524E+001
		131.61	0.13	1.2863E+002		3.0039E+001
		166.41	0.10	1.4847E+002		-4.1163E+000
		215.98	0.25	6.3405E+001		-5.1843E+000
	Pa-234m	258.23	0.07	1.5661E+002	1.15E+001	9.9740E+001
		742.81	0.09	1.1535E+002		-2.0948E+001
		766.36	0.32	4.2106E+001		5.0017E+000
		786.27	0.05	2.1619E+002		-2.2664E+001
		1001.03	0.85	1.1516E+001		1.3738E+001
		1737.77	0.02	4.7526E+002		-3.4425E+001
+	Th-234	63.30*	3.75	7.5304E+000	2.77E+000	2.6154E+000
		92.59*	4.33	2.7678E+000		9.4912E+000
		112.81	0.22	5.8344E+001		-8.4002E+000

+ = Nuclide identified during the nuclide identification
* = Energy line found in the spectrum
> = Calculated MDA is zero due to zero counts in the region, or the region is outside the spectrum, or has not been calculated
@ = Half-life too short to be able to perform the decay correction

****
***** N U C L I D E I D E N T I F I C A T I O N R E P O R T *****
****

Sample Title: NFB-WAREHOUSE-BAG NO.6
Nuclide Library Used: C:\GENIE2K\CAMFILES\ERT_LIBRARY_LMDA.NLB

..... IDENTIFIED NUCLIDES .....

Nuclide Name	Id Confidence	Energy (keV)	Yield (%)	Activity (pCi/GWET)	Activity Uncertainty
K-40	0.983	1460.82*	10.55	7.39833E+000	4.02939E-001
Mn-54	0.928	834.84*	99.97	2.55287E-001	2.11018E-002
Cs-137	0.997	32.06 @	5.54		
		661.66*	84.99	3.70555E-002	1.04864E-002
Eu-152m	0.996	89.85*	69.90	4.19648E-001	2.79467E-002
Tm-170	0.985	84.25*	2.48	2.80566E+001	2.82770E+000
Tl-208	0.949	72.80 @	2.02		
		74.97* @	3.41	2.87929E+001	1.33402E+000
		84.90* @	1.51	1.71258E+001	1.60732E+000
		277.36*	6.31	2.66206E+000	5.09760E-001
		510.77* @	22.60	4.53625E+000	2.51538E-001
		583.19*	84.50	3.31274E+000	1.20352E-001
		763.13 @	1.81		
		860.56*	12.42	3.95761E+000	2.58008E-001
TL-208e	0.925	1592.53*	99.16	2.19797E-001	2.20969E-002
Bi-211	0.912	351.03*	13.00	1.69569E+001	6.74264E-001
Bi-212	0.949	39.86 @	1.06		
		727.33*	6.74	1.11124E+001	6.06900E-001
		785.37*	1.11	1.66257E+001	1.43112E+000
		1620.74*	1.51	1.37478E+001	1.57782E+000
		1806.00 @	0.09		
Pb-212	0.985	74.81*	10.40	9.44075E+000	5.15255E-001
		77.11*	17.50	8.71620E+000	4.16100E-001
		87.30*	7.81	7.83055E+000	4.59155E-001
		115.18 @	0.59		
		238.63*	43.30	9.88618E+000	3.37284E-001
		300.09*	3.28	9.63465E+000	9.55777E-001
Bi-214	0.895	76.86* @	0.43	2.86933E+002	1.40388E+001
		89.81* @	0.24	1.16544E+002	8.81571E+000
		386.77 @	0.30		
		454.77 @	0.29		
		609.31*	45.49	5.34513E+000	1.78229E-001
		665.45* @	1.53	5.28844E+000	7.43873E-001
		703.11 @	0.48		
		719.86 @	0.39		
		768.36*	4.89	5.51692E+000	3.32540E-001
		786.10* @	0.31	4.77053E+001	8.71099E+000
		806.17* @	1.26	3.59326E+000	1.36052E+000
		934.06*	3.10	6.46239E+000	6.88088E-001
		964.08* @	0.36	1.31644E+002	7.21759E+000
		1051.96 @	0.31		

Nuclide Name	Id Confidence	Energy (keV)		Yield (%)	Activity (pCi/GWET)	Activity Uncertainty
Bi-214	0.895	1120.29*		14.91	5.73247E+000	2.47618E-001
		1133.66	@	0.25		
		1155.19*	@	1.63	5.68400E+000	1.17724E+000
		1207.68	@	0.45		
		1238.11*		5.79	5.88025E+000	4.91721E-001
		1280.96*	@	1.43	4.54066E+000	1.25176E+000
		1377.67*		4.00	6.52912E+000	6.58323E-001
		1385.31	@	0.76		
		1401.50*	@	1.27	4.53466E+000	8.33992E-001
		1407.98*	@	2.15	7.43767E+000	6.85560E-001
		1509.23*	@	2.11	5.53309E+000	6.26045E-001
		1538.50	@	0.38		
		1543.32	@	0.20		
		1583.22	@	0.69		
		1594.73	@	0.25		
		1599.31	@	0.23		
		1661.28	@	1.15		
		1683.99	@	0.22		
		1729.59*	@	2.92	8.69729E+000	7.30363E-001
		1764.49*		15.40	6.75578E+000	3.24454E-001
		1847.42*	@	2.11	7.53518E+000	8.90042E-001
		1873.16	@	0.22		
		2118.55	@	1.14		
		2204.21	@	5.08		
Pb-214	0.964	53.28	@	1.20		
		74.81*		6.44	1.22174E+001	6.92191E-001
		77.11*		10.80	1.13179E+001	6.02552E-001
		87.30*		4.84	1.01256E+001	6.23911E-001
		242.00*		7.43	7.94378E+000	3.43099E-001
		258.87	@	0.52		
		274.80	@	0.47		
		295.22*		19.30	5.78513E+000	2.38754E-001
		351.93*		37.60	5.75127E+000	2.21307E-001
		462.00*	@	0.22	1.46707E+002	1.22775E+001
		533.66	@	0.19		
		785.96*	@	1.07	1.38211E+001	1.57089E+000
		839.04*	@	0.59	2.07075E+001	1.98702E+000
Ra-224	0.901	81.07	@	0.13		
		83.78*	@	0.22	1.19171E+002	1.20165E+001
		240.99*		4.10	1.79642E+001	7.61101E-001
Ra-226	0.876	81.07	@	0.20		
		83.78*	@	0.33	6.31800E+001	6.36424E+000
		94.90	@	0.15		
		186.21*		3.59	1.05391E+001	8.77492E-001
Ac-228	0.963	99.50	@	1.26		
		129.07*	@	2.50	6.80507E+000	1.51527E+000
		209.25*		3.97	8.26382E+000	8.54096E-001
		270.24*		3.55	1.30652E+001	1.20532E+000
		328.00*		3.04	9.11790E+000	1.04711E+000
		338.32*		11.40	9.41141E+000	5.28470E-001

