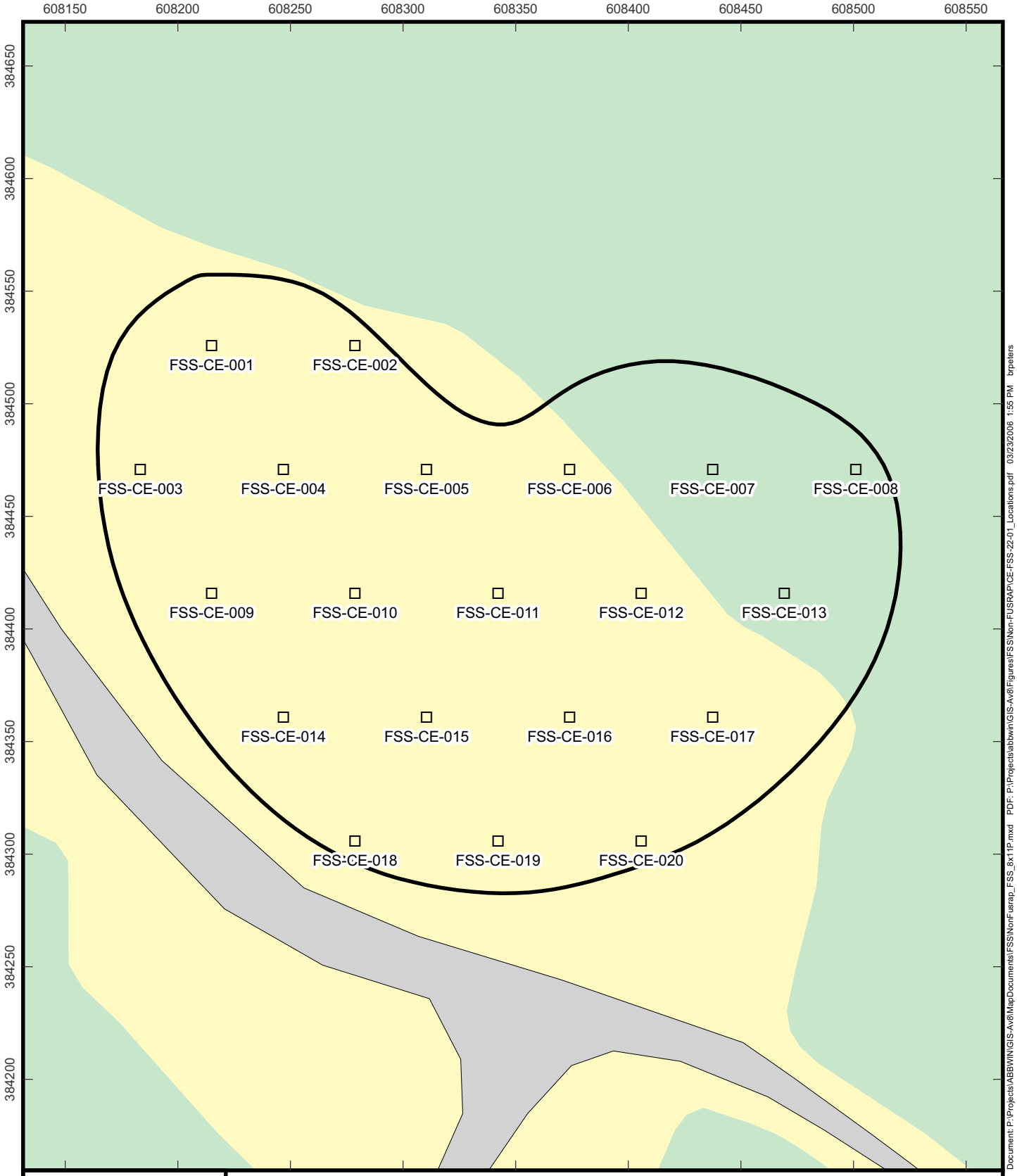
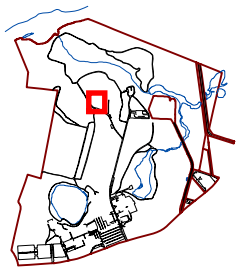
APPENDIX C

SURVEY UNIT CE-FSS-22-01
RESULTS AND DATA EVALUATION



CT State Plane NAD 27 Feet:



Legend

- Soil Sample Location
- Survey Unit
- Forest
- Open
- Water
- Road
- Building
- Former Building

N

0 30 60 Feet

Prepared by BRP | Checked by HTD

Sample Locations
Survey Unit CE-FSS-22-01

Final Status Survey
CE Windsor Site
Windsor, Connecticut

MACTEC

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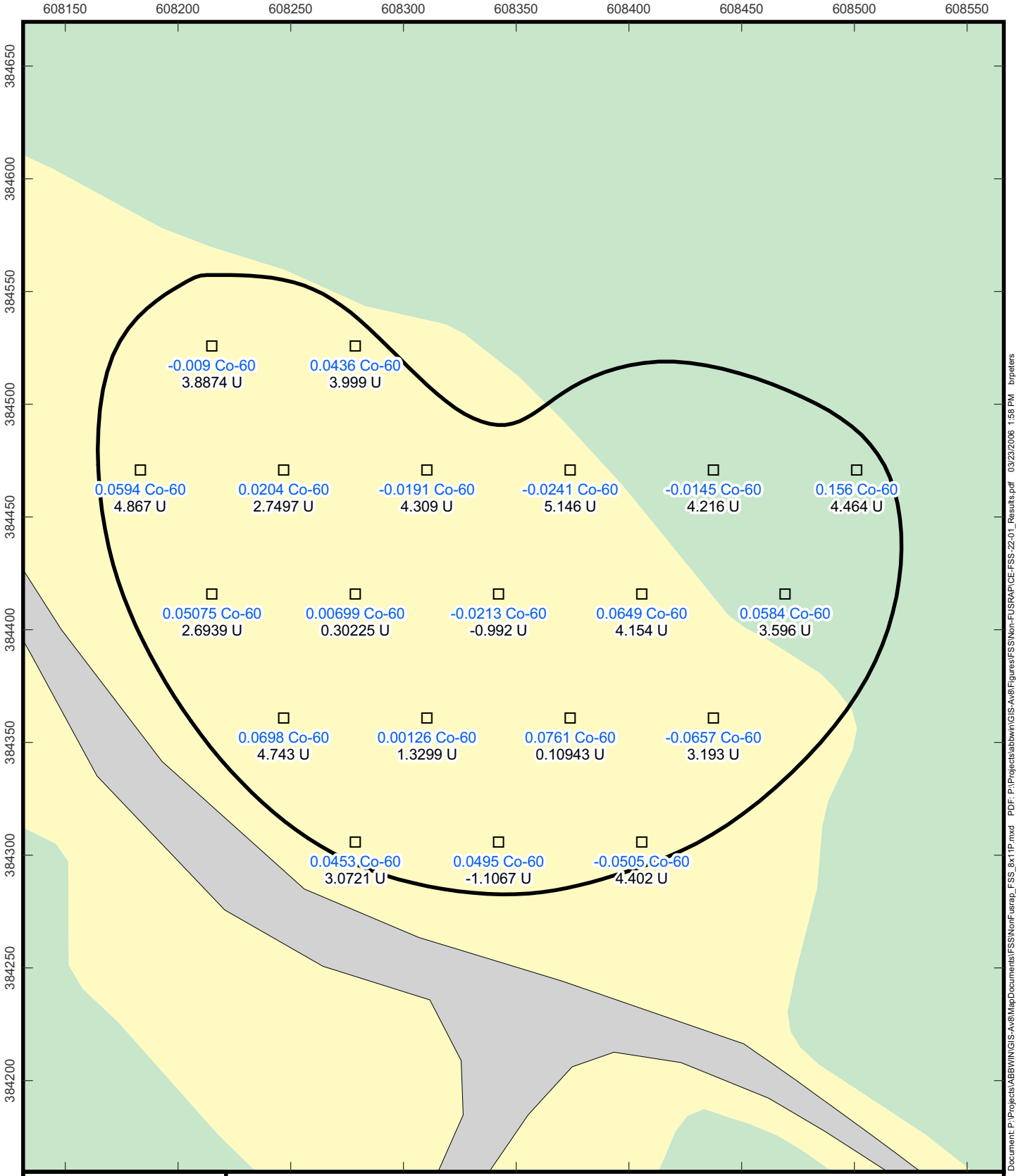

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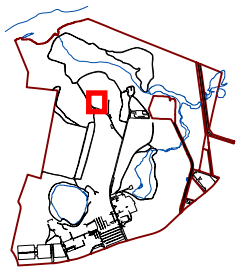

Legend

Co-60 (pCi/g)
Total U (pCi/g)

Soil Sample Location
Survey Unit

Forest
Open
Water
Road
Building
Former Building

N

0 30 60 Feet

Prepared by BRP | Checked by HTD

Sample Results
Survey Unit CE-FSS-22-01

Final Status Survey
CE Windsor Site
Windsor, Connecticut

MACTEC

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Survey Unit CE-FSS-22-01

Final Status Survey Volumetric Soil Sample Results

Sample ID	Co-60				U-235				Total U	Sum of
	Activity	Uncert.	MDC	Qualifier	Activity	Uncert.	MDC	Qualifier	(pCi/g)	Fraction
FSS-CE-001	-3.96E-02	7.78E-02	1.23E-01	U	6.48E-02	1.30E-01	2.43E-01	U	2.0	-0.004
FSS-CE-001 DUP	2.16E-02	8.41E-02	1.77E-01	U	1.86E-01	1.17E-01	2.29E-01	U	5.8	0.015
FSS-CE-001 AVE	-9.00E-03				1.25E-01				3.9	0.005
FSS-CE-002	4.36E-02	8.03E-02	1.89E-01	U	1.29E-01	1.25E-01	2.42E-01	U	4.0	0.016
FSS-CE-003	5.94E-02	1.13E-01	2.31E-01	U	1.57E-01	1.41E-01	2.72E-01	U	4.9	0.021
FSS-CE-004	2.04E-02	8.74E-02	1.81E-01	U	8.87E-02	1.23E-01	2.32E-01	U	2.7	0.009
FSS-CE-005	-1.91E-02	9.37E-02	1.70E-01	U	1.39E-01	1.20E-01	2.31E-01	U	4.3	0.004
FSS-CE-006	-2.41E-02	7.89E-02	1.30E-01	U	1.66E-01	1.22E-01	2.39E-01	U	5.1	0.004
FSS-CE-007	-1.45E-02	8.30E-02	1.74E-01	U	1.36E-01	1.44E-01	2.75E-01	U	4.2	0.005
FSS-CE-008	1.56E-01	1.22E-01	2.90E-01	U	1.44E-01	1.53E-01	2.92E-01	U	4.5	0.039
FSS-CE-009	5.32E-02	9.06E-02	2.12E-01	U	8.55E-02	1.37E-01	2.56E-01	U	2.7	0.015
FSS-CE-009 DUP	4.83E-02	7.98E-02	1.76E-01	U	8.83E-02	1.06E-01	2.00E-01	U	2.7	0.015
FSS-CE-009 AVE	5.08E-02				8.69E-02				2.7	0.015
FSS-CE-010	6.99E-03	7.79E-02	1.65E-01	U	9.75E-03	1.19E-01	2.12E-01	U	0.3	0.002
FSS-CE-011	-2.13E-02	1.00E-01	1.92E-01	U	-3.20E-02	1.27E-01	2.22E-01	U	-1.0	-0.006
FSS-CE-012	6.49E-02	7.62E-02	1.89E-01	U	1.34E-01	1.26E-01	2.40E-01	U	4.2	0.020
FSS-CE-013	5.84E-02	7.42E-02	1.85E-01	U	1.16E-01	1.19E-01	2.29E-01	U	3.6	0.018
FSS-CE-014	6.98E-02	8.74E-02	2.07E-01	U	1.53E-01	1.26E-01	2.42E-01	U	4.7	0.022
FSS-CE-015	1.26E-03	1.05E-01	1.99E-01	U	4.29E-02	1.45E-01	2.65E-01	U	1.3	0.003
FSS-CE-016	7.61E-02	6.85E-02	1.80E-01	U	3.53E-03	1.11E-01	2.00E-01	U	0.1	0.015
FSS-CE-017	-6.57E-02	9.79E-02	1.72E-01	U	1.03E-01	1.28E-01	2.42E-01	U	3.2	-0.007
FSS-CE-018	4.53E-02	8.58E-02	1.90E-01	U	9.91E-02	1.24E-01	2.35E-01	U	3.1	0.015
FSS-CE-019	4.95E-02	8.76E-02	2.06E-01	U	-3.57E-02	1.32E-01	2.33E-01	U	-1.1	0.008
FSS-CE-020	-5.05E-02	1.12E-01	1.98E-01	U	1.42E-01	9.54E-02	2.19E-01	U	4.4	-0.002

Survey Unit CE-FSS-22-01

One-Minute Static Field Measurement Results

Sample ID	Static Count Rate (cpm)	Ambient Background (cpm)	Net (cpm)	pCi/g
FSS-CE-001	2584	2700	-116	-0.4
FSS-CE-002	2405	2700	-295	-1.0
FSS-CE-003	2572	2700	-128	-0.4
FSS-CE-004	2455	2700	-245	-0.8
FSS-CE-005	2476	2700	-224	-0.7
FSS-CE-006	2066	2700	-634	-2.1
FSS-CE-007	2787	2700	87	0.3
FSS-CE-008	2793	2700	93	0.3
FSS-CE-009	2915	2700	215	0.7
FSS-CE-010	2417	2700	-283	-0.9
FSS-CE-011	2507	2700	-193	-0.6
FSS-CE-012	2600	2700	-100	-0.3
FSS-CE-013	3101	2700	401	1.3
FSS-CE-014	2537	2700	-163	-0.5
FSS-CE-015	2513	2700	-187	-0.6
FSS-CE-016	2232	2700	-468	-1.6
FSS-CE-017	2174	2700	-526	-1.7
FSS-CE-018	2457	2700	-243	-0.8
FSS-CE-019	2404	2700	-296	-1.0
FSS-CE-020	2369	2700	-331	-1.1

Survey Unit CE-FSS-22-01

Final Status Survey Sample GPS Coordinates

Sample ID	X_Coord	Y_Coord
FSS-CE-001	608215.20	384525.92
FSS-CE-002	608278.74	384525.92
FSS-CE-003	608183.43	384470.89
FSS-CE-004	608246.97	384470.89
FSS-CE-005	608310.51	384470.89
FSS-CE-006	608374.06	384470.89
FSS-CE-007	608437.60	384470.89
FSS-CE-008	608501.14	384470.89
FSS-CE-009	608215.20	384415.86
FSS-CE-010	608278.74	384415.86
FSS-CE-011	608342.28	384415.86
FSS-CE-012	608405.83	384415.86
FSS-CE-013	608469.37	384415.86
FSS-CE-014	608246.97	384360.83
FSS-CE-015	608310.51	384360.83
FSS-CE-016	608374.06	384360.83
FSS-CE-017	608437.60	384360.83
FSS-CE-018	608278.74	384305.80
FSS-CE-019	608342.28	384305.80
FSS-CE-020	608405.83	384305.80

Descriptive Statistics Report

Summary Section of 22-01 Co-60

Count	Mean	Standard Deviation	Standard Error	Minimum	Maximum	Range
20	0.0249125	0.0521866	1.166928E-02	-0.0657	0.156	0.2217

Counts Section of 22-01 Co-60

Rows	Sum of Frequencies	Missing Values	Distinct Values	Sum	Total Sum Squares	Adjusted Sum Squares
20	20	0	20	0.49825	6.415803E-02	5.174537E-02

Means Section of 22-01 Co-60

Parameter	Mean	Median	Geometric Mean	Harmonic Mean	Sum	Mode
Value	0.0249125	0.032	3.593252E-02	0.0250634	0.49825	
Std Error	1.166928E-02				0.2333855	
95% LCL	4.884214E-04	-0.0145	1.695487E-02	7.914331E-03	9.768428E-03	
95% UCL	4.933658E-02	0.0584	7.615191E-02	-2.147977E-02	0.9867316	
T-Value	2.134879					
Prob Level	4.601256E-02					
Count	20		13	20		0

The geometric mean confidence interval assumes that the ln(y) are normally distributed.
The harmonic mean confidence interval assumes that the 1/y are normally distributed.

Variation Section of 22-01 Co-60

Parameter	Variance	Standard Deviation	Unbiased Std Dev	Std Error of Mean	Interquartile Range	Range
Value	2.723441E-03	0.0521866	5.287748E-02	1.166928E-02	0.0771	0.2217
Std Error	9.065237E-04	1.228302E-02		2.746567E-03		
95% LCL	1.57509E-03	3.968741E-02		8.874374E-03		
95% UCL	5.809833E-03	7.622226E-02		1.704382E-02		

Skewness and Kurtosis Section of 22-01 Co-60

Parameter	Skewness	Kurtosis	Fisher's g1	Fisher's g2	Coefficient of Variation	Coefficient of Dispersion
Value	0.4076828	3.215911	0.4415112	0.6540806	2.094796	1.327109
Std Error	0.4435977	0.4872493			0.9238915	

Trimmed Section of 22-01 Co-60

Parameter	5% Trimmed	10% Trimmed	15% Trimmed	25% Trimmed	35% Trimmed	45% Trimmed
Trim-Mean	2.266389E-02	2.389687E-02	2.404643E-02	0.025275	2.784167E-02	0.032
Trim-Std Dev	0.0393026	3.466709E-02	3.236332E-02	2.741472E-02	2.106636E-02	1.640488E-02
Count	18	16	14	10	6	2

Descriptive Statistics Report

Mean-Deviation Section of 22-01 Co-60

Parameter	|X-Mean|	|X-Median|	(X-Mean)^2	(X-Mean)^3	(X-Mean)^4
Average	0.0424675	0.0424675	2.587269E-03	5.365185E-05	2.152718E-05
Std Error	7.01255E-03		8.611975E-04	7.513742E-05	1.352112E-05

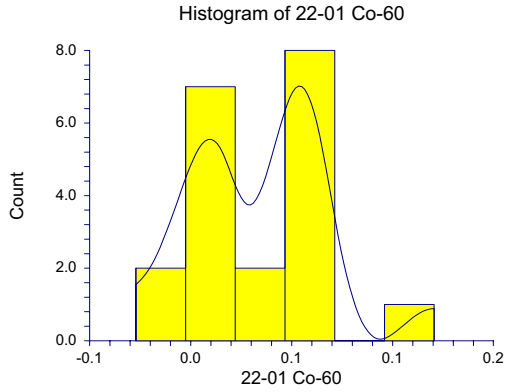
Quartile Section of 22-01 Co-60

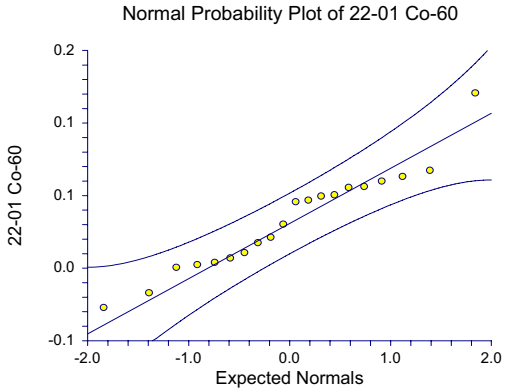
Parameter	10th Percentile	25th Percentile	50th Percentile	75th Percentile	90th Percentile
Value	-0.04786	-0.01795	0.032	0.05915	0.07547
95% LCL		-0.0657	-0.0145	0.0436	
95% UCL		0.00699	0.0584	0.0761	

Normality Test Section of 22-01 Co-60

Test Name	Test Value	Prob Level	10% Critical Value	5% Critical Value	Decision (5%)
Shapiro-Wilk W	0.9530455	0.4156957			Can't reject normality
Anderson-Darling	0.3915968	0.3792488			Can't reject normality
Martinez-Iglewicz	1.039126		1.216194	1.357297	Can't reject normality
Kolmogorov-Smirnov	0.113332		0.176	0.192	Can't reject normality
D'Agostino Skewness	0.9017352	0.3671975	1.645	1.960	Can't reject normality
D'Agostino Kurtosis	0.8513	0.394576	1.645	1.960	Can't reject normality
D'Agostino Omnibus	1.5379	0.463495	4.605	5.991	Can't reject normality

Plots Section of 22-01 Co-60





Descriptive Statistics Report

Percentile Section of 22-01 Co-60

Percentile	Value	95% LCL	95% UCL	Exact Conf. Level
99	0.156			
95	0.152005			
90	0.07547			
85	0.069065	0.0495	0.156	95.53193
80	0.0638	0.0495	0.156	95.63281
75	0.05915	0.0436	0.0761	96.1823
70	0.05612	0.0204	0.0761	97.52179
65	0.050345	0.00699	0.0698	96.83029
60	0.04782	0.00126	0.0649	96.30099
55	0.044535	-0.009	0.0594	95.97224
50	0.032	-0.0145	0.0584	95.86105
45	0.0130245	-0.0191	0.0508	95.97224
40	0.003552	-0.0213	0.0495	96.30099
35	-0.005409	-0.0241	0.0453	96.83029
30	-0.01285	-0.0505	0.0436	97.52179
25	-0.01795	-0.0657	0.00699	95.59036
20	-0.02086	-0.0657	0.00126	95.63281
15	-0.02368	-0.0657	0.00126	95.53193
10	-0.04786			
5	-0.06494			
1	-0.0657			

Percentile Formula: Ave X(p[n+1])

Stem-Leaf Plot Section of 22-01 Co-60

Depth	Stem	Leaves
1	S	6
2	F	5
4	T	22
7	-0*	110
9	0*	00
10	T	2
10	F	444555
4	S	667
1	.	
1	1*	
1	T	
1	F	5

Unit = .01 Example: 1 |2 Represents 0.12

Descriptive Statistics Report

Summary Section of 22-01 Total U

Count	Mean	Standard Deviation	Standard Error	Minimum	Maximum	Range
20	2.955	1.966154	0.4396455	-1.1	5.1	6.2

Counts Section of 22-01 Total U

Rows	Sum of Frequencies	Missing Values	Distinct Values	Sum	Total Sum Squares	Adjusted Sum Squares
20	20	0	18	59.1	248.09	73.4495

Means Section of 22-01 Total U

Parameter	Mean	Median	Geometric Mean	Harmonic Mean	Sum	Mode
Value	2.955	3.75	2.592264	1.240337	59.1	
Std Error	0.4396455				8.79291	
95% LCL	2.034811	2.7	1.536857	0.5295179	40.69623	
95% UCL	3.875189	4.3	4.372454	-3.622599	77.50377	
T-Value	6.721324					
Prob Level	2.008414E-06					
Count	20		18	20		0

The geometric mean confidence interval assumes that the ln(y) are normally distributed.
The harmonic mean confidence interval assumes that the 1/y are normally distributed.

Variation Section of 22-01 Total U

Parameter	Variance	Standard Deviation	Unbiased Std Dev	Std Error of Mean	Interquartile Range	Range
Value	3.865763	1.966154	1.992184	0.4396455	2.725	6.2
Std Error	1.096455	0.3943284		0.0881745		
95% LCL	2.235747	1.495242		0.3343462		
95% UCL	8.246715	2.871709		0.6421337		

Skewness and Kurtosis Section of 22-01 Total U

Parameter	Skewness	Kurtosis	Fisher's g1	Fisher's g2	Coefficient of Variation	Coefficient of Dispersion
Value	-0.9753266	2.608943	-1.056256	-0.1373581	0.6653653	0.3906667
Std Error	0.4378713	1.103285			0.1794839	

Trimmed Section of 22-01 Total U

Parameter	5% Trimmed	10% Trimmed	15% Trimmed	25% Trimmed	35% Trimmed	45% Trimmed
Trim-Mean	3.061111	3.2	3.314286	3.59	3.666667	3.75
Trim-Std Dev	1.752356	1.46105	1.239638	0.6226288	0.4457204	0.212132
Count	18	16	14	10	6	2

Descriptive Statistics Report

Mean-Deviation Section of 22-01 Total U

Parameter	|X-Mean|	|X-Median|	(X-Mean)^2	(X-Mean)^3	(X-Mean)^4
Average	1.5685	1.465	3.672475	-6.864175	35.18701
Std Error	0.2642011		1.041632	2.161968	10.7319

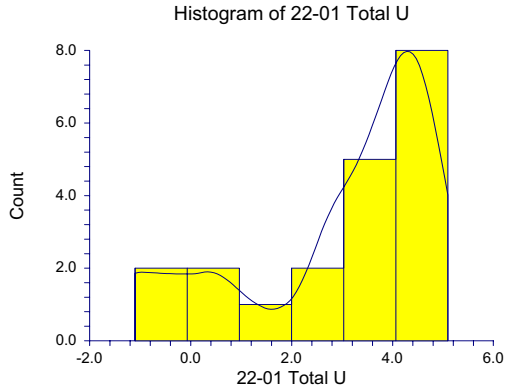
Quartile Section of 22-01 Total U

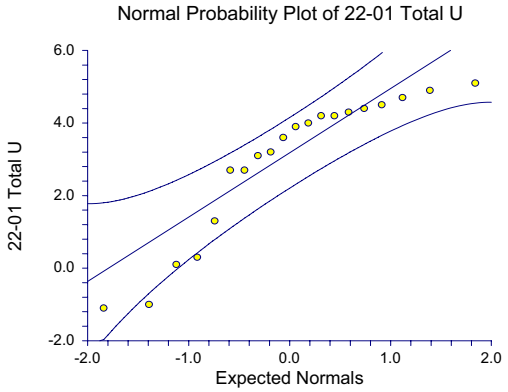
Parameter	10th Percentile	25th Percentile	50th Percentile	75th Percentile	90th Percentile
Value	-0.89	1.65	3.75	4.375	4.88
95% LCL		-1.1	2.7	3.9	
95% UCL		3.2	4.3	4.9	

Normality Test Section of 22-01 Total U

Test Name	Test Value	Prob Level	10% Critical Value	5% Critical Value	Decision (5%)
Shapiro-Wilk W	0.847396	4.822282E-03			Reject normality
Anderson-Darling	1.214956	3.642717E-03			Reject normality
Martinez-Iglewicz	1.431193		1.216194	1.357297	Reject normality
Kolmogorov-Smirnov	0.1484039		0.176	0.192	Can't reject normality
D'Agostino Skewness	-2.023111	4.306171E-02	1.645	1.960	Reject normality
D'Agostino Kurtosis	0.0770	0.938598	1.645	1.960	Can't reject normality
D'Agostino Omnibus	4.0989	0.128805	4.605	5.991	Can't reject normality

Plots Section of 22-01 Total U





Descriptive Statistics Report

Percentile Section of 22-01 Total U

Percentile	Value	95% LCL	95% UCL	Exact Conf. Level
99	5.1			
95	5.09			
90	4.88			
85	4.67	4.2	5.1	95.53193
80	4.48	4.2	5.1	95.63281
75	4.375	3.9	4.9	96.1823
70	4.27	3.6	4.9	97.52179
65	4.2	3.2	4.7	96.83029
60	4.12	3.1	4.5	96.30099
55	3.955	2.7	4.4	95.97224
50	3.75	2.7	4.3	95.86105
45	3.38	1.3	4.2	95.97224
40	3.14	0.3	4.2	96.30099
35	2.84	0.1	4	96.83029
30	2.7	-1	3.9	97.52179
25	1.65	-1.1	3.2	95.59036
20	0.5	-1.1	3.1	95.63281
15	0.13	-1.1	3.1	95.53193
10	-0.89			
5	-1.095			
1	-1.1			

Percentile Formula: Ave X(p[n+1])

Stem-Leaf Plot Section of 22-01 Total U

Depth	Stem	Leaves
2	-1 |	10
2	-0 |	
4	0 |	13
5	1 |	3
7	2 |	77
(4)	3 |	1269
9	4 |	02234579
1	5 |	1

Unit = .1 Example: 1 |2 Represents 1.2

Descriptive Statistics Report

Summary Section of 22-01 SOF

Count	Mean	Standard Deviation	Standard Error	Minimum	Maximum	Range
20	0.0103	1.102199E-02	2.464591E-03	-0.007	0.039	0.046

Counts Section of 22-01 SOF

Rows	Sum of Frequencies	Missing Values	Distinct Values	Sum	Total Sum Squares	Adjusted Sum Squares
20	20	0	16	0.206	0.00443	0.0023082

Means Section of 22-01 SOF

Parameter	Mean	Median	Geometric Mean	Harmonic Mean	Sum	Mode
Value	0.0103	0.0085	9.708974E-03	1.214557E-02	0.206	0.015
Std Error	2.464591E-03				4.929183E-02	
95% LCL	5.141551E-03	0.004	6.303761E-03	5.635882E-03	0.102831	
95% UCL	1.545845E-02	0.016	1.495364E-02	-7.833657E-02	0.309169	
T-Value	4.179192					
Prob Level	5.089127E-04					
Count	20		17	20		3

The geometric mean confidence interval assumes that the ln(y) are normally distributed.
The harmonic mean confidence interval assumes that the 1/y are normally distributed.

Variation Section of 22-01 SOF

Parameter	Variance	Standard Deviation	Unbiased Std Dev	Std Error of Mean	Interquartile Range	Range
Value	1.214842E-04	1.102199E-02	0.0111679	2.464591E-03	0.01425	0.046
Std Error	4.257013E-05	2.731052E-03		6.106819E-04		
95% LCL	7.025986E-05	8.382116E-03		1.874298E-03		
95% UCL	2.591586E-04	0.0160984		3.599712E-03		

Skewness and Kurtosis Section of 22-01 SOF

Parameter	Skewness	Kurtosis	Fisher's g1	Fisher's g2	Coefficient of Variation	Coefficient of Dispersion
Value	0.6125829	3.455841	0.6634133	0.9669301	1.070096	1.023529
Std Error	0.4232865	0.6625417			0.2466897	

Trimmed Section of 22-01 SOF

Parameter	5% Trimmed	10% Trimmed	15% Trimmed	25% Trimmed	35% Trimmed	45% Trimmed
Trim-Mean	9.666666E-03	0.009875	9.928571E-03	0.0096	0.0095	0.0085
Trim-Std Dev	8.324309E-03	7.209947E-03	6.293639E-03	5.125102E-03	4.549725E-03	7.071068E-04
Count	18	16	14	10	6	2

Descriptive Statistics Report

Mean-Deviation Section of 22-01 SOF

Parameter	|X-Mean|	|X-Median|	(X-Mean)^2	(X-Mean)^3	(X-Mean)^4
Average	0.00883	0.0087	1.1541E-04	7.59504E-07	4.602997E-08
Std Error	1.481075E-03		4.044162E-05	7.768116E-07	2.961503E-08

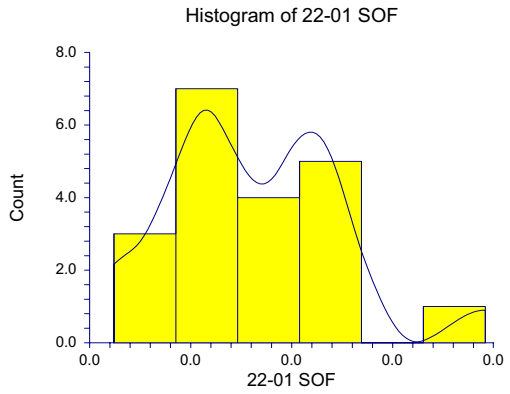
Quartile Section of 22-01 SOF

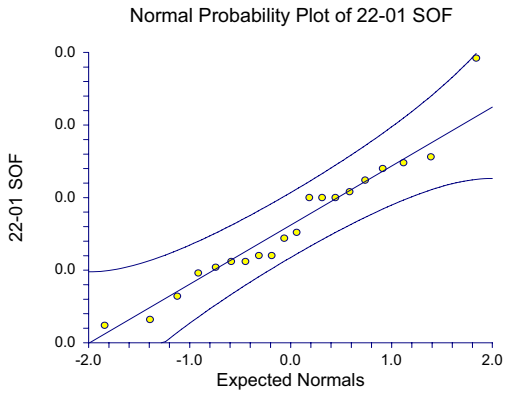
Parameter	10th Percentile	25th Percentile	50th Percentile	75th Percentile	90th Percentile
Value	-0.0056	0.00325	0.0085	0.0175	0.0219
95% LCL		-0.007	0.004	0.009	
95% UCL		0.005	0.016	0.022	

Normality Test Section of 22-01 SOF

Test Name	Test Value	Prob Level	10% Critical Value	5% Critical Value	Decision (5%)
Shapiro-Wilk W	0.9493977	0.3580397			Can't reject normality
Anderson-Darling	0.3565829	0.4567647			Can't reject normality
Martinez-Iglewicz	1.122441		1.216194	1.357297	Can't reject normality
Kolmogorov-Smirnov	0.1346909		0.176	0.192	Can't reject normality
D'Agostino Skewness	1.329629	0.1836406	1.645	1.960	Can't reject normality
D'Agostino Kurtosis	1.0921	0.274776	1.645	1.960	Can't reject normality
D'Agostino Omnibus	2.9607	0.227562	4.605	5.991	Can't reject normality

Plots Section of 22-01 SOF





Descriptive Statistics Report

Percentile Section of 22-01 SOF

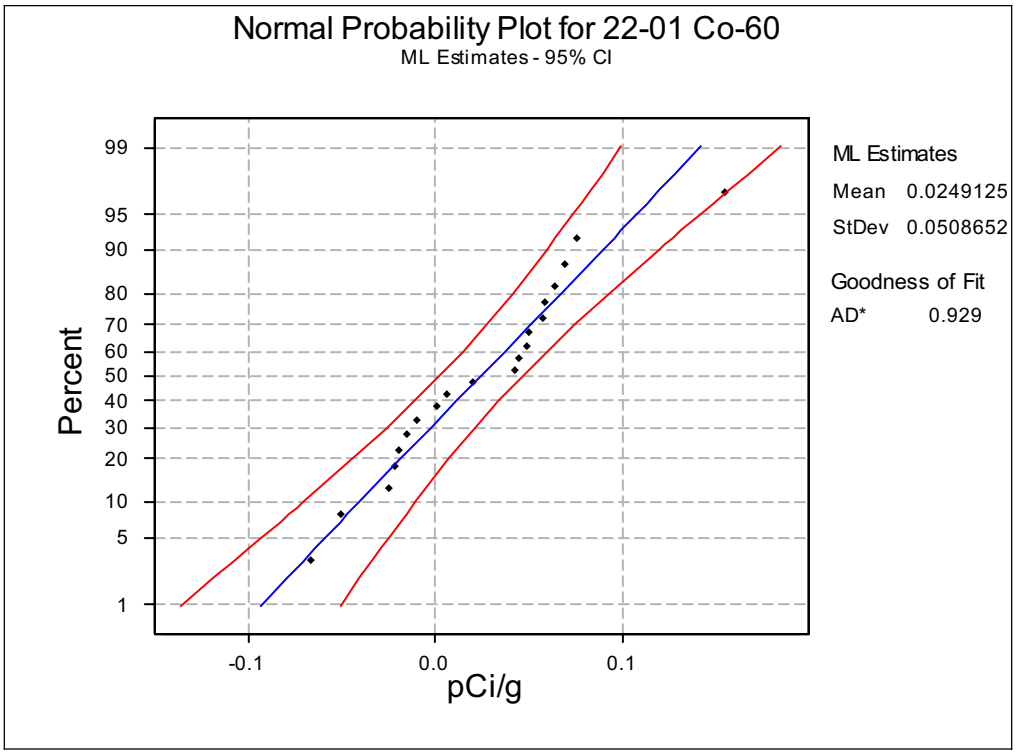
Percentile	Value	95% LCL	95% UCL	Exact Conf. Level
99	0.039			
95	0.03815			
90	0.0219			
85	0.02085	0.015	0.039	95.53193
80	0.0196	0.015	0.039	95.63281
75	0.0175	0.009	0.022	96.1823
70	0.0157	0.008	0.022	97.52179
65	0.015	0.005	0.021	96.83029
60	0.015	0.005	0.02	96.30099
55	0.0123	0.004	0.018	95.97224
50	0.0085	0.004	0.016	95.86105
45	0.00635	0.003	0.015	95.97224
40	0.005	0.002	0.015	96.30099
35	0.00435	-0.002	0.015	96.83029
30	0.004	-0.006	0.009	97.52179
25	0.00325	-0.007	0.005	95.59036
20	0.0022	-0.007	0.005	95.63281
15	-0.0014	-0.007	0.005	95.53193
10	-0.0056			
5	-0.00695			
1	-0.007			

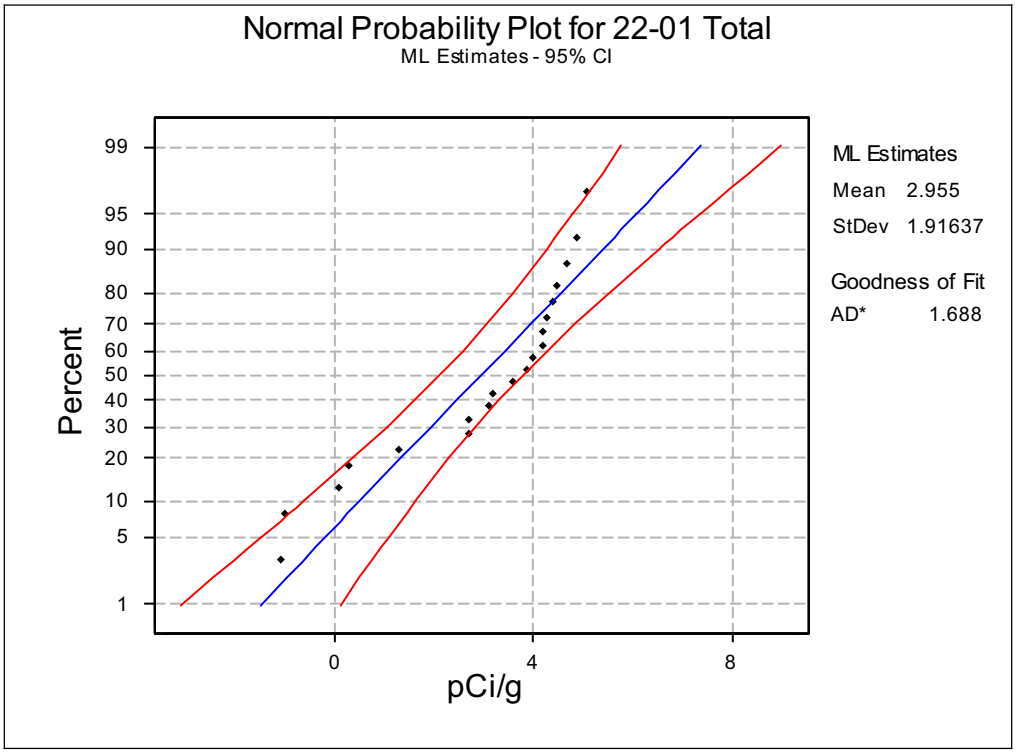
Percentile Formula: Ave X(p[n+1])

Stem-Leaf Plot Section of 22-01 SOF

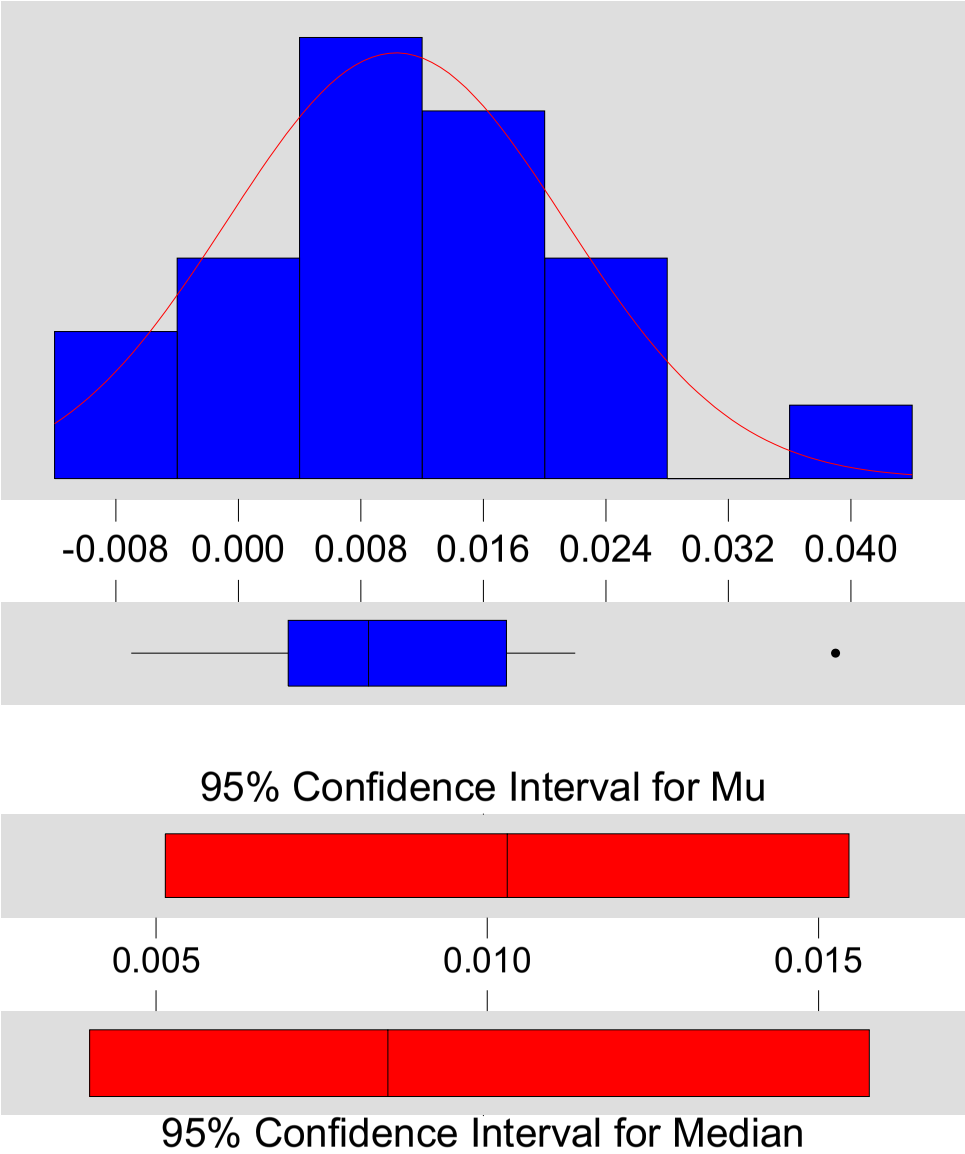
Depth	Stem	Leaves
2	.	76
3	-0*	2
7	0*	2344
(4)	.	5589
9	1*	
9	.	55568
4	2*	012
High		39

Unit = .001 Example: 1 |2 Represents 0.012


Normal Probability Plot for 22-01 Co-60
ML Estimates - 95% CI
Percent
99
95
90
80
70
60
50
40
30
20
10
5
1
-0.1
0.0
0.1
pCi/g
ML Estimates
Mean 0.0249125
StDev 0.0508652
Goodness of Fit
AD* 0.929


Normal Probability Plot for 22-01 Total
ML Estimates - 95% CI
Percent
99
95
90
80
70
60
50
40
30
20
10
5
1
0
4
8
pCi/g
ML Estimates
Mean 2.955
StDev 1.91637
Goodness of Fit
AD* 1.688

Descriptive Statistics



Variable: 22-01 SOF

Anderson-Darling Normality Test

A-Squared:	0.355
P-Value:	0.426
Mean	1.03E-02
StDev	1.10E-02
Variance	1.21E-04
Skewness	0.663413
Kurtosis	0.966930
N	20
Minimum	-7.0E-03
1st Quartile	3.25E-03
Median	8.50E-03
3rd Quartile	1.75E-02
Maximum	3.90E-02

95% Confidence Interval for Mu

5.14E-03	1.55E-02

95% Confidence Interval for Sigma

8.38E-03	1.61E-02

95% Confidence Interval for Median

4.00E-03	1.58E-02

One-Sample T-Test Report

Variable 22-01 SOF

Descriptive Statistics Section

Variable	Count	Mean	Standard Deviation	Standard Error	95% LCL of Mean	95% UCL of Mean
22-01 SOF	20	0.0103	1.102199E-02	2.464591E-03	5.141551E-03	1.545845E-02

T for Confidence Limits = 2.0930

Tests of Assumptions Section

Assumption	Value	Probability	Decision(5%)
Skewness Normality	1.3296	0.183641	Cannot reject normality
Kurtosis Normality	1.0921	0.274776	Cannot reject normality
Omnibus Normality	2.9607	0.227562	Cannot reject normality
Correlation Coefficient			

T-Test For Difference Between Mean and Value Section

Alternative Hypothesis	T-Value	Prob Level	Decision (5%)	Power (Alpha=.05)	Power (Alpha=.01)
22-01 SOF<>1	-401.5676	0.000000	Reject H0	1.000000	1.000000
22-01 SOF<1	-401.5676	0.000000	Reject H0	1.000000	1.000000
22-01 SOF>1	-401.5676	1.000000	Accept H0	0.000000	0.000000

Nonparametric Tests Section

Quantile (Sign) Test

Null Quantile (Q0)	Quantile Proportion	Number Lower	Number Higher	H1:Q<>Q0 Prob Level	H1:Q<Q0 Prob Level	H1:Q>Q0 Prob Level
1	0.5	20	0	0.000002	0.000001	1.000000

Wilcoxon Signed-Rank Test for Difference in Medians

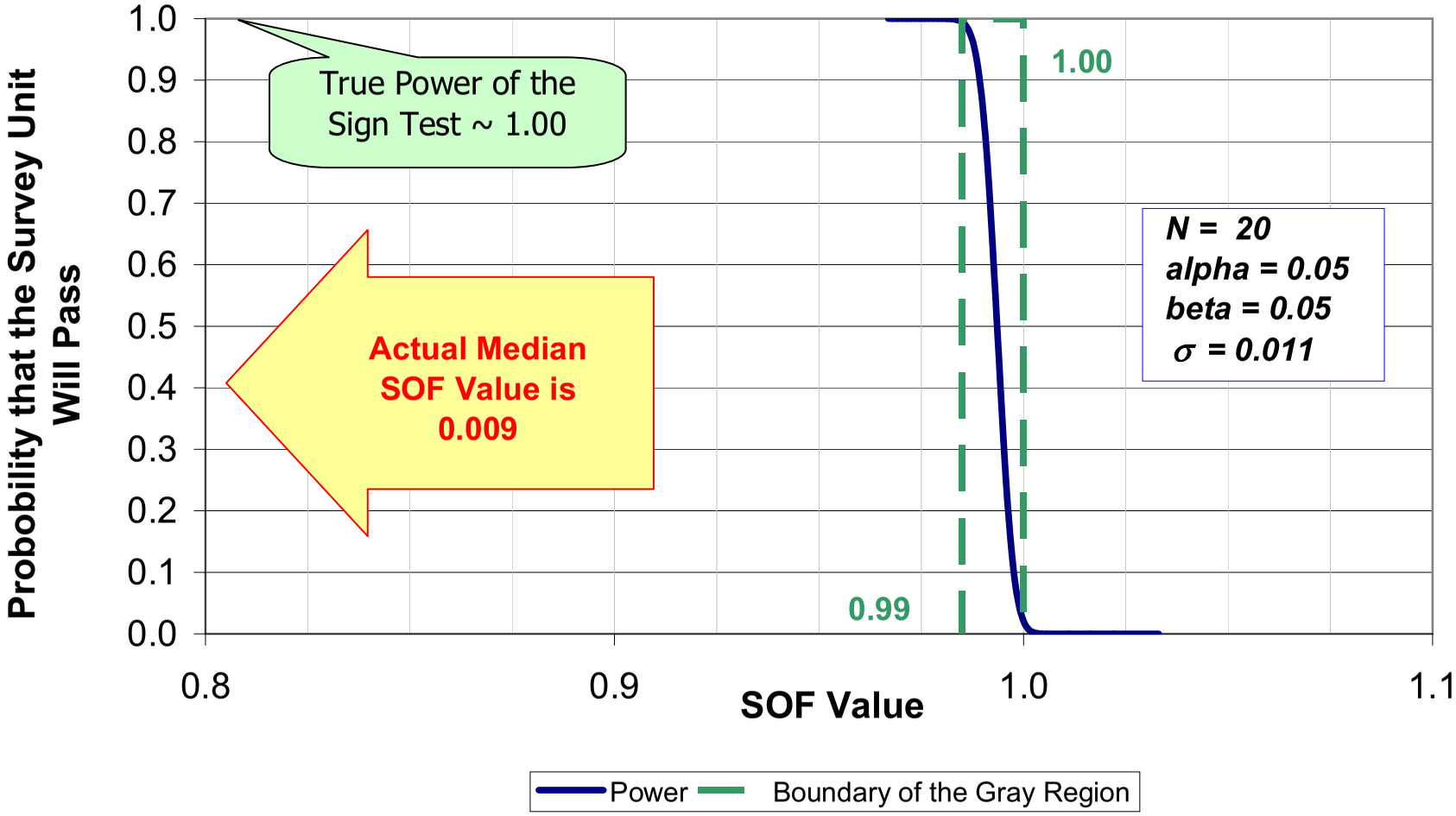
W Sum Ranks	Mean of W	Std Dev of W	Number of Zeros	Number Sets of Ties	Multiplicity Factor
0	105	26.77219	0	3	36

	Exact Probability		Approximation Without Continuity Correction			Approximation With Continuity Correction		
Alternative Hypothesis	Prob Level	Decision (5%)	Z-Value	Prob Level	Decision (5%)	Z-Value	Prob Level	Decision (5%)
Median<>1			3.9220	0.000088	Reject H0	1.0000	0.000095	Reject H0
Median<1			-3.9220	0.000044	Reject H0	-3.9033	0.000047	Reject H0
Median>1			-3.9220	0.999956	Accept H0	-3.9407	0.999959	Accept H0

Retrospective Power of the Sign Test

Surface Soil Volumetric Measurements SOF Values

Survey Unit CE-FSS-22-01



RADIOLOGICAL SURVEY MAP

Survey Unit N0: CE-FSS-22-01

Surveyor Team (print names): Chauncy.P. SwecT. M

Page of

#	Sample ID	Static Count
1	SS-FSS-CE-01	2584
2	SS-FSS-CE-02	2405
3	SS-FSS-CE-03	2572
4	SS-FSS-CE-04	2455
5	SS-FSS-CE-05	2476
6	SS-FSS-CE-06	2066
7	SS-FSS-CE-07	2787
8	SS-FSS-CE-08	2793
9	SS-FSS-CE-09	2715
10	SS-FSS-CE-10	2417
11	SS-FSS-CE-11	2507
12	SS-FSS-CE-12	2600
13	SS-FSS-CE-13	3101
14	SS-FSS-CE-14	2537
15	SS-FSS-CE-15	2513
16	SS-FSS-CE-16	2232
17	SS-FSS-CE-17	2174
18	SS-FSS-CE-18	2457
19	SS-FSS-CE-19	2404
20	SS-FSS-CE-20	2369
N/A	N/A	N/A

Comments

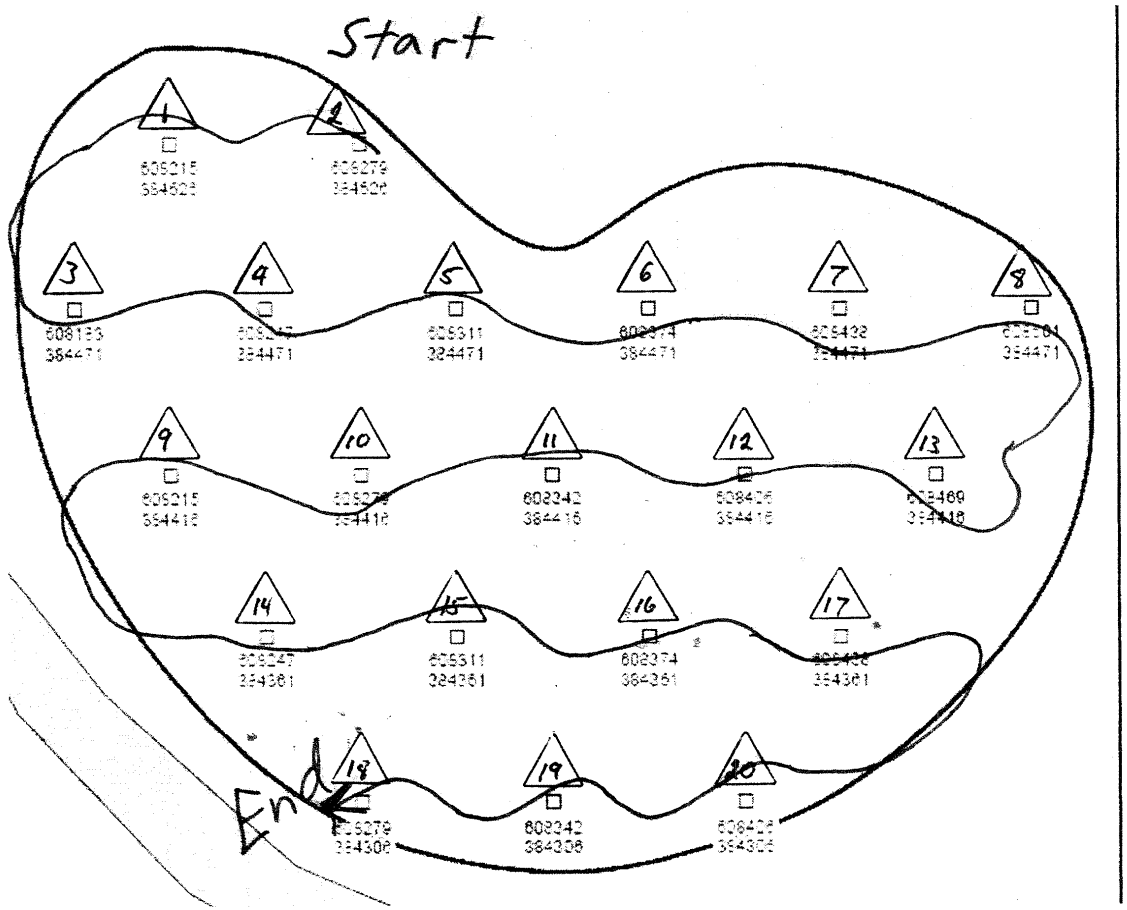
Static Count in Gross CPM.

~ = Walkover Area

Duplicate Sample-SS-FSS-CE-09

2x2 Walkover Done in Data logging mode Results Attached.

Duplicate Sample-SS-FSS-CE-01



Instrument: Ludlum 2350

Ser. No: 186175

Background (cpm): 2700

Key: == - Direct Scan; [] - Volumetric Sample

Technician Signature & Date: 10/30/05

Reviewed By Signature & Date: 12/5/05

Survey Unit CE-FSS-022-01
Gamma Walkover Survey
Instrument: Ludlum 2350-1 (186175) with 44-10 (199144)

Data Log	CPM	Data Log	CPM	Data Log	CPM	Data Log	CPM
1	1,550	51	2,540	101	2,390	151	2,080
2	2,040	52	2,510	102	2,540	152	2,070
3	2,620	53	2,440	103	2,450	153	2,020
4	2,750	54	2,480	104	2,420	154	2,310
5	2,270	55	2,360	105	2,250	155	2,170
6	2,000	56	2,820	106	2,580	156	2,040
7	1,990	57	2,810	107	2,580	157	1,960
8	2,160	58	2,570	108	2,510	158	2,310
9	2,170	59	2,720	109	2,660	159	2,280
10	2,190	60	2,670	110	2,640	160	2,270
11	2,280	61	2,630	111	2,600	161	2,360
12	2,380	62	2,410	112	2,350	162	2,610
13	2,350	63	2,540	113	2,340	163	2,480
14	2,550	64	2,550	114	2,300	164	2,150
15	2,500	65	2,270	115	2,420	165	2,360
16	2,620	66	2,430	116	2,180	166	2,330
17	2,610	67	2,630	117	2,320	167	2,510
18	2,550	68	2,730	118	2,680	168	2,800
19	2,930	69	2,530	119	2,500	169	2,980
20	2,600	70	2,580	120	2,610	170	2,580
21	2,310	71	2,500	121	2,530	171	2,470
22	2,250	72	2,370	122	2,490	172	2,230
23	2,330	73	2,240	123	2,580	173	2,270
24	2,230	74	2,510	124	2,620	174	2,430
25	2,210	75	2,210	125	2,600	175	2,750
26	2,260	76	2,110	126	2,730	176	2,480
27	2,390	77	2,310	127	2,560	177	2,440
28	2,380	78	2,270	128	2,480	178	2,420
29	2,550	79	2,520	129	2,740	179	2,330
30	2,850	80	2,700	130	2,850	180	2,530
31	2,620	81	2,830	131	2,640	181	2,880
32	2,690	82	2,380	132	2,960	182	2,300
33	2,550	83	2,830	133	2,760	183	2,420
34	2,410	84	2,630	134	2,660	184	2,310
35	2,760	85	2,610	135	2,690	185	2,670
36	2,590	86	2,540	136	2,760	186	2,360
37	2,340	87	2,310	137	2,870	187	2,590
38	2,390	88	2,430	138	2,700	188	2,530
39	2,370	89	2,190	139	2,570	189	2,740
40	2,560	90	2,390	140	2,740	190	2,640
41	2,300	91	2,480	141	2,610	191	2,410
42	2,210	92	2,310	142	2,770	192	2,570
43	2,420	93	2,310	143	2,940	193	2,410
44	2,630	94	2,270	144	2,580	194	1,780
45	2,640	95	2,430	145	2,580	195	1,650
46	2,560	96	2,620	146	2,530	196	1,610
47	2,760	97	2,330	147	2,910	197	1,590
48	2,770	98	2,740	148	2,470	198	1,680
49	2,750	99	2,710	149	2,120	199	2,010
50	2,810	100	2,550	150	2,250	200	2,280

Survey Unit CE-FSS-022-01
Gamma Walkover Survey
Instrument: Ludlum 2350-1 (186175) with 44-10 (199144)

Data Log	CPM
201	2,490
202	2,540
203	2,570
204	2,460
205	2,250
206	2,400
207	2,560
208	2,330
209	2,360
210	2,280
211	2,660
212	2,360
213	2,530
214	2,290
215	2,670
216	2,730
217	2,770
218	2,680
219	2,640
220	2,360
221	2,490

MACTEC, Inc.

CHAIN OF CUSTODY FORM Page 1 of 2

Project Info		Laboratory Info		INVOICE (if other than MACTEC contact)	
MACTEC Contact	Project No	Laboratory Name	Phone	Company Name	Phone
Project Title	Purchase Order No.	Lab Contact	Fax	Company Contact	Fax
C-E Site FSS					
Address		Address		Address	
City/State/Zip		City/State/Zip		City/State/Zip	

Special Handling Instructions

Sample ID No.	Date Collected	Time	Type[1]	Media	Volume	Description if necessary	Analysis					
SS-FSS-CE-01	10/27/2005	11:20 AM	RAD	Soil	Pint	Survey Unit 22 Sample 1						
SS-FSS-CE-02	10/31/2005	10:05 AM	RAD	Soil	Pint	Survey Unit 22 Sample 2						
SS-FSS-CE-03	10/31/2005	8:25 AM	RAD	Soil	Pint	Survey Unit 22 Sample 3						
SS-FSS-CE-04	10/27/2005	11:10 AM	RAD	Soil	Pint	Survey Unit 22 Sample 4						
SS-FSS-CE-05	10/27/2005	10:50 AM	RAD	Soil	Pint	Survey Unit 22 Sample 5						
SS-FSS-CE-06	10/31/2005	10:00 AM	RAD	Soil	Pint	Survey Unit 22 Sample 6						
SS-FSS-CE-07	10/31/2005	9:55 AM	RAD	Soil	Pint	Survey Unit 22 Sample 7						
SS-FSS-CE-08	10/31/2005	9:50 AM	RAD	Soil	Pint	Survey Unit 22 Sample 8						
SS-FSS-CE-09	10/31/2005	8:35 AM	RAD	Soil	Pint	Survey Unit 22 Sample 9						
SS-FSS-CE-10	10/27/2005	11:30 AM	RAD	Soil	Pint	Survey Unit 22 Sample 10						
SS-FSS-CE-11	10/27/2005	10:45 AM	RAD	Soil	Pint	Survey Unit 22 Sample 11						
SS-FSS-CE-12	10/27/2005	10:30 AM	RAD	Soil	Pint	Survey Unit 22 Sample 12						
SS-FSS-CE-13	10/31/2005	9:30 AM	RAD	Soil	Pint	Survey Unit 22 Sample 13						
SS-FSS-CE-14	10/31/2005	8:50 AM	RAD	Soil	Pint	Survey Unit 22 Sample 14						

Relinquished By:	Michael [illegible]	Relinquished By:		[1]Type
Date/Time:	10/31/05 1030 AM	Date/Time:		RS-Radioactive
Received By:	[illegible]	Received By:		Chem-Chemical
Date/Time:	10/31/05 1030	Date/Time:		Mix-Rad+Chemical

MACTEC, Inc.

CHAIN OF CUSTODY FORM Page 2 of 2

Project Info		Laboratory Info		INVOICE (if other than MACTEC contact)	
MACTEC Contact	Project No	Laboratory Name	Phone	Company Name	Phone
Project Title	Purchase Order No.	Lab Contact	Fax	Company Contact	Fax
C-E Site FSS					
Address		Address		Address	
City/State/Zip		City/State/Zip		City/State/Zip	

Special Handling Instructions

Sample ID No.	Date Collected	Time	Type[1]	Media	Volume	Description if necessary	Analysis					
SS-FSS-CE-15	10/27/2005	11:35 AM	RAD	Soil	Pint	Survey Unit 22 Sample 15						
SS-FSS-CE-16	10/27/2005	10:40 AM	RAD	Soil	Pint	Survey Unit 22 Sample 16						
SS-FSS-CE-17	10/31/2005	9:20 AM	RAD	Soil	Pint	Survey Unit 22 Sample 17						
SS-FSS-CE-18	10/31/2005	9:00 AM	RAD	Soil	Pint	Survey Unit 22 Sample 18						
SS-FSS-CE-19	10/27/2005	11:40 AM	RAD	Soil	Pint	Survey Unit 22 Sample 19						
SS-FSS-CE-20	10/31/2005	9:10 AM	RAD	Soil	Pint	Survey Unit 22 Sample 20						

Relinquished By:	[signature]	Relinquished By:		[1]Type
Date/Time:	10/31/05 930 AM	Date/Time:		RS-Radioactive
Received By:	[signature]	Received By:		Chem-Chemical
Date/Time:	10/31/05 0930	Date/Time:		Mix-Rad+Chemical

MACTEC, Inc.

CHAIN OF CUSTODY FORM

Page_____of_____

Project Info		Laboratory Info		INVOICE (if other than MACTEC contact)	
MACTEC Contact	Project No	Laboratory Name	Phone	Company Name	Phone
Project Title	Purchase Order No.	Lab Contact	Fax	Company Contact	Fax
C-E Site FSS					
Address		Address		Address	
City/State/Zip		City/State/Zip		City/State/Zip	

Special Handling Instructions

Sample ID No.	Date Collected	Time	Type[1]	Media	Volume	Description if necessary	Analysis					
SS-FSS-01-DUP	11/10/2005	4:00 PM	RAD	Soil	Pint	Survey Unit 22 Sample 1 Duplicate						
SS-FSS-09-DUP	11/10/2005	3:45 PM	RAD	Soil	Pint	Survey Unit 22 Sample 9 Duplicate						

Relinquished By:	[illegible]	Relinquished By:		[1]Type
Date/Time:	11/10/05 4:15 PM	Date/Time:		RS-Radioactive
Received By:	[illegible]	Received By:		Chem-Chemical
Date/Time:	11/10/05 1615	Date/Time:		Mix-Rad+Chemical

CERTIFICATE OF ANALYSIS

Site Location: CE Windsor
Sample ID: FSS-CE-01
Sample Title: FSS-22-1
Detector Name: 30%HPGE
Nuclide Library Used: C:\GENIE2K\CAMFILES\FSS.NLB
Sample Size: 6.584E+002 g
Sample Taken On: 10/27/2005 11:20:00 AM
Acquisition Started: 11/1/2005 10:42:47 AM
Live Time: 900.0 seconds
Real Time: 901.4 seconds
Dead Time: 0.16 %
Efficiency ID: srs035

Nuclide Name	IDENTIFIED RADIONUCLIDES Nuclide Activity (pCi/g)	Activity Uncert. (pCi/g)	Nuclide MDA (pCi/g)	UNIDENTIFIED RADIONUCLIDES Line Activity (pCi/g)	Line Act Uncert. (pCi/g)	Line MDA (pCi/g)
K-40	2.40E+001	8.64E+000	2.66E+000	FOUND		
MN-54	NOT FOUND/DATA for 834.83 keV			7.10E-003	9.11E-002	1.66E-001
CO-57	NOT FOUND/DATA for 122.06 keV			5.28E-002	9.59E-002	1.69E-001
CO-60	NOT FOUND/DATA for 1332.50 keV			-3.96E-002	7.78E-002	1.23E-001
ZN-65	NOT FOUND/DATA for 1115.55 keV			-7.31E-002	1.88E-001	3.07E-001
AG-110m	NOT FOUND/DATA for 657.76 keV			-4.28E-002	8.28E-002	1.33E-001
SB-125	NOT FOUND/DATA for 427.89 keV			3.97E-002	2.51E-001	4.79E-001
CS-134	NOT FOUND/DATA for 604.70 keV			2.54E-002	8.46E-002	1.65E-001
CS-137	NOT FOUND/DATA for 661.66 keV			2.42E-001	1.35E-001	2.97E-001
TL-208	3.72E-001	5.51E-001	1.67E-001	FOUND		
PB-212	1.29E+000	5.85E-001	4.46E-001	FOUND		
BI-214	9.24E-001	9.51E-001	4.05E-001	FOUND		
PB-214	7.78E-001	2.04E-001	4.47E-001	FOUND		
RA-226	NOT FOUND/DATA for 186.10 keV			1.81E+000	2.13E+000	4.07E+000
AC-228	8.51E-001	3.95E-001	6.83E-001	FOUND		
TH-230	NOT FOUND/DATA for 67.67 keV			1.58E+001	3.82E+001	7.23E+001
PA-231	NOT FOUND/DATA for 300.02 keV			7.90E-001	3.16E+000	5.63E+000
PA-234	NOT FOUND/DATA for 98.44 keV			4.84E-002	3.79E-001	6.49E-001
PA-234M	NOT FOUND/DATA for 1001.03 keV			-8.96E-001	1.74E+001	3.33E+001
TH-234	NOT FOUND/DATA for 92.60 keV			-1.28E+000	1.84E+000	2.92E+000
U-234	NOT FOUND/DATA for 53.20 keV			1.90E+002	3.38E+002	6.44E+002
U-235	NOT FOUND/DATA for 185.71 keV			6.48E-002	1.30E-001	2.43E-001
U-238	NOT FOUND/DATA for 92.60 keV			-1.28E+000	1.84E+000	2.92E+000
AM-241	NOT FOUND/DATA for 59.54 keV			8.11E-002	6.29E-001	1.15E+000

Uncertainty reported at 2.0 sigma

****
***** C E R T I F I C A T E O F A N A L Y S I S *****
****

Site Location: CE Windsor
Sample ID: FSS-CE-01-DUP
Sample Title: FSS-22-1-DUP
Detector Name: 30%HPGE
Nuclide Library Used: C:\GENIE2K\CAMFILES\FSS.NLB
Sample Size: 8.187E+002 g
Sample Taken On: 11/10/2005 4:00:00 PM
Acquisition Started: 11/14/2005 9:43:54 AM
Live Time: 900.0 seconds
Real Time: 901.2 seconds
Dead Time: 0.13 %
Efficiency ID: srs035

	IDENTIFIED RADIONUCLIDES			UNIDENTIFIED RADIONUCLIDES		
Nuclide Name	Nuclide Activity (pCi/g)	Activity Uncert. (pCi/g)	Nuclide MDA (pCi/g)	Line Activity (pCi/g)	Line Act Uncert. (pCi/g)	Line MDA (pCi/g)
K-40	1.89E+001	8.52E+001	2.34E+000	FOUND		
MN-54	NOT FOUND/DATA for 834.83 keV			2.27E-002	7.58E-002	1.54E-001
CO-57	NOT FOUND/DATA for 122.06 keV			-5.21E-002	7.69E-002	1.22E-001
CO-60	NOT FOUND/DATA for 1332.50 keV			2.16E-002	8.41E-002	1.77E-001
ZN-65	NOT FOUND/DATA for 1115.55 keV			-2.95E-002	2.16E-001	3.27E-001
AG-110m	NOT FOUND/DATA for 657.76 keV			-3.14E-002	7.59E-002	1.31E-001
SB-125	NOT FOUND/DATA for 427.89 keV			2.27E-001	2.10E-001	4.38E-001
CS-134	NOT FOUND/DATA for 795.84 keV			-2.71E-002	7.39E-002	1.37E-001
CS-137	NOT FOUND/DATA for 661.66 keV			1.98E-001	1.06E-001	2.36E-001
TL-208	2.26E-001	9.22E-002	1.61E-001	FOUND		
PB-212	8.89E-001	1.83E-001	3.38E-001	FOUND		
BI-214	6.41E-001	5.40E-001	2.26E-001	FOUND		
PB-214	7.68E-001	6.39E-001	3.73E-001	FOUND		
RA-226	NOT FOUND/DATA for 186.10 keV			2.29E+000	1.93E+000	3.70E+000
AC-228	NOT FOUND/DATA for 911.21 keV			1.07E+000	4.67E-001	1.06E+000
TH-230	NOT FOUND/DATA for 67.67 keV			-1.56E+001	3.37E+001	5.72E+001
PA-231	NOT FOUND/DATA for 300.02 keV			5.25E+000	3.52E+000	5.63E+000
PA-234	NOT FOUND/DATA for 131.20 keV			8.22E-002	3.15E-001	5.39E-001
PA-234M	NOT FOUND/DATA for 1001.03 keV			-1.32E+001	1.46E+001	2.08E+001
TH-234	NOT FOUND/DATA for 92.60 keV			9.89E-001	1.46E+000	2.59E+000
U-234	NOT FOUND/DATA for 53.20 keV			1.78E+001	2.52E+002	4.67E+002
U-235	NOT FOUND/DATA for 185.71 keV			1.86E-001	1.17E-001	2.29E-001
U-238	NOT FOUND/DATA for 92.60 keV			9.89E-001	1.46E+000	2.59E+000
AM-241	NOT FOUND/DATA for 59.54 keV			-3.61E-001	5.26E-001	8.84E-001

Uncertainty reported at 2.0 sigma

****
***** C E R T I F I C A T E O F A N A L Y S I S *****
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Site Location: CE Windsor
Sample ID: FSS-CE-02
Sample Title: FSS-22-2
Detector Name: 30%HPGE
Nuclide Library Used: C:\GENIE2K\CAMFILES\FSS.NLB
Sample Size: 6.491E+002 g
Sample Taken On: 10/31/2005 10:05:00 AM
Acquisition Started: 11/2/2005 9:24:03 AM
Live Time: 900.0 seconds
Real Time: 901.5 seconds
Dead Time: 0.16 %
Efficiency ID: srs035

Nuclide Name	IDENTIFIED RADIONUCLIDES Nuclide Activity (pCi/g)	Activity Uncert. (pCi/g)	Nuclide MDA (pCi/g)	UNIDENTIFIED RADIONUCLIDES Line Activity (pCi/g)	Line Act Uncert. (pCi/g)	Line MDA (pCi/g)
K-40	2.02E+001	1.00E+001	2.03E+000	FOUND		
MN-54	NOT FOUND/DATA for 834.83 keV			7.18E-002	7.77E-002	1.81E-001
CO-57	NOT FOUND/DATA for 122.06 keV			-7.40E-002	9.87E-002	1.55E-001
CO-60	NOT FOUND/DATA for 1332.50 keV			4.36E-002	8.03E-002	1.89E-001
ZN-65	NOT FOUND/DATA for 1115.55 keV			-2.65E-002	2.02E-001	3.73E-001
AG-110m	NOT FOUND/DATA for 657.76 keV			-7.31E-002	8.85E-002	1.41E-001
SB-125	NOT FOUND/DATA for 427.89 keV			-5.01E-003	2.40E-001	4.37E-001
CS-134	NOT FOUND/DATA for 604.70 keV			-2.01E-002	9.16E-002	1.66E-001
CS-137	NOT FOUND/DATA for 661.66 keV			9.01E-002	1.06E-001	2.25E-001
TL-208	NOT FOUND/DATA for 583.19 keV			2.89E-001	1.44E-001	3.12E-001
PB-212	1.04E+000	4.02E-001	4.35E-001	FOUND		
BI-214	9.45E-001	9.02E-001	3.66E-001	FOUND		
PB-214	8.95E-001	6.10E-001	5.11E-001	FOUND		
RA-226	NOT FOUND/DATA for 186.10 keV			1.92E+000	2.04E+000	3.93E+000
AC-228	NOT FOUND/DATA for 911.21 keV			1.20E+000	5.47E-001	1.25E+000
TH-230	NOT FOUND/DATA for 67.67 keV			3.22E+001	3.76E+001	7.34E+001
PA-231	NOT FOUND/DATA for 300.02 keV			3.47E+000	3.67E+000	6.45E+000
PA-234	NOT FOUND/DATA for 131.20 keV			-2.03E-001	4.10E-001	6.36E-001
PA-234M	NOT FOUND/DATA for 1001.03 keV			8.22E+000	1.36E+001	3.10E+001
TH-234	NOT FOUND/DATA for 92.60 keV			1.98E+000	1.74E+000	3.20E+000
U-234	NOT FOUND/DATA for 53.20 keV			2.64E+002	3.13E+002	6.19E+002
U-235	NOT FOUND/DATA for 185.71 keV			1.29E-001	1.25E-001	2.42E-001
U-238	NOT FOUND/DATA for 92.60 keV			1.98E+000	1.74E+000	3.20E+000
AM-241	NOT FOUND/DATA for 59.54 keV			7.02E-002	6.36E-001	1.18E+000

Uncertainty reported at 2.0 sigma

****
***** C E R T I F I C A T E O F A N A L Y S I S *****
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Site Location: CE Windsor
Sample ID: FSS-CE-03
Sample Title: FSS-22-3
Detector Name: 30%HPGE
Nuclide Library Used: C:\GENIE2K\CAMFILES\FSS.NLB
Sample Size: 6.265E+002 g
Sample Taken On: 10/31/2005 8:25:00 AM
Acquisition Started: 11/2/2005 1:01:00 PM
Live Time: 900.0 seconds
Real Time: 901.4 seconds
Dead Time: 0.16 %
Efficiency ID: srs035

	IDENTIFIED RADIONUCLIDES			UNIDENTIFIED RADIONUCLIDES		
Nuclide Name	Nuclide Activity (pCi/g)	Activity Uncert. (pCi/g)	Nuclide MDA (pCi/g)	Line Activity (pCi/g)	Line Act Uncert. (pCi/g)	Line MDA (pCi/g)
K-40	2.01E+001	8.60E+000	2.90E+000	FOUND		
MN-54	NOT FOUND/DATA for 834.83 keV			6.38E-002	7.82E-002	1.81E-001
CO-57	NOT FOUND/DATA for 122.06 keV			8.08E-002	1.04E-001	1.86E-001
CO-60	NOT FOUND/DATA for 1173.24 keV			5.94E-002	1.13E-001	2.31E-001
ZN-65	NOT FOUND/DATA for 1115.55 keV			2.17E-002	2.26E-001	3.87E-001
AG-110m	NOT FOUND/DATA for 657.76 keV			-3.59E-002	8.57E-002	1.52E-001
SB-125	NOT FOUND/DATA for 427.89 keV			-4.76E-002	2.63E-001	4.74E-001
CS-134	NOT FOUND/DATA for 604.70 keV			9.82E-003	1.12E-001	2.05E-001
CS-137	NOT FOUND/DATA for 661.66 keV			6.97E-002	1.14E-001	2.28E-001
TL-208	NOT FOUND/DATA for 583.19 keV			4.06E-001	1.58E-001	3.50E-001
PB-212	1.08E+000	2.34E-001	4.59E-001	FOUND		
BI-214	1.66E+000	6.70E-001	4.86E-001	FOUND		
PB-214	8.84E-001	2.14E-001	4.14E-001	FOUND		
RA-226	NOT FOUND/DATA for 186.10 keV			3.14E+000	2.35E+000	4.58E+000
AC-228	NOT FOUND/DATA for 911.21 keV			1.00E+000	5.06E-001	1.18E+000
TH-230	NOT FOUND/DATA for 67.67 keV			-7.50E+000	4.22E+001	7.35E+001
PA-231	NOT FOUND/DATA for 300.02 keV			-1.64E+000	3.70E+000	5.99E+000
PA-234	NOT FOUND/DATA for 98.44 keV			-4.80E-001	4.50E-001	6.61E-001
PA-234M	NOT FOUND/DATA for 1001.03 keV			3.37E+000	1.87E+001	3.76E+001
TH-234	NOT FOUND/DATA for 92.60 keV			1.98E+000	2.00E+000	3.60E+000
U-234	NOT FOUND/DATA for 53.20 keV			8.31E+001	3.67E+002	6.90E+002
U-235	NOT FOUND/DATA for 185.71 keV			1.57E-001	1.41E-001	2.72E-001
U-238	NOT FOUND/DATA for 92.60 keV			1.98E+000	2.00E+000	3.60E+000
AM-241	NOT FOUND/DATA for 59.54 keV			7.96E-001	6.65E-001	1.33E+000

Uncertainty reported at 2.0 sigma

****
***** C E R T I F I C A T E O F A N A L Y S I S *****
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Site Location: CE Windsor
Sample ID: FSS-CE-04
Sample Title: FSS-22-4
Detector Name: 30%HPGE
Nuclide Library Used: C:\GENIE2K\CAMFILES\FSS.NLB
Sample Size: 7.348E+002 g
Sample Taken On: 10/27/2005 11:10:00 AM
Acquisition Started: 11/2/2005 1:35:44 PM
Live Time: 900.0 seconds
Real Time: 901.4 seconds
Dead Time: 0.16 %
Efficiency ID: srs035

	IDENTIFIED RADIONUCLIDES			UNIDENTIFIED RADIONUCLIDES		
Nuclide Name	Nuclide Activity (pCi/g)	Activity Uncert. (pCi/g)	Nuclide MDA (pCi/g)	Line Activity (pCi/g)	Line Act Uncert. (pCi/g)	Line MDA (pCi/g)
K-40	2.17E+001	3.06E+000	1.53E+000	FOUND		
MN-54	NOT FOUND/DATA for 834.83 keV			1.07E-001	9.68E-002	2.11E-001
CO-57	NOT FOUND/DATA for 122.06 keV			-6.43E-002	8.81E-002	1.39E-001
CO-60	NOT FOUND/DATA for 1173.24 keV			2.04E-002	8.74E-002	1.81E-001
ZN-65	NOT FOUND/DATA for 1115.55 keV			1.58E-002	2.16E-001	3.96E-001
AG-110m	NOT FOUND/DATA for 657.76 keV			-8.80E-002	9.11E-002	1.26E-001
SB-125	NOT FOUND/DATA for 427.89 keV			-3.80E-002	2.27E-001	4.13E-001
CS-134	NOT FOUND/DATA for 604.70 keV			-7.73E-002	8.06E-002	1.27E-001
CS-137	NOT FOUND/DATA for 661.66 keV			1.09E-001	1.05E-001	2.23E-001
TL-208	3.91E-001	1.23E-001	1.72E-001	FOUND		
PB-212	8.79E-001	2.01E-001	3.97E-001	FOUND		
BI-214	7.32E-001	7.90E-001	3.15E-001	FOUND		
PB-214	6.93E-001	2.09E-001	3.79E-001	FOUND		
RA-226	NOT FOUND/DATA for 186.10 keV			2.80E+000	2.01E+000	3.93E+000
AC-228	NOT FOUND/DATA for 911.21 keV			1.39E+000	5.39E-001	1.22E+000
TH-230	NOT FOUND/DATA for 67.67 keV			2.30E+001	3.42E+001	6.59E+001
PA-231	NOT FOUND/DATA for 300.02 keV			3.39E+000	3.20E+000	5.64E+000
PA-234	NOT FOUND/DATA for 98.44 keV			-7.40E-002	3.69E-001	5.95E-001
PA-234M	NOT FOUND/DATA for 1001.03 keV			-1.14E+001	1.63E+001	2.47E+001
TH-234	NOT FOUND/DATA for 92.60 keV			1.48E+000	1.64E+000	2.90E+000
U-234	NOT FOUND/DATA for 53.20 keV			-1.77E+002	2.92E+002	4.94E+002
U-235	NOT FOUND/DATA for 185.71 keV			8.87E-002	1.23E-001	2.32E-001
U-238	NOT FOUND/DATA for 92.60 keV			1.48E+000	1.64E+000	2.90E+000
AM-241	NOT FOUND/DATA for 59.54 keV			-3.09E-001	5.35E-001	9.25E-001

Uncertainty reported at 2.0 sigma

CERTIFICATE OF ANALYSIS

Site Location: CE Windsor
Sample ID: FSS-CE-05
Sample Title: FSS-22-5
Detector Name: 30%HPGE
Nuclide Library Used: C:\GENIE2K\CAMFILES\FSS.NLB
Sample Size: 7.238E+002 g
Sample Taken On: 10/27/2005 10:50:00 AM
Acquisition Started: 11/2/2005 1:56:06 PM
Live Time: 900.0 seconds
Real Time: 901.5 seconds
Dead Time: 0.17 %
Efficiency ID: srs035

	IDENTIFIED RADIONUCLIDES			UNIDENTIFIED RADIONUCLIDES		
Nuclide Name	Nuclide Activity (pCi/g)	Activity Uncert. (pCi/g)	Nuclide MDA (pCi/g)	Line Activity (pCi/g)	Line Act Uncert. (pCi/g)	Line MDA (pCi/g)
K-40	2.28E+001	9.14E+000	1.58E+000	FOUND		
MN-54	NOT FOUND/DATA for 834.83 keV			1.71E-002	6.76E-002	1.38E-001
CO-57	NOT FOUND/DATA for 122.06 keV			-7.22E-002	8.76E-002	1.36E-001
CO-60	NOT FOUND/DATA for 1332.50 keV			-1.91E-002	9.37E-002	1.70E-001
ZN-65	NOT FOUND/DATA for 1115.55 keV			3.42E-002	2.06E-001	3.72E-001
AG-110m	NOT FOUND/DATA for 657.76 keV			-2.95E-002	7.63E-002	1.39E-001
SB-125	NOT FOUND/DATA for 427.89 keV			3.62E-002	2.24E-001	4.28E-001
CS-134	NOT FOUND/DATA for 604.70 keV			-6.36E-002	8.00E-002	1.33E-001
CS-137	NOT FOUND/DATA for 661.66 keV			1.15E-001	1.04E-001	2.22E-001
TL-208	4.23E-001	3.24E-001	1.58E-001	FOUND		
PB-212	1.02E+000	2.02E-001	3.42E-001	FOUND		
BI-214	6.90E-001	5.38E-001	3.74E-001	FOUND		
PB-214	5.80E-001	2.04E-001	4.22E-001	FOUND		
RA-226	NOT FOUND/DATA for 186.10 keV			1.71E+000	1.93E+000	3.68E+000
AC-228	NOT FOUND/DATA for 911.21 keV			5.24E-001	4.02E-001	8.98E-001
TH-230	NOT FOUND/DATA for 67.67 keV			5.72E-002	3.27E+001	6.01E+001
PA-231	NOT FOUND/DATA for 300.02 keV			1.05E+000	3.05E+000	5.46E+000
PA-234	NOT FOUND/DATA for 98.44 keV			1.26E-001	3.53E-001	6.04E-001
PA-234M	NOT FOUND/DATA for 1001.03 keV			-3.53E+000	1.55E+001	2.91E+001
TH-234	NOT FOUND/DATA for 92.60 keV			2.16E+000	1.59E+000	2.97E+000
U-234	NOT FOUND/DATA for 53.20 keV			-1.03E+002	2.97E+002	5.29E+002
U-235	NOT FOUND/DATA for 185.71 keV			1.39E-001	1.20E-001	2.31E-001
U-238	NOT FOUND/DATA for 92.60 keV			2.16E+000	1.59E+000	2.97E+000
AM-241	NOT FOUND/DATA for 59.54 keV			1.65E-001	4.98E-001	9.52E-001

Uncertainty reported at 2.0 sigma

****
***** C E R T I F I C A T E O F A N A L Y S I S *****
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Site Location: CE Windsor
Sample ID: FSS-CE-06
Sample Title: FSS-22-6
Detector Name: 30%HPGE
Nuclide Library Used: C:\GENIE2K\CAMFILES\FSS.NLB
Sample Size: 7.218E+002 g
Sample Taken On: 10/31/2005 10:00:00 AM
Acquisition Started: 11/2/2005 2:15:28 PM
Live Time: 900.0 seconds
Real Time: 901.5 seconds
Dead Time: 0.16 %
Efficiency ID: srs035

	IDENTIFIED RADIONUCLIDES			UNIDENTIFIED RADIONUCLIDES		
Nuclide Name	Nuclide Activity (pCi/g)	Activity Uncert. (pCi/g)	Nuclide MDA (pCi/g)	Line Activity (pCi/g)	Line Act Uncert. (pCi/g)	Line MDA (pCi/g)
K-40	1.77E+001	8.69E+000	1.35E+000	FOUND		
MN-54	NOT FOUND/DATA for 834.83 keV			-9.90E-003	7.85E-002	1.51E-001
CO-57	NOT FOUND/DATA for 122.06 keV			6.93E-002	8.75E-002	1.57E-001
CO-60	NOT FOUND/DATA for 1332.50 keV			-2.41E-002	7.89E-002	1.30E-001
ZN-65	NOT FOUND/DATA for 1115.55 keV			-6.77E-002	2.37E-001	3.69E-001
AG-110m	NOT FOUND/DATA for 1384.30 keV			0.00E+000	0.00E+000	1.38E-001
SB-125	NOT FOUND/DATA for 427.89 keV			-7.59E-002	2.38E-001	4.20E-001
CS-134	NOT FOUND/DATA for 604.70 keV			-4.16E-002	9.00E-002	1.42E-001
CS-137	NOT FOUND/DATA for 661.66 keV			1.46E-001	1.19E-001	2.51E-001
TL-208	2.34E-001	4.81E-002	1.79E-001	FOUND		
PB-212	5.75E-001	1.69E-001	3.31E-001	FOUND		
BI-214	5.83E-001	2.14E-001	3.30E-001	FOUND		
PB-214	7.26E-001	2.12E-001	3.74E-001	FOUND		
RA-226	NOT FOUND/DATA for 186.10 keV			3.11E+000	2.04E+000	4.00E+000
AC-228	NOT FOUND/DATA for 911.21 keV			8.08E-001	4.50E-001	1.02E+000
TH-230	NOT FOUND/DATA for 67.67 keV			-9.77E-001	3.58E+001	6.49E+001
PA-231	NOT FOUND/DATA for 300.02 keV			2.26E+000	3.15E+000	5.64E+000
PA-234	NOT FOUND/DATA for 131.20 keV			-4.36E-001	4.41E-001	5.34E-001
PA-234M	NOT FOUND/DATA for 1001.03 keV			-3.65E+000	1.64E+001	2.79E+001
TH-234	NOT FOUND/DATA for 92.60 keV			1.64E+000	1.64E+000	2.96E+000
U-234	NOT FOUND/DATA for 53.20 keV			-1.74E+002	2.73E+002	4.50E+002
U-235	NOT FOUND/DATA for 185.71 keV			1.66E-001	1.22E-001	2.39E-001
U-238	NOT FOUND/DATA for 92.60 keV			1.64E+000	1.64E+000	2.96E+000
AM-241	NOT FOUND/DATA for 59.54 keV			-3.49E-001	5.41E-001	9.29E-001

Uncertainty reported at 2.0 sigma

****
***** C E R T I F I C A T E O F A N A L Y S I S *****
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Site Location: CE Windsor
Sample ID: FSS-CE-07
Sample Title: FSS-22-7
Detector Name: 30%HPGE
Nuclide Library Used: C:\GENIE2K\CAMFILES\FSS.NLB
Sample Size: 5.989E+002 g
Sample Taken On: 10/31/2005 9:55:00 AM
Acquisition Started: 11/2/2005 2:34:38 PM
Live Time: 900.0 seconds
Real Time: 901.5 seconds
Dead Time: 0.17 %
Efficiency ID: srs035

	IDENTIFIED RADIONUCLIDES			UNIDENTIFIED RADIONUCLIDES		
Nuclide Name	Nuclide Activity (pCi/g)	Activity Uncert. (pCi/g)	Nuclide MDA (pCi/g)	Line Activity (pCi/g)	Line Act Uncert. (pCi/g)	Line MDA (pCi/g)
K-40	2.05E+001	9.78E+000	3.16E+000	FOUND		
MN-54	NOT FOUND/DATA for 834.83 keV			6.53E-002	9.76E-002	2.10E-001
CO-57	NOT FOUND/DATA for 122.06 keV			-2.37E-003	1.01E-001	1.72E-001
CO-60	NOT FOUND/DATA for 1332.50 keV			-1.45E-002	8.30E-002	1.74E-001
ZN-65	NOT FOUND/DATA for 1115.55 keV			-3.83E-002	1.99E-001	3.83E-001
AG-110m	NOT FOUND/DATA for 657.76 keV			-5.02E-002	1.12E-001	1.78E-001
SB-125	NOT FOUND/DATA for 427.89 keV			5.78E-002	2.54E-001	4.95E-001
CS-134	NOT FOUND/DATA for 795.84 keV			-6.74E-002	1.09E-001	1.87E-001
CS-137	2.92E-001	1.23E-001	1.82E-001	FOUND		
TL-208	3.65E-001	1.34E-001	2.22E-001	FOUND		
PB-212	1.99E+000	4.96E-001	3.93E-001	FOUND		
BI-214	1.13E+000	9.30E-001	4.47E-001	FOUND		
PB-214	6.55E-001	1.76E-001	5.75E-001	FOUND		
RA-226	NOT FOUND/DATA for 186.10 keV			2.09E+000	2.34E+000	4.44E+000
AC-228	1.34E+000	4.01E-001	6.90E-001	FOUND		
TH-230	NOT FOUND/DATA for 67.67 keV			-1.82E+001	3.92E+001	6.81E+001
PA-231	NOT FOUND/DATA for 300.02 keV			4.26E-001	3.71E+000	6.54E+000
PA-234	NOT FOUND/DATA for 98.44 keV			2.07E-002	4.18E-001	7.13E-001
PA-234M	NOT FOUND/DATA for 1001.03 keV			1.48E+001	1.92E+001	4.18E+001
TH-234	NOT FOUND/DATA for 92.60 keV			7.88E-001	1.97E+000	3.40E+000
U-234	NOT FOUND/DATA for 53.20 keV			-2.41E+002	3.51E+002	5.97E+002
U-235	NOT FOUND/DATA for 185.71 keV			1.36E-001	1.44E-001	2.75E-001
U-238	NOT FOUND/DATA for 92.60 keV			7.88E-001	1.97E+000	3.40E+000
AM-241	NOT FOUND/DATA for 59.54 keV			-3.68E-001	7.50E-001	1.25E+000

Uncertainty reported at 2.0 sigma

****
***** C E R T I F I C A T E O F A N A L Y S I S *****
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Site Location: CE Windsor
Sample ID: FSS-CE-08
Sample Title: FSS-22-8
Detector Name: 30%HPGE
Nuclide Library Used: C:\GENIE2K\CAMFILES\FSS.NLB
Sample Size: 5.701E+002 g
Sample Taken On: 10/31/2005 9:50:00 AM
Acquisition Started: 11/2/2005 2:51:57 PM
Live Time: 900.0 seconds
Real Time: 901.4 seconds
Dead Time: 0.15 %
Efficiency ID: srs035

	IDENTIFIED RADIONUCLIDES			UNIDENTIFIED RADIONUCLIDES		
Nuclide Name	Nuclide Activity (pCi/g)	Activity Uncert. (pCi/g)	Nuclide MDA (pCi/g)	Line Activity (pCi/g)	Line Act Uncert. (pCi/g)	Line MDA (pCi/g)
K-40	2.24E+001	3.74E+000	3.04E+000	FOUND		
MN-54	NOT FOUND/DATA for 834.83 keV			-1.14E-003	1.02E-001	1.99E-001
CO-57	NOT FOUND/DATA for 122.06 keV			-8.23E-003	1.08E-001	1.78E-001
CO-60	NOT FOUND/DATA for 1173.24 keV			1.56E-001	1.22E-001	2.90E-001
ZN-65	NOT FOUND/DATA for 1115.55 keV			-2.06E-001	3.73E-001	4.47E-001
AG-110m	NOT FOUND/DATA for 657.76 keV			-5.77E-002	1.22E-001	1.87E-001
SB-125	NOT FOUND/DATA for 427.89 keV			-2.54E-001	2.78E-001	4.49E-001
CS-134	NOT FOUND/DATA for 604.70 keV			6.68E-003	9.37E-002	1.79E-001
CS-137	3.32E-001	5.08E-001	2.01E-001	FOUND		
TL-208	5.61E-001	4.94E-001	2.19E-001	FOUND		
PB-212	1.71E+000	6.60E-001	4.97E-001	FOUND		
BI-214	9.26E-001	7.89E-001	4.52E-001	FOUND		
PB-214	8.88E-001	1.05E+000	5.09E-001	FOUND		
RA-226	NOT FOUND/DATA for 186.10 keV			1.45E+000	2.53E+000	4.72E+000
AC-228	NOT FOUND/DATA for 911.21 keV			1.21E+000	5.95E-001	1.36E+000
TH-230	NOT FOUND/DATA for 67.67 keV			1.54E+001	4.54E+001	8.49E+001
PA-231	NOT FOUND/DATA for 300.02 keV			2.55E+000	4.46E+000	7.90E+000
PA-234	NOT FOUND/DATA for 98.44 keV			-4.03E-002	4.12E-001	6.93E-001
PA-234M	NOT FOUND/DATA for 1001.03 keV			6.79E+000	2.13E+001	3.84E+001
TH-234	NOT FOUND/DATA for 92.60 keV			1.26E+000	2.07E+000	3.65E+000
U-234	NOT FOUND/DATA for 53.20 keV			3.91E+002	3.99E+002	7.73E+002
U-235	NOT FOUND/DATA for 185.71 keV			1.44E-001	1.53E-001	2.92E-001
U-238	NOT FOUND/DATA for 92.60 keV			1.26E+000	2.07E+000	3.65E+000
AM-241	NOT FOUND/DATA for 59.54 keV			0.00E+000	6.49E-001	1.21E+000

Uncertainty reported at 2.0 sigma

****
***** C E R T I F I C A T E O F A N A L Y S I S *****
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Site Location: CE Windsor
Sample ID: FSS-CE-09
Sample Title: FSS-22-9
Detector Name: 30%HPGE
Nuclide Library Used: C:\GENIE2K\CAMFILES\FSS.NLB
Sample Size: 6.495E+002 g
Sample Taken On: 10/31/2005 8:35:00 AM
Acquisition Started: 11/2/2005 3:18:32 PM
Live Time: 900.0 seconds
Real Time: 901.5 seconds
Dead Time: 0.17 %
Efficiency ID: srs035

	IDENTIFIED RADIONUCLIDES			UNIDENTIFIED RADIONUCLIDES		
Nuclide Name	Nuclide Activity (pCi/g)	Activity Uncert. (pCi/g)	Nuclide MDA (pCi/g)	Line Activity (pCi/g)	Line Act Uncert. (pCi/g)	Line MDA (pCi/g)
K-40	2.41E+001	3.54E+000	2.80E+000	FOUND		
MN-54	NOT FOUND/DATA for 834.83 keV			6.49E-002	9.18E-002	2.00E-001
CO-57	NOT FOUND/DATA for 122.06 keV			-7.53E-002	9.80E-002	1.55E-001
CO-60	NOT FOUND/DATA for 1332.50 keV			5.32E-002	9.06E-002	2.12E-001
ZN-65	NOT FOUND/DATA for 1115.55 keV			1.64E-002	2.43E-001	4.43E-001
AG-110m	NOT FOUND/DATA for 657.76 keV			8.44E-003	8.70E-002	1.70E-001
SB-125	NOT FOUND/DATA for 427.89 keV			1.17E-001	2.11E-001	4.37E-001
CS-134	NOT FOUND/DATA for 604.70 keV			-5.43E-003	9.57E-002	1.71E-001
CS-137	NOT FOUND/DATA for 661.66 keV			6.00E-002	1.17E-001	2.30E-001
TL-208	3.62E-001	1.22E-001	2.04E-001	FOUND		
PB-212	8.65E-001	2.10E-001	3.91E-001	FOUND		
BI-214	7.44E-001	8.48E-001	3.41E-001	FOUND		
PB-214	7.76E-001	4.58E-001	4.57E-001	FOUND		
RA-226	NOT FOUND/DATA for 186.10 keV			2.07E+000	2.24E+000	4.26E+000
AC-228	9.16E-001	3.02E-001	7.29E-001	FOUND		
TH-230	NOT FOUND/DATA for 67.67 keV			1.60E+001	3.95E+001	7.45E+001
PA-231	NOT FOUND/DATA for 300.02 keV			2.19E+000	3.60E+000	6.44E+000
PA-234	NOT FOUND/DATA for 131.20 keV			-3.53E-001	4.49E-001	6.19E-001
PA-234M	NOT FOUND/DATA for 1001.03 keV			1.27E+001	1.79E+001	3.85E+001
TH-234	NOT FOUND/DATA for 92.60 keV			2.62E+000	1.86E+000	3.45E+000
U-234	NOT FOUND/DATA for 53.20 keV			6.27E+001	3.21E+002	5.97E+002
U-235	NOT FOUND/DATA for 185.71 keV			8.55E-002	1.37E-001	2.56E-001
U-238	NOT FOUND/DATA for 92.60 keV			2.62E+000	1.86E+000	3.45E+000
AM-241	NOT FOUND/DATA for 59.54 keV			-6.53E-002	6.94E-001	1.21E+000

Uncertainty reported at 2.0 sigma

****
***** C E R T I F I C A T E O F A N A L Y S I S *****
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Site Location: CE Windsor
Sample ID: FSS-CE-09-DUP
Sample Title: FSS-22-9-DUP
Detector Name: 30%HPGE
Nuclide Library Used: C:\GENIE2K\CAMFILES\FSS.NLB
Sample Size: 8.593E+002 g
Sample Taken On: 11/10/2005 3:45:00 PM
Acquisition Started: 11/14/2005 10:04:52 AM
Live Time: 900.0 seconds
Real Time: 901.3 seconds
Dead Time: 0.15 %
Efficiency ID: srs035

	IDENTIFIED RADIONUCLIDES			UNIDENTIFIED RADIONUCLIDES		
Nuclide Name	Nuclide Activity (pCi/g)	Activity Uncert. (pCi/g)	Nuclide MDA (pCi/g)	Line Activity (pCi/g)	Line Act Uncert. (pCi/g)	Line MDA (pCi/g)
K-40	2.30E+001	6.93E+000	1.47E+000	FOUND		
MN-54	NOT FOUND/DATA for 834.83 keV			-7.10E-003	6.62E-002	1.27E-001
CO-57	NOT FOUND/DATA for 122.06 keV			1.64E-002	7.43E-002	1.28E-001
CO-60	NOT FOUND/DATA for 1332.50 keV			4.83E-002	7.98E-002	1.76E-001
ZN-65	NOT FOUND/DATA for 1115.55 keV			-2.07E-002	1.89E-001	3.24E-001
AG-110m	NOT FOUND/DATA for 657.76 keV			-8.95E-002	7.50E-002	1.07E-001
SB-125	NOT FOUND/DATA for 427.89 keV			-4.78E-002	1.93E-001	3.46E-001
CS-134	NOT FOUND/DATA for 604.70 keV			-1.50E-002	6.73E-002	1.23E-001
CS-137	1.47E-001	2.38E-001	1.08E-001	FOUND		
TL-208	2.37E-001	9.08E-002	1.62E-001	FOUND		
PB-212	7.06E-001	1.70E-001	3.36E-001	FOUND		
BI-214	6.15E-001	6.54E-001	3.04E-001	FOUND		
PB-214	6.42E-001	6.47E-001	3.35E-001	FOUND		
RA-226	NOT FOUND/DATA for 186.10 keV			2.04E+000	1.74E+000	3.36E+000
AC-228	NOT FOUND/DATA for 911.21 keV			9.46E-001	4.23E-001	9.67E-001
TH-230	NOT FOUND/DATA for 67.67 keV			-4.68E+000	2.76E+001	5.01E+001
PA-231	NOT FOUND/DATA for 300.02 keV			3.47E-001	2.80E+000	4.74E+000
PA-234	NOT FOUND/DATA for 98.44 keV			2.51E-002	3.09E-001	5.26E-001
PA-234M	NOT FOUND/DATA for 1001.03 keV			-2.46E+000	7.85E+000	1.51E+001
TH-234	NOT FOUND/DATA for 92.60 keV			8.03E-001	1.39E+000	2.45E+000
U-234	NOT FOUND/DATA for 53.20 keV			-1.19E+002	2.37E+002	4.10E+002
U-235	NOT FOUND/DATA for 185.71 keV			8.83E-002	1.06E-001	2.00E-001
U-238	NOT FOUND/DATA for 92.60 keV			8.03E-001	1.39E+000	2.45E+000
AM-241	NOT FOUND/DATA for 59.54 keV			-5.43E-001	5.38E-001	8.62E-001

Uncertainty reported at 2.0 sigma

****
***** C E R T I F I C A T E O F A N A L Y S I S *****
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Site Location: CE Windsor
Sample ID: FSS-CE-10
Sample Title: FSS-22-10
Detector Name: 30%HPGE
Nuclide Library Used: C:\GENIE2K\CAMFILES\FSS.NLB
Sample Size: 6.914E+002 g
Sample Taken On: 10/27/2005 11:30:00 AM
Acquisition Started: 11/2/2005 3:36:10 PM
Live Time: 900.0 seconds
Real Time: 901.6 seconds
Dead Time: 0.18 %
Efficiency ID: srs035

	IDENTIFIED RADIONUCLIDES			UNIDENTIFIED RADIONUCLIDES		
Nuclide Name	Nuclide Activity (pCi/g)	Activity Uncert. (pCi/g)	Nuclide MDA (pCi/g)	Line Activity (pCi/g)	Line Act Uncert. (pCi/g)	Line MDA (pCi/g)
K-40	2.23E+001	1.23E+001	2.22E+000	FOUND		
MN-54	NOT FOUND/DATA for 834.83 keV			6.26E-003	7.96E-002	1.59E-001
CO-57	NOT FOUND/DATA for 122.06 keV			-2.67E-002	9.24E-002	1.53E-001
CO-60	NOT FOUND/DATA for 1332.50 keV			6.99E-003	7.79E-002	1.65E-001
ZN-65	NOT FOUND/DATA for 1115.55 keV			1.43E-001	1.89E-001	4.21E-001
AG-110m	NOT FOUND/DATA for 657.76 keV			-2.22E-002	9.43E-002	1.56E-001
SB-125	NOT FOUND/DATA for 427.89 keV			5.34E-002	2.19E-001	4.21E-001
CS-134	NOT FOUND/DATA for 795.84 keV			-2.28E-002	8.20E-002	1.54E-001
CS-137	NOT FOUND/DATA for 661.66 keV			1.90E-001	1.03E-001	2.40E-001
TL-208	3.01E-001	1.21E-001	2.21E-001	FOUND		
PB-212	7.71E-001	1.87E-001	4.33E-001	FOUND		
BI-214	8.07E-001	2.15E-001	2.51E-001	FOUND		
PB-214	7.12E-001	2.15E-001	4.26E-001	FOUND		
RA-226	NOT FOUND/DATA for 186.10 keV			-5.53E-002	1.95E+000	3.52E+000
AC-228	NOT FOUND/DATA for 911.21 keV			1.09E+000	5.10E-001	1.16E+000
TH-230	NOT FOUND/DATA for 67.67 keV			-9.47E+000	3.44E+001	6.16E+001
PA-231	NOT FOUND/DATA for 300.02 keV			5.54E-001	3.39E+000	5.94E+000
PA-234	NOT FOUND/DATA for 98.44 keV			1.68E-001	3.36E-001	5.91E-001
PA-234M	NOT FOUND/DATA for 1001.03 keV			6.08E+000	1.65E+001	3.40E+001
TH-234	NOT FOUND/DATA for 92.60 keV			1.54E+000	1.74E+000	3.14E+000
U-234	NOT FOUND/DATA for 53.20 keV			-6.50E+000	3.19E+002	5.87E+002
U-235	NOT FOUND/DATA for 185.71 keV			9.75E-003	1.19E-001	2.12E-001
U-238	NOT FOUND/DATA for 92.60 keV			1.54E+000	1.74E+000	3.14E+000
AM-241	NOT FOUND/DATA for 59.54 keV			-4.12E-002	5.94E-001	1.08E+000

Uncertainty reported at 2.0 sigma

****
***** C E R T I F I C A T E O F A N A L Y S I S *****
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Site Location: CE Windsor
Sample ID: FSS-CE-11
Sample Title: FSS-22-11
Detector Name: 30%HPGE
Nuclide Library Used: C:\GENIE2K\CAMFILES\FSS.NLB
Sample Size: 6.806E+002 g
Sample Taken On: 10/27/2005 10:45:00 AM
Acquisition Started: 11/2/2005 4:26:56 PM
Live Time: 900.0 seconds
Real Time: 901.4 seconds
Dead Time: 0.16 %
Efficiency ID: srs035

	IDENTIFIED RADIONUCLIDES			UNIDENTIFIED RADIONUCLIDES		
Nuclide Name	Nuclide Activity (pCi/g)	Activity Uncert. (pCi/g)	Nuclide MDA (pCi/g)	Line Activity (pCi/g)	Line Act Uncert. (pCi/g)	Line MDA (pCi/g)
K-40	2.42E+001	3.50E+000	1.98E+000	FOUND		
MN-54	NOT FOUND/DATA for 834.83 keV			-4.50E-002	9.05E-002	1.62E-001
CO-57	NOT FOUND/DATA for 122.06 keV			-3.38E-002	9.40E-002	1.54E-001
CO-60	NOT FOUND/DATA for 1332.50 keV			-2.13E-002	1.00E-001	1.92E-001
ZN-65	NOT FOUND/DATA for 1115.55 keV			-9.91E-002	2.25E-001	3.96E-001
AG-110m	NOT FOUND/DATA for 657.76 keV			2.48E-003	8.74E-002	1.69E-001
SB-125	NOT FOUND/DATA for 427.89 keV			1.03E-001	2.47E-001	4.81E-001
CS-134	NOT FOUND/DATA for 604.70 keV			-8.79E-003	9.61E-002	1.79E-001
CS-137	NOT FOUND/DATA for 661.66 keV			7.41E-002	1.03E-001	2.15E-001
TL-208	3.35E-001	1.67E-001	1.88E-001	FOUND		
PB-212	NOT FOUND/DATA for 238.63 keV			8.79E-001	2.38E-001	4.91E-001
BI-214	8.95E-001	6.95E-001	3.10E-001	FOUND		
PB-214	7.20E-001	1.12E-001	4.91E-001	FOUND		
RA-226	NOT FOUND/DATA for 186.10 keV			-5.27E-002	2.03E+000	3.65E+000
AC-228	NOT FOUND/DATA for 911.21 keV			1.15E+000	5.31E-001	1.21E+000
TH-230	NOT FOUND/DATA for 67.67 keV			5.61E+000	3.62E+001	6.64E+001
PA-231	NOT FOUND/DATA for 300.02 keV			9.83E-001	3.00E+000	5.39E+000
PA-234	NOT FOUND/DATA for 98.44 keV			2.19E-002	3.46E-001	5.88E-001
PA-234M	NOT FOUND/DATA for 1001.03 keV			-6.80E+000	2.00E+001	3.22E+001
TH-234	NOT FOUND/DATA for 92.60 keV			4.44E-001	1.76E+000	3.04E+000
U-234	NOT FOUND/DATA for 53.20 keV			-6.12E+001	2.94E+002	5.33E+002
U-235	NOT FOUND/DATA for 185.71 keV			-3.20E-002	1.27E-001	2.22E-001
U-238	NOT FOUND/DATA for 92.60 keV			4.44E-001	1.76E+000	3.04E+000
AM-241	NOT FOUND/DATA for 59.54 keV			1.87E-001	5.22E-001	9.99E-001

Uncertainty reported at 2.0 sigma

****
***** C E R T I F I C A T E O F A N A L Y S I S *****
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Site Location: CE Windsor
Sample ID: FSS-CE-12
Sample Title: FSS-22-12
Detector Name: 30%HPGE
Nuclide Library Used: C:\GENIE2K\CAMFILES\FSS.NLB
Sample Size: 7.323E+002 g
Sample Taken On: 10/27/2005 10:30:00 AM
Acquisition Started: 11/2/2005 4:46:24 PM
Live Time: 900.0 seconds
Real Time: 901.3 seconds
Dead Time: 0.14 %
Efficiency ID: srs035

	IDENTIFIED RADIONUCLIDES			UNIDENTIFIED RADIONUCLIDES		
Nuclide Name	Nuclide Activity (pCi/g)	Activity Uncert. (pCi/g)	Nuclide MDA (pCi/g)	Line Activity (pCi/g)	Line Act Uncert. (pCi/g)	Line MDA (pCi/g)
K-40	2.09E+001	9.00E+000	2.10E+000	FOUND		
MN-54	NOT FOUND/DATA for 834.83 keV			2.95E-002	7.98E-002	1.62E-001
CO-57	NOT FOUND/DATA for 122.06 keV			4.31E-002	8.76E-002	1.53E-001
CO-60	NOT FOUND/DATA for 1332.50 keV			6.49E-002	7.62E-002	1.89E-001
ZN-65	NOT FOUND/DATA for 1115.55 keV			7.31E-002	1.70E-001	3.68E-001
AG-110m	NOT FOUND/DATA for 657.76 keV			-6.30E-002	9.23E-002	1.57E-001
SB-125	NOT FOUND/DATA for 427.89 keV			-1.66E-002	2.10E-001	3.89E-001
CS-134	NOT FOUND/DATA for 604.70 keV			-8.51E-002	8.70E-002	1.40E-001
CS-137	NOT FOUND/DATA for 661.66 keV			1.86E-002	1.03E-001	1.95E-001
TL-208	2.45E-001	1.01E-001	2.11E-001	FOUND		
PB-212	1.51E+000	3.75E-001	5.01E-001	FOUND		
BI-214	8.87E-001	2.36E-001	3.66E-001	FOUND		
PB-214	4.30E-001	1.85E-001	3.99E-001	FOUND		
RA-226	NOT FOUND/DATA for 186.10 keV			1.87E+000	2.09E+000	3.96E+000
AC-228	NOT FOUND/DATA for 911.21 keV			1.32E+000	5.27E-001	1.21E+000
TH-230	NOT FOUND/DATA for 67.67 keV			-5.29E+000	3.17E+001	5.63E+001
PA-231	NOT FOUND/DATA for 300.02 keV			1.11E+000	3.15E+000	5.61E+000
PA-234	NOT FOUND/DATA for 98.44 keV			1.11E-001	3.56E-001	6.17E-001
PA-234M	NOT FOUND/DATA for 1001.03 keV			-4.42E-001	1.25E+001	2.48E+001
TH-234	NOT FOUND/DATA for 92.60 keV			1.28E+000	1.72E+000	3.05E+000
U-234	NOT FOUND/DATA for 53.20 keV			6.86E+001	3.05E+002	5.73E+002
U-235	NOT FOUND/DATA for 185.71 keV			1.34E-001	1.26E-001	2.40E-001
U-238	NOT FOUND/DATA for 92.60 keV			1.28E+000	1.72E+000	3.05E+000
AM-241	NOT FOUND/DATA for 59.54 keV			1.09E-002	5.97E-001	1.08E+000

Uncertainty reported at 2.0 sigma

****
***** C E R T I F I C A T E O F A N A L Y S I S *****
****

Site Location: CE Windsor
Sample ID: FSS-CE-13
Sample Title: FSS-22-13
Detector Name: 30%HPGE
Nuclide Library Used: C:\GENIE2K\CAMFILES\FSS.NLB
Sample Size: 7.040E+002 g
Sample Taken On: 10/31/2005 9:30:00 AM
Acquisition Started: 11/3/2005 7:41:59 AM
Live Time: 900.0 seconds
Real Time: 901.3 seconds
Dead Time: 0.15 %
Efficiency ID: srs035

	IDENTIFIED RADIONUCLIDES			UNIDENTIFIED RADIONUCLIDES		
Nuclide Name	Nuclide Activity (pCi/g)	Activity Uncert. (pCi/g)	Nuclide MDA (pCi/g)	Line Activity (pCi/g)	Line Act Uncert. (pCi/g)	Line MDA (pCi/g)
K-40	2.19E+001	1.05E+001	2.51E+000	FOUND		
MN-54	NOT FOUND/DATA for 834.83 keV			-5.01E-002	8.59E-002	1.34E-001
CO-57	NOT FOUND/DATA for 122.06 keV			-4.52E-002	8.79E-002	1.42E-001
CO-60	NOT FOUND/DATA for 1332.50 keV			5.84E-002	7.42E-002	1.85E-001
ZN-65	NOT FOUND/DATA for 1115.55 keV			-1.48E-001	2.91E-001	3.79E-001
AG-110m	NOT FOUND/DATA for 657.76 keV			-6.90E-002	1.20E-001	1.79E-001
SB-125	NOT FOUND/DATA for 427.89 keV			2.38E-002	2.35E-001	4.47E-001
CS-134	NOT FOUND/DATA for 604.70 keV			-3.16E-002	1.03E-001	1.76E-001
CS-137	NOT FOUND/DATA for 661.66 keV			3.02E-001	1.35E-001	3.02E-001
TL-208	3.31E-001	4.52E-001	1.95E-001	FOUND		
PB-212	NOT FOUND/DATA for 238.63 keV			1.00E+000	2.57E-001	5.24E-001
BI-214	9.55E-001	9.09E-001	3.82E-001	FOUND		
PB-214	9.31E-001	3.26E-001	4.64E-001	FOUND		
RA-226	NOT FOUND/DATA for 186.10 keV			1.27E+000	2.09E+000	3.83E+000
AC-228	NOT FOUND/DATA for 911.21 keV			1.44E+000	5.93E-001	1.32E+000
TH-230	NOT FOUND/DATA for 67.67 keV			-1.28E+001	3.64E+001	6.30E+001
PA-231	NOT FOUND/DATA for 300.02 keV			1.97E+000	3.48E+000	6.15E+000
PA-234	NOT FOUND/DATA for 98.44 keV			-1.18E-001	3.61E-001	5.92E-001
PA-234M	NOT FOUND/DATA for 1001.03 keV			9.72E+000	1.76E+001	3.66E+001
TH-234	NOT FOUND/DATA for 92.60 keV			8.92E-001	1.69E+000	2.97E+000
U-234	NOT FOUND/DATA for 53.20 keV			-2.63E+002	3.34E+002	5.57E+002
U-235	NOT FOUND/DATA for 185.71 keV			1.16E-001	1.19E-001	2.29E-001
U-238	NOT FOUND/DATA for 92.60 keV			8.92E-001	1.69E+000	2.97E+000
AM-241	NOT FOUND/DATA for 59.54 keV			5.55E-001	5.84E-001	1.16E+000

Uncertainty reported at 2.0 sigma

****
***** C E R T I F I C A T E O F A N A L Y S I S *****
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Site Location: CE Windsor
Sample ID: FSS-CE-14
Sample Title: FSS-22-14
Detector Name: 30%HPGE
Nuclide Library Used: C:\GENIE2K\CAMFILES\FSS.NLB
Sample Size: 7.310E+002 g
Sample Taken On: 10/31/2005 8:50:00 AM
Acquisition Started: 11/3/2005 8:01:56 AM
Live Time: 900.0 seconds
Real Time: 901.6 seconds
Dead Time: 0.17 %
Efficiency ID: srs035

	IDENTIFIED RADIONUCLIDES			UNIDENTIFIED RADIONUCLIDES		
Nuclide Name	Nuclide Activity (pCi/g)	Activity Uncert. (pCi/g)	Nuclide MDA (pCi/g)	Line Activity (pCi/g)	Line Act Uncert. (pCi/g)	Line MDA (pCi/g)
K-40	2.11E+001	8.43E+000	1.78E+000	FOUND		
MN-54	NOT FOUND/DATA for 834.83 keV			-3.13E-002	6.56E-002	1.12E-001
CO-57	NOT FOUND/DATA for 122.06 keV			-3.66E-002	8.51E-002	1.36E-001
CO-60	NOT FOUND/DATA for 1332.50 keV			6.98E-002	8.74E-002	2.07E-001
ZN-65	NOT FOUND/DATA for 1115.55 keV			-1.69E-001	2.13E-001	3.49E-001
AG-110m	NOT FOUND/DATA for 657.76 keV			1.25E-002	7.97E-002	1.56E-001
SB-125	NOT FOUND/DATA for 427.89 keV			3.34E-003	1.89E-001	3.60E-001
CS-134	NOT FOUND/DATA for 604.70 keV			-3.39E-002	9.82E-002	1.59E-001
CS-137	NOT FOUND/DATA for 661.66 keV			7.84E-002	1.01E-001	2.04E-001
TL-208	NOT FOUND/DATA for 583.19 keV			2.56E-001	1.18E-001	2.62E-001
PB-212	8.10E-001	1.84E-001	3.78E-001	FOUND		
BI-214	7.76E-001	8.35E-001	3.62E-001	FOUND		
PB-214	6.69E-001	6.04E-001	3.69E-001	FOUND		
RA-226	NOT FOUND/DATA for 186.10 keV			4.53E+000	2.09E+000	4.23E+000
AC-228	NOT FOUND/DATA for 911.21 keV			2.67E-001	4.74E-001	9.35E-001
TH-230	NOT FOUND/DATA for 67.67 keV			-1.10E+000	3.34E+001	6.07E+001
PA-231	NOT FOUND/DATA for 300.02 keV			2.01E+000	3.06E+000	5.52E+000
PA-234	NOT FOUND/DATA for 883.24 keV			-2.66E-001	5.02E-001	6.37E-001
PA-234M	NOT FOUND/DATA for 1001.03 keV			-1.41E+001	1.39E+001	1.98E+001
TH-234	NOT FOUND/DATA for 92.60 keV			2.16E+000	1.61E+000	2.98E+000
U-234	NOT FOUND/DATA for 53.20 keV			2.14E+001	2.92E+002	5.43E+002
U-235	NOT FOUND/DATA for 185.71 keV			1.53E-001	1.26E-001	2.42E-001
U-238	NOT FOUND/DATA for 92.60 keV			2.16E+000	1.61E+000	2.98E+000
AM-241	NOT FOUND/DATA for 59.54 keV			2.70E-002	5.50E-001	1.01E+000

Uncertainty reported at 2.0 sigma

****
***** C E R T I F I C A T E O F A N A L Y S I S *****
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Site Location: CE Windsor
Sample ID: FSS-CE-15
Sample Title: FSS-22-15
Detector Name: 30%HPGE
Nuclide Library Used: C:\GENIE2K\CAMFILES\FSS.NLB
Sample Size: 6.562E+002 g
Sample Taken On: 10/27/2005 11:35:00 AM
Acquisition Started: 11/3/2005 8:21:45 AM
Live Time: 900.0 seconds
Real Time: 901.4 seconds
Dead Time: 0.15 %
Efficiency ID: srs035

	IDENTIFIED RADIONUCLIDES			UNIDENTIFIED RADIONUCLIDES		
Nuclide Name	Nuclide Activity (pCi/g)	Activity Uncert. (pCi/g)	Nuclide MDA (pCi/g)	Line Activity (pCi/g)	Line Act Uncert. (pCi/g)	Line MDA (pCi/g)
K-40	2.33E+001	3.47E+000	2.39E+000	FOUND		
MN-54	NOT FOUND/DATA for 834.83 keV			3.55E-002	8.19E-002	1.75E-001
CO-57	NOT FOUND/DATA for 122.06 keV			-1.81E-002	1.05E-001	1.74E-001
CO-60	NOT FOUND/DATA for 1332.50 keV			1.26E-003	1.05E-001	1.99E-001
ZN-65	NOT FOUND/DATA for 1115.55 keV			-1.02E-001	2.30E-001	3.54E-001
AG-110m	NOT FOUND/DATA for 657.76 keV			-1.32E-001	1.26E-001	1.34E-001
SB-125	NOT FOUND/DATA for 427.89 keV			-1.72E-002	2.42E-001	4.54E-001
CS-134	NOT FOUND/DATA for 604.70 keV			-2.83E-002	7.81E-002	1.42E-001
CS-137	NOT FOUND/DATA for 661.66 keV			1.59E-001	1.34E-001	2.80E-001
TL-208	4.97E-001	1.30E-001	1.78E-001	FOUND		
PB-212	NOT FOUND/DATA for 238.63 keV			8.37E-001	2.44E-001	4.98E-001
BI-214	8.02E-001	7.52E-001	3.52E-001	FOUND		
PB-214	8.58E-001	2.43E-001	4.30E-001	FOUND		
RA-226	NOT FOUND/DATA for 186.10 keV			1.37E+000	2.31E+000	4.29E+000
AC-228	NOT FOUND/DATA for 911.21 keV			1.08E+000	5.28E-001	1.20E+000
TH-230	NOT FOUND/DATA for 67.67 keV			-2.29E+001	3.67E+001	6.36E+001
PA-231	NOT FOUND/DATA for 300.02 keV			1.35E+000	3.27E+000	5.84E+000
PA-234	NOT FOUND/DATA for 131.20 keV			-2.32E-001	4.28E-001	6.54E-001
PA-234M	NOT FOUND/DATA for 1001.03 keV			-4.51E+000	1.42E+001	2.41E+001
TH-234	NOT FOUND/DATA for 92.60 keV			2.42E+000	1.80E+000	3.33E+000
U-234	NOT FOUND/DATA for 53.20 keV			5.24E+001	3.08E+002	5.83E+002
U-235	NOT FOUND/DATA for 185.71 keV			4.29E-002	1.45E-001	2.65E-001
U-238	NOT FOUND/DATA for 92.60 keV			2.42E+000	1.80E+000	3.33E+000
AM-241	NOT FOUND/DATA for 59.54 keV			2.19E-001	6.00E-001	1.14E+000

Uncertainty reported at 2.0 sigma

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***** C E R T I F I C A T E O F A N A L Y S I S *****
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Site Location: CE Windsor
Sample ID: FSS-CE-16
Sample Title: FSS-22-16
Detector Name: 30%HPGE
Nuclide Library Used: C:\GENIE2K\CAMFILES\FSS.NLB
Sample Size: 7.660E+002 g
Sample Taken On: 10/27/2005 10:40:00 AM
Acquisition Started: 11/3/2005 9:21:06 AM
Live Time: 900.0 seconds
Real Time: 901.3 seconds
Dead Time: 0.15 %
Efficiency ID: srs035

	IDENTIFIED RADIONUCLIDES			UNIDENTIFIED RADIONUCLIDES		
Nuclide Name	Nuclide Activity (pCi/g)	Activity Uncert. (pCi/g)	Nuclide MDA (pCi/g)	Line Activity (pCi/g)	Line Act Uncert. (pCi/g)	Line MDA (pCi/g)
K-40	2.33E+001	8.50E+000	2.02E+000	FOUND		
MN-54	NOT FOUND/DATA for 834.83 keV			-3.42E-002	8.14E-002	1.44E-001
CO-57	NOT FOUND/DATA for 122.06 keV			1.89E-002	8.09E-002	1.40E-001
CO-60	NOT FOUND/DATA for 1332.50 keV			7.61E-002	6.85E-002	1.80E-001
ZN-65	NOT FOUND/DATA for 1115.55 keV			-1.21E-001	2.38E-001	3.67E-001
AG-110m	NOT FOUND/DATA for 657.76 keV			-4.05E-002	7.73E-002	1.36E-001
SB-125	NOT FOUND/DATA for 427.89 keV			-1.18E-001	2.14E-001	3.72E-001
CS-134	NOT FOUND/DATA for 604.70 keV			-3.76E-002	7.32E-002	1.26E-001
CS-137	NOT FOUND/DATA for 661.66 keV			8.34E-002	9.91E-002	2.06E-001
TL-208	2.67E-001	9.77E-002	1.62E-001	FOUND		
PB-212	6.97E-001	1.83E-001	3.32E-001	FOUND		
BI-214	7.62E-001	7.22E-001	3.44E-001	FOUND		
PB-214	6.42E-001	6.46E-001	4.64E-001	FOUND		
RA-226	NOT FOUND/DATA for 186.10 keV			-3.28E-001	1.80E+000	3.20E+000
AC-228	NOT FOUND/DATA for 911.21 keV			1.17E+000	4.96E-001	1.13E+000
TH-230	NOT FOUND/DATA for 67.67 keV			-1.72E+001	3.12E+001	5.38E+001
PA-231	NOT FOUND/DATA for 300.02 keV			6.67E-001	2.78E+000	4.90E+000
PA-234	NOT FOUND/DATA for 131.20 keV			-7.60E-002	3.36E-001	5.39E-001
PA-234M	NOT FOUND/DATA for 1001.03 keV			-6.20E+000	1.50E+001	2.63E+001
TH-234	NOT FOUND/DATA for 92.60 keV			1.53E+000	1.56E+000	2.83E+000
U-234	NOT FOUND/DATA for 53.20 keV			-1.04E+002	2.78E+002	4.93E+002
U-235	NOT FOUND/DATA for 185.71 keV			3.53E-003	1.11E-001	2.00E-001
U-238	NOT FOUND/DATA for 92.60 keV			1.53E+000	1.56E+000	2.83E+000
AM-241	NOT FOUND/DATA for 59.54 keV			6.63E-001	5.71E-001	1.13E+000

Uncertainty reported at 2.0 sigma

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***** C E R T I F I C A T E O F A N A L Y S I S *****
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Site Location: CE Windsor
Sample ID: FSS-CE-17
Sample Title: FSS-22-17
Detector Name: 30%HPGE
Nuclide Library Used: C:\GENIE2K\CAMFILES\FSS.NLB
Sample Size: 6.619E+002 g
Sample Taken On: 10/31/2005 9:20:00 AM
Acquisition Started: 11/3/2005 9:40:32 AM
Live Time: 900.0 seconds
Real Time: 901.4 seconds
Dead Time: 0.16 %
Efficiency ID: srs035

	IDENTIFIED RADIONUCLIDES			UNIDENTIFIED RADIONUCLIDES		
Nuclide Name	Nuclide Activity (pCi/g)	Activity Uncert. (pCi/g)	Nuclide MDA (pCi/g)	Line Activity (pCi/g)	Line Act Uncert. (pCi/g)	Line MDA (pCi/g)
K-40	1.59E+001	6.19E+000	3.05E+000	FOUND		
MN-54	NOT FOUND/DATA for 834.83 keV			4.54E-002	7.90E-002	1.72E-001
CO-57	NOT FOUND/DATA for 122.06 keV			-3.49E-002	9.81E-002	1.54E-001
CO-60	NOT FOUND/DATA for 1332.50 keV			-6.57E-002	9.79E-002	1.72E-001
ZN-65	NOT FOUND/DATA for 1115.55 keV			-1.01E-001	1.86E-001	2.78E-001
AG-110m	NOT FOUND/DATA for 657.76 keV			6.72E-003	9.91E-002	1.86E-001
SB-125	NOT FOUND/DATA for 427.89 keV			-5.26E-002	2.38E-001	4.29E-001
CS-134	NOT FOUND/DATA for 604.70 keV			-5.84E-002	7.82E-002	1.30E-001
CS-137	NOT FOUND/DATA for 661.66 keV			1.14E-001	1.30E-001	2.55E-001
TL-208	1.73E-001	9.91E-002	2.01E-001	FOUND		
PB-212	6.86E-001	1.85E-001	3.32E-001	FOUND		
BI-214	6.80E-001	2.32E-001	3.75E-001	FOUND		
PB-214	8.02E-001	1.96E-001	4.15E-001	FOUND		
RA-226	NOT FOUND/DATA for 186.10 keV			2.08E+000	2.14E+000	4.09E+000
AC-228	NOT FOUND/DATA for 911.21 keV			4.21E-001	4.76E-001	9.99E-001
TH-230	NOT FOUND/DATA for 67.67 keV			5.82E+000	3.45E+001	6.44E+001
PA-231	NOT FOUND/DATA for 300.02 keV			2.14E+000	3.38E+000	6.03E+000
PA-234	NOT FOUND/DATA for 98.44 keV			1.53E-001	3.56E-001	6.25E-001
PA-234M	NOT FOUND/DATA for 1001.03 keV			-5.42E+000	1.66E+001	3.04E+001
TH-234	NOT FOUND/DATA for 92.60 keV			1.04E+000	1.67E+000	2.97E+000
U-234	NOT FOUND/DATA for 53.20 keV			-1.04E+002	2.77E+002	4.99E+002
U-235	NOT FOUND/DATA for 185.71 keV			1.03E-001	1.28E-001	2.42E-001
U-238	NOT FOUND/DATA for 92.60 keV			1.04E+000	1.67E+000	2.97E+000
AM-241	NOT FOUND/DATA for 59.54 keV			1.71E-001	5.69E-001	1.07E+000

Uncertainty reported at 2.0 sigma

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***** C E R T I F I C A T E O F A N A L Y S I S *****
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Site Location: CE Windsor
Sample ID: FSS-CE-18
Sample Title: FSS-22-18
Detector Name: 30%HPGE
Nuclide Library Used: C:\GENIE2K\CAMFILES\FSS.NLB
Sample Size: 6.859E+002 g
Sample Taken On: 10/31/2005 9:00:00 AM
Acquisition Started: 11/3/2005 10:05:01 AM
Live Time: 900.0 seconds
Real Time: 901.4 seconds
Dead Time: 0.15 %
Efficiency ID: srs035

	IDENTIFIED RADIONUCLIDES			UNIDENTIFIED RADIONUCLIDES		
Nuclide Name	Nuclide Activity (pCi/g)	Activity Uncert. (pCi/g)	Nuclide MDA (pCi/g)	Line Activity (pCi/g)	Line Act Uncert. (pCi/g)	Line MDA (pCi/g)
K-40	2.29E+001	9.26E+000	2.46E+000	FOUND		
MN-54	NOT FOUND/DATA for 834.83 keV			4.28E-002	8.33E-002	1.78E-001
CO-57	NOT FOUND/DATA for 122.06 keV			-2.03E-002	9.10E-002	1.51E-001
CO-60	NOT FOUND/DATA for 1332.50 keV			4.53E-002	8.58E-002	1.90E-001
ZN-65	NOT FOUND/DATA for 1115.55 keV			6.25E-002	1.29E-001	2.93E-001
AG-110m	NOT FOUND/DATA for 657.76 keV			-9.32E-002	1.01E-001	1.51E-001
SB-125	NOT FOUND/DATA for 427.89 keV			-5.50E-002	2.48E-001	4.33E-001
CS-134	NOT FOUND/DATA for 604.70 keV			-5.04E-002	1.05E-001	1.54E-001
CS-137	NOT FOUND/DATA for 661.66 keV			2.14E-001	1.27E-001	2.75E-001
TL-208	2.61E-001	1.07E-001	1.75E-001	FOUND		
PB-212	NOT FOUND/DATA for 238.63 keV			9.42E-001	2.47E-001	5.09E-001
BI-214	6.83E-001	2.37E-001	4.02E-001	FOUND		
PB-214	6.02E-001	2.87E-001	4.15E-001	FOUND		
RA-226	NOT FOUND/DATA for 186.10 keV			2.60E+000	1.98E+000	3.90E+000
AC-228	NOT FOUND/DATA for 911.21 keV			1.03E+000	5.00E-001	1.15E+000
TH-230	NOT FOUND/DATA for 67.67 keV			4.22E+000	3.64E+001	6.65E+001
PA-231	NOT FOUND/DATA for 300.02 keV			-2.49E-001	3.41E+000	5.88E+000
PA-234	NOT FOUND/DATA for 98.44 keV			-2.98E-001	3.83E-001	5.88E-001
PA-234M	NOT FOUND/DATA for 1001.03 keV			8.14E+000	1.69E+001	3.54E+001
TH-234	NOT FOUND/DATA for 92.60 keV			4.89E-001	1.60E+000	2.78E+000
U-234	NOT FOUND/DATA for 53.20 keV			-1.36E+002	3.05E+002	5.21E+002
U-235	NOT FOUND/DATA for 185.71 keV			9.91E-002	1.24E-001	2.35E-001
U-238	NOT FOUND/DATA for 92.60 keV			4.89E-001	1.60E+000	2.78E+000
AM-241	NOT FOUND/DATA for 59.54 keV			7.10E-001	5.59E-001	1.15E+000

Uncertainty reported at 2.0 sigma

****
***** C E R T I F I C A T E O F A N A L Y S I S *****
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Site Location: CE Windsor
Sample ID: FSS-CE-19
Sample Title: FSS-22-19
Detector Name: 30%HPGE
Nuclide Library Used: C:\GENIE2K\CAMFILES\FSS.NLB
Sample Size: 6.360E+002 g
Sample Taken On: 10/27/2005 11:40:00 AM
Acquisition Started: 11/3/2005 10:24:44 AM
Live Time: 900.0 seconds
Real Time: 901.3 seconds
Dead Time: 0.15 %
Efficiency ID: srs035

	IDENTIFIED RADIONUCLIDES			UNIDENTIFIED RADIONUCLIDES		
Nuclide Name	Nuclide Activity (pCi/g)	Activity Uncert. (pCi/g)	Nuclide MDA (pCi/g)	Line Activity (pCi/g)	Line Act Uncert. (pCi/g)	Line MDA (pCi/g)
K-40	2.71E+001	9.71E+000	2.66E+000	FOUND		
MN-54	NOT FOUND/DATA for 834.83 keV			2.33E-002	8.41E-002	1.73E-001
CO-57	NOT FOUND/DATA for 122.06 keV			1.05E-001	9.71E-002	1.78E-001
CO-60	NOT FOUND/DATA for 1332.50 keV			4.95E-002	8.76E-002	2.06E-001
ZN-65	NOT FOUND/DATA for 1115.55 keV			1.17E-001	2.13E-001	4.58E-001
AG-110m	NOT FOUND/DATA for 657.76 keV			-9.86E-002	1.02E-001	1.64E-001
SB-125	NOT FOUND/DATA for 427.89 keV			-8.85E-004	2.73E-001	4.78E-001
CS-134	NOT FOUND/DATA for 604.70 keV			-1.92E-002	1.05E-001	1.75E-001
CS-137	NOT FOUND/DATA for 661.66 keV			1.29E-001	1.27E-001	2.66E-001
TL-208	2.64E-001	5.24E-001	2.06E-001	FOUND		
PB-212	1.12E+000	2.39E-001	5.09E-001	FOUND		
BI-214	6.93E-001	2.53E-001	3.76E-001	FOUND		
PB-214	7.93E-001	1.89E-001	4.47E-001	FOUND		
RA-226	NOT FOUND/DATA for 186.10 keV			1.21E+000	2.13E+000	4.01E+000
AC-228	NOT FOUND/DATA for 911.21 keV			7.60E-001	4.59E-001	1.06E+000
TH-230	NOT FOUND/DATA for 67.67 keV			-2.14E+000	4.04E+001	7.36E+001
PA-231	NOT FOUND/DATA for 300.02 keV			2.74E+000	3.71E+000	6.58E+000
PA-234	NOT FOUND/DATA for 98.44 keV			-6.27E-002	3.53E-001	5.94E-001
PA-234M	NOT FOUND/DATA for 1001.03 keV			-3.85E+000	1.35E+001	2.49E+001
TH-234	NOT FOUND/DATA for 92.60 keV			2.14E+000	1.86E+000	3.41E+000
U-234	NOT FOUND/DATA for 53.20 keV			-7.54E+001	3.28E+002	5.86E+002
U-235	NOT FOUND/DATA for 185.71 keV			-3.57E-002	1.32E-001	2.33E-001
U-238	NOT FOUND/DATA for 92.60 keV			2.14E+000	1.86E+000	3.41E+000
AM-241	NOT FOUND/DATA for 59.54 keV			3.78E-002	6.20E-001	1.15E+000

Uncertainty reported at 2.0 sigma

CERTIFICATE OF ANALYSIS

Site Location: CE Windsor
Sample ID: FSS-CE-20
Sample Title: FSS-22-20
Detector Name: 30%HPGE
Nuclide Library Used: C:\GENIE2K\CAMFILES\FSS.NLB
Sample Size: 6.391E+002 g
Sample Taken On: 10/31/2005 9:10:00 AM
Acquisition Started: 11/3/2005 10:45:07 AM
Live Time: 900.0 seconds
Real Time: 901.4 seconds
Dead Time: 0.16 %
Efficiency ID: srs035

	IDENTIFIED RADIONUCLIDES			UNIDENTIFIED RADIONUCLIDES		
Nuclide Name	Nuclide Activity (pCi/g)	Activity Uncert. (pCi/g)	Nuclide MDA (pCi/g)	Line Activity (pCi/g)	Line Act Uncert. (pCi/g)	Line MDA (pCi/g)
K-40	2.27E+001	3.49E+000	2.81E+000	FOUND		
MN-54	NOT FOUND/DATA for 834.83 keV			-2.80E-003	8.32E-002	1.63E-001
CO-57	NOT FOUND/DATA for 122.06 keV			4.46E-002	1.00E-001	1.75E-001
CO-60	NOT FOUND/DATA for 1173.24 keV			-5.05E-002	1.12E-001	1.98E-001
ZN-65	NOT FOUND/DATA for 1115.55 keV			-2.49E-001	3.13E-001	4.35E-001
AG-110m	NOT FOUND/DATA for 657.76 keV			-1.08E-001	9.44E-002	1.43E-001
SB-125	NOT FOUND/DATA for 427.89 keV			4.62E-002	2.12E-001	4.01E-001
CS-134	NOT FOUND/DATA for 604.70 keV			-4.19E-002	8.77E-002	1.55E-001
CS-137	2.46E-001	5.08E-002	1.61E-001	FOUND		
TL-208	2.36E-001	1.46E-001	2.33E-001	FOUND		
PB-212	NOT FOUND/DATA for 238.63 keV			8.96E-001	2.53E-001	5.21E-001
BI-214	NOT FOUND/DATA for 609.31 keV			3.99E-001	2.61E-001	5.56E-001
PB-214	5.97E-001	2.40E-001	4.63E-001	FOUND		
RA-226	2.33E+000	1.57E+000	3.60E+000	FOUND		
AC-228	NOT FOUND/DATA for 911.21 keV			1.13E+000	5.14E-001	1.20E+000
TH-230	NOT FOUND/DATA for 67.67 keV			1.94E+000	3.74E+001	6.80E+001
PA-231	NOT FOUND/DATA for 300.02 keV			1.42E+000	3.74E+000	6.66E+000
PA-234	NOT FOUND/DATA for 98.44 keV			-1.33E-001	3.80E-001	6.22E-001
PA-234M	NOT FOUND/DATA for 1001.03 keV			4.06E+000	1.67E+001	3.29E+001
TH-234	NOT FOUND/DATA for 92.60 keV			1.03E-001	1.74E+000	2.95E+000
U-234	NOT FOUND/DATA for 53.20 keV			-5.21E+001	3.29E+002	5.99E+002
U-235	1.42E-001	9.54E-002	2.19E-001	FOUND		
U-238	NOT FOUND/DATA for 92.60 keV			1.03E-001	1.74E+000	2.95E+000
AM-241	NOT FOUND/DATA for 59.54 keV			1.64E-001	6.07E-001	1.15E+000

Uncertainty reported at 2.0 sigma