Nuclide Name	Id Confidence	Energy (keV)		Yield (%)	Activity (pCi/GWET)	Activity Uncertainty
Ac-228	0.963	409.46*	@	2.02	1.01766E+001	1.43131E+000
		463.00*		4.45	9.09079E+000	8.25909E-001
		755.31*	@	1.03	1.01774E+001	2.15836E+000
		772.29*	@	1.52	1.05353E+001	1.02797E+000
		794.94*		4.31	1.12030E+001	8.26739E-001
		835.70*	@	1.70	1.14097E+001	1.05366E+000
		911.20*		26.20	1.06501E+001	4.47756E-001
		964.79*		4.99	1.19489E+001	6.62468E-001
		968.96*		15.90	1.07793E+001	4.76229E-001
		1588.20*		3.06	1.34150E+001	9.70532E-001
		1630.62*	@	1.52	1.18330E+001	1.63533E+000
Th-234	0.929	63.30*		3.75	2.61544E+000	1.62662E+000
		92.59*		4.33	9.49122E+000	6.42756E-001
		112.81	@	0.22		

* = Energy line found in the spectrum.
@ = Energy line not used for Weighted Mean Activity
Energy Tolerance : 1.000 keV
Nuclide confidence index threshold = 0.45
Errors quoted at 1.000 sigma

****
***** I N T E R F E R E N C E C O R R E C T E D R E P O R T *****
****

	Nuclide Name		Nuclide Id Confidence	Wt mean Activity (pCi/GWET)	Wt mean Activity Uncertainty
	K-40		0.983	7.398326E+000	4.029395E-001
	Mn-54		0.928	2.030013E-002	2.141248E-002
X	Cd-109		0.899		
	Cs-137	@	0.997	3.705554E-002	1.048639E-002
	Eu-152m		0.996	3.990142E-001	2.771667E-002
	Tm-170		0.985	1.592319E+001	2.675543E+000
	Tl-208	@	0.949	3.362984E+000	1.040260E-001
	TL-208e		0.925	2.197972E-001	2.209690E-002
	Bi-211		0.912	4.300135E+000	8.731571E-001
	Bi-212	@	0.949	1.118286E+001	5.044159E-001
	Pb-212	@	0.985	6.596167E+000	2.070452E-001
	Bi-214	@	0.895	5.730327E+000	1.143667E-001
	Pb-214	@	0.964	4.292798E+000	2.060830E-001
	Ra-224	@	0.901	8.256391E+000	8.651381E-001
	Ra-226	@	0.876	1.053908E+001	8.596313E-001
	Ac-228	@	0.963	1.050245E+001	1.624377E-001
X	Th-228		0.501		
X	Th-231		0.838		
	Th-234	@	0.929	8.562622E+000	5.977786E-001

? = Nuclide is part of an undetermined solution
X = Nuclide rejected by the interference analysis
@ = Nuclide contains energy lines not used in Weighted Mean Activity

Errors quoted at 1.000 sigma

********** U N I D E N T I F I E D P E A K S **********

Peak Locate Performed on: 7/18/2017 9:55:52 PM
Peak Locate From Channel: 100
Peak Locate To Channel: 8192

Peak No.	Energy (keV)	Peak Size in Counts per Second	Peak CPS % Uncertainty	Peak Type	Tol. Nuclide
15	288.06	9.9745E-003	97.47	Tol.	Ra-223
M 24	557.07	3.8892E-003	30.46		
m 25	562.30	2.9357E-002	6.44	Tol.	Cs-134
M 28	620.31	2.6685E-003	13.46	Tol.	Ag-110m
m 29	622.75	3.9703E-003	9.76	Sum	
M 36	782.00	1.1901E-002	21.55		
M 40	830.46	9.2641E-003	28.22	Sum	
44	903.89	8.5313E-003	53.11	Sum	
49	1000.74	2.4064E-002	17.49	Sum	
50	1078.55	9.6710E-003	37.87	S-Esc.	
51	1093.48	3.9021E-003	68.39	Sum	
55	1247.28	6.0855E-003	53.99	Sum	
M 61	1496.25	8.4957E-003	19.21	Sum	
m 62	1501.58	6.5556E-003	23.36	Sum	
m 64	1513.36	4.1337E-003	35.79	Sum	
65	1581.07	3.3362E-003	89.39	Sum	

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma