

FINAL STATUS SURVEY REPORT

SUBMITTAL NUMBER 1

CE WINDSOR SITE
WINDSOR, CONNECTICUT

APPENDIX I

SURVEY UNIT CE-FSS-42-06
RESULTS AND DATA EVALUATION

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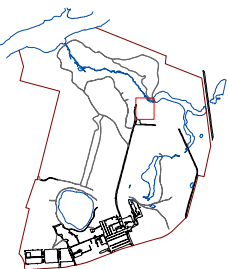
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CT State Plane NAD 83 Feet



Legend

- Sample Location
- ▬ CE-FSS-42-06
- Forest
- Open
- Water
- Road
- Building



0 35 70
Feet

Prepared/Date: BRP 07/27/11

Checked/Date: GSM 07/27/11

Sample Locations
Survey Unit CE-FSS-42-06

Final Status Survey
CE Windsor Site
Windsor, Connecticut



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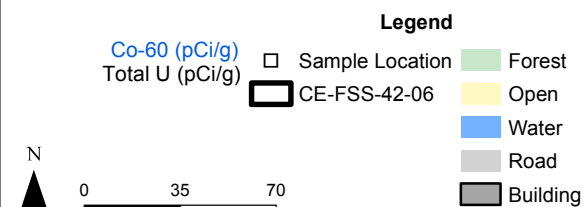
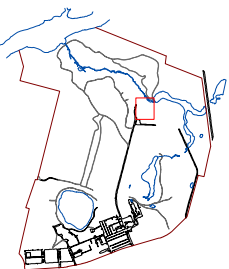
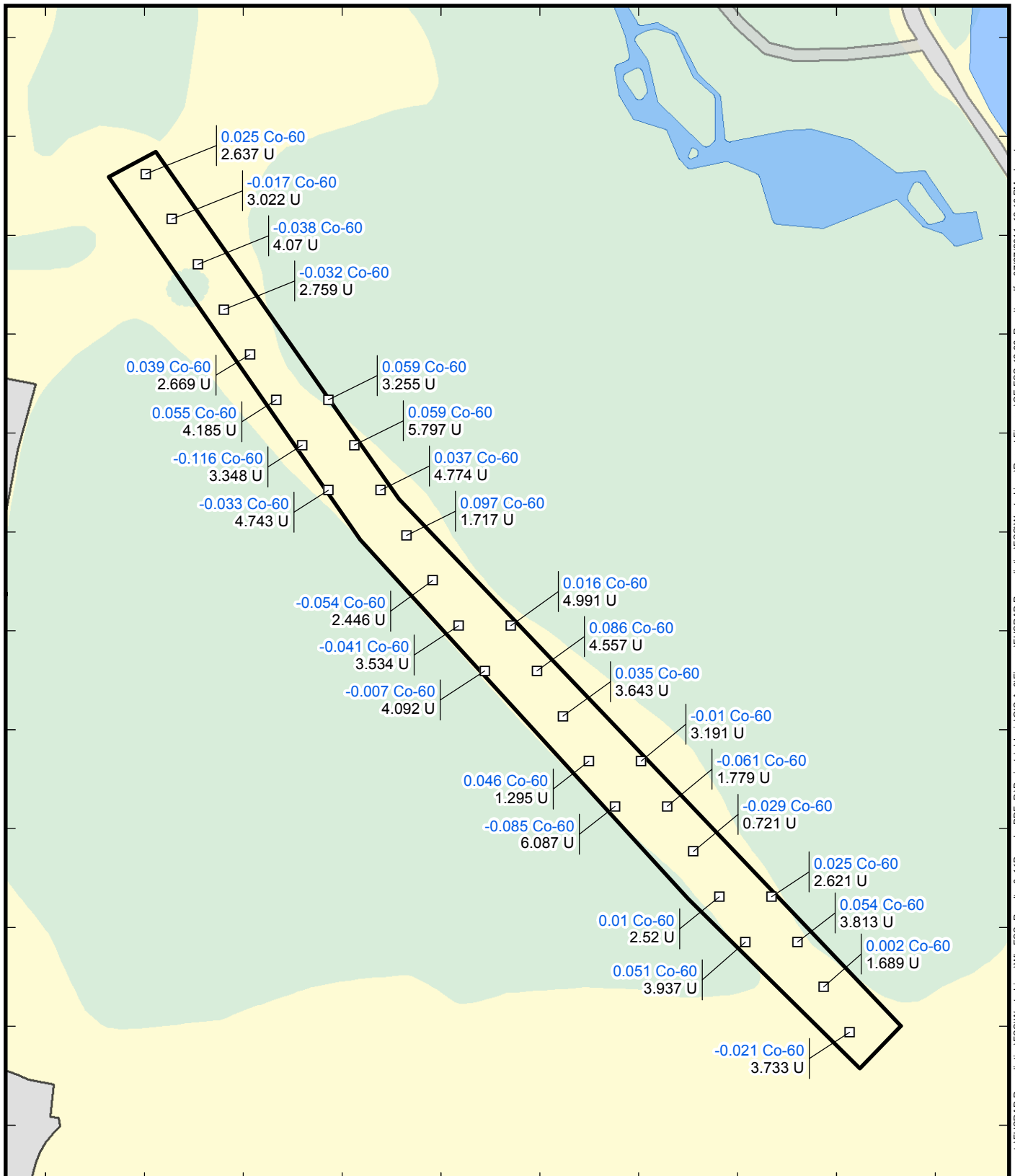
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CT State Plane NAD 83 Feet



Prepared/Date: BRP 07/27/11

Checked/Date: GSM 07/27/11

Sample Results
Survey Unit CE-FSS-42-06

Final Status Survey
CE Windsor Site
Windsor, Connecticut



Survey Unit CE-FSS-42-06

Final Status Survey Volumetric Soil Sample Results

Sample ID	Co-60				U-235				Total U (pCi/g)	Sum of Fraction
	Activity	Uncert.	MDC	Qualifier	Activity	Uncert.	MDC	Qualifier		
CE-FSS-42-06-001	-2.10E-02	9.63E-02	1.43E-01	U	1.20E-01	1.13E-01	1.79E-01	U	3.7	0.003
CE-FSS-42-06-002	1.84E-03	9.80E-02	1.50E-01	U	5.45E-02	1.10E-01	1.64E-01	U	1.7	0.003
CE-FSS-42-06-003	5.11E-02	8.64E-02	1.60E-01	U	1.27E-01	9.36E-02	1.46E-01		3.9	0.017
CE-FSS-42-06-004	5.42E-02	9.89E-02	1.73E-01	U	1.23E-01	9.97E-02	1.62E-01	UI	3.8	0.018
CE-FSS-42-06-005	9.79E-03	7.09E-02	1.13E-01	U	8.13E-02	9.32E-02	1.44E-01	U	2.5	0.006
CE-FSS-42-06-006	-2.04E-02	1.07E-01	1.54E-01	U	7.97E-02	8.12E-02	1.34E-01	UI	2.5	0.000
CE-FSS-42-06-006LR	6.95E-02	8.58E-02	1.74E-01	U	8.94E-02	1.05E-01	1.71E-01		2.8	0.019
CE-FSS-42-06-006AVE	2.45E-02				8.46E-02				2.6	0.010
CE-FSS-42-06-007	-2.95E-02	1.13E-01	1.58E-01	U	2.33E-02	1.00E-01	1.45E-01	U	0.7	-0.005
CE-FSS-42-06-008	-8.50E-02	1.27E-01	1.28E-01	U	1.96E-01	9.45E-02	1.64E-01	U	6.1	-0.006
CE-FSS-42-06-009	-6.14E-02	1.06E-01	1.31E-01	U	5.74E-02	9.04E-02	1.38E-01	U	1.8	-0.009
CE-FSS-42-06-010	4.57E-02	7.09E-02	1.40E-01	U	4.18E-02	1.02E-01	1.50E-01	U	1.3	0.011
CE-FSS-42-06-011	-5.17E-02	1.15E-01	1.49E-01	U	3.68E-02	1.05E-01	1.56E-01	U	1.1	-0.008
CE-FSS-42-06-011S	3.17E-02	8.89E-02	1.53E-01	U	1.69E-01	9.33E-02	1.59E-01	U	5.2	0.016
CE-FSS-42-06-011AVE	-9.97E-03				1.03E-01				3.2	0.004
CE-FSS-42-06-012	1.91E-02	1.05E-01	1.70E-01	U	1.17E-01	9.37E-02	1.52E-01	U	3.6	0.010
CE-FSS-42-06-012S	5.01E-02	8.02E-02	1.59E-01	U	1.18E-01	9.77E-02	1.58E-01	U	3.7	0.017
CE-FSS-42-06-012AVE	0.034596				0.117527				3.643323	0.01346
CE-FSS-42-06-013	-6.74E-03	1.09E-01	1.57E-01	U	1.32E-01	1.19E-01	1.91E-01		4.1	0.006
CE-FSS-42-06-014	8.60E-02	8.69E-02	1.81E-01	U	1.47E-01	9.39E-02	1.42E-01		4.6	0.025
CE-FSS-42-06-015	-4.13E-02	1.01E-01	1.38E-01	U	1.14E-01	9.12E-02	1.43E-01		3.5	-0.002
CE-FSS-42-06-016	1.63E-02	1.11E-01	1.78E-01	U	1.61E-01	1.09E-01	1.78E-01	U	5.0	0.012
CE-FSS-42-06-017	-5.42E-02	1.09E-01	1.35E-01	U	7.89E-02	9.87E-02	1.51E-01	U	2.4	-0.006
CE-FSS-42-06-018	9.74E-02	1.05E-01	1.97E-01	U	5.54E-02	1.05E-01	1.56E-01	U	1.7	0.023
CE-FSS-42-06-019	-3.31E-02	1.00E-01	1.27E-01	U	1.53E-01	9.86E-02	1.50E-01		4.7	0.002
CE-FSS-42-06-020	3.73E-02	1.01E-01	1.72E-01	U	1.54E-01	9.72E-02	1.63E-01	U	4.8	0.016
CE-FSS-42-06-021	-1.16E-01	1.20E-01	2.25E-01	U	1.08E-01	1.24E-01	1.92E-01	U	3.3	-0.017
CE-FSS-42-06-022	5.94E-02	1.02E-01	1.77E-01	U	1.87E-01	1.17E-01	1.80E-01		5.8	0.022
CE-FSS-42-06-023	5.46E-02	6.27E-02	1.00E-01		1.35E-01	1.16E-01	1.83E-01	U	4.2	0.018
CE-FSS-42-06-024	5.89E-02	8.18E-02	1.64E-01	U	1.05E-01	9.62E-02	1.53E-01	U	3.3	0.018
CE-FSS-42-06-025	3.93E-02	5.24E-02	8.68E-02		8.61E-02	9.37E-02	1.56E-01	UI	2.7	0.013
CE-FSS-42-06-026	-1.20E-02	1.06E-01	1.53E-01	U	7.70E-02	8.93E-02	1.42E-01		2.4	0.002
CE-FSS-42-06-026LR	-5.14E-02	1.42E-01	1.87E-01	U	1.01E-01	1.11E-01	1.80E-01		3.1	-0.005
CE-FSS-42-06-026AVE	-3.17E-02				8.90E-02				2.8	-0.001
CE-FSS-42-06-027	-3.81E-02	1.11E-01	1.54E-01	U	1.31E-01	1.01E-01	1.62E-01	U	4.1	0.000
CE-FSS-42-06-028	-1.65E-02	1.12E-01	1.59E-01	U	9.75E-02	1.07E-01	1.63E-01	U	3.0	0.002
CE-FSS-42-06-029	2.46E-02	9.26E-02	1.43E-01	U	8.51E-02	9.87E-02	1.51E-01	U	2.6	0.010

Survey Unit CE-FSS-42-06

One-Minute Static Field Measurement Results

Sample ID	Static Count Rate (cpm)	Ambient Background (cpm)	Net (cpm)	pCi/g
FSS-042-06-001	2872	2800	72	0.2
FSS-042-06-002	2936	2800	136	0.5
FSS-042-06-003	3022	2800	222	0.7
FSS-042-06-004	3183	2800	383	1.3
FSS-042-06-005	2706	2800	-94	-0.3
FSS-042-06-006	3003	2800	203	0.7
FSS-042-06-007	2901	2800	101	0.3
FSS-042-06-008	3048	2800	248	0.8
FSS-042-06-009	2914	2800	114	0.4
FSS-042-06-010	2444	2800	-356	-1.2
FSS-042-06-011	3000	2800	200	0.7
FSS-042-06-012	2636	2800	-164	-0.5
FSS-042-06-013	3578	2800	778	2.6
FSS-042-06-014	3231	2800	431	1.4
FSS-042-06-015	3531	2800	731	2.4
FSS-042-06-016	3630	2800	830	2.8
FSS-042-06-017	3388	2800	588	2.0
FSS-042-06-018	3474	2800	674	2.2
FSS-042-06-019	3351	2800	551	1.8
FSS-042-06-020	3069	2800	269	0.9
FSS-042-06-021	3576	2800	776	2.6
FSS-042-06-022	3512	2800	712	2.4
FSS-042-06-023	2292	2800	-508	-1.7
FSS-042-06-024	2752	2800	-48	-0.2
FSS-042-06-025	2836	2800	36	0.1
FSS-042-06-026	2931	2800	131	0.4
FSS-042-06-027	3089	2800	289	1.0
FSS-042-06-028	3317	2800	517	1.7
FSS-042-06-029	2695	2800	-105	-0.3

Survey Unit CE-FSS-42-06

Final Status Survey Sample GPS Coordinates

Sample ID	X Coordinate	Y Coordinate
CE-FSS-42-06-001	1009806.7491	884247.0000
CE-FSS-42-06-002	1009793.5611	884269.8423
CE-FSS-42-06-003	1009753.9972	884292.6846
CE-FSS-42-06-004	1009780.3732	884292.6846
CE-FSS-42-06-005	1009740.8092	884315.5268
CE-FSS-42-06-006	1009767.1852	884315.5268
CE-FSS-42-06-007	1009727.6212	884338.3691
CE-FSS-42-06-008	1009688.0572	884361.2114
CE-FSS-42-06-009	1009714.4332	884361.2114
CE-FSS-42-06-010	1009674.8692	884384.0536
CE-FSS-42-06-011	1009701.2452	884384.0536
CE-FSS-42-06-012	1009661.6813	884406.8959
CE-FSS-42-06-013	1009622.1173	884429.7382
CE-FSS-42-06-014	1009648.4933	884429.7382
CE-FSS-42-06-015	1009608.9293	884452.5804
CE-FSS-42-06-016	1009635.3053	884452.5804
CE-FSS-42-06-017	1009595.7413	884475.4227
CE-FSS-42-06-018	1009582.5533	884498.2650
CE-FSS-42-06-019	1009542.9893	884521.1072
CE-FSS-42-06-020	1009569.3653	884521.1072
CE-FSS-42-06-021	1009529.8014	884543.9495
CE-FSS-42-06-022	1009556.1773	884543.9495
CE-FSS-42-06-023	1009516.6134	884566.7918
CE-FSS-42-06-024	1009542.9893	884566.7918
CE-FSS-42-06-025	1009503.4254	884589.6340
CE-FSS-42-06-026	1009490.2374	884612.4763
CE-FSS-42-06-027	1009477.0494	884635.3186
CE-FSS-42-06-028	1009463.8614	884658.1608
CE-FSS-42-06-029	1009450.6734	884681.0031

Descriptive Statistics Report

Summary Section of SU_4206_C060

Count	Mean	Standard Deviation	Standard Error	Minimum	Maximum	Range
29	5.207586E-03	5.133586E-02	9.53283E-03	-0.116	0.0974	0.2134

Counts Section of SU_4206_C060

Rows	Sum of Frequencies	Missing Values	Distinct Values	Sum	Total Sum Squares	Adjusted Sum Squares
29	29	0	29	0.15102	7.457682E-02	7.379038E-02

Means Section of SU_4206_C060

Parameter	Mean	Median	Geometric Mean	Harmonic Mean	Sum	Mode
Value	5.207586E-03	0.00979	3.282632E-02	6.511159E-02	0.15102	
Std Error	9.53283E-03				0.2764521	
95% LCL	-1.431953E-02	-0.0295			-0.4152664	
95% UCL	0.0247347	0.0373			0.7173064	
T-Value	0.5463					
Prob Level	0.589201					
Count	29		16	29		

Variation Section of SU_4206_C060

Parameter	Variance	Standard Deviation	Unbiased Std Dev	Std Error of Mean	Interquartile Range	Range
Value	2.635371E-03	5.133586E-02	5.179617E-02	9.53283E-03	0.0808	0.2134
Std Error	6.133384E-04	8.448202E-03		1.568792E-03		
95% LCL	1.659673E-03	4.073909E-02		7.565058E-03		
95% UCL	4.820424E-03	6.942927E-02		1.289269E-02		

Skewness and Kurtosis Section of SU_4206_C060

Parameter	Skewness	Kurtosis	Fisher's g1	Fisher's g2	Coefficient of Variation	Coefficient of Dispersion
Value	-0.3340694	2.570778	-0.3525746	-0.2742825	9.8579	4.320278
Std Error	0.3187101	0.4257144			18.0713	

Trimmed Section of SU_4206_C060

Parameter	5% Trimmed	10% Trimmed	15% Trimmed	25% Trimmed	35% Trimmed	45% Trimmed
Trim-Mean	6.481609E-03	7.345689E-03	7.944088E-03	7.932413E-03	8.701724E-03	9.318276E-03
Trim-Std Dev	4.184877E-02	3.626276E-02	3.250062E-02	2.558826E-02	1.730323E-02	7.242352E-03
Count	26.1	23.2	20.3	14.5	8.7	2.9

Mean-Deviation Section of SU_4206_C060

Parameter	X-Mean	X-Median	(X-Mean)^2	(X-Mean)^3	(X-Mean)^4
Average	4.245353E-02	4.229552E-02	2.544496E-03	-4.287847E-05	1.66444E-05
Std Error	5.734195E-03		5.921888E-04	4.535224E-05	7.328002E-06

Descriptive Statistics Report

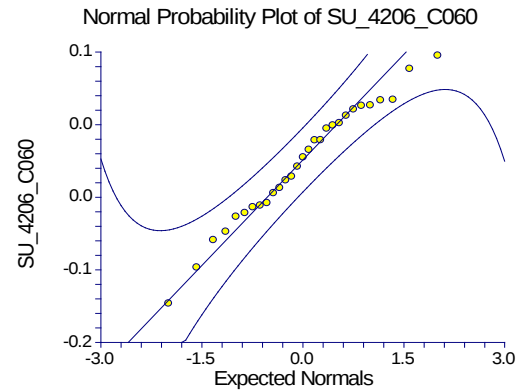
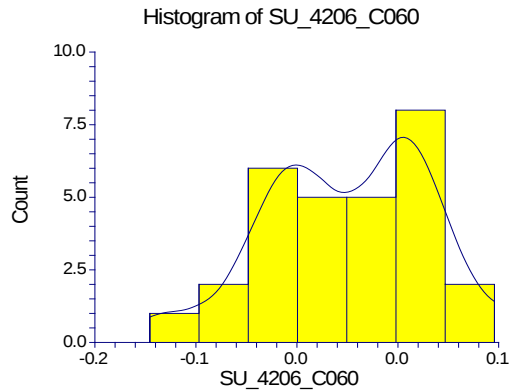
Quartile Section of SU_4206_C060

	10th	25th	50th	75th	90th
Parameter	Percentile	Percentile	Percentile	Percentile	Percentile
Value	-0.0614	-0.0324	0.00979	0.0484	0.0594
95% LCL	-0.116	-0.0614	-0.0295	0.0245	0.0393
95% UCL	-0.0295	-0.00674	0.0373	0.0594	0.0974

Normality Test Section of SU_4206_C060

Test Name	Test Value	Prob Level	10% Critical Value	5% Critical Value	Decision (5%)
Shapiro-Wilk W	0.9783772	0.795551			Accept Normality
Anderson-Darling	0.2522856	0.737137			Accept Normality
Martinez-Iglewicz	1.005347		1.153174	1.236092	Accept Normality
Kolmogorov-Smirnov	7.659984E-02		0.148	0.162	Accept Normality
D'Agostino Skewness	-0.8512	0.394638	1.645	1.960	Accept Normality
D'Agostino Kurtosis	-0.1518	0.879331	1.645	1.960	Accept Normality
D'Agostino Omnibus	0.7477	0.688096	4.605	5.991	Accept Normality

Plots Section of SU_4206_C060



Descriptive Statistics Report

Percentile Section of SU_4206_C060

Percentile	Value	95% LCL	95% UCL	Exact Conf. Level
99.0	0.0974			
95.0	0.0917			
90.0	0.0594	0.0393	0.0974	95.1349
85.0	0.05675	0.0393	0.0974	96.8681
80.0	0.0542	0.0346	0.086	96.7529
75.0	0.0484	0.0245	0.0594	97.0938
70.0	0.0393	0.0163	0.0589	95.8640
65.0	0.03595	-0.00674	0.0542	96.1771
60.0	0.0246	-0.00997	0.0511	96.3194
55.0	0.0204	-0.021	0.0457	97.4848
50.0	0.00979	-0.0295	0.0373	95.7226
45.0	-0.00245	-0.0317	0.0346	96.1776
40.0	-0.00997	-0.0381	0.0245	95.9152
35.0	-0.01875	-0.0413	0.0163	96.9227
30.0	-0.0295	-0.0542	0.00184	95.8640
25.0	-0.0324	-0.0614	-0.00674	97.0938
20.0	-0.0381	-0.116	-0.0165	97.8748
15.0	-0.04775	-0.116	-0.0295	96.8681
10.0	-0.0614	-0.116	-0.0295	95.1349
5.0	-0.1005			
1.0	-0.116			

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

Stem-Leaf Plot Section of SU_4206_C060

Depth	Stem	Leaves
1	-1*	1
2	.	8
3	S	6
5	F	54
10	T	33322
13	-0*	100
(3)	0*	001
13	T	22333
8	F	455555
2	S	
2	.	89

Unit = .01 Example: 1 |2 Represents 0.12

Descriptive Statistics Report

Summary Section of SU_4206_Total_U

Count	Mean	Standard Deviation	Standard Error	Minimum	Maximum	Range
29	3.348276	1.304284	0.2421995	0.7	6.1	5.4

Counts Section of SU_4206_Total_U

Rows	Sum of Frequencies	Missing Values	Distinct Values	Sum	Total Sum Squares	Adjusted Sum Squares
29	29	0	24	97.1	372.75	47.63241

Means Section of SU_4206_Total_U

Parameter	Mean	Median	Geometric Mean	Harmonic Mean	Sum	Mode
Value	3.348276	3.3	3.055223	2.683017	97.1	
Std Error	0.2421995				7.023786	
95% LCL	2.852153	2.6			82.71243	
95% UCL	3.844399	3.9			111.4876	
T-Value	13.8245					
Prob Level	0.000000					
Count	29		29	29		

Variation Section of SU_4206_Total_U

Parameter	Variance	Standard Deviation	Unbiased Std Dev	Std Error of Mean	Interquartile Range	Range
Value	1.701158	1.304284	1.315979	0.2421995	1.7	5.4
Std Error	0.3984645	0.2160242		4.011468E-02		
95% LCL	1.071335	1.035053		0.1922046		
95% UCL	3.111631	1.763982		0.3275632		

Skewness and Kurtosis Section of SU_4206_Total_U

Parameter	Skewness	Kurtosis	Fisher's g1	Fisher's g2	Coefficient of Variation	Coefficient of Dispersion
Value	9.917574E-02	2.591066	0.1046694	-0.2500066	0.3895391	0.3134796
Std Error	0.2914623	0.3974805			5.147092E-02	

Trimmed Section of SU_4206_Total_U

Parameter	5% Trimmed	10% Trimmed	15% Trimmed	25% Trimmed	35% Trimmed	45% Trimmed
Trim-Mean	3.337356	3.326293	3.336207	3.327586	3.347701	3.365517
Trim-Std Dev	1.064664	0.8986717	0.7580274	0.5394761	0.3397295	0.1159667
Count	26.1	23.2	20.3	14.5	8.7	2.9

Mean-Deviation Section of SU_4206_Total_U

Parameter	X-Mean	X-Median	(X-Mean)^2	(X-Mean)^3	(X-Mean)^4
Average	1.036147	1.034483	1.642497	0.2087672	6.990169
Std Error	0.145688		0.3847243	0.6208586	2.683287

Descriptive Statistics Report

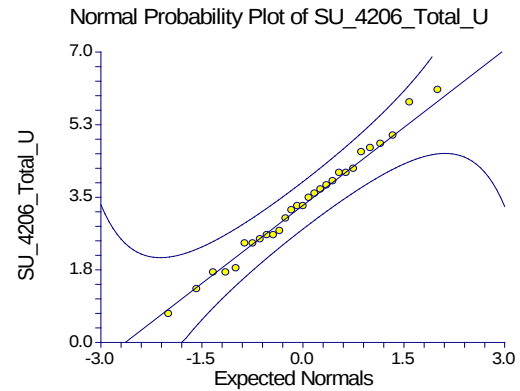
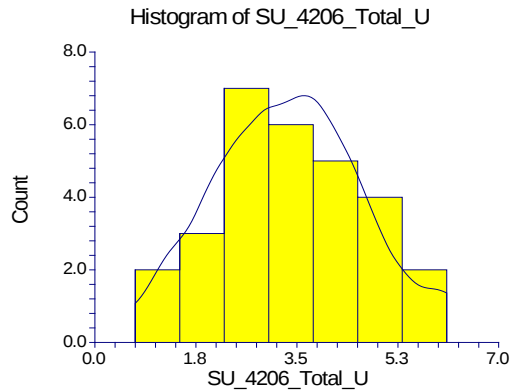
Quartile Section of SU_4206_Total_U

	10th	25th	50th	75th	90th
Parameter	Percentile	Percentile	Percentile	Percentile	Percentile
Value	1.7	2.45	3.3	4.15	5
95% LCL	0.7	1.7	2.6	3.6	4.1
95% UCL	2.6	3.2	3.9	5	6.1

Normality Test Section of SU_4206_Total_U

Test Name	Test Value	Prob Level	10% Critical Value	5% Critical Value	Decision (5%)
Shapiro-Wilk W	0.9897024	0.990776			Accept Normality
Anderson-Darling	0.1237458	0.987046			Accept Normality
Martinez-Iglewicz	0.9731427		1.153174	1.236092	Accept Normality
Kolmogorov-Smirnov	0.0697284		0.148	0.162	Accept Normality
D'Agostino Skewness	0.2560	0.797970	1.645	1.960	Accept Normality
D'Agostino Kurtosis	-0.1150	0.908445	1.645	1.960	Accept Normality
D'Agostino Omnibus	0.0787	0.961391	4.605	5.991	Accept Normality

Plots Section of SU_4206_Total_U



Descriptive Statistics Report

Percentile Section of SU_4206_Total_U

Percentile	Value	95% LCL	95% UCL	Exact Conf. Level
99.0	6.1			
95.0	5.95			
90.0	5	4.1	6.1	95.1349
85.0	4.75	4.1	6.1	96.8681
80.0	4.6	3.8	5.8	96.7529
75.0	4.15	3.6	5	97.0938
70.0	4.1	3.5	4.8	95.8640
65.0	3.85	3.2	4.6	96.1771
60.0	3.7	3	4.2	96.3194
55.0	3.55	2.6	4.1	97.4848
50.0	3.3	2.6	3.9	95.7226
45.0	3.25	2.5	3.8	96.1776
40.0	3	2.4	3.6	95.9152
35.0	2.65	1.8	3.5	96.9227
30.0	2.6	1.7	3.3	95.8640
25.0	2.45	1.7	3.2	97.0938
20.0	2.4	0.7	2.7	97.8748
15.0	1.75	0.7	2.6	96.8681
10.0	1.7	0.7	2.6	95.1349
5.0	1			
1.0	0.7			

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

Stem-Leaf Plot Section of SU_4206_Total_U

Depth	Stem	Leaves
1	.	7
2	1*	3
5	.	778
7	2*	44
11	.	5667
(4)	3*	0233
14	.	56789
9	4*	112
6	.	678
3	5*	0
2	.	8
1	6*	1

Unit = .1 Example: 1 |2 Represents 1.2

Descriptive Statistics Report

Summary Section of SU_4206_SOF

Count	Mean	Standard Deviation	Standard Error	Minimum	Maximum	Range
29	7.103448E-03	1.048926E-02	1.947807E-03	-0.017	0.025	0.042

Counts Section of SU_4206_SOF

Rows	Sum of Frequencies	Missing Values	Distinct Values	Sum	Total Sum Squares	Adjusted Sum Squares
29	29	0	21	0.206	0.004544	3.08069E-03

Means Section of SU_4206_SOF

Parameter	Mean	Median	Geometric Mean	Harmonic Mean	Sum	Mode
Value	7.103448E-03	0.006	9.328044E-03	0.0282331	0.206	0.018
Std Error	1.947807E-03				5.648641E-02	
95% LCL	3.113546E-03	0.002			9.029284E-02	
95% UCL	1.109335E-02	0.013			0.3217072	
T-Value	3.6469					
Prob Level	0.001074					
Count	29		21	28		3

Variation Section of SU_4206_SOF

Parameter	Variance	Standard Deviation	Unbiased Std Dev	Std Error of Mean	Interquartile Range	Range
Value	1.100246E-04	1.048926E-02	1.058332E-02	1.947807E-03	0.017	0.042
Std Error	2.398138E-05	1.616643E-03		3.002032E-04		
95% LCL	6.929003E-05	8.324063E-03		1.54574E-03		
95% UCL	2.012489E-04	1.418622E-02		2.634315E-03		

Skewness and Kurtosis Section of SU_4206_SOF

Parameter	Skewness	Kurtosis	Fisher's g1	Fisher's g2	Coefficient of Variation	Coefficient of Dispersion
Value	-0.2295628	2.377738	-0.242279	-0.5052711	1.476644	1.448276
Std Error	0.3042355	0.3978927			0.4574235	

Trimmed Section of SU_4206_SOF

Parameter	5% Trimmed	10% Trimmed	15% Trimmed	25% Trimmed	35% Trimmed	45% Trimmed
Trim-Mean	7.344828E-03	7.310345E-03	7.460591E-03	7.37931E-03	7.212644E-03	7.310345E-03
Trim-Std Dev	8.808491E-03	7.688079E-03	6.782878E-03	4.864183E-03	3.520932E-03	2.319334E-03
Count	26.1	23.2	20.3	14.5	8.7	2.9

Mean-Deviation Section of SU_4206_SOF

Parameter	X-Mean	X-Median	(X-Mean)^2	(X-Mean)^3	(X-Mean)^4
Average	8.727705E-03	8.689655E-03	1.062307E-04	-2.513486E-07	2.683267E-08
Std Error	1.171647E-03		2.315444E-05	3.606537E-07	1.13492E-08

Descriptive Statistics Report

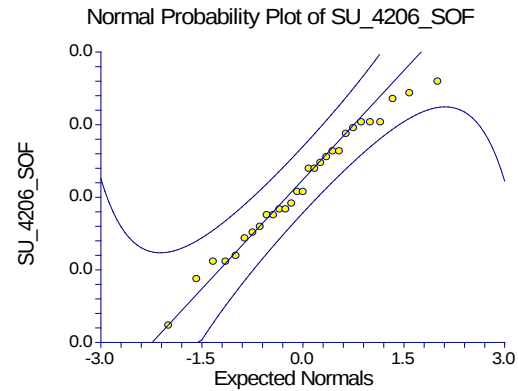
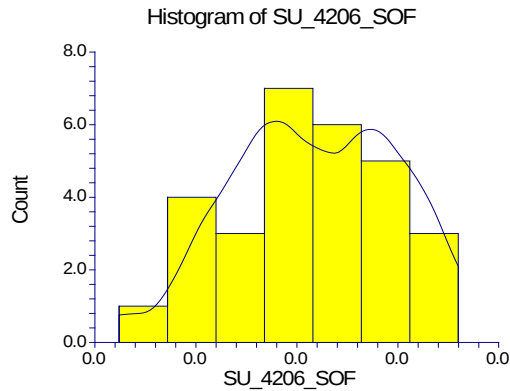
Quartile Section of SU_4206_SOF

	10th	25th	50th	75th	90th
Parameter	Percentile	Percentile	Percentile	Percentile	Percentile
Value	-0.006	-0.0005	0.006	0.0165	0.022
95% LCL	-0.017	-0.006	0.002	0.01	0.013
95% UCL	0.002	0.004	0.013	0.022	0.025

Normality Test Section of SU_4206_SOF

Test Name	Test Value	Prob Level	10% Critical Value	5% Critical Value	Decision (5%)
Shapiro-Wilk W	0.978132	0.788889			Accept Normality
Anderson-Darling	0.2207811	0.833221			Accept Normality
Martinez-Iglewicz	0.9479821		1.153174	1.236092	Accept Normality
Kolmogorov-Smirnov	6.597012E-02		0.148	0.162	Accept Normality
D'Agostino Skewness	-0.5893	0.555687	1.645	1.960	Accept Normality
D'Agostino Kurtosis	-0.5350	0.592636	1.645	1.960	Accept Normality
D'Agostino Omnibus	0.6335	0.728523	4.605	5.991	Accept Normality

Plots Section of SU_4206_SOF



Descriptive Statistics Report

Percentile Section of SU_4206_SOF

Percentile	Value	95% LCL	95% UCL	Exact Conf. Level
99.0	0.025			
95.0	0.024			
90.0	0.022	0.013	0.025	95.1349
85.0	0.018	0.013	0.025	96.8681
80.0	0.018	0.012	0.023	96.7529
75.0	0.0165	0.01	0.022	97.0938
70.0	0.013	0.01	0.018	95.8640
65.0	0.0125	0.004	0.018	96.1771
60.0	0.011	0.003	0.017	96.3194
55.0	0.01	0.002	0.016	97.4848
50.0	0.006	0.002	0.013	95.7226
45.0	0.005	0	0.012	96.1776
40.0	0.003	-0.002	0.01	95.9152
35.0	0.0025	-0.005	0.01	96.9227
30.0	0.002	-0.006	0.006	95.8640
25.0	-0.0005	-0.006	0.004	97.0938
20.0	-0.002	-0.017	0.003	97.8748
15.0	-0.0055	-0.017	0.002	96.8681
10.0	-0.006	-0.017	0.002	95.1349
5.0	-0.013			
1.0	-0.017			

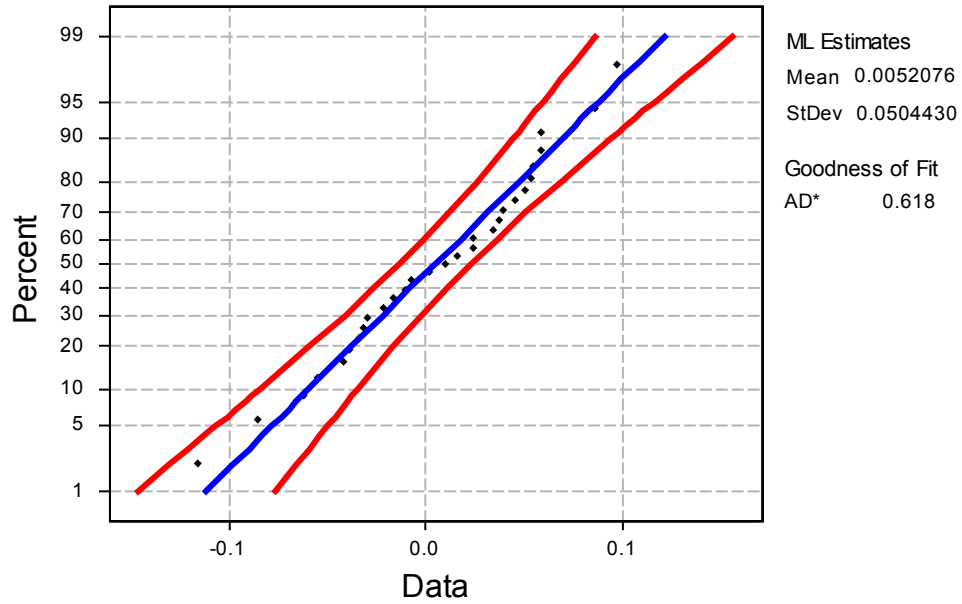
Percentile Formula: Ave $X(p[n+1])$

Stem-Leaf Plot Section of SU_4206_SOF

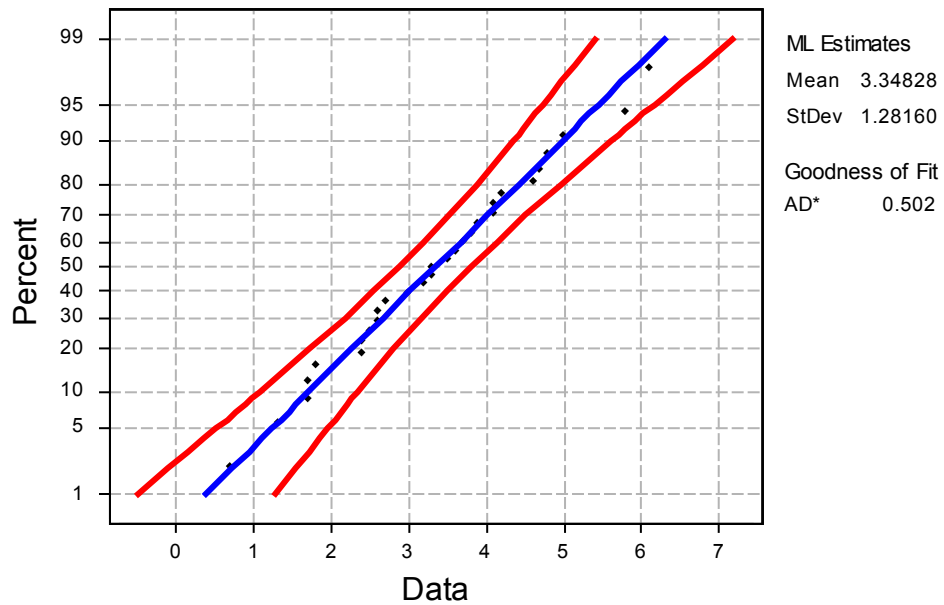
Depth	Stem	Leaves
1	-1.	7
1	-1*	
5	.	9665
7	-0*	21
13	0*	022334
(2)	.	66
14	1*	001233
8	.	67888
3	2*	23
1	.	5

Unit = .001 Example: 1 |2 Represents 0.012

Normal Probability Plot for 4206 CO60
ML Estimates - 95% CI

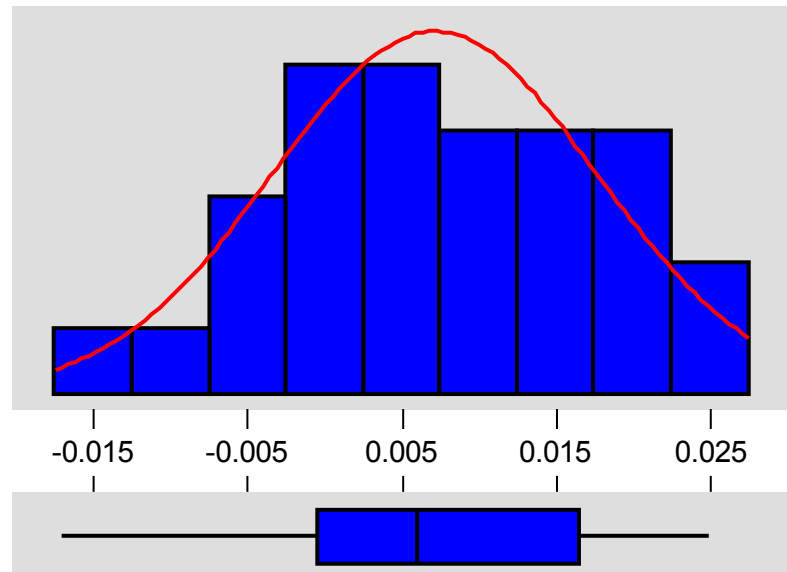


Normal Probability Plot for 4206 TOTAL U
ML Estimates - 95% CI

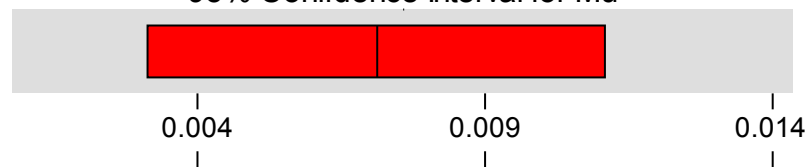


Descriptive Statistics

Variable: 4206 SOF



95% Confidence Interval for Mu



95% Confidence Interval for Median



Anderson-Darling Normality Test

A-Squared: 0.220
P-Value: 0.817

Mean 7.10E-03
StDev 1.05E-02
Variance 1.10E-04
Skewness -2.4E-01
Kurtosis -5.1E-01
N 29

Minimum -1.7E-02
1st Quartile -5.0E-04
Median 6.00E-03
3rd Quartile 1.65E-02
Maximum 2.50E-02

95% Confidence Interval for Mu

3.11E-03 1.11E-02

95% Confidence Interval for Sigma

8.32E-03 1.42E-02

95% Confidence Interval for Median

2.00E-03 1.30E-02

One-Sample T-Test Report

Variable SU_4206_SOF

Descriptive Statistics Section

Variable	Count	Mean	Standard Deviation	Standard Error	95% LCL of Mean	95% UCL of Mean
SU_4206_SOF	29	7.103448E-03	1.048926E-02	1.947807E-03	3.113546E-03	1.109335E-02

T for Confidence Limits = 2.0484

Tests of Assumptions Section

Assumption	Value	Probability	Decision(5%)
Skewness Normality	-0.5893	0.555687	Cannot reject normality
Kurtosis Normality	-0.5350	0.592636	Cannot reject normality
Omnibus Normality	0.6335	0.728523	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)
SU_4206_SOF<>1	-509.7509	0.000000	Reject Ho	1.000000	1.000000
SU_4206_SOF<1	-509.7509	0.000000	Reject Ho	1.000000	1.000000
SU_4206_SOF>1	-509.7509	1.000000	Accept Ho	0.000000	0.000000

Nonparametric Tests Section

Quantile (Sign) Test

Hypothesized Value	Quantile	Number Lower	Number Higher	Prob Lower	Prob Higher	Prob Both
1	0.5	29	0	1.000000	0.000000	0.000000

Wilcoxon Signed-Rank Test for Difference in Medians

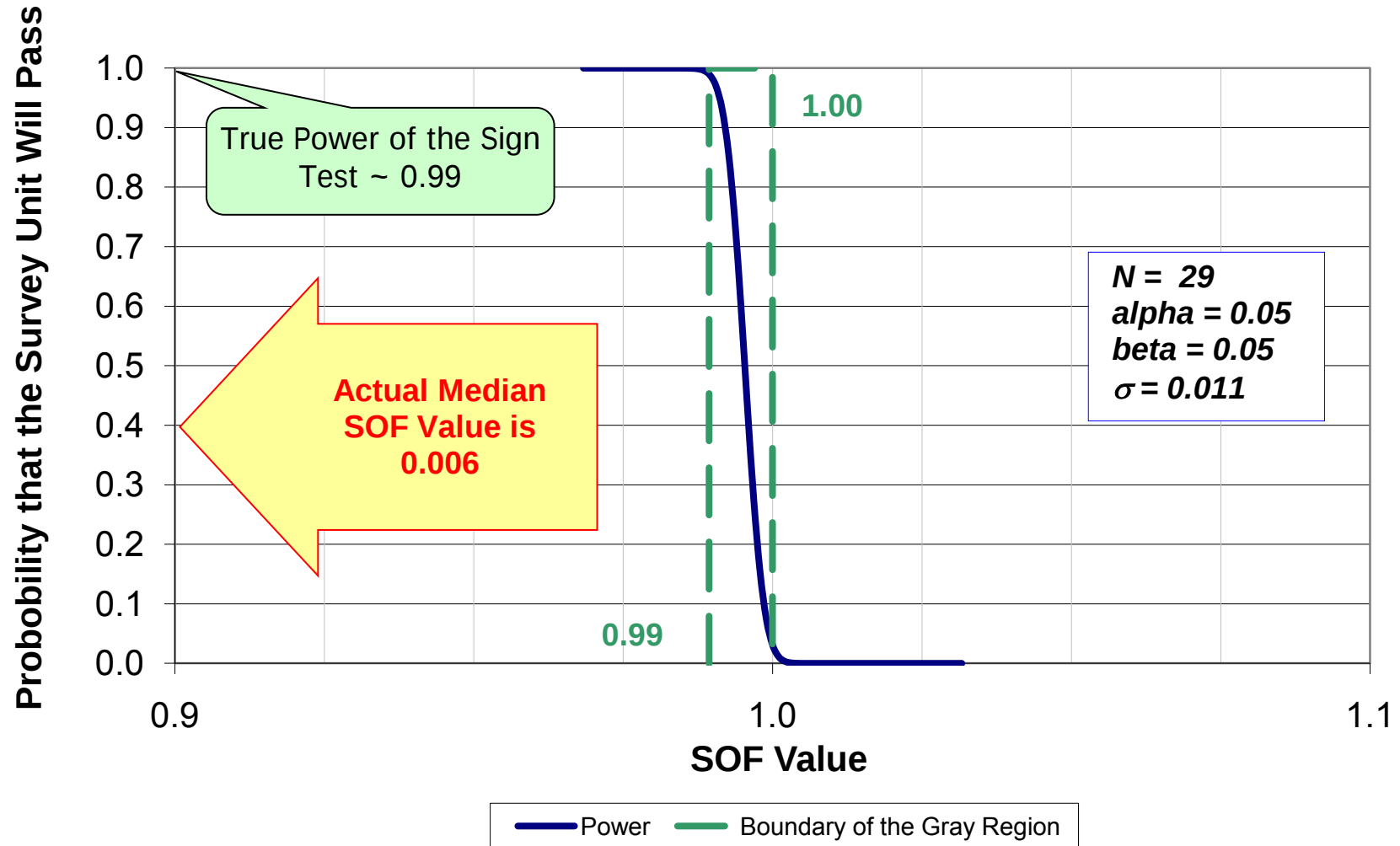
W Sum Ranks	Mean of W	Std Dev of W	Number of Zeros	Number Sets of Ties	Multiplicity Factor
0	217.5	46.2331	0	7	60

Alternative Hypothesis	Exact Probability		Approximation Without Continuity Correction			Approximation With Continuity Correction		
	Prob Level	Decision (5%)	Z-Value	Prob Level	Decision (5%)	Z-Value	Prob Level	Decision (5%)
Median<>1			4.7044	0.000003	Reject Ho	4.6936	0.000003	Reject Ho
Median<1			-4.7044	0.000001	Reject Ho	-4.6936	0.000001	Reject Ho
Median>1			-4.7044	0.999999	Accept Ho	-4.7152	0.999999	Accept Ho

Retrospective Power of the Sign Test

Surface Soil Volumetric Measurements SOF Values

Survey Unit CE-FSS-42-06



Survey Unit CE-FSS-42-06

Surveyor Ron Como
Daniel Dodge
Print

Ron Como
Dad Dodge
Sign

Survey Date

Count date

Reviewer G Seckinger
Print

Sign _____

8/17/10
Review Date

	Inst. No. 1	Inst. No. 2	Inst. No. 3	Inst. No. 4
Instrument ID	γ 10	γ 11		
Meter Serial #	172705	172718		
Probe Serial #	277925	277926		
Cal Due	10/08/10	10/9/2010		
Efficiency	n/a	n/a		
Type (α , β , γ)	γ	γ		
Sample Duration	n/a	n/a		
BKG	2.8 kcpm	2.6 kcpm		
LLD	n/a	n/a		
Guideline	n/a	n/a		
Action level	1504 ncpm	n/a		

Survey		
LOCATION:	Unit	CE-FSS-42-06
Industrial Waste line trench excavation footprint starting midway between MH-8 and MH-8A, extending N past MH-10/13, up to a height of 2' along the trench		RWP 10-001
PURPOSE:		
	kcpm ave	kcpm max
CE-FSS-42-06-001	na	na
CE-FSS-42-06-002	na	na
CE-FSS-42-06-003	na	na
CE-FSS-42-06-004	na	na
CE-FSS-42-06-005	na	na
CE-FSS-42-06-006	na	na
CE-FSS-42-06-007	na	na
CE-FSS-42-06-008	na	na
CE-FSS-42-06-009	na	na
CE-FSS-42-06-010	na	na
CE-FSS-42-06-011	na	na
CE-FSS-42-06-012	na	na
CE-FSS-42-06-013	na	na
CE-FSS-42-06-014	na	na
CE-FSS-42-06-015	na	na
CE-FSS-42-06-016	na	na
CE-FSS-42-06-017	na	na
CE-FSS-42-06-018	na	na
CE-FSS-42-06-019	na	na
CE-FSS-42-06-020	na	na
CE-FSS-42-06-021	na	na
CE-FSS-42-06-022	na	na
CE-FSS-42-06-023	na	na
CE-FSS-42-06-024	na	na
CE-FSS-42-06-025	na	na
CE-FSS-42-06-026	na	na

[illegible]

Survey Unit CE-FSS-42-06

Surveyor Ron Como
Daniel Dodge
Print

Mr. [unclear]
David Dwyer
 Sign

Survey Date

Count date

Reviewer Gecky
Print

Sign 

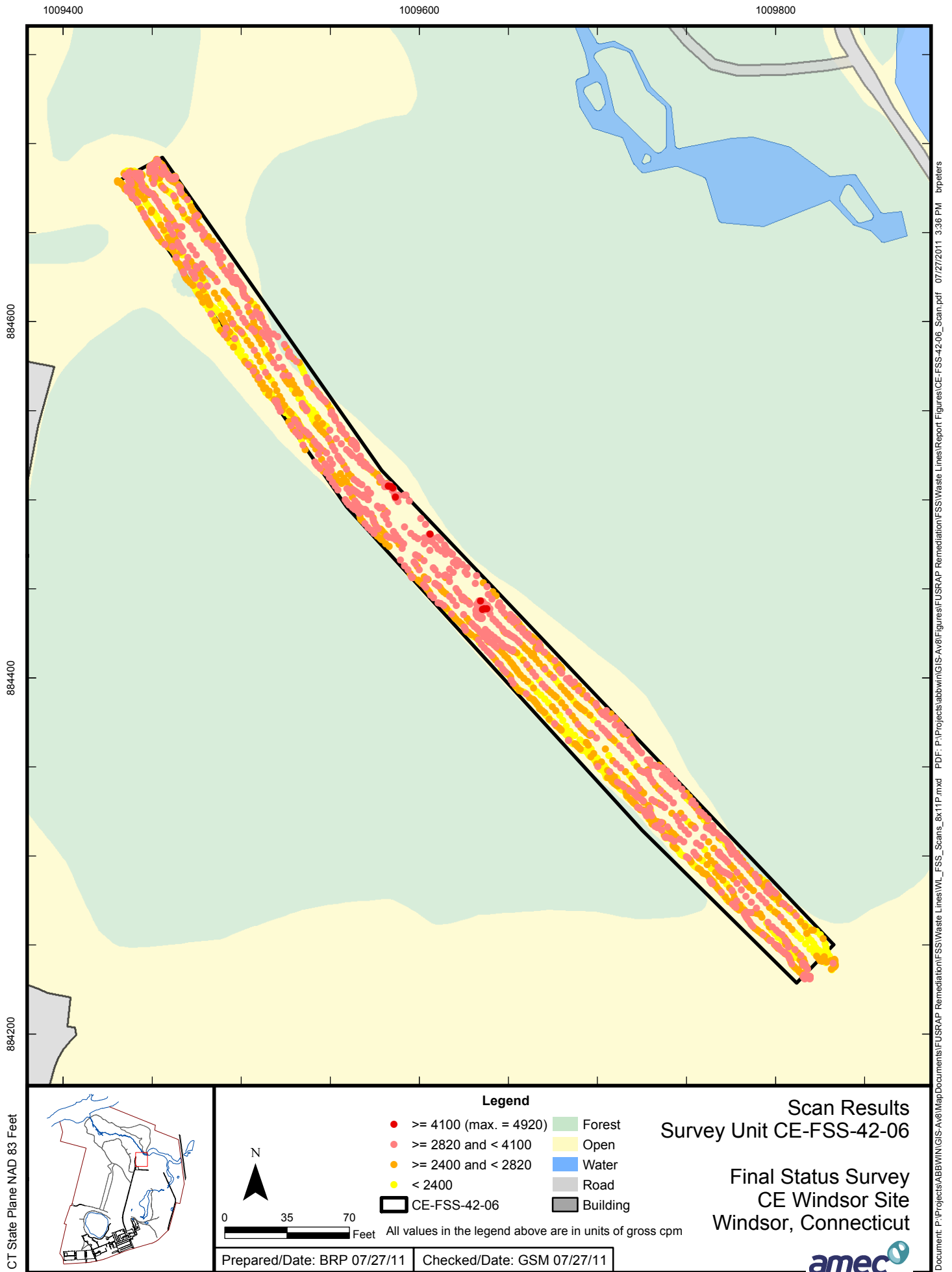
8/17/15

Review Date

	Inst. No. 1	Inst. No. 2	Inst. No. 3	Inst. No. 4
Instrument ID	γ 10	γ 11		
Meter Serial #	172705	172718		
Probe Serial #	277925	277926		
Cal Due	10/08/10	10/9/2010		
Efficiency	n/a	n/a		
Type (α , β , γ)	γ	γ		
Sample Duration	n/a	n/a		
BKG	kcpm	kcpm		
LLD	n/a	n/a		
Guideline	n/a	n/a		
Action level	1504 ncpm	n/a		

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(Revision 6/29/10)



Survey Unit: CE-FSS-42-06

Gamma Walkover Survey

Instrument: Ludlum Model 12 (172705) with 44-10 (277925)

Easting	Northing	CPM
1009819.351	884230.94	3180
1009819.344	884231.271	3600
1009819.381	884231.396	3240
1009819.414	884231.475	3240
1009819.394	884231.471	2880
1009818.875	884231.976	2940
1009818.716	884232.471	2880
1009819.16	884232.378	3240
1009819.322	884232.152	3000
1009819.3	884232.139	3000
1009819.372	884232.224	2940
1009819.397	884232.258	2880
1009819.397	884232.23	2880
1009819.414	884232.177	3240
1009819.421	884232.158	2580
1009819.402	884232.158	1920
1009819.389	884232.14	2220
1009819.362	884232.135	2220
1009819.414	884232.141	2640
1009819.355	884232.219	2760
1009819.105	884232.329	2760
1009818.95	884232.26	3120
1009818.883	884232.129	3120
1009818.892	884232.087	3480
1009818.974	884232.05	2580
1009819.046	884232.009	3180
1009819.062	884232.003	2640
1009819.099	884232.001	3180
1009819.143	884231.941	2640
1009819.111	884231.844	2880
1009819.075	884231.784	2760
1009819.224	884231.921	3240
1009818.103	884232.05	2820
1009816.225	884231.981	2820
1009815.425	884231.919	2940
1009815.713	884232.379	2520
1009816.184	884232.316	2280
1009816.383	884231.452	2640
1009816.544	884231.209	3000
1009816.686	884231.563	2820
1009816.708	884232.025	3060

Easting	Northing	CPM
1009492.144	884615.22	2520
1009493.008	884614.099	2580
1009493.975	884612.684	3180
1009495.06	884611.258	2940
1009496.365	884609.597	2520
1009497.528	884607.607	2760
1009498.82	884605.002	2940
1009500.979	884601.651	3120
1009502.317	884599.613	3120
1009504.179	884597.414	2700
1009506.018	884595.862	3000
1009507.601	884594.363	3180
1009508.495	884592.976	2700
1009509.284	884591.896	2580
1009510.292	884590.223	2520
1009511.518	884587.544	2400
1009513.254	884584.675	2040
1009514.145	884582.506	2340
1009515.344	884581.021	2700
1009516.712	884579.329	2580
1009518.182	884577.016	3060
1009520.337	884574.194	2820
1009522.343	884571.164	3300
1009523.516	884569.734	3120
1009524.74	884567.98	2640
1009525.682	884566.632	2700
1009526.866	884565.045	2520
1009528.824	884561.948	2280
1009530.403	884559.935	2580
1009532.461	884556.735	2340
1009534.271	884553.927	3000
1009535.422	884552.187	2940
1009536.375	884550.929	2700
1009536.922	884550.186	3060
1009536.794	884550.276	2460
1009535.922	884551.479	2520
1009534.645	884552.563	2760
1009534.609	884552.553	2340
1009535.107	884551.65	2280
1009536.713	884550.11	2820
1009538.936	884547.951	2340

Survey Unit: CE-FSS-42-06

Gamma Walkover Survey

Instrument: Ludlum Model 12 (172705) with 44-10 (277925)

Easting	Northing	CPM
1009816.825	884232.306	2040
1009817.027	884232.599	2280
1009817.088	884232.795	2220
1009816.926	884232.889	1980
1009816.51	884232.856	2820
1009815.999	884233.089	2940
1009815.281	884233.639	2220
1009814.352	884234.392	2520
1009813.463	884235.074	2460
1009812.669	884235.96	2700
1009811.698	884236.696	2340
1009810.748	884237.465	2580
1009810.047	884238.165	2340
1009809.543	884238.654	2340
1009809.194	884239.376	2940
1009808.838	884240.288	2640
1009808.53	884241.209	2400
1009808.243	884241.809	2700
1009807.993	884242.509	3120
1009807.7	884243.108	3000
1009807.592	884243.432	3780
1009807.307	884243.829	3240
1009806.735	884244.314	3120
1009805.956	884244.744	2640
1009805.265	884245.247	2460
1009805.465	884245.747	2220
1009805.199	884245.749	2880
1009804.041	884246.31	2820
1009802.687	884247.217	2880
1009801.444	884248.243	2460
1009801.234	884249.171	2700
1009801.42	884249.252	3120
1009801.396	884248.969	3240
1009801.418	884248.857	2580
1009801.36	884248.87	2160
1009801.127	884249.089	2520
1009800.959	884249.134	2700
1009800.559	884249.376	2700
1009800.234	884249.844	2220
1009800.925	884249.507	2160

Easting	Northing	CPM
1009540.176	884545.437	2160
1009541.191	884543.534	2280
1009542.253	884542.273	2460
1009543.161	884541.181	2760
1009544.324	884539.631	2400
1009545.92	884538.066	2640
1009547.463	884536.565	2640
1009549.086	884534.497	3240
1009550.385	884532.262	2400
1009551.314	884530.099	3060
1009552.593	884527.949	3240
1009553.778	884525.391	3360
1009554.345	884524.491	3000
1009554.818	884523.763	2640
1009555.435	884522.875	2940
1009556.41	884521.449	3180
1009557.681	884519.447	2760
1009559.098	884517.083	2940
1009560.347	884514.816	2760
1009561.874	884513.069	2760
1009563.452	884511.556	3240
1009565.048	884510.29	3000
1009566.259	884509.345	3180
1009567.723	884508.459	3120
1009569.074	884507.452	3540
1009570.9	884505.801	2880
1009572.692	884503.671	2820
1009574.448	884500.795	3420
1009576.078	884498.208	3540
1009577.633	884496.547	3660
1009579.327	884495.496	3120
1009580.882	884493.981	2700
1009582.102	884492.644	3180
1009583.3	884491.572	3480
1009585.276	884490.579	3780
1009587.299	884489.279	3780
1009589.397	884487.099	3360
1009591.76	884484.889	3240
1009593.367	884482.992	3480
1009594.307	884481.854	3540

Survey Unit: CE-FSS-42-06

Gamma Walkover Survey

Instrument: Ludlum Model 12 (172705) with 44-10 (277925)

Easting	Northing	CPM
1009801.548	884248.733	2820
1009801.327	884248.766	2760
1009800.584	884249.578	2580
1009800.007	884250.083	2940
1009799.444	884250.319	2760
1009798.761	884251.199	3420
1009798.103	884252.073	3600
1009797.588	884252.435	3240
1009796.914	884252.616	3060
1009796.095	884253.234	2580
1009795.392	884254.13	2520
1009794.773	884254.687	2460
1009793.924	884255.252	2400
1009793.133	884255.636	3240
1009792.625	884256.007	3480
1009792.272	884256.41	2520
1009792.146	884256.829	2700
1009791.725	884257.041	2100
1009791.154	884257.458	2100
1009790.347	884258.144	2520
1009789.472	884258.682	2460
1009788.446	884259.329	2520
1009787.316	884260.463	3060
1009786.237	884261.717	3060
1009785.437	884263.036	3120
1009784.638	884264.277	2760
1009783.764	884265.373	3060
1009783.144	884266.438	3120
1009782.596	884267.346	3000
1009782.332	884268.47	2460
1009781.998	884269.359	2580
1009781.211	884269.967	2640
1009780.245	884270.009	2760
1009779.663	884269.808	2640
1009779.629	884270.033	2760
1009779.222	884270.294	2640
1009778.447	884270.511	2220
1009777.821	884270.926	3180
1009776.953	884271.893	2520
1009775.939	884272.881	2940

Easting	Northing	CPM
1009595.308	884480.946	2820
1009597.525	884479.285	3060
1009599.296	884478.286	2820
1009601.385	884476.636	3420
1009602.747	884475.134	3120
1009603.98	884473.826	4020
1009605.934	884471.622	3240
1009608.282	884469.345	3360
1009610.321	884466.824	3420
1009612.287	884464.812	3540
1009613.813	884463.571	3600
1009615.28	884462.581	3360
1009616.975	884461.264	3240
1009619.09	884459.394	3000
1009621.441	884457.106	3540
1009623.965	884454.116	3600
1009626.079	884451.577	3300
1009627.752	884449.004	3360
1009629.16	884446.98	3720
1009630.268	884445.869	3300
1009631.082	884445.535	3360
1009632.491	884444.828	3420
1009634.375	884443.275	4920
1009636.365	884441.217	4020
1009636.888	884439.026	3000
1009636.517	884438.802	4440
1009636.404	884439.398	3840
1009636.923	884439.492	3540
1009637.664	884439.284	3780
1009637.897	884439.054	3600
1009637.879	884438.951	4140
1009638.143	884439.122	3540
1009638.831	884439.032	3600
1009639.309	884438.589	3240
1009639.554	884438.324	3300
1009639.262	884438.574	2580
1009638.567	884438.799	2700
1009638.142	884438.891	2940
1009637.697	884439.135	3540
1009637.203	884439.233	3540

Survey Unit: CE-FSS-42-06

Gamma Walkover Survey

Instrument: Ludlum Model 12 (172705) with 44-10 (277925)

Easting	Northing	CPM
1009775.088	884273.554	2280
1009773.94	884274.282	2460
1009772.77	884275.324	2040
1009771.796	884276.743	2700
1009770.827	884278.059	2160
1009769.657	884279.359	2820
1009768.627	884280.53	2580
1009767.659	884281.663	2460
1009766.923	884282.661	2340
1009766.605	884283.352	2640
1009766.317	884283.484	2040
1009765.805	884283.737	2580
1009765.308	884284.381	1560
1009765.06	884284.971	2220
1009764.752	884285.308	2760
1009764.412	884285.779	2760
1009764.322	884285.605	2400
1009764.499	884284.921	2580
1009764.51	884284.631	2880
1009764.397	884284.642	2940
1009764.344	884284.716	3060
1009764.095	884285.098	2580
1009763.722	884285.592	2340
1009763.577	884285.806	2520
1009763.41	884285.987	3240
1009763.24	884286.093	2940
1009763.539	884285.753	2760
1009764.074	884285.246	2160
1009764.228	884285.214	2400
1009764.331	884285.208	2280
1009764.909	884285.138	2460
1009765.489	884285.31	2160
1009765.279	884285.506	1980
1009764.454	884285.883	2160
1009763.642	884286.823	2400
1009762.982	884287.663	2400
1009762.225	884288.686	2340
1009761.271	884289.605	2460
1009760.175	884289.991	2520
1009759.386	884290.436	2400

Easting	Northing	CPM
1009637.132	884439.4	3000
1009637.267	884439.575	3240
1009637.321	884439.631	3000
1009637.337	884439.684	2700
1009637.286	884439.711	3900
1009637.237	884439.75	3180
1009637.357	884439.887	3300
1009637.56	884440.101	3300
1009637.507	884440.09	3000
1009637.307	884439.963	3540
1009637.241	884439.985	3480
1009637.248	884440.053	3360
1009637.275	884440.043	2880
1009637.597	884440.26	3300
1009638.004	884440.099	2940
1009638.144	884439.393	3120
1009638.167	884439.087	3360
1009638.207	884439.202	2820
1009637.836	884440.047	3240
1009636.911	884441.467	3120
1009635.63	884442.473	3000
1009634.886	884442.933	3360
1009634.699	884443.139	3360
1009634.783	884443.105	3480
1009634.883	884442.97	3120
1009635.033	884442.722	3180
1009635.046	884442.628	3000
1009634.97	884442.542	3720
1009634.901	884442.427	3300
1009634.836	884442.433	3660
1009634.835	884442.424	3720
1009634.815	884442.468	3480
1009634.779	884442.567	3660
1009634.854	884442.559	3300
1009634.997	884442.491	2760
1009635.105	884442.485	3420
1009635.255	884442.525	3060
1009635.449	884442.763	3300
1009635.552	884443.053	3360
1009635.584	884443.054	3840

Survey Unit: CE-FSS-42-06

Gamma Walkover Survey

Instrument: Ludlum Model 12 (172705) with 44-10 (277925)

Easting	Northing	CPM
1009758.728	884291.295	2340
1009757.811	884292.26	2580
1009756.673	884293.164	2460
1009755.445	884293.778	2100
1009754.412	884294.559	2040
1009753.511	884295.62	2340
1009752.718	884296.745	2580
1009751.93	884297.932	2520
1009751.05	884298.773	2940
1009749.994	884299.448	3180
1009748.996	884299.813	2100
1009747.903	884300.245	2220
1009746.835	884301.171	1680
1009745.912	884302.289	2280
1009745.14	884303.437	2040
1009744.275	884304.291	2700
1009743.29	884304.954	2760
1009742.59	884305.646	2400
1009742.443	884306.48	2220
1009742.881	884307.854	2460
1009743.023	884308.679	2280
1009743.063	884308.421	2940
1009743.039	884308.615	2640
1009742.405	884309.371	2400
1009741.178	884309.742	3180
1009740.163	884310.704	2100
1009739.248	884311.32	2220
1009738.907	884310.983	2640
1009738.95	884310.557	2340
1009738.691	884310.119	2220
1009738.768	884310	2220
1009738.757	884310.148	3420
1009738.776	884310.586	2880
1009738.243	884310.658	2940
1009737.57	884311.655	2520
1009737	884313.505	2160
1009736.179	884314.514	3120
1009735.615	884315.179	2640
1009734.83	884315.755	3420
1009733.974	884315.994	2880

Easting	Northing	CPM
1009635.604	884442.931	3720
1009635.642	884442.83	3480
1009635.681	884442.751	3000
1009635.646	884442.686	3300
1009635.569	884442.595	3060
1009635.606	884442.536	3480
1009635.697	884442.516	3360
1009635.681	884442.467	3480
1009635.602	884442.421	3420
1009635.604	884442.484	2940
1009635.634	884442.606	3120
1009635.657	884442.627	2940
1009635.702	884442.621	3060
1009635.714	884442.601	3180
1009635.715	884442.585	3420
1009635.734	884442.562	3780
1009635.722	884442.523	2940
1009635.729	884442.572	3120
1009635.736	884442.782	3480
1009635.173	884442.712	2940
1009634.326	884442.722	3420
1009634.132	884443.422	3420
1009634.091	884443.589	3840
1009633.696	884443.153	3600
1009633.546	884442.969	2820
1009634.068	884442.995	3120
1009634.567	884443.013	3240
1009634.764	884443.015	3600
1009634.26	884442.833	3780
1009633.517	884442.448	3120
1009633.245	884442.22	3240
1009633.379	884442.293	3660
1009633.397	884442.321	3360
1009633.41	884442.171	3060
1009633.326	884441.941	3780
1009632.997	884441.681	3480
1009632.612	884441.27	2820
1009632.549	884441.049	3420
1009632.64	884441.113	3240
1009632.671	884441.235	3240

Survey Unit: CE-FSS-42-06

Gamma Walkover Survey

Instrument: Ludlum Model 12 (172705) with 44-10 (277925)

Easting	Northing	CPM
1009733.724	884316.018	2820
1009733.889	884316.638	2640
1009733.371	884317.029	3060
1009732.767	884316.891	2640
1009732.839	884316.832	2940
1009732.979	884316.742	3120
1009732.925	884316.64	2940
1009732.396	884316.64	2880
1009731.607	884317.107	3480
1009730.932	884317.817	2520
1009730.661	884318.175	2700
1009730.906	884318.465	2400
1009730.924	884318.838	2160
1009730.153	884319.719	2220
1009729.301	884320.515	2400
1009729.034	884320.542	2160
1009728.616	884321.345	2280
1009727.646	884322.565	2880
1009726.902	884323.787	2820
1009726.436	884325.216	2940
1009726.025	884325.776	2460
1009725.431	884325.783	2700
1009724.629	884325.84	2460
1009724.045	884326.29	2400
1009723.646	884326.836	2820
1009723.214	884327.224	2400
1009722.816	884327.32	2640
1009722.592	884327.434	2940
1009722.078	884328.039	2340
1009721.422	884328.975	2520
1009720.799	884329.475	1800
1009720.323	884329.749	2700
1009720.187	884330.121	2340
1009719.655	884330.657	2400
1009718.617	884331.74	2400
1009717.367	884332.719	2220
1009716.454	884333.754	2520
1009716.057	884335.082	2280
1009715.814	884335.72	2040
1009716.021	884336.01	2400

Easting	Northing	CPM
1009632.692	884441.321	3000
1009632.713	884441.296	3240
1009632.745	884441.192	3600
1009632.791	884441.146	3360
1009632.813	884441.194	3780
1009632.835	884441.244	3900
1009633.004	884441.255	3300
1009633.059	884440.874	3780
1009632.885	884440.299	3240
1009632.766	884440.185	3540
1009632.823	884440.285	3240
1009632.939	884440.252	3360
1009633.025	884440.253	3720
1009633.072	884440.347	3300
1009633.141	884440.519	3240
1009633.215	884440.599	3840
1009633.262	884440.517	3180
1009633.288	884440.476	3180
1009633.296	884440.561	3240
1009633.325	884440.553	3240
1009633.398	884440.778	3480
1009633.359	884440.89	3660
1009633.213	884440.46	3180
1009633.121	884440.268	3060
1009633.049	884440.294	3540
1009633.007	884440.261	3540
1009633.014	884440.2	3240
1009633.314	884440.355	3420
1009633.817	884440.092	3600
1009634.089	884439.211	3360
1009634.111	884438.966	3720
1009634.233	884439.15	3840
1009634.341	884439.131	3660
1009634.313	884439.126	3000
1009634.075	884439.242	3660
1009633.854	884438.829	2640
1009633.925	884438.475	3120
1009634.051	884438.545	3600
1009634.333	884438.666	3420
1009634.658	884438.904	3780

Survey Unit: CE-FSS-42-06

Gamma Walkover Survey

Instrument: Ludlum Model 12 (172705) with 44-10 (277925)

Easting	Northing	CPM
1009715.345	884336.283	2160
1009713.745	884336.969	2040
1009712.762	884337.951	2340
1009712.249	884338.686	2100
1009711.598	884339.22	2580
1009710.832	884339.563	2160
1009710.488	884339.905	2700
1009709.396	884340.743	2460
1009708.188	884341.996	2460
1009707.862	884342.706	2460
1009707.485	884343.12	2100
1009706.726	884343.657	2280
1009705.735	884343.866	2460
1009705.088	884344.094	1740
1009704.988	884344.448	2220
1009704.691	884345.057	2280
1009704.194	884346.62	1860
1009703.025	884347.939	2280
1009701.46	884348.856	1800
1009700.358	884350.039	2880
1009699.548	884351.831	2580
1009698.721	884353.494	2340
1009697.67	884354.802	2040
1009696.367	884355.734	2460
1009695.448	884356.555	2040
1009694.8	884357.646	1800
1009694.046	884358.708	1980
1009692.815	884359.421	2340
1009691.539	884359.394	2160
1009691.241	884359.5	1920
1009690.427	884360.017	2640
1009689.328	884361.201	2520
1009688.633	884361.984	2400
1009687.993	884362.545	2520
1009687.34	884362.97	2460
1009686.821	884362.938	1980
1009686.413	884362.955	1920
1009685.873	884363.394	1620
1009685.187	884363.922	1680
1009684.404	884364.693	2280

Easting	Northing	CPM
1009634.865	884439.222	3960
1009635.007	884439.386	3300
1009635.03	884439.35	3480
1009634.978	884439.217	2940
1009635.01	884439.005	4020
1009635.124	884438.903	3480
1009635.165	884438.969	3300
1009635.2	884439.004	3420
1009635.217	884439.028	2940
1009635.205	884439.008	3360
1009635.189	884438.979	3240
1009635.225	884439.001	3240
1009635.499	884439.398	2520
1009636.24	884439.752	3540
1009636.906	884439.838	3060
1009636.862	884440.234	3360
1009636.751	884440.62	3660
1009636.948	884440.738	3600
1009637.591	884440.695	3180
1009638.288	884440.629	3120
1009638.407	884440.674	2940
1009637.84	884440.947	3600
1009637.404	884441.087	3660
1009637.404	884440.885	3000
1009637.55	884440.544	3420
1009637.51	884440.196	3060
1009637.28	884439.992	3660
1009637.042	884439.993	3180
1009636.998	884440.139	3360
1009637.028	884440.191	3660
1009637.02	884440.181	3180
1009636.941	884440.162	3360
1009636.475	884440.246	4020
1009635.619	884440.23	3360
1009635.296	884440.273	3360
1009635.482	884439.958	3120
1009635.665	884439.454	3060
1009635.897	884438.975	3300
1009635.861	884438.946	3600
1009635.564	884438.505	4380

Survey Unit: CE-FSS-42-06

Gamma Walkover Survey

Instrument: Ludlum Model 12 (172705) with 44-10 (277925)

Easting	Northing	CPM
1009684.055	884365.511	2280
1009683.902	884365.319	2700
1009683.889	884364.944	2880
1009683.983	884364.87	2040
1009684.343	884365.566	2160
1009684.208	884366.441	1980
1009683.327	884367.485	1680
1009682.587	884368.183	2220
1009682.121	884368.712	1980
1009681.099	884369.386	2160
1009679.828	884370.474	2700
1009678.697	884371.582	2580
1009677.755	884372.484	2160
1009676.879	884373.276	2460
1009675.883	884374.411	3000
1009674.877	884375.505	1860
1009673.711	884376.192	1860
1009672.938	884376.894	2520
1009672.493	884377.793	2220
1009671.727	884378.752	1980
1009671.04	884379.611	2280
1009670.711	884380.197	2280
1009670.286	884380.645	2760
1009669.017	884381.55	2400
1009667.647	884382.874	2520
1009667.242	884383.79	2160
1009667.007	884384.098	1980
1009666.584	884384.323	2040
1009666.368	884384.647	1920
1009666.091	884385.253	2400
1009665.348	884386.27	2520
1009664.612	884387.03	2520
1009664.161	884387.6	2760
1009663.422	884388.111	1860
1009661.993	884388.975	2580
1009660.877	884390.207	1920
1009660	884391.137	2820
1009659.088	884391.68	2280
1009658.184	884392.2	2340
1009657.196	884392.572	2400

Easting	Northing	CPM
1009635.521	884438.649	3480
1009636.169	884439.046	3240
1009636.242	884438.627	3600
1009636.284	884438.22	3060
1009636.392	884438.234	3780
1009636.289	884438.231	3240
1009636.109	884438.055	3240
1009636.016	884437.909	3420
1009636.045	884437.912	3240
1009636.149	884438.046	3180
1009636.105	884438.146	3240
1009636.018	884438.154	3000
1009636.021	884438.162	3480
1009636.072	884438.176	3840
1009636.153	884438.164	3720
1009636.212	884438.14	3180
1009636.254	884438.126	2940
1009636.343	884438.143	3240
1009636.359	884438.164	2760
1009636.261	884438.118	2700
1009636.23	884438.011	3300
1009636.311	884437.953	3360
1009636.389	884437.95	3360
1009636.427	884437.907	3360
1009636.585	884438.066	3240
1009637.023	884438.353	3600
1009637.44	884438.303	3300
1009637.741	884438.308	3840
1009637.846	884438.283	3480
1009637.755	884437.919	3660
1009637.653	884437.585	3780
1009637.784	884438.03	3300
1009638.314	884438.895	3120
1009639.003	884438.978	2820
1009639.508	884438.733	3000
1009639.582	884438.732	3060
1009638.609	884439.178	3840
1009636.816	884439.307	4080
1009636.067	884438.717	3420
1009637.024	884437.885	3600

Survey Unit: CE-FSS-42-06

Gamma Walkover Survey

Instrument: Ludlum Model 12 (172705) with 44-10 (277925)

Easting	Northing	CPM
1009656.159	884393.013	2580
1009655.642	884393.564	2160
1009654.909	884394.364	2340
1009653.978	884395.426	2640
1009652.667	884396.855	2940
1009651.634	884398.718	2880
1009651.299	884400.414	2520
1009650.823	884401.221	2340
1009650.043	884401.789	2400
1009649.344	884402.506	2160
1009648.573	884403.252	3000
1009647.759	884403.966	2760
1009646.882	884404.713	2820
1009646.127	884405.568	2220
1009645.961	884406.54	2220
1009645.775	884406.973	2340
1009645.45	884407.382	3240
1009644.262	884408.284	2880
1009642.923	884409.993	2700
1009641.795	884411.39	2580
1009640.669	884412.436	3000
1009639.425	884413.808	3240
1009638.088	884415.303	3240
1009636.539	884417.117	2940
1009634.899	884418.7	2820
1009633.855	884420.002	2280
1009633.306	884421.227	2820
1009632.636	884422.165	2400
1009631.965	884422.693	2460
1009630.814	884423.26	2340
1009629.097	884424.141	2640
1009627.888	884425.122	2460
1009627.15	884425.748	2520
1009626.561	884426.192	2520
1009626.037	884426.882	2940
1009625.634	884427.906	2580
1009625.171	884428.791	3180
1009624.541	884429.555	2220
1009623.524	884430.479	2700
1009622.329	884431.402	2520

Easting	Northing	CPM
1009638.652	884436.991	3600
1009639.777	884435.784	3240
1009640.623	884434.324	3720
1009641.539	884433.008	3000
1009642.98	884431.557	2880
1009644.744	884429.676	2880
1009645.864	884428.461	3420
1009646.802	884427.47	2820
1009647.536	884426.115	2640
1009648.363	884425.321	2880
1009648.883	884424.946	2700
1009649.616	884424.811	2940
1009650.12	884424.501	3180
1009651.142	884423.935	3240
1009652.348	884423.265	3000
1009653.694	884422.423	3120
1009655.246	884420.83	2880
1009656.278	884419.866	2820
1009657.929	884418.307	2700
1009659.52	884416.568	2640
1009661.115	884415.059	2640
1009663.144	884412.972	2700
1009664.047	884412.772	2700
1009664.123	884413.291	2460
1009663.337	884413.64	2160
1009662.956	884413.533	2520
1009662.908	884413.292	2100
1009663.19	884412.704	2760
1009664.277	884411.812	2100
1009665.681	884410.241	2520
1009667.274	884408.212	2700
1009669.963	884406.081	2400
1009670.138	884405.648	2520
1009670.082	884405.757	2280
1009669.889	884406.082	2280
1009669.781	884406.024	2700
1009670.02	884405.679	2580
1009670.709	884404.865	2940
1009672.031	884403.237	2280
1009673.476	884401.859	2580

Survey Unit: CE-FSS-42-06

Gamma Walkover Survey

Instrument: Ludlum Model 12 (172705) with 44-10 (277925)

Easting	Northing	CPM
1009621.399	884432.417	3300
1009620.592	884433.083	2520
1009619.945	884433.645	2400
1009619.246	884434.696	2700
1009618.185	884435.775	2940
1009616.765	884437.4	2160
1009615.527	884438.903	2580
1009614.836	884439.597	2700
1009613.778	884440.569	2940
1009611.964	884441.634	3060
1009610.638	884442.184	2880
1009609.549	884443.315	3300
1009607.968	884444.948	2940
1009606.559	884446.481	3180
1009605.859	884447.964	2760
1009605.232	884449.078	2160
1009604.434	884449.838	2580
1009603.655	884450.8	3000
1009603.001	884451.693	2640
1009602.446	884452.429	2880
1009601.314	884453.13	2460
1009600.081	884454.094	2760
1009599.393	884455.078	2580
1009598.866	884456.051	3300
1009598.012	884456.578	3480
1009597.528	884456.302	3360
1009597.714	884456.157	3600
1009597.548	884456.35	3600
1009596.762	884456.428	2700
1009596.068	884456.402	3420
1009596.011	884456.358	3060
1009596.228	884456.249	3360
1009596.362	884456.188	2760
1009596.026	884456.292	2820
1009595.554	884457.166	3180
1009594.963	884458.71	2700
1009593.639	884460.741	2940
1009591.756	884463.009	3180
1009590.498	884464.691	3660
1009589.463	884466.256	3180

Easting	Northing	CPM
1009675.412	884400.18	2880
1009676.724	884398.764	2160
1009678.174	884396.817	2340
1009679.664	884395.009	2520
1009681.549	884392.961	2580
1009683.305	884390.942	2580
1009684.941	884389.172	2400
1009686.685	884387.071	2340
1009688.267	884385.401	2580
1009689.449	884384.237	2400
1009690.276	884383.474	2700
1009691.105	884382.864	2700
1009691.919	884382.221	2220
1009692.808	884381.472	2400
1009694.127	884380.502	2280
1009695.865	884378.957	2520
1009697.907	884376.668	2220
1009700.267	884374.262	2820
1009702.661	884371.733	2940
1009704.147	884370.198	3000
1009705.396	884368.819	3180
1009706.546	884367.537	2880
1009707.231	884366.75	2760
1009708.286	884365.771	2760
1009709.5	884364.779	2460
1009710.882	884363.49	2280
1009712.552	884361.652	2940
1009714.597	884359.529	3000
1009716.952	884357.122	2940
1009718.893	884354.899	2820
1009720.628	884352.495	2160
1009722.218	884349.987	2580
1009723.966	884348.148	2880
1009725.483	884347.264	2700
1009726.343	884346.904	3180
1009727.328	884346.129	3300
1009728.196	884346.135	2820
1009728.503	884347.261	3060
1009728.466	884348.288	2760
1009728.12	884348.015	2700

Survey Unit: CE-FSS-42-06

Gamma Walkover Survey

Instrument: Ludlum Model 12 (172705) with 44-10 (277925)

Easting	Northing	CPM
1009588.185	884468.286	3300
1009586.776	884470.375	3300
1009584.893	884472.373	3360
1009583.193	884473.832	2760
1009581.842	884474.732	3300
1009581.221	884475.26	2760
1009580.896	884475.697	3360
1009580.241	884476.329	3420
1009579.685	884476.906	3900
1009579.199	884477.349	2700
1009578.638	884477.938	2520
1009577.924	884478.774	2640
1009576.427	884479.727	2580
1009574.698	884481.017	2820
1009572.921	884482.77	3120
1009571.106	884484.49	3120
1009569.512	884486.506	2940
1009568.128	884487.975	2700
1009567.105	884489.079	2760
1009566.718	884490.565	2700
1009566.392	884492.471	2880
1009564.903	884494.15	3240
1009562.955	884494.672	3660
1009562.245	884495.442	3420
1009562.599	884496.455	3540
1009562.726	884496.713	2820
1009562.96	884496.11	3240
1009563.504	884495.427	3540
1009563.541	884495.115	3000
1009563.378	884494.951	3420
1009563.752	884494.607	3240
1009565.165	884494.196	3420
1009566.213	884494.184	3120
1009564.981	884494.522	2400
1009562.498	884495.636	2880
1009560.662	884497.226	2880
1009559.418	884498.627	3000
1009558.427	884499.984	2940
1009557.542	884501.616	3780
1009556.063	884503.226	3300

Easting	Northing	CPM
1009728.224	884347.155	2880
1009728.952	884345.399	2820
1009729.973	884343.203	3060
1009731.249	884341.365	2820
1009732.677	884339.557	2640
1009734.212	884337.9	2400
1009735.552	884336.568	3180
1009736.899	884335.232	2760
1009738.559	884333.67	3060
1009740.358	884332.144	3000
1009742.675	884329.63	3060
1009744.574	884326.977	3420
1009746.826	884324.116	2700
1009748.723	884321.498	2820
1009750.868	884319.072	2040
1009752.735	884317.526	2520
1009754.041	884316.579	2760
1009754.958	884315.567	3000
1009756.064	884314.249	3300
1009757.677	884312.503	3600
1009759.663	884310.563	3000
1009762.483	884307.751	2760
1009765.44	884304.229	2700
1009768.431	884301.365	3120
1009769.627	884299.782	3300
1009768.898	884300.185	3240
1009768.586	884301.554	3000
1009768.451	884302.358	3300
1009768.128	884302.288	3720
1009767.988	884302.152	3000
1009768.077	884302.064	3060
1009768.213	884301.965	3060
1009768.317	884301.942	2760
1009768.37	884301.974	2640
1009768.357	884301.911	3540
1009768.314	884301.828	3300
1009768.191	884301.766	2940
1009767.957	884301.56	2880
1009767.913	884301.391	3360
1009768.228	884301.194	3600

Survey Unit: CE-FSS-42-06

Gamma Walkover Survey

Instrument: Ludlum Model 12 (172705) with 44-10 (277925)

Easting	Northing	CPM
1009554.297	884505.497	3000
1009552.794	884507.669	2940
1009551.287	884509.729	3180
1009549.587	884512.483	2820
1009547.837	884514.948	3060
1009546.068	884516.332	2640
1009544.269	884517.454	3000
1009542.911	884518.932	3180
1009541.941	884520.255	2820
1009541.402	884521.167	2880
1009540.534	884521.853	3480
1009539.058	884523.606	3420
1009537.54	884525.935	3300
1009535.918	884528.116	2580
1009534.783	884530.887	2820
1009533.989	884533.79	2220
1009532.873	884535.675	2940
1009531.911	884536.726	2880
1009530.67	884537.911	2880
1009529.274	884539.572	2760
1009527.947	884541.518	3120
1009526.659	884543.714	2640
1009525.231	884545.878	3420
1009523.616	884547.645	3420
1009522.007	884549.594	3240
1009520.96	884551.742	2880
1009520.433	884553.504	2820
1009519.62	884555.005	2580
1009518.429	884556.273	2580
1009517.086	884557.358	2160
1009515.42	884558.716	2580
1009513.926	884560.385	2340
1009512.61	884562.531	2760
1009511.018	884565.106	2460
1009509.404	884567.643	2520
1009507.865	884570.024	2400
1009506.728	884572.15	3000
1009505.625	884573.634	3300
1009504.735	884574.795	2400
1009503.923	884575.742	3000

Easting	Northing	CPM
1009768.793	884300.861	3420
1009769.191	884300.486	3000
1009769.597	884300.046	3300
1009770.142	884299.655	3120
1009770.818	884299.183	2880
1009771.8	884298.057	3180
1009773.198	884296.675	2940
1009774.786	884294.941	2580
1009776.538	884292.872	2760
1009778.507	884290.739	2940
1009780.198	884288.602	2400
1009781.931	884286.613	2400
1009782.883	884285.211	2940
1009783.971	884283.914	2640
1009785.431	884282.544	2700
1009787.653	884280.57	2700
1009790.832	884277.737	2880
1009792.504	884275.907	3060
1009794.706	884273.534	3240
1009796.622	884271.211	2580
1009798.285	884269.681	2280
1009799.708	884268.627	2760
1009801.209	884267.477	2760
1009802.966	884265.657	3180
1009804.941	884263.084	2640
1009807.273	884260.767	2760
1009809.303	884258.528	2520
1009810.907	884256.949	2160
1009812.353	884255.571	2280
1009814.245	884253.679	2220
1009816.963	884250.746	1980
1009819.375	884247.796	1800
1009821.587	884245.468	2160
1009823.119	884243.7	2460
1009824.267	884242.222	2520
1009825.178	884241.221	2700
1009826.23	884240.798	2400
1009828.036	884241.084	2400
1009828.818	884240.627	2460
1009828.289	884240.197	2100

Survey Unit: CE-FSS-42-06

Gamma Walkover Survey

Instrument: Ludlum Model 12 (172705) with 44-10 (277925)

Easting	Northing	CPM
1009502.954	884576.672	2700
1009502.111	884577.737	2460
1009501.351	884579.038	2040
1009499.881	884580.776	2220
1009498.08	884582.85	2160
1009495.828	884585.588	2520
1009493.843	884588.347	2280
1009492.162	884590.843	2580
1009490.592	884592.786	3060
1009489.501	884594.21	2460
1009488.403	884595.127	2460
1009487.592	884596.066	2340
1009486.922	884597.169	2220
1009486.361	884598.661	2100
1009485.412	884600.58	2640
1009484.231	884602.472	2340
1009483.122	884604.432	2820
1009481.64	884606.769	2160
1009479.88	884609.38	1860
1009478.483	884610.967	2460
1009477.92	884612.451	2220
1009477.135	884614.083	2640
1009476.229	884615.39	2700
1009475.306	884616.743	2280
1009474.288	884618.414	2340
1009473.014	884620.478	2460
1009471.394	884621.933	2640
1009470.019	884623.313	2760
1009468.932	884624.611	2640
1009468.242	884625.919	2580
1009467.795	884627.191	2820
1009467.383	884628.189	3000
1009467.047	884629.056	2700
1009466.557	884630.429	2700
1009465.672	884632.128	2520
1009464.392	884633.285	2520
1009463.573	884634.21	2280
1009463.364	884634.858	2460
1009463.278	884635.25	1980
1009463.557	884636.1	2940

Easting	Northing	CPM
1009828.033	884241.297	2340
1009827.452	884242.787	2160
1009827.34	884243.537	2460
1009827.68	884244.811	2040
1009827.702	884245.077	1980
1009827.397	884244.703	2160
1009827.109	884244.871	2340
1009826.215	884245.894	2220
1009824.342	884247.029	1800
1009822.646	884248.412	1740
1009821.564	884250.654	1920
1009820.162	884252.559	2040
1009818.32	884254.225	2100
1009817.575	884256.316	2700
1009817.5	884258.404	2160
1009817.418	884259.374	2040
1009817.288	884259.857	1980
1009817.007	884260.57	2220
1009816.946	884260.977	2160
1009817.313	884260.663	1560
1009816.635	884260.661	2400
1009815.11	884261.971	2340
1009814.186	884263.295	2400
1009813.123	884264.962	2040
1009811.734	884266.342	3000
1009810.258	884268.315	2400
1009808.118	884270.199	3240
1009806.192	884271.528	2520
1009804.754	884272.959	2820
1009802.93	884274.353	2220
1009800.532	884275.45	2160
1009798.824	884276.789	2400
1009797.793	884278.229	2760
1009796.48	884279.094	2880
1009795.014	884280.325	2820
1009793.624	884282.651	2580
1009791.72	884284.417	2760
1009790.521	884285.4	2820
1009789.627	884287.178	3180
1009788.632	884288.733	2700

Survey Unit: CE-FSS-42-06

Gamma Walkover Survey

Instrument: Ludlum Model 12 (172705) with 44-10 (277925)

Easting	Northing	CPM
1009463.557	884637.219	2580
1009462.892	884638.321	2220
1009461.881	884639.653	2460
1009460.6	884641.047	2340
1009459.037	884641.976	2760
1009457.13	884643.291	2940
1009455.543	884644.95	2520
1009454.117	884646.488	2580
1009453.462	884647.539	2460
1009453.084	884648.258	2820
1009452.725	884648.807	2400
1009452.185	884649.626	2400
1009451.39	884650.567	2880
1009450.583	884651.647	3000
1009449.947	884652.884	2580
1009449.16	884654.193	2520
1009448.237	884655.52	2580
1009447.251	884656.941	2640
1009446.232	884658.746	2880
1009445.18	884660.689	3060
1009443.836	884662.897	2580
1009442.67	884665.03	2220
1009441.836	884666.89	2880
1009440.824	884668.483	2880
1009439.294	884670.726	3420
1009438.777	884672.669	3660
1009438.689	884673.209	3000
1009438.405	884673.236	2760
1009438.241	884673.431	2400
1009438.228	884672.785	2700
1009438.164	884671.698	2580
1009438.27	884671.403	3300
1009438.667	884670.547	3000
1009438.902	884669.499	2640
1009439.293	884669.35	2520
1009439.959	884669.252	2700
1009439.648	884669.787	2460
1009438.058	884671.703	2700
1009436.148	884673.252	3000
1009434.938	884674.315	2700

Easting	Northing	CPM
1009787.041	884289.927	2760
1009785.441	884291.795	2520
1009784.019	884293.785	2820
1009782.177	884295.534	2880
1009780.371	884297.107	2820
1009778.643	884298.701	3060
1009776.889	884299.651	3420
1009775.527	884300.915	2880
1009774.591	884302.862	3120
1009773.562	884304.541	2760
1009772.025	884306.497	2160
1009769.628	884309.086	2220
1009768.267	884309.981	2760
1009766.562	884311.455	3300
1009765.296	884313.093	3240
1009764.098	884314.341	2820
1009762.964	884315.929	2880
1009761.858	884318.199	2700
1009759.963	884320.409	2340
1009757.889	884322.669	2580
1009756.851	884325.051	2880
1009755.658	884326.946	2640
1009754.297	884328.293	2520
1009753.061	884329.657	2820
1009751.674	884330.91	2280
1009750.189	884332.451	2340
1009748.667	884333.813	2820
1009747.01	884335.446	3720
1009745.702	884337.25	3420
1009743.919	884339	3000
1009741.946	884340.517	3240
1009740.426	884342.037	3240
1009738.738	884343.469	3120
1009736.418	884345.375	2940
1009735.016	884347.614	3360
1009733.702	884350.025	3120
1009732.155	884351.102	3180
1009730.675	884351.149	3060
1009729.654	884352.029	2940
1009728.001	884353.807	3120

Survey Unit: CE-FSS-42-06

Gamma Walkover Survey

Instrument: Ludlum Model 12 (172705) with 44-10 (277925)

Easting	Northing	CPM
1009433.99	884676.069	2700
1009432.807	884677.755	2460
1009431.716	884678.81	2280
1009430.513	884679.023	2640
1009430.675	884678.44	2700
1009432.914	884677.185	2760
1009435.8	884675.415	2880
1009437.174	884674.581	2700
1009436.216	884674.733	2760
1009435.522	884674.82	2700
1009435.557	884675.296	2700
1009438.077	884678.905	2280
1009438.079	884678.941	2640
1009438.057	884678.975	2640
1009437.942	884679.184	3000
1009438.177	884678.71	2820
1009438.644	884677.689	3420
1009438.406	884677.408	3000
1009437.796	884677.981	2700
1009437.397	884678.867	3660
1009437.031	884679.281	3000
1009437.09	884679.179	3180
1009437.48	884678.835	3300
1009437.576	884678.519	2820
1009437.443	884678.507	3000
1009437.351	884678.674	2160
1009437.439	884678.7	2820
1009437.548	884678.608	2580
1009437.619	884678.638	2340
1009437.875	884678.808	2460
1009437.971	884679.847	2460
1009437.751	884680.996	2460
1009438.067	884681.944	2400
1009437.701	884683.473	2520
1009435.953	884684.367	2040
1009434.678	884683.997	2040
1009434.349	884683.017	2400
1009435.104	884682.018	2940
1009436.314	884681.506	2820
1009436.898	884681.16	2340

Easting	Northing	CPM
1009725.925	884355.803	3600
1009724.275	884358.057	3360
1009722.896	884359.836	3240
1009721.777	884361.339	2880
1009720.323	884362.723	3060
1009718.531	884364.397	3240
1009716.659	884366.375	3360
1009714.586	884368.338	2700
1009712.626	884370.413	3180
1009711.009	884372.209	3480
1009709.941	884373.728	3120
1009708.769	884375.334	3360
1009706.91	884376.961	3000
1009704.983	884378.347	3240
1009703.225	884379.589	3060
1009702.183	884380.621	2820
1009701.396	884381.63	2580
1009700.314	884383.141	2520
1009699.418	884384.312	3180
1009698.13	884385.855	2760
1009696.472	884387.387	2580
1009694.266	884388.965	3060
1009691.83	884390.838	2700
1009689.425	884392.966	3060
1009687.151	884395.226	2700
1009685.421	884396.799	3060
1009684.19	884397.987	2820
1009682.702	884399.26	3240
1009680.767	884400.958	3660
1009679.485	884402.74	2340
1009678.197	884404.299	2160
1009677.036	884406.09	2400
1009675.483	884408.735	2280
1009673.726	884410.545	2520
1009671.959	884412.771	2760
1009670.353	884414.492	3180
1009668.09	884416.47	2820
1009665.773	884418.663	2580
1009663.7	884420.57	2820
1009662.23	884421.946	2700

Survey Unit: CE-FSS-42-06

Gamma Walkover Survey

Instrument: Ludlum Model 12 (172705) with 44-10 (277925)

Easting	Northing	CPM
1009437.259	884679.524	2700
1009437.533	884677.76	2940
1009438.195	884677.093	2400
1009438.747	884676.508	2460
1009439.447	884675.681	2160
1009440.37	884674.415	2460
1009441.17	884673.485	2280
1009442.235	884672.69	2520
1009443.164	884672.087	2520
1009443.695	884672.065	2760
1009443.587	884671.853	2700
1009443.785	884671.172	2400
1009444.549	884670.178	2220
1009445.66	884668.943	2400
1009446.729	884666.847	2040
1009447.705	884665.119	2280
1009448.998	884663.89	2160
1009449.795	884662.795	2580
1009449.839	884661.956	2040
1009449.545	884661.412	2400
1009449.704	884661.228	1980
1009450.142	884661.189	2160
1009451.161	884661.034	1920
1009452.531	884659.521	1980
1009453.689	884657.058	2220
1009455.006	884654.185	2760
1009456.561	884651.475	2400
1009458.002	884649.102	2040
1009458.964	884647.477	2700
1009459.761	884645.97	2400
1009460.44	884644.642	2520
1009460.923	884643.827	2160
1009461.216	884642.948	2460
1009461.545	884642.259	3060
1009461.69	884642.12	2580
1009461.733	884642.316	2520
1009461.741	884642.407	2760
1009461.994	884642.367	2760
1009462.126	884642.182	2640
1009462.531	884641.832	2220

Easting	Northing	CPM
1009661.239	884422.718	3120
1009659.811	884423.799	3240
1009658.095	884425.594	2820
1009655.949	884427.742	3000
1009654.635	884429.365	2760
1009652.796	884431.29	2940
1009650.949	884432.731	2820
1009649.342	884434.541	2760
1009647.798	884436.264	2820
1009646.147	884438.029	3060
1009644.369	884440.713	3240
1009642.579	884442.554	3720
1009640.834	884444.346	3060
1009638.868	884446.777	3240
1009636.871	884448.34	3480
1009634.864	884449.892	3300
1009632.914	884451.929	3480
1009631.425	884453.058	3120
1009630.222	884454.335	3300
1009628.583	884456.719	3480
1009626.922	884458.304	3240
1009625.739	884459.597	3120
1009623.919	884461.094	3600
1009621.246	884462.758	2940
1009619.239	884464.74	2880
1009617.606	884466.353	3360
1009616.025	884467.796	3420
1009614.69	884469.676	2820
1009612.47	884471.361	3240
1009610.639	884472.513	2940
1009609.049	884474.494	3240
1009607.379	884476.218	3060
1009604.865	884477.094	3120
1009602.824	884478.629	3240
1009601.341	884480.669	3720
1009599.974	884483.492	3900
1009599.724	884485.882	3360
1009599.131	884487.97	3720
1009597.675	884489.572	3360
1009596.132	884491.036	3720

Survey Unit: CE-FSS-42-06

Gamma Walkover Survey

Instrument: Ludlum Model 12 (172705) with 44-10 (277925)

Easting	Northing	CPM
1009463.426	884640.917	2340
1009464.826	884639.917	2220
1009466.027	884638.936	2460
1009467.117	884637.351	2160
1009468.057	884635.186	3360
1009468.943	884632.727	3000
1009470.119	884630.598	2820
1009471.315	884629.145	3360
1009472.315	884627.665	2820
1009473.164	884626.612	2640
1009473.832	884626.329	2760
1009473.742	884626.383	3120
1009473.722	884626.665	1980
1009473.474	884626.391	2160
1009473.509	884625.611	2400
1009474.225	884624.573	2880
1009475.707	884622.259	2100
1009477.025	884620.191	2820
1009478.713	884617.906	2580
1009479.932	884615.747	2160
1009480.618	884613.903	2400
1009481.336	884612.459	2640
1009481.809	884611.222	2340
1009482.099	884610.469	2400
1009482.154	884610.206	2460
1009482.111	884609.913	2400
1009482.538	884609.353	2580
1009483.182	884608.95	1740
1009484.062	884608.455	2100
1009485.035	884607.729	1980
1009485.891	884606.972	2340
1009486.88	884605.882	1980
1009487.835	884604.748	1920
1009488.851	884603.206	2700
1009489.645	884601.479	2580
1009490.581	884599.726	2460
1009491.463	884597.734	2640
1009491.875	884596.65	2580
1009491.645	884596.505	2640
1009491.488	884596.203	3000

Easting	Northing	CPM
1009594.709	884492.518	3480
1009593.188	884493.581	3360
1009591.408	884494.953	3720
1009590.156	884497.253	3540
1009589.303	884498.619	3540
1009588.057	884499.188	3180
1009586.674	884500.613	3120
1009585.22	884502.723	3600
1009583.162	884504.224	3360
1009581.027	884505.127	3720
1009579.605	884506.233	3360
1009578.689	884507.489	3360
1009577.916	884509.736	2580
1009577.562	884512.379	2340
1009576.284	884513.706	2400
1009574.265	884515.096	2340
1009573.327	884516.425	2220
1009572.413	884517.305	2640
1009571.418	884517.783	3060
1009570.47	884518.294	2340
1009569.105	884518.83	3000
1009567.45	884520.862	3660
1009565.211	884523.425	3180
1009562.495	884524.94	2940
1009561.302	884525.903	3000
1009560.527	884526.98	3120
1009559.083	884528.216	3060
1009557.745	884529.882	3360
1009556.256	884531.406	3060
1009554.538	884532.422	3420
1009553.424	884534.267	3120
1009551.923	884536.957	3300
1009549.825	884539.179	3000
1009547.853	884541.093	2220
1009546.298	884542.173	2220
1009545.699	884542.788	2580
1009545.127	884543.547	2340
1009543.99	884544.494	2160
1009543.051	884546.047	2580
1009541.869	884548.36	2100

Survey Unit: CE-FSS-42-06

Gamma Walkover Survey

Instrument: Ludlum Model 12 (172705) with 44-10 (277925)

Easting	Northing	CPM
1009492.165	884595.443	2280
1009493.121	884594.6	2640
1009493.685	884593.94	2700
1009494.184	884593.442	2040
1009494.944	884592.749	2280
1009496.02	884591.899	1860
1009496.373	884591.139	2220
1009496.519	884590.613	2940
1009496.723	884589.985	2220
1009497.28	884588.74	1980
1009498.398	884586.397	1740
1009499.945	884583.529	2160
1009502.35	884580.153	2220
1009504.983	884577.091	1560
1009507.083	884574.171	2400
1009508.504	884571.616	2460
1009510.192	884568.417	3120
1009511.865	884565.509	2400
1009513.843	884562.88	2700
1009515.789	884560.947	2640
1009517.12	884559.157	1800
1009517.963	884557.425	1920
1009518.714	884556.201	1380
1009519.081	884555.498	2880
1009519.269	884555.395	2280
1009519.531	884555.275	2280
1009519.903	884555.134	2700
1009520.107	884555.177	2580
1009520.295	884555.567	1920
1009520.263	884555.816	2400
1009520.235	884555.709	2760
1009520.079	884555.343	2940
1009520.175	884554.731	2280
1009520.481	884553.721	1980
1009520.938	884552.52	2340
1009521.985	884551.187	2100
1009523.14	884550.457	2640
1009524.881	884549.053	2040
1009526.839	884547.325	2220
1009528.469	884546.22	1860

Easting	Northing	CPM
1009540.146	884550.328	2040
1009537.951	884552.127	2160
1009535.777	884554.462	2280
1009534.373	884557.168	2280
1009533.09	884559.737	2520
1009531.275	884562.077	2640
1009529.543	884564.601	2760
1009528.356	884567.299	2520
1009526.789	884569.689	3240
1009524.751	884571.877	2580
1009523.277	884574.516	2940
1009522.356	884577.44	3420
1009521.064	884579.914	3060
1009519.132	884581.769	3360
1009517.755	884584.01	2820
1009516.985	884587.166	3120
1009515.66	884589.632	3060
1009513.68	884591.552	3240
1009511.787	884593.759	3000
1009509.861	884595.654	2700
1009507.741	884597.484	2700
1009507.026	884600.052	2760
1009506.306	884603.011	3000
1009504.671	884605.558	2400
1009503.746	884608.187	2880
1009503.031	884611.203	3420
1009501.851	884614.026	2940
1009501.568	884616.836	3360
1009501.197	884618.813	2940
1009499.868	884620.651	2460
1009497.237	884622.697	3300
1009494.649	884624.404	2940
1009492.569	884626.596	3060
1009490.838	884628.686	3240
1009489.33	884631.001	2640
1009488.222	884632.888	2880
1009487.346	884635.417	2940
1009486.856	884638.362	2820
1009485.848	884639.616	3060
1009484.614	884640.605	2400

Survey Unit: CE-FSS-42-06

Gamma Walkover Survey

Instrument: Ludlum Model 12 (172705) with 44-10 (277925)

Easting	Northing	CPM
1009529.539	884545.342	2640
1009529.936	884544.702	3000
1009530.223	884544.056	2820
1009530.646	884543.627	2640
1009531.054	884543.593	2280
1009531.321	884543.74	2280
1009531.678	884543.495	2700
1009532.125	884542.863	2460
1009532.285	884542.023	3180
1009532.672	884541.086	2880
1009533.261	884540.123	2520
1009533.933	884539.225	2160
1009534.406	884537.87	2760
1009536.176	884535.94	2700
1009538.636	884533.496	2340
1009540.25	884531.116	2640
1009541.816	884528.527	2580
1009543.539	884525.696	3120
1009545.298	884522.543	2520
1009546.962	884519.981	3000
1009548.378	884518.681	2820
1009549.433	884517.909	2640
1009550.475	884516.462	2820
1009551.173	884514.713	2040
1009551.699	884513.899	2280
1009552.456	884513.433	2760
1009553.211	884512.314	2640
1009553.813	884511.165	2700
1009554.477	884510.686	2340
1009554.87	884510.357	1980
1009555.124	884510.274	2040
1009555.446	884510.379	2760
1009555.876	884510.184	2340
1009556.395	884509.344	2700
1009557.684	884508.15	3300
1009559.342	884506.236	2820
1009560.934	884504.115	3000
1009562.504	884501.679	2640
1009563.894	884499.517	3240
1009565.14	884497.768	2880

Easting	Northing	CPM
1009483.172	884642.301	2880
1009480.931	884643.959	3180
1009479.231	884646.188	2580
1009478.504	884648.649	3000
1009477.183	884650.063	3720
1009474.841	884651.987	3240
1009473.765	884654.132	3000
1009472.835	884655.664	2940
1009471.823	884656.133	2520
1009470.433	884657.157	2400
1009468.332	884658.699	2100
1009467.608	884660.685	2580
1009466.8	884662.7	3240
1009464.598	884664.619	2640
1009463.311	884667.228	2040
1009462.851	884669.238	2400
1009462.159	884670.609	2880
1009461.356	884671.603	2100
1009460.554	884672.063	2340
1009459.502	884672.901	2280
1009457.645	884673.978	2700
1009456.371	884675.176	3120
1009455.407	884676.249	2760
1009454.369	884677.802	2280
1009454.127	884680.526	2700
1009453.715	884682.965	2520
1009452.083	884684.362	2820
1009450.734	884684.81	2760
1009450.609	884684.528	2100
1009451.732	884685.057	2520
1009452.119	884685.783	2880
1009450.834	884685.363	2640
1009450.14	884685.207	3000
1009450.019	884685.329	2340
1009449.9	884685.359	2100
1009449.983	884685.365	2100
1009450.21	884685.071	2400
1009449.697	884684.526	2760
1009448.729	884684.105	2820
1009448.77	884683.217	2580

Survey Unit: CE-FSS-42-06

Gamma Walkover Survey

Instrument: Ludlum Model 12 (172705) with 44-10 (277925)

Easting	Northing	CPM
1009566.214	884496.227	3120
1009567.558	884494.864	3240
1009568.44	884493.939	3180
1009568.926	884493.627	2880
1009569.131	884494.001	3300
1009569.478	884494.715	2940
1009570.016	884494.317	2820
1009570.417	884493.123	2880
1009570.997	884492.127	2940
1009571.894	884491.888	3060
1009572.254	884492.127	3720
1009572.997	884491.933	3060
1009573.983	884491.04	3480
1009574.102	884489.987	2700
1009574.134	884488.959	2820
1009574.508	884487.84	3000
1009575.071	884486.367	2760
1009575.821	884485.052	3240
1009576.689	884484.149	2460
1009577.057	884483.757	2820
1009577.248	884483.388	2340
1009577.672	884483.321	2760
1009578.098	884483.534	2160
1009578.485	884483.102	2400
1009579.145	884482.595	2580
1009579.953	884482.02	2280
1009580.892	884480.723	2460
1009581.744	884479.58	2820
1009583.107	884479.102	2820
1009584.982	884478.449	3120
1009586.5	884477.84	2880
1009587.311	884476.919	2700
1009588.766	884474.964	2700
1009590.379	884472.645	2880
1009591.872	884470.532	3600
1009593.84	884468.054	3600
1009595.362	884466.17	3660
1009596.217	884465.459	3420
1009597.02	884464.92	3120
1009597.964	884463.872	2880

Easting	Northing	CPM
1009450.111	884680.004	2580
1009450.898	884677.772	2820
1009450.909	884678.264	2760
1009451.052	884678.855	2460
1009451.444	884679.689	2340
1009451.432	884680.909	2940
1009451.953	884681.814	2760
1009453.374	884682.419	2460
1009455.001	884682.579	2460
1009455.895	884682.617	2760
1009456.085	884682.688	3180
1009455.614	884682.838	2700
1009454.911	884683.463	3060
1009453.885	884684.509	2760
1009453.316	884684.807	2580
1009452.988	884684.758	2340
1009452.728	884684.829	2460
1009452.602	884684.825	2700
1009452.447	884684.683	2580
1009452.213	884684.482	2880
1009451.935	884684.221	2520
1009451.726	884684.139	2280
1009451.556	884684.106	2100
1009451.386	884683.967	1560
1009451.286	884683.859	2100
1009451.202	884683.913	2160
1009451.143	884684.049	2820
1009450.797	884683.959	2820
1009450.285	884683.953	2580
1009450.142	884684.205	2460
1009450.236	884684.194	2220
1009450.338	884683.982	2760
1009450.494	884683.859	2400
1009450.621	884683.867	2280
1009450.688	884683.854	2640
1009450.751	884683.783	2280
1009450.846	884683.719	1740
1009450.918	884683.601	1800
1009450.979	884683.525	2700
1009451.409	884685.429	2640

Survey Unit: CE-FSS-42-06

Gamma Walkover Survey

Instrument: Ludlum Model 12 (172705) with 44-10 (277925)

Easting	Northing	CPM
1009598.926	884462.52	2520
1009599.957	884460.628	2880
1009601.11	884458.725	3480
1009602.749	884456.678	2640
1009603.902	884455.586	3060
1009604.37	884455.635	3180
1009604.514	884455.8	3300
1009605.024	884455.376	2760
1009605.881	884454.628	3360
1009606.87	884453.981	3300
1009607.937	884453.491	3480
1009608.776	884453.14	3060
1009609.458	884452.653	3060
1009610.231	884452.132	3060
1009610.886	884451.504	2820
1009611.667	884450.777	2580
1009612.544	884449.57	2460
1009613.679	884448.397	2580
1009615.126	884447.372	2460
1009617.023	884445.756	3000
1009618.852	884443.524	2820
1009620.702	884440.798	3240
1009622.681	884437.816	3540
1009624.959	884435.454	2820
1009626.866	884433.408	2580
1009628.185	884431.671	2760
1009629.668	884430.318	2940
1009630.903	884429.138	3000
1009631.977	884428.227	2880
1009632.71	884427.652	3120
1009633.216	884426.789	2340
1009634.122	884425.786	3000
1009635.194	884425.239	2520
1009635.477	884425.011	3240
1009635.525	884424.921	2820
1009635.775	884424.284	3300
1009636.224	884423.342	3180
1009637.225	884422.599	3060
1009638.045	884422.029	2820
1009638.147	884421.566	2880

Easting	Northing	CPM
1009452.065	884688.802	2580
1009452.265	884689.256	2640
1009451.664	884688.739	2940
1009450.434	884688.083	2700
1009449.891	884687.706	2940
1009449.198	884687.425	3000
1009448.67	884687.044	2760
1009448.745	884686.696	2640
1009448.791	884686.468	2340
1009448.844	884686.317	2820
1009448.98	884686.071	2580
1009449.234	884685.931	2100
1009449.444	884686.02	3120
1009449.668	884686.623	3060
1009450.404	884688.057	2760
1009451.512	884689.458	2760
1009452.714	884690.216	2400
1009453.077	884690.67	2940
1009452.706	884691.154	2520
1009452.647	884691.266	2460
1009452.625	884690.712	3000
1009452.804	884689.985	2820
1009453.591	884689.375	3060
1009454.7	884688.837	2760
1009455.646	884688.182	2760
1009456.039	884687.488	2400
1009456.466	884686.701	3000
1009457.002	884685.766	2580
1009457.021	884685.229	2340
1009457.28	884685.019	2700
1009457.783	884684.845	2700
1009457.794	884684.398	2220
1009457.503	884684.109	2640
1009457.088	884684.471	3000
1009457.139	884684.155	2820
1009457.693	884683.334	2640
1009457.991	884683	2700
1009458.382	884682.896	3000
1009459.104	884682.505	3060
1009459.648	884681.546	3480

Survey Unit: CE-FSS-42-06

Gamma Walkover Survey

Instrument: Ludlum Model 12 (172705) with 44-10 (277925)

Easting	Northing	CPM
1009638.077	884421.326	2940
1009638.423	884420.919	2760
1009639.149	884420.45	2700
1009640.186	884419.883	3060
1009641.083	884419.339	2940
1009642.123	884418.533	3180
1009643.312	884417.259	2820
1009644.173	884416.385	2400
1009644.871	884416.022	2460
1009645.511	884415.592	2460
1009646.557	884414.372	2460
1009648.016	884412.702	2700
1009649.561	884411.275	2520
1009650.588	884410.085	2340
1009650.974	884409.241	2340
1009651.519	884408.585	2640
1009652.43	884407.567	2400
1009653.456	884406.14	2460
1009654.461	884404.804	2520
1009655.039	884403.842	2580
1009655.591	884402.937	2100
1009656.781	884401.633	2520
1009658.68	884400.014	2700
1009660.816	884398.093	2520
1009662.575	884396.408	2040
1009664.114	884394.48	2520
1009666.148	884392.331	2220
1009668.341	884390.222	1860
1009670.397	884388.137	1920
1009672.525	884386.039	2340
1009674.778	884383.781	2400
1009676.791	884381.446	2520
1009678.802	884379.047	2100
1009680.596	884376.117	1440
1009682.518	884372.915	1740
1009684.719	884369.913	1680
1009687.22	884367.627	2160
1009690.306	884365.315	1980
1009692.77	884363.576	2100
1009693.84	884363.779	2340

Easting	Northing	CPM
1009459.731	884680.745	2760
1009459.791	884680.284	2220
1009459.801	884680.217	2700
1009459.606	884680.403	3000
1009459.245	884680.811	2700
1009459.498	884681.349	3120
1009460.525	884681.351	2760
1009461.526	884680.866	3000
1009461.841	884680.346	2760
1009461.687	884680.161	2940
1009461.5	884680.091	2880
1009461.401	884680.315	3120
1009461.548	884680.665	2940
1009462.317	884680.825	3240
1009462.983	884681.232	2820
1009462.803	884681.573	2640
1009462.843	884681.484	2100
1009463.084	884681.028	2820
1009462.779	884680.621	2460
1009462.534	884680.617	2220
1009462.846	884680.741	2580
1009463.177	884680.615	2760
1009463.192	884680.46	2460
1009463.029	884680.408	2880
1009462.8	884680.347	3180
1009462.257	884680.318	2700
1009461.507	884680.243	2880
1009461.451	884680.187	2640
1009461.945	884680.239	2520
1009461.893	884679.971	2040
1009461.247	884679.413	2220
1009461.034	884679.165	1920
1009461.407	884679.143	2400
1009461.867	884678.814	2460
1009463.066	884678.139	2640
1009464.72	884677.088	2460
1009465.315	884676.108	2220
1009464.966	884676.012	2460
1009465.167	884675.759	2820
1009465.701	884675.572	2880

Survey Unit: CE-FSS-42-06

Gamma Walkover Survey

Instrument: Ludlum Model 12 (172705) with 44-10 (277925)

Easting	Northing	CPM
1009693.873	884363.739	2640
1009694.988	884362.36	2460
1009696.455	884360.1	1920
1009697.978	884357.417	2460
1009700.011	884355.029	2280
1009702.303	884352.628	2460
1009703.973	884350.522	1980
1009704.909	884348.991	2280
1009705.769	884348.074	2520
1009706.937	884347.224	3240
1009708.176	884345.657	2640
1009709.58	884344.271	2520
1009710.723	884343.862	2340
1009711.165	884343.01	2160
1009711.42	884341.633	2880
1009712.132	884340.933	3480
1009713.149	884340.487	3240
1009713.905	884340.049	2400
1009714.404	884339.639	2520
1009714.889	884339.048	2880
1009715.789	884338.425	2580
1009716.99	884337.789	2760
1009718.199	884336.896	2820
1009719.412	884336.126	2880
1009720.539	884335.257	2640
1009721.301	884334.389	2940
1009721.831	884333.697	2880
1009722.418	884333.291	2820
1009723.021	884333.23	3120
1009723.393	884333.045	2580
1009723.646	884332.891	2760
1009724.057	884332.732	3360
1009724.34	884332.194	3540
1009724.921	884331.612	3000
1009725.713	884331.06	3060
1009726.257	884330.267	2640
1009726.532	884329.561	3360
1009727.343	884328.967	3300
1009728.689	884328.24	2760
1009729.62	884327.067	3060

Easting	Northing	CPM
1009465.912	884675.268	2760
1009465.824	884673.964	2100
1009465.906	884672.902	3000
1009466.191	884672.488	2880
1009466.796	884671.821	2580
1009468.123	884670.454	2520
1009469.904	884668.579	3000
1009471.001	884666.727	2220
1009471.881	884664.446	2700
1009472.928	884662.427	2460
1009474.27	884660.804	2400
1009475.637	884659.457	2520
1009476.024	884659.181	2400
1009475.521	884659.831	2880
1009475.122	884660.088	2700
1009474.677	884659.647	2700
1009474.264	884659.251	2880
1009474.01	884658.834	2580
1009474.304	884657.778	2340
1009474.562	884656.474	2280
1009475.306	884655.15	2760
1009476.654	884653.545	2760
1009477.764	884651.93	3060
1009479.295	884649.831	3240
1009481.641	884647.603	2640
1009484.168	884645.199	2520
1009486.374	884642.618	2820
1009488.212	884639.38	3000
1009489.837	884636.083	3000
1009492.042	884633.231	3360
1009494.15	884631.322	3060
1009495.078	884629.992	3360
1009494.321	884628.395	2820
1009493.173	884626.958	2280
1009492.874	884626.432	3000
1009492.94	884626.177	3000
1009493.557	884625.837	2640
1009494.44	884625.126	2520
1009495.032	884624.255	2760
1009495.503	884623.523	2520

Survey Unit: CE-FSS-42-06

Gamma Walkover Survey

Instrument: Ludlum Model 12 (172705) with 44-10 (277925)

Easting	Northing	CPM
1009729.9	884325.344	2280
1009729.875	884324.149	3000
1009729.976	884323.599	2820
1009730.225	884323.177	3300
1009730.545	884322.602	3120
1009731.079	884321.314	2760
1009732.142	884319.83	2640
1009733.787	884319.157	2580
1009735.01	884318.987	2580
1009735.898	884318.854	3180
1009736.652	884318.41	2460
1009737.246	884317.915	3360
1009738.212	884317.222	3540
1009739.33	884316.186	3240
1009740.346	884314.891	2700
1009741.14	884313.752	3360
1009741.796	884313.064	2760
1009742.854	884312.166	2460
1009744.332	884310.691	2460
1009746.249	884309.33	2820
1009748.438	884307.829	2820
1009750.684	884305.88	3780
1009752.626	884304.084	3360
1009754.188	884302.171	3120
1009755.461	884300.288	2820
1009757.001	884298.848	2700
1009759.01	884297.446	2280
1009761.644	884295.38	2400
1009764.169	884293.005	2160
1009766.32	884290.904	2400
1009768.336	884288.712	2400
1009770.539	884286.429	2520
1009772.554	884284.292	2340
1009774.262	884282.013	2400
1009775.67	884280.513	3060
1009776.38	884278.972	2700
1009776.948	884276.371	2760
1009778.267	884274.642	2820
1009780.093	884272.686	2580
1009781.361	884270.966	2340

Easting	Northing	CPM
1009495.623	884623.034	2880
1009495.601	884622.718	2280
1009495.517	884622.309	3060
1009495.75	884622.487	3420
1009495.996	884623.111	3000
1009495.913	884623.343	3420
1009496.211	884623.388	3000
1009496.473	884623.557	2880
1009496.456	884623.844	2820
1009496.498	884624.185	3420
1009496.703	884624.42	3480
1009496.834	884624.554	3060
1009496.807	884624.617	3000
1009496.779	884624.65	2880
1009496.795	884624.673	2520
1009496.779	884624.693	2880
1009496.734	884624.737	3180
1009496.676	884624.776	3180
1009496.757	884624.792	3300
1009496.932	884624.724	3060
1009496.774	884624.616	3300
1009496.592	884624.512	3600
1009496.987	884624.307	3480
1009497.035	884624.159	3000
1009496.38	884624.205	3120
1009496.083	884624.339	3000
1009496.091	884624.488	3060
1009496.173	884624.537	3120
1009496.253	884624.611	2460
1009496.321	884624.645	2880
1009496.304	884624.592	2580
1009496.251	884624.544	3240
1009496.263	884624.54	3240
1009496.296	884624.56	2880
1009496.24	884624.484	2460
1009496.135	884624.376	3060
1009496.065	884624.348	2760
1009495.958	884624.25	2820
1009495.83	884624.068	3120
1009495.952	884623.912	3120

Survey Unit: CE-FSS-42-06

Gamma Walkover Survey

Instrument: Ludlum Model 12 (172705) with 44-10 (277925)

Easting	Northing	CPM
1009782.521	884269.736	2700
1009783.659	884268.766	2820
1009784.466	884268.17	2580
1009785.17	884267.968	2880
1009786.143	884268.074	2820
1009787.125	884268.224	2280
1009787.497	884268.288	2460
1009788.123	884268.358	2400
1009789.227	884267.801	2640
1009790.561	884267.295	2460
1009792.349	884265.777	2580
1009795.047	884262.476	2340
1009796.513	884260.056	2460
1009798.01	884258.173	2220
1009799.571	884256.474	2160
1009801.391	884254.507	2160
1009803.636	884252.35	2160
1009805.651	884250.405	2580
1009807.115	884248.835	2880
1009808.067	884247.581	2100
1009809.194	884245.782	2160
1009810.162	884244.353	2100
1009811.615	884243.221	2340
1009813.069	884242.401	2220
1009813.863	884241.485	2400
1009814.834	884240.558	2520
1009815.368	884239.993	3000
1009815.311	884239.409	2640
1009815.133	884238.636	2400
1009815.579	884238.474	2880
1009816.159	884238.868	2760
1009816.95	884238.306	3000
1009817.321	884237.648	2520
1009817.439	884237.015	2760
1009817.651	884236.552	2280
1009817.836	884236.185	2220
1009817.972	884236.421	2880
1009817.669	884237.607	2760
1009816.77	884238.945	2820
1009816.226	884240.452	2640

Easting	Northing	CPM
1009495.831	884623.83	3120
1009495.758	884623.464	2760
1009495.928	884623.329	2880
1009495.726	884623.644	3120
1009495.278	884623.75	3060
1009495.047	884623.608	3240
1009495.962	884623.572	3540
1009496.857	884623.762	3360
1009496.985	884623.603	2700
1009496.798	884623.313	2820
1009496.788	884623.069	3540
1009496.902	884622.737	3720
1009496.986	884622.462	2940
1009496.939	884622.434	2820
1009496.77	884622.511	2580
1009496.691	884622.352	2760
1009496.818	884622.14	3120
1009497.039	884622.062	3360
1009497.219	884621.944	2580
1009497.307	884621.813	3120
1009497.34	884621.749	2940
1009497.387	884621.695	3060
1009497.477	884621.645	2400
1009497.387	884621.906	2760
1009497.606	884622.645	3000
1009498.095	884622.935	2520
1009498.685	884622.589	2880
1009499.393	884621.672	3180
1009500.089	884620.389	2940
1009500.777	884618.797	2940
1009500.977	884617.507	2700
1009501.051	884617.007	2820
1009500.882	884616.555	3300
1009501.155	884615.754	3240
1009502.004	884614.729	2700
1009503.37	884613.257	3000
1009505.228	884611.558	2580
1009507.234	884610.003	2340
1009508.887	884607.927	2700
1009509.957	884605.86	2280

Survey Unit: CE-FSS-42-06

Gamma Walkover Survey

Instrument: Ludlum Model 12 (172705) with 44-10 (277925)

Easting	Northing	CPM
1009815.671	884242.305	2760
1009814.244	884244.096	2820
1009812.493	884245.788	2520
1009810.968	884247.446	2880
1009809.427	884248.493	2340
1009808.655	884249.004	1980
1009808.131	884249.753	2580
1009807.569	884250.264	2280
1009807.004	884251.173	2460
1009806.835	884251.688	2460
1009806.513	884251.787	2820
1009805.872	884252.119	3060
1009805.674	884252.542	2880
1009805.618	884253.332	2700
1009804.927	884254.473	2640
1009803.633	884255.687	2940
1009801.968	884256.902	2820
1009800.347	884258.319	3120
1009798.321	884260.362	3000
1009795.737	884262.858	2880
1009793.299	884265.218	3360
1009791.41	884267.589	2760
1009789.294	884270.577	3060
1009786.42	884274.059	3060
1009783.426	884277.517	3120
1009780.844	884280.919	3120
1009778.39	884284.475	2940
1009776.476	884287.166	2760
1009775.549	884288.694	2340
1009774.852	884289.152	2760
1009774.113	884289.423	2820
1009773.113	884289.958	3060
1009772.028	884290.412	2820
1009771.318	884290.736	2700
1009770.653	884291.086	3000
1009769.807	884291.497	2940
1009768.936	884292.296	2940
1009767.795	884293.61	2940
1009766.035	884295.409	2460
1009763.88	884297.404	2460

Easting	Northing	CPM
1009510.768	884604.18	3000
1009511.163	884602.816	2640
1009511.371	884602.011	2760
1009511.147	884601.451	3480
1009510.512	884602.361	3240
1009509.7	884603.895	2940
1009508.646	884605.184	2880
1009508.258	884605.587	3240
1009508.442	884605.373	3000
1009509.109	884604.159	3360
1009510.562	884602.169	3240
1009512.255	884599.662	3000
1009513.849	884596.855	3180
1009515.148	884594.741	3120
1009515.909	884593.475	2760
1009516.135	884592.796	2340
1009515.647	884592.741	2880
1009515.451	884592.994	2940
1009515.491	884593.282	2280
1009516.214	884593.546	2820
1009518.186	884592.968	3240
1009520.528	884591.525	3000
1009522.69	884589.416	3420
1009524.219	884587.22	3180
1009525.477	884585.456	2700
1009526.391	884584.281	3480
1009526.917	884583.432	2940
1009527.066	884582.519	3060
1009526.922	884582.006	3180
1009526.693	884581.705	3180
1009526.661	884581.443	2700
1009527.081	884581.266	2640
1009527.284	884580.897	3060
1009527.035	884580.575	2940
1009526.896	884580.577	3060
1009527.349	884580.58	2640
1009528.352	884580.306	2880
1009529.404	884579.199	2700
1009531.011	884577.93	3240
1009532.662	884576.794	2580

Survey Unit: CE-FSS-42-06

Gamma Walkover Survey

Instrument: Ludlum Model 12 (172705) with 44-10 (277925)

Easting	Northing	CPM
1009761.886	884300.106	2580
1009760.24	884303.326	2280
1009757.886	884305.728	3180
1009755.744	884307.308	3000
1009754.116	884308.756	3300
1009752.647	884309.659	3840
1009751.787	884310.537	3360
1009751.144	884312.34	2880
1009749.349	884314.484	3060
1009746.994	884316.818	2820
1009745.6	884319.593	2940
1009744.271	884322.236	2820
1009741.791	884324.128	2580
1009739.572	884325.825	3360
1009737.91	884327.458	3060
1009736.651	884328.192	3540
1009736.135	884328.317	3300
1009735.864	884328.36	3420
1009735.554	884328.418	3600
1009735.226	884328.521	3600
1009735.311	884328.813	3960
1009735.883	884328.817	2880
1009735.928	884328.684	2880
1009735.17	884328.956	2520
1009733.923	884329.633	2640
1009732.302	884330.604	2880
1009730.66	884331.626	3120
1009729.338	884332.617	3360
1009727.695	884334.054	3360
1009726.061	884335.212	2400
1009724.696	884336.335	2700
1009723.893	884337.365	2640
1009723.273	884337.891	2880
1009722.518	884338.662	3360
1009721.976	884339.937	2880
1009721.289	884341.08	3120
1009720.207	884342.137	2700
1009719.474	884343.363	2400
1009718.2	884345.169	2280
1009715.848	884347.276	2460

Easting	Northing	CPM
1009533.627	884575.1	2340
1009534.383	884573.249	2220
1009535.271	884571.274	2160
1009536.714	884568.804	2820
1009537.25	884566.989	3000
1009537.402	884565.753	3000
1009537.521	884565.252	3480
1009537.259	884565.21	3420
1009537.656	884565.397	2760
1009538.434	884565.664	2460
1009539.045	884565.211	2700
1009539.687	884563.849	2760
1009540.665	884562.501	2760
1009542.007	884561.253	2880
1009543.195	884560.028	2820
1009543.884	884559.14	2400
1009543.985	884558.806	2760
1009543.884	884558.81	2340
1009543.923	884558.469	2820
1009544.153	884558.2	2880
1009544.31	884558.044	2400
1009545.017	884557.389	2820
1009546.319	884556.123	2940
1009547.393	884555.072	2940
1009548.651	884553.58	2520
1009549.78	884551.897	2280
1009550.525	884550.486	2760
1009550.815	884549.259	2940
1009550.737	884548.679	2880
1009550.505	884548.401	2880
1009551.299	884547.795	2940
1009552.338	884546.808	3000
1009552.641	884545.878	2580
1009552.761	884545.058	2400
1009552.94	884544.669	2820
1009553.123	884544.526	3420
1009553.722	884543.459	3420
1009555.154	884541.785	2880
1009556.499	884540.136	3060
1009556.514	884538.973	2760

Survey Unit: CE-FSS-42-06

Gamma Walkover Survey

Instrument: Ludlum Model 12 (172705) with 44-10 (277925)

Easting	Northing	CPM
1009713.171	884349.569	3060
1009710.541	884351.739	2940
1009708.697	884353.664	2520
1009706.496	884356.432	2340
1009704.546	884359.984	2520
1009702.547	884363.226	3540
1009699.465	884366.212	3240
1009697.246	884368.11	2400
1009696.492	884368.869	2580
1009696.523	884368.73	2400
1009696.229	884368.44	2820
1009695.807	884367.943	2760
1009695.134	884368.16	2580
1009693.814	884369.165	2640
1009692.301	884370.482	2640
1009690.703	884372.06	2580
1009689.186	884373.971	2880
1009687.712	884376.106	2760
1009685.948	884378.534	2520
1009683.976	884380.907	2820
1009681.983	884383.493	2520
1009680.054	884386.03	2640
1009678.527	884387.676	2220
1009677.003	884389.078	2700
1009675.529	884390.254	2700
1009673.887	884391.691	2580
1009672.293	884393.326	2700
1009670.757	884394.691	2820
1009669.07	884396.601	2880
1009667.355	884398.784	2220
1009665.47	884401.043	3000
1009663.708	884403.26	3000
1009662.082	884405.221	2640
1009660.358	884407.326	2820
1009658.465	884409.901	2400
1009656.608	884412.236	2280
1009654.752	884414.078	2460
1009653.282	884415.476	1920
1009652.369	884415.931	2880
1009652.418	884415.513	2760

Easting	Northing	CPM
1009555.981	884539.066	2940
1009555.622	884539.231	2520
1009556.4	884538.551	2580
1009557.888	884537.367	2940
1009558.931	884536.328	3120
1009559.741	884535.2	3420
1009559.876	884534.209	2700
1009559.769	884533.716	3540
1009560.09	884533.363	3360
1009560.34	884532.891	3600
1009560.269	884533.102	3420
1009560.508	884533.528	3360
1009561.411	884533.451	3360
1009562.695	884532.915	3360
1009563.448	884532.078	3600
1009563.539	884531.835	3420
1009563.727	884532.095	3480
1009563.935	884532.161	3300
1009563.782	884532.139	2880
1009563.6	884532.073	3060
1009563.183	884532.452	2820
1009562.548	884533.082	3180
1009562.272	884533.259	3000
1009562.331	884533.117	2940
1009562.398	884532.927	3540
1009562.445	884532.769	3720
1009562.597	884532.626	3360
1009563.325	884532.054	2760
1009564.272	884531.215	3000
1009564.485	884530.908	2760
1009564.369	884531.042	2820
1009564.376	884531.126	2520
1009564.384	884531.089	3120
1009564.292	884531.084	3540
1009564.098	884531.132	3300
1009563.918	884531.226	3720
1009563.786	884531.274	3420
1009563.634	884531.251	3060
1009563.537	884531.336	2760
1009563.483	884531.53	2640

Survey Unit: CE-FSS-42-06

Gamma Walkover Survey

Instrument: Ludlum Model 12 (172705) with 44-10 (277925)

Easting	Northing	CPM
1009653.104	884414.917	2760
1009653.108	884414.885	2760
1009652.342	884415.306	3120
1009651.523	884415.569	3000
1009650.75	884415.87	2340
1009650.092	884416.394	2640
1009649.516	884416.807	2940
1009648.552	884417.231	3120
1009647.467	884417.662	2940
1009646.967	884418.261	2820
1009646.185	884419.308	3240
1009644.097	884421.264	3240
1009642.219	884422.708	3000
1009640.31	884424.091	3180
1009638.615	884425.658	2940
1009637.124	884427.17	3120
1009635.395	884428.64	3900
1009634.355	884429.27	3900
1009633.655	884430.06	3780
1009633.35	884430.789	4020
1009633.093	884431.36	3720
1009633.083	884431.723	3900
1009633.372	884432.34	3720
1009633.647	884433.272	4020
1009633.563	884433.891	3240
1009633.333	884434.167	4080
1009633.258	884434.502	3420
1009633.262	884435.003	3360
1009633.124	884435.382	3120
1009633.008	884435.574	3240
1009633.006	884435.637	3360
1009632.95	884435.679	3480
1009632.87	884435.739	3360
1009632.736	884435.702	3360
1009632.422	884435.589	3540
1009632.04	884435.565	3180
1009631.996	884435.566	3180
1009632.461	884435.586	3060
1009632.965	884435.671	3120
1009633.078	884435.614	3060

Easting	Northing	CPM
1009563.434	884531.526	3060
1009563.351	884531.466	2880
1009563.263	884531.249	3120
1009563.207	884530.892	3300
1009563.213	884531.082	3180
1009562.888	884531.599	3060
1009562.187	884531.876	3120
1009561.665	884531.901	3360
1009561.864	884531.955	2520
1009562.534	884531.621	2580
1009563.365	884530.773	3060
1009564.122	884530.19	3240
1009564.629	884530.07	3180
1009564.698	884530.256	3300
1009564.732	884529.737	3480
1009564.718	884529.16	2580
1009564.682	884528.959	3060
1009564.694	884528.454	3060
1009564.736	884528.154	3480
1009564.722	884528.114	3300
1009564.752	884527.445	3600
1009565.105	884526.609	3480
1009565.826	884525.86	3360
1009566.948	884524.594	3240
1009567.442	884522.485	2940
1009567.003	884520.806	2880
1009566.81	884521.071	3540
1009566.899	884521.489	3480
1009567.752	884521.465	3180
1009568.87	884521.093	2760
1009570.126	884519.984	2820
1009571.47	884518.19	3120
1009572.862	884516.717	3240
1009574.632	884515.529	2760
1009576.475	884514.224	2520
1009577.718	884512.519	2940
1009578.751	884510.563	3180
1009580.321	884509.342	3060
1009582.192	884508.858	3060
1009583.537	884508.475	3060

Survey Unit: CE-FSS-42-06

Gamma Walkover Survey

Instrument: Ludlum Model 12 (172705) with 44-10 (277925)

Easting	Northing	CPM
1009632.82	884435.569	2820
1009632.808	884435.629	3360
1009633.344	884435.439	3840
1009633.599	884434.855	3660
1009633.424	884434.209	3000
1009633.519	884433.962	2700
1009633.643	884433.94	2820
1009633.867	884433.613	3420
1009634.549	884433.247	3120
1009635.047	884433.29	2940
1009635.245	884433.543	3180
1009635.376	884433.699	2820
1009635.232	884433.738	3060
1009634.911	884433.661	2760
1009634.497	884433.483	3060
1009634.309	884433.669	2640
1009634.117	884434.276	3300
1009633.924	884434.463	3240
1009633.53	884434.344	3420
1009632.879	884434.131	3060
1009632.738	884434.259	3780
1009633.267	884435.364	3120
1009632.848	884436.259	3360
1009631.979	884437.303	3060
1009631.841	884438.08	2880
1009631.903	884438.406	3360
1009631.506	884438.425	3660
1009631.465	884438.722	3600
1009631.307	884439.193	3660
1009630.435	884439.045	3780
1009630.036	884438.816	3600
1009630.08	884439.022	3600
1009629.954	884439.714	3300
1009629.298	884440.72	3360
1009628.409	884441.27	2940
1009628.058	884441.997	3060
1009627.888	884442.602	2760
1009627.198	884443.084	2640
1009626.109	884443.136	2820
1009625.685	884444.085	2880

Easting	Northing	CPM
1009584.2	884508.078	3480
1009584.183	884507.865	3600
1009583.744	884507.638	3300
1009583.237	884507.623	3180
1009582.894	884507.793	3180
1009582.595	884507.783	4200
1009582.091	884507.639	3660
1009581.751	884507.656	3540
1009581.466	884507.735	2880
1009581.337	884507.695	3660
1009581.278	884507.777	3540
1009581.264	884508.054	2580
1009581.197	884508.176	2460
1009581.167	884508.148	2940
1009581.138	884507.892	3180
1009580.964	884507.517	3660
1009580.838	884507.461	3060
1009580.75	884507.475	3240
1009580.785	884507.451	3600
1009580.928	884507.585	3780
1009580.959	884507.772	3000
1009581.005	884507.859	3540
1009581.11	884507.951	3240
1009581.155	884508.148	3600
1009581.071	884508.304	2640
1009580.916	884508.421	3540
1009580.864	884508.515	2760
1009580.934	884508.605	3360
1009581.152	884508.736	3060
1009581.144	884508.883	2820
1009580.894	884508.982	3240
1009580.985	884508.985	3060
1009581.313	884508.95	3180
1009581.93	884509.008	2760
1009582.328	884508.955	3180
1009583.314	884508.682	3360
1009584.45	884507.924	3540
1009585.248	884506.758	3960
1009585.562	884506.341	3300
1009585.64	884506.384	3360

Survey Unit: CE-FSS-42-06

Gamma Walkover Survey

Instrument: Ludlum Model 12 (172705) with 44-10 (277925)

Easting	Northing	CPM
1009625.274	884444.736	3180
1009624.785	884443.907	3000
1009624.426	884443.794	2760
1009624.275	884444.322	3000
1009623.85	884445.457	3240
1009623.562	884446.71	3780
1009623.534	884446.92	3300
1009623.924	884446.542	3660
1009624.71	884446.055	3660
1009624.865	884445.766	3420
1009624.52	884445.425	2940
1009623.952	884445.302	3900
1009623.383	884445.99	3300
1009622.883	884447.128	3540
1009622.083	884447.798	3000
1009621.528	884448.473	2400
1009621.153	884449.662	3420
1009620.671	884450.26	2880
1009620.033	884450.533	3540
1009619.435	884450.839	3300
1009618.867	884451.043	3480
1009618.514	884451.019	3780
1009618.111	884450.888	3540
1009617.86	884451.251	3780
1009617.701	884453.041	3360
1009617.037	884454.036	3000
1009615.728	884455.12	3420
1009614.917	884455.885	3900
1009614.698	884456.392	2760
1009615.385	884456.573	3360
1009616.285	884456.67	3780
1009616.703	884456.537	3120
1009616.423	884456.374	2760
1009615.478	884456.91	3300
1009614.68	884457.565	3120
1009613.924	884457.413	3060
1009612.717	884457.786	3600
1009611.659	884458.538	3420
1009610.95	884458.321	3420
1009610.691	884457.648	3120

Easting	Northing	CPM
1009585.398	884506.433	3780
1009585.188	884506.462	4560
1009585.092	884506.478	3900
1009585.033	884506.485	3360
1009585.23	884506.291	2940
1009585.575	884505.958	3300
1009585.621	884505.885	3360
1009585.533	884506.013	2880
1009585.48	884506.205	3360
1009585.465	884506.377	3180
1009585.443	884506.466	3840
1009585.406	884506.53	3960
1009585.358	884506.61	3420
1009585.295	884506.556	3600
1009584.925	884506.486	3420
1009584.662	884506.315	3360
1009584.998	884506.072	3660
1009585.147	884506.181	3420
1009584.888	884506.184	3840
1009584.543	884505.967	3600
1009584.401	884505.789	3300
1009584.439	884505.905	3360
1009584.513	884506.475	3780
1009584.812	884506.963	3420
1009585.178	884507.107	3360
1009585.379	884507.013	3660
1009584.954	884507.401	3900
1009584.526	884507.733	3780
1009584.731	884507.355	3720
1009584.396	884507.226	4140
1009583.098	884507.364	3300
1009582.654	884507.149	3240
1009583.381	884506.454	3780
1009584.122	884505.841	3900
1009584.945	884505.142	2880
1009585.762	884503.978	3480
1009586.224	884503.057	3180
1009586.374	884502.288	3180
1009586.506	884501.772	3540
1009586.726	884501.462	4320

Survey Unit: CE-FSS-42-06

Gamma Walkover Survey

Instrument: Ludlum Model 12 (172705) with 44-10 (277925)

Easting	Northing	CPM
1009610.676	884458.08	3300
1009609.89	884459.385	3840
1009608.843	884460.614	3180
1009607.858	884461.852	3120
1009607.171	884462.568	3540
1009606.718	884462.802	3780
1009606.289	884462.982	3780
1009606.059	884463.132	3360
1009605.843	884463.151	3840
1009605.396	884463.313	3720
1009604.635	884463.628	3540
1009604.031	884464.06	3420
1009603.436	884464.712	3600
1009602.676	884465.628	2940
1009601.686	884466.489	3360
1009600.655	884467.232	2760
1009599.396	884468.356	2940
1009598.019	884469.006	2940
1009596.623	884469.213	4020
1009595.525	884470.303	4080
1009594.567	884472.035	3540
1009592.709	884473.976	3300
1009591.245	884475.132	3240
1009589.64	884476.759	3120
1009588.116	884478.521	2880
1009586.81	884480.346	3120
1009585.555	884482.178	3240
1009584.148	884483.958	3420
1009582.782	884486.358	3180
1009581.493	884489.052	3060
1009580.071	884491.482	2940
1009578.777	884493.608	3660
1009577.773	884495.264	2940
1009576.481	884496.543	3060
1009574.315	884497.916	3480
1009572.24	884499.278	4020
1009571.211	884500.209	3600
1009571.407	884499.973	2880
1009571.608	884499.627	3360
1009571.395	884500.137	3000

Easting	Northing	CPM
1009586.764	884501.786	3720
1009586.831	884502.252	3540
1009586.926	884502.296	3840
1009587.402	884502.375	3480
1009588.241	884502.598	3180
1009588.576	884502.447	3060
1009589.706	884502.338	3420
1009592.206	884502.545	3420
1009592.618	884502.623	2940
1009591.546	884502.801	3180
1009589.416	884503.166	3300
1009589.512	884503.274	3480
1009590.532	884503.063	3660
1009591.236	884502.832	3360
1009592.412	884502.095	3480
1009593.504	884500.939	3600
1009594.352	884499.454	3180
1009595.44	884497.915	3480
1009596.587	884496.551	3540
1009597.415	884495.055	3600
1009598.267	884493.133	3300
1009599.502	884491.162	4020
1009600.909	884489.507	2880
1009602.33	884487.96	3480
1009603.577	884486.193	3180
1009604.747	884484.424	3420
1009605.443	884482.872	3420
1009605.809	884481.24	3600
1009606.032	884480.556	4140
1009605.803	884480.815	3840
1009605.688	884480.629	3060
1009606.408	884479.557	3420
1009607.092	884478.837	2940
1009607.103	884478.718	3000
1009606.536	884479.332	3120
1009605.827	884480.031	3180
1009605.551	884480.47	3120
1009606.053	884480.433	2640
1009607.482	884480.337	3480
1009609.078	884480.048	3360

Survey Unit: CE-FSS-42-06

Gamma Walkover Survey

Instrument: Ludlum Model 12 (172705) with 44-10 (277925)

Easting	Northing	CPM
1009570.766	884501.521	2460
1009569.334	884502.53	2820
1009568.697	884502.477	3120
1009568.707	884501.931	2880
1009568.884	884501.48	2700
1009568.993	884501.53	3360
1009568.99	884501.696	2940
1009568.575	884501.759	3720
1009567.99	884502.03	3360
1009567.162	884502.698	3060
1009566.4	884503.179	3480
1009565.715	884503.637	3060
1009564.609	884504.409	3180
1009563.534	884505.155	3120
1009562.422	884505.951	3060
1009560.979	884507.17	2640
1009559.977	884508.614	2340
1009559.102	884510.245	2520
1009557.737	884512.237	2580
1009555.781	884514.713	2520
1009553.386	884517.507	3480
1009551.339	884520.289	2940
1009549.953	884522.688	3060
1009549.149	884524.672	3300
1009548.01	884526.329	3180
1009546.256	884527.472	2760
1009544.799	884528.635	3120
1009543.941	884529.614	2640
1009543.393	884530.357	3240
1009542.502	884531.209	2880
1009541.023	884532.709	3120
1009539.519	884534.705	2640
1009538.191	884536.501	3120
1009536.717	884538.119	2820
1009535.124	884539.049	2820
1009534.132	884539.28	2040
1009533.623	884539.664	2220
1009533.332	884540.671	2220
1009533.608	884541.012	2280
1009533.541	884540.729	2160

Easting	Northing	CPM
1009610.417	884479.021	3060
1009612	884477.422	3240
1009613.231	884475.949	3540
1009614.156	884474.471	3240
1009614.922	884473.092	3180
1009615.401	884472.113	3420
1009616.172	884471.246	3000
1009616.855	884470.7	3120
1009617.184	884470.44	3240
1009617.484	884470.086	3360
1009617.907	884469.462	3780
1009618.132	884469.377	3660
1009618.334	884469.228	2940
1009618.551	884469.217	3600
1009618.636	884469.362	2940
1009618.654	884469.292	2940
1009618.819	884469.02	3420
1009619.434	884468.271	3900
1009620.285	884467.033	3480
1009620.864	884466.264	3120
1009621.504	884465.784	3060
1009622.045	884465.38	3180
1009622.526	884464.891	3600
1009623.356	884464.231	3300
1009624.271	884463.461	3000
1009624.843	884462.97	3420
1009625.398	884462.539	3780
1009626.913	884461.703	3240
1009628.342	884460.522	3420
1009629.949	884459.114	3660
1009632.122	884457.205	2940
1009633.863	884455.551	3300
1009636.019	884453.438	2700
1009638.015	884451.34	3060
1009639.689	884449.702	3420
1009641.36	884448.282	2520
1009643.162	884446.313	2700
1009644.282	884444.534	3600
1009644.908	884443.49	3780
1009645.417	884442.72	3600

Survey Unit: CE-FSS-42-06

Gamma Walkover Survey

Instrument: Ludlum Model 12 (172705) with 44-10 (277925)

Easting	Northing	CPM
1009533.155	884540.962	2340
1009532.776	884541.907	1800
1009532.181	884543.156	2220
1009531.619	884544.502	2520
1009530.828	884545.801	2280
1009529.861	884546.847	2280
1009529.05	884547.807	2340
1009528.148	884548.774	2400
1009527.051	884549.78	2760
1009525.801	884551.172	2160
1009524.397	884553.014	2760
1009522.855	884555.752	2400
1009521.652	884558.041	2400
1009520.082	884561.377	2400
1009518.726	884564.44	2580
1009517.002	884567.041	2160
1009515.108	884569.386	2700
1009513.702	884571.725	3180
1009512.22	884574.444	2340
1009510.669	884577.637	2700
1009509.045	884581.009	2580
1009507.445	884583.816	2880
1009505.432	884586.744	2520
1009503.398	884589.564	2460
1009501.852	884592.138	2280
1009500.733	884593.552	2700
1009500.124	884594.087	3000
1009499.949	884594.458	2340
1009499.18	884595.22	2400
1009497.872	884596.056	2640
1009496.813	884597.121	2220
1009495.724	884598.832	1980
1009495.389	884599.025	2280
1009495.334	884598.802	2940
1009495.103	884599.35	2460
1009494.14	884601.313	2580
1009492.422	884604.625	2700
1009490.4	884607.649	2220
1009488.573	884610.226	2220
1009487.022	884613.142	2760

Easting	Northing	CPM
1009645.742	884442.387	3900
1009645.874	884442.165	3840
1009645.768	884442.166	4080
1009645.569	884442.116	3780
1009645.365	884442.052	3420
1009645.051	884442.061	2640
1009644.992	884442.118	2820
1009645.033	884441.681	2880
1009645.159	884440.796	2580
1009645.406	884440.187	3000
1009646.58	884439.457	3000
1009647.98	884438.203	3360
1009649.385	884437.016	3360
1009651.182	884435.415	3180
1009652.69	884434.213	3120
1009654.014	884433.06	2640
1009655.027	884431.857	2880
1009656.064	884430.343	2760
1009656.986	884428.984	2280
1009657.564	884428.35	2340
1009657.538	884427.947	2040
1009657.52	884427.618	2340
1009657.379	884427.382	2820
1009657.318	884427.553	3120
1009657.406	884427.712	2940
1009658.022	884427.338	3060
1009659.392	884426.108	2760
1009661.186	884424.763	3060
1009663.218	884423.265	2640
1009664.76	884421.912	2700
1009666.116	884420.584	2760
1009667.231	884419.294	2820
1009667.859	884418.092	2700
1009667.933	884417.169	2460
1009667.676	884416.8	2400
1009667.209	884416.579	2700
1009666.665	884416.547	3060
1009665.927	884416.677	3300
1009665.585	884416.814	2640
1009665.747	884416.588	2760

Survey Unit: CE-FSS-42-06

Gamma Walkover Survey

Instrument: Ludlum Model 12 (172705) with 44-10 (277925)

Easting	Northing	CPM
1009485.092	884616.061	2400
1009482.545	884618.393	3720
1009481.076	884620.129	3060
1009479.699	884622.316	2280
1009478.348	884624.543	2520
1009477.054	884626.93	2460
1009476.085	884628.456	2580
1009475.447	884629.155	2400
1009475.373	884629.698	2940
1009475.536	884630.322	3000
1009475.043	884630.927	3000
1009473.874	884631.19	2460
1009473.143	884631.424	2340
1009472.692	884632.095	2220
1009471.736	884633.817	2700
1009470.174	884636.087	2880
1009468.396	884638.497	3540
1009467.478	884639.651	2880
1009466.525	884640.632	2460
1009466.005	884641.426	3180
1009465.279	884642.319	3000
1009464.959	884642.438	2880
1009465.313	884642.069	2940
1009465.239	884642.922	2940
1009464.582	884644.277	2820
1009463.63	884645.597	2700
1009462.776	884647.106	2460
1009461.773	884649.199	3120
1009460.319	884651.614	3180
1009459.139	884654.359	2940
1009458.252	884657.651	2460
1009457.007	884660.433	3300
1009455.64	884662.711	2880
1009454.78	884664.348	3240
1009453.997	884665.904	3180
1009452.84	884667.827	2940
1009451.816	884669.259	2820
1009451.046	884670.585	3060
1009450.06	884671.726	3060
1009448.029	884672.782	2940

Easting	Northing	CPM
1009666.806	884416.053	2940
1009668.361	884415.332	2340
1009670.004	884414.274	2520
1009671.833	884412.732	2220
1009673.926	884411.186	2640
1009676.147	884409.51	2940
1009678.095	884407.578	2520
1009679.505	884406.013	2580
1009680.108	884404.872	2460
1009679.988	884404.524	2640
1009679.43	884404.434	2700
1009678.923	884404.5	2400
1009678.518	884404.532	2520
1009678.451	884404.572	2520
1009678.509	884404.548	2760
1009678.683	884404.46	3600
1009678.775	884404.378	2940
1009679.269	884403.804	3060
1009680.035	884402.828	2940
1009681.475	884401.81	3480
1009684.23	884399.986	2940
1009687.076	884397.742	3180
1009689.467	884395.36	2640
1009691.711	884392.757	2760
1009694.265	884389.87	2820
1009696.822	884387.543	3300
1009699.252	884385.577	3000
1009702.108	884383.586	3480
1009705.108	884381.596	3240
1009707.685	884379.712	2460
1009709.962	884377.573	3180
1009711.212	884376.103	2400
1009712.343	884374.665	2580
1009713.272	884373.521	2820
1009714.09	884372.506	3420
1009714.615	884371.519	3000
1009715.041	884370.672	2640
1009715.392	884370.03	2820
1009715.514	884369.557	2760
1009715.759	884369.12	3060

Survey Unit: CE-FSS-42-06

Gamma Walkover Survey

Instrument: Ludlum Model 12 (172705) with 44-10 (277925)

Easting	Northing	CPM
1009445.793	884674.122	2880
1009444.858	884675.229	2820
1009444.346	884676.004	3060
1009443.264	884676.823	3540
1009442.614	884677.337	2580
1009442.528	884677.771	2700
1009441.902	884677.986	2520
1009441.42	884678.345	2460
1009440.663	884679.132	2460
1009439.597	884679.873	2220
1009438.253	884680.798	2400
1009437.372	884681.753	2520
1009436.821	884682.448	3000
1009436.576	884683.064	3360
1009437.015	884683.782	3060
1009438.032	884684.411	2400
1009439.881	884684.366	2280
1009441.513	884683.785	2280
1009442.169	884683.551	2760
1009442.288	884683.166	2520
1009442.152	884682.949	2220
1009441.804	884683.123	2700
1009441.438	884682.908	1920
1009441.225	884682.755	2580
1009441.206	884682.681	1920
1009441.234	884682.549	2220
1009441.28	884682.496	2160
1009441.364	884682.742	2820
1009441.371	884683.139	2820
1009441.257	884683.151	3000
1009440.925	884683.264	2880
1009440.333	884683.531	2580
1009440.092	884683.274	2880
1009440.436	884682.463	2940
1009441.087	884681.709	2280
1009441.63	884681.389	2700
1009441.543	884681.771	3000
1009441.304	884682.133	2820
1009441.339	884682.515	2880
1009441.842	884682.587	3000

Easting	Northing	CPM
1009716.257	884368.733	2880
1009716.797	884368.504	2700
1009717.064	884368.437	2640
1009716.664	884368.483	2340
1009716.399	884368.971	3240
1009716.759	884369.544	2880
1009717.107	884369.437	3240
1009717.215	884368.9	2700
1009717.307	884368.311	2640
1009717.431	884367.973	2640
1009717.733	884367.859	2160
1009718.163	884367.499	2700
1009718.793	884366.606	2640
1009719.393	884365.541	2820
1009719.721	884364.638	3060
1009720.263	884363.791	3360
1009721.016	884363.001	2820
1009721.513	884362.231	2640
1009722.134	884361.138	3000
1009723.171	884359.465	2820
1009724.766	884357.907	3120
1009726.46	884356.451	3300
1009727.985	884355.016	3540
1009729.498	884353.858	3060
1009730.688	884352.932	3420
1009731.673	884352.419	3900
1009733.151	884352.105	3300
1009734.786	884351.124	2760
1009736.739	884349.586	3000
1009739.039	884347.537	2940
1009741.114	884345.018	3180
1009743.22	884342.407	3240
1009745.205	884340.075	2820
1009747.597	884337.555	3180
1009749.956	884335.247	2700
1009751.666	884333.073	2460
1009753.485	884330.87	2880
1009755.105	884328.634	2880
1009756.514	884326.305	2640
1009758.377	884324.245	3000

Survey Unit: CE-FSS-42-06

Gamma Walkover Survey

Instrument: Ludlum Model 12 (172705) with 44-10 (277925)

Easting	Northing	CPM
1009441.997	884682.383	2940
1009441.665	884682.272	3000
1009442.143	884681.929	2880
1009443.186	884681.52	3240
1009443.483	884681.579	2820
1009443.372	884681.336	2100
1009443.528	884680.727	2280
1009443.542	884680.727	2520
1009443.504	884680.879	2940
1009443.492	884680.654	2820
1009443.342	884680.143	2280
1009442.973	884680.068	2940
1009442.848	884680.169	2820
1009442.662	884680.198	2520
1009442.434	884680.113	3060
1009442.181	884680.274	2940
1009441.933	884680.577	2280
1009441.819	884680.741	2580
1009441.818	884680.981	2940
1009441.82	884681.208	2100
1009441.517	884681.416	2280
1009441.13	884681.597	2880
1009440.987	884681.586	2580
1009440.903	884681.498	2400
1009440.807	884681.508	3000
1009440.86	884681.787	3000
1009441.369	884682.095	3000
1009441.464	884682.361	3000
1009441.379	884682.571	2580
1009441.945	884683.047	2460
1009443.337	884683.446	2880
1009444.368	884682.812	2100
1009444.42	884682.122	2460
1009443.384	884682.485	2400
1009442.061	884682.439	2340
1009441.728	884681.645	2400
1009442.296	884681.173	2580
1009442.692	884681.242	2520
1009443.021	884681.249	2520
1009443.23	884680.621	2940

Easting	Northing	CPM
1009759.955	884322.799	3180
1009761.162	884321.586	2640
1009762.231	884320.512	3180
1009762.983	884319.557	3420
1009763.649	884318.3	3420
1009764.561	884316.925	2940
1009764.905	884316.359	2880
1009764.402	884316.232	2580
1009763.404	884316.287	2820
1009762.351	884316.486	2280
1009761.447	884316.507	2580
1009761.073	884316.277	3300
1009761.372	884315.818	3000
1009762.771	884315.334	2880
1009765.045	884314.29	2640
1009767.037	884312.92	3000
1009768.717	884311.441	3060
1009770.245	884310.073	3120
1009771.557	884309.245	3000
1009772.873	884308.358	3180
1009774.115	884306.447	2580
1009775.341	884304.227	2640
1009776.974	884302.427	3840
1009777.74	884301.376	3000
1009777.433	884301.193	2760
1009776.765	884301.571	2520
1009776.12	884302.033	2220
1009775.983	884302.506	2220
1009775.8	884303.622	3000
1009774.904	884304.941	3180
1009774.08	884305.752	2820
1009773.623	884306.654	2940
1009773.828	884306.791	3180
1009774.582	884305.576	3240
1009776.191	884303.691	2880
1009778.372	884301.274	2400
1009780.109	884299.271	2940
1009781.649	884297.31	2460
1009783.421	884294.875	2640
1009785.99	884291.975	2700

Survey Unit: CE-FSS-42-06

Gamma Walkover Survey

Instrument: Ludlum Model 12 (172705) with 44-10 (277925)

Easting	Northing	CPM
1009443.275	884679.43	3060
1009443.45	884678.878	3120
1009443.662	884678.692	2580
1009444.25	884678.126	2940
1009445.34	884676.71	2160
1009446.479	884674.974	2580
1009447.659	884672.727	2940
1009448.019	884671.351	2760
1009448.092	884671.394	2460
1009448.206	884671.948	2700
1009448.689	884672.264	2940
1009449.352	884672.293	3660
1009450.511	884671.838	2640
1009451.835	884670.137	2520
1009453.407	884667.359	2880
1009455.626	884664.528	2700
1009457.129	884662.31	2520
1009457.968	884661.358	3000
1009458.673	884660.507	3060
1009459.29	884659.501	2580
1009459.901	884658.752	3000
1009460.514	884658.247	2940
1009461.092	884657.352	2460
1009461.842	884656.008	2460
1009463.095	884653.939	3060
1009464.816	884652.298	2700
1009466.518	884652.581	3300
1009466.768	884653.118	3060
1009466.346	884653.275	2880
1009466.102	884653.414	2460
1009465.274	884653.263	2340
1009464.447	884652.48	2760
1009464.545	884651.688	2340
1009464.923	884650.322	2640
1009465.484	884649.426	3300
1009465.993	884648.771	2940
1009466.951	884647.952	3000
1009467.821	884646.914	3780
1009469.54	884644.935	3720
1009471.294	884642.715	3060

Easting	Northing	CPM
1009788.613	884289.572	2820
1009790.9	884287.822	2640
1009792.942	884286.428	2100
1009795.091	884285.094	2520
1009796.237	884283.696	3000
1009796.492	884282.299	2880
1009796.924	884281.75	3060
1009797.585	884281.421	2820
1009798.312	884280.656	2460
1009799.245	884279.75	2700
1009800.023	884279.02	2820
1009800.364	884278.608	2520
1009800.804	884278.248	2640
1009801.544	884277.077	2460
1009801.941	884274.891	2400
1009802.334	884273.368	2760
1009803.105	884273.482	2640
1009803.576	884273.66	2700
1009804.045	884273.439	3180
1009804.925	884272.812	3240
1009805.672	884271.948	1920
1009806.244	884271.616	2400
1009806.734	884271.08	2460
1009807.65	884269.765	2160
1009808.891	884268.472	1980
1009811.362	884266.621	1980
1009813.832	884264.42	2340
1009816.262	884261.982	2220
1009818.709	884259.742	2340
1009820.263	884258.455	2520
1009821.287	884258.237	2520
1009823.197	884257.548	1920
1009825.252	884255.808	1680
1009826.818	884253.41	2400
1009827.815	884250.774	1860
1009828.354	884248.503	1740
1009829.255	884245.967	2220
1009830.272	884243.654	1860
1009831.207	884241.195	2460
1009832.327	884239.696	2880

Survey Unit: CE-FSS-42-06

Gamma Walkover Survey

Instrument: Ludlum Model 12 (172705) with 44-10 (277925)

Easting	Northing	CPM
1009472.867	884640.298	3000
1009474.742	884637.675	3240
1009476.742	884634.846	3300
1009478.346	884632.483	2940
1009479.593	884630.266	2400
1009481.018	884628.399	2820
1009482.563	884626.965	2820
1009483.753	884626.077	3180
1009485.328	884624.52	2700
1009486.451	884622.728	3060
1009487.696	884620.59	3300
1009488.995	884618.367	3360
1009490.383	884617.056	2580
1009491.403	884616.046	2280

Easting	Northing	CPM
1009833.008	884239.451	2580
1009832.611	884238.992	1980
1009832.413	884237.365	2040
1009831.62	884236.014	2280
1009831.396	884236.403	2400
1009832.958	884237.64	2700
1009833.549	884238.406	2580
1009833.487	884239.034	2640
1009833.404	884239.734	2340
1009833.341	884240.379	2760
1009833.271	884241.085	2460
1009833.247	884241.28	2760
1009833.093	884242.061	2520
1009833.193	884241.643	2580



Project Info			Laboratory Info			INVOICE (if other than MACTEC contact)		
MACTEC Contact	Project No.		Laboratory Name	Phone		Laboratory Name	Phone	
	Purchase Order No.		Lab Contact	Fax		Lab Contact	Fax	
			Address			Address		
			City/State/Zip			City/State/Zip		
Special Handling Instructions								
						Analysis		
Sample ID No.	Date Collected	time	Type ¹	Media	Volume	Description if necessary		
FSS-42-06-001 - 01	8/16/2010	1320	Rad	Soil	1 pint			
FSS-42-06-002 - 01		1325	Rad	Soil	1 pint			
FSS-42-06-003 - 01		1355	Rad	Soil	1 pint			
FSS-42-06-004 - 01		1320	Rad	Soil	1 pint			
FSS-42-06-005 - 01		1345	Rad	Soil	1 pint			
FSS-42-06-006 - 01		1340	Rad	Soil	1 pint			
FSS-42-06-007 - 01		1350	Rad	Soil	1 pint			
FSS-42-06-008 - 01		1400	Rad	Soil	1 pint			
FSS-42-06-009 - 01		1355	Rad	Soil	1 pint			
FSS-42-06-010 - 01		1405	Rad	Soil	1 pint			
FSS-42-06-011 - 01		1410	Rad	Soil	1 pint			
FSS-42-06-011 - 1S		1411	Rad	Soil	1 pint			
FSS-42-06-012 - 01		1415	Rad	Soil	1 pint			
FSS-42-06-012 - 1S		1414	Rad	Soil	1 pint			
FSS-42-06-013 - 01		1425	Rad	Soil	1 pint			
Relinquished By:			Larry Fitzsimmons			Received By:		
Signed/Date/Time	<i>[Signature]</i> 8-16-10 @ 16-		Signed/Date/Time			RS-Radioactive		
Received By:	Brianna Sullivan		Relinquished By:			Chem-Chemical		
Signed/Date/Time	<i>[Signature]</i> 8-16-10 @ 1600		Signed/Date/Time			Mix-Rad+Chemical		
Relinquished By:			Received By:					
Signed/Date/Time			Signed/Date/Time					

FSS INTERNAL CHAIN OF CUSTODY FORM

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Project Info			Laboratory Info			INVOICE (if other than MACTEC contact)		
MACTEC Contact	Project No.		Laboratory Name	Phone	Laboratory Name	Phone		
Project Title	Purchase Order No.		Lab Contact	Fax	Lab Contact	Fax		
Address			Address		Address			
City/State/Zip			City/State/Zip		City/State/Zip			
Special Handling Instructions								
Analysis								
Sample ID No.	Date Collected	time	Type ¹	Media	Volume	Description if necessary		
FSS-42-06- 014 - 01	8/16/2010	1430	Rad	Soil	1 pint			
FSS-42-06- 015 - 01		1440	Rad	Soil	1 pint			
FSS-42-06- 016 - 01		1430	Rad	Soil	1 pint			
FSS-42-06- 017 - 01		1445	Rad	Soil	1 pint			
FSS-42-06- 018 - 01		1435	Rad	Soil	1 pint			
FSS-42-06- 019 - 01		1450	Rad	Soil	1 pint			
FSS-42-06- 020 - 01		1500	Rad	Soil	1 pint			
FSS-42-06- 021 - 01		1510	Rad	Soil	1 pint			
FSS-42-06- 022 - 01		1505	Rad	Soil	1 pint			
FSS-42-06- 023 - 01		1520	Rad	Soil	1 pint			
FSS-42-06- 024 - 01		1515	Rad	Soil	1 pint			
FSS-42-06- 025 - 01		1525	Rad	Soil	1 pint			
FSS-42-06- 026 - 01		1530	Rad	Soil	1 pint			
FSS-42-06- 027 - 01		1535	Rad	Soil	1 pint			
FSS-42-06- 028 - 01		1540	Rad	Soil	1 pint			
Relinquished By:			Received By:			¹ Type		
Signed/Date/Time			Signed/Date/Time			RS-Radioactive		
Received By:			Relinquished By:			Chem-Chemical		
Signed/Date/Time			Signed/Date/Time			Mix-Rad+Chemical		
Relinquished By:			Received By:					
Signed/Date/Time			Signed/Date/Time					

FSS INTERNAL CHAIN OF CUSTODY FORM

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Project Info			Laboratory Info		INVOICE (if other than MACTEC contact)		
MACTEC Contact	Project No.		Laboratory Name	Phone	Laboratory Name	Phone	
Project Title	Purchase Order No.		Lab Contact	Fax	Lab Contact	Fax	
Address			Address		Address		
City/State/Zip			City/State/Zip		City/State/Zip		
Special Handling Instructions			Analysis				
Sample ID No.	Date Collected	time	Type ¹	Media	Volume	Description if necessary	
FSS-42-06- 029 - 01	8/16/2010	1545	Rad	Soil	1 pint		
FSS-42-06-			Rad	Soil	1 pint		
FSS-42-06-			Rad	Soil	1 pint		
FSS-42-06-			Rad	Soil	1 pint		
FSS-42-06-			Rad	Soil	1 pint		
FSS-42-06-			Rad	Soil	1 pint		
FSS-42-06-			Rad	Soil	1 pint		
FSS-42-06-			Rad	Soil	1 pint		
FSS-42-06-			Rad	Soil	1 pint		
FSS-42-06-			Rad	Soil	1 pint		
FSS-42-06-			Rad	Soil	1 pint		
FSS-42-06-			Rad	Soil	1 pint		
FSS-42-06-			Rad	Soil	1 pint		
FSS-42-06-			Rad	Soil	1 pint		
FSS-42-06-			Rad	Soil	1 pint		
FSS-42-06-			Rad	Soil	1 pint		
FSS-42-06-			Rad	Soil	1 pint		
FSS-42-06-			Rad	Soil	1 pint		
Relinquished By:	L. Fitzsimmons		Received By:				Type RS-Radioactive Chem-Chemical Mix-Rad+Chemical
Signed/Date/Time	8-16-10 @ 16 -		Signed/Date/Time				
Received By:	B. Sullivan		Relinquished By:				
Signed/Date/Time	8-16-10 @ 1600		Signed/Date/Time				
Relinquished By:			Received By:				
Signed/Date/Time			Signed/Date/Time				

***** 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-42-06-001
Sample Title: FSS-42-06
Sample Description: FSS-42-06-001
Detector Name: 25%HPGE
Nuclide Library Used: C:\GENIE2K\CAMFILES\FUSRAP_R4.NLB
Sample Size: 6.148E+002 g
Sample Taken On: 8/16/2010 1:20:00 PM
Acquisition Started: 8/17/2010 5:12:25 PM
Live Time: 1000.0 seconds
Real Time: 1000.3 seconds
Dead Time: 0.03 %
Efficiency ID: 1316-45_04-30-10

Nuclide Name	Qualifier	Nuclide Activity (pCi/g)	Activity Uncert. (pCi/g)	Nuclide MDA (pCi/g)
K-40		2.27E+001	3.13E+000	2.73E-001
CO-60	U	-2.10E-002	9.63E-002	1.43E-001
SB-125		2.19E-001	2.13E-001	3.24E-001
CS-137	U	2.97E-002	1.06E-001	1.57E-001
Ra-226		7.18E-001	1.43E-001	2.77E-001
TH-230	U	2.33E+000	2.76E+001	3.60E+001
PA-231	U	1.56E+000	2.73E+000	4.33E+000
Th-231	U	1.43E+000	1.04E+000	1.72E+000
Th-232		8.44E-001	1.63E-001	3.63E-001
PA-234M	U	4.37E+000	1.27E+001	2.13E+001
U-234	U	-2.11E+001	1.37E+002	1.74E+002
U-235	U	1.20E-001	1.13E-001	1.79E-001
U-238	U	1.14E-001	1.43E+000	2.15E+000
AM-241	U	1.29E-001	3.55E-001	4.85E-001

Uncertainty reported at 1.9600 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-42-06-002
Sample Title: FSS-42-06
Sample Description: FSS-42-06-002
Detector Name: 25%HPGE
Nuclide Library Used: C:\GENIE2K\CAMFILES\FUSRAP_R4.NLB
Sample Size: 6.822E+002 g
Sample Taken On: 8/16/2010 1:25:00 PM
Acquisition Started: 8/17/2010 5:32:03 PM
Live Time: 1000.0 seconds
Real Time: 1000.3 seconds
Dead Time: 0.03 %
Efficiency ID: 1316-45_04-30-10

Nuclide Name	Qualifier	Nuclide Activity (pCi/g)	Activity Uncert. (pCi/g)	Nuclide MDA (pCi/g)
K-40		2.07E+001	2.92E+000	1.43E+000
CO-60	U	1.84E-003	9.80E-002	1.50E-001
SB-125	U	1.90E-001	2.03E-001	3.55E-001
CS-137	U	3.93E-002	9.51E-002	1.55E-001
Ra-226		7.77E-001	1.23E-001	2.32E-001
TH-230	U	-4.42E+000	2.79E+001	3.51E+001
PA-231	U	-4.38E+000	3.57E+000	4.08E+000
Th-231		1.54E+000	9.71E-001	1.54E+000
Th-232		9.27E-001	1.82E-001	1.57E-001
PA-234M	U	4.72E+000	1.01E+001	1.78E+001
U-234	U	8.69E+001	1.07E+002	1.55E+002
U-235	U	5.45E-002	1.10E-001	1.64E-001
U-238	U	5.91E-001	1.40E+000	2.11E+000
AM-241	U	-7.42E-002	3.48E-001	4.26E-001

Uncertainty reported at 1.9600 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-42-06-003
Sample Title: FSS-42-06
Sample Description: FSS-42-06-003
Detector Name: 25%HPGE
Nuclide Library Used: C:\GENIE2K\CAMFILES\FUSRAP_R4.NLB
Sample Size: 7.476E+002 g
Sample Taken On: 8/16/2010 1:35:00 PM
Acquisition Started: 8/17/2010 5:58:14 PM
Live Time: 1000.0 seconds
Real Time: 1000.3 seconds
Dead Time: 0.03 %
Efficiency ID: 1316-45_04-30-10

Nuclide Name	Qualifier	Nuclide Activity (pCi/g)	Activity Uncert. (pCi/g)	Nuclide MDA (pCi/g)
K-40		1.87E+001	2.66E+000	1.34E+000
CO-60	U	5.11E-002	8.64E-002	1.60E-001
SB-125	UI	-7.80E-002	2.13E-001	2.87E-001
CS-137	U	-3.93E-002	9.08E-002	1.22E-001
Ra-226		6.10E-001	1.21E-001	1.91E-001
TH-230	U	7.90E+000	2.43E+001	3.26E+001
PA-231	UI	1.85E+000	1.85E+000	3.02E+000
Th-231	U	1.43E+000	9.82E-001	1.60E+000
Th-232		7.93E-001	1.19E-001	2.14E-001
PA-234M	U	1.03E+001	1.09E+001	2.02E+001
U-234	U	1.04E+002	1.13E+002	1.64E+002
U-235		1.27E-001	9.36E-002	1.46E-001
U-238	U	1.55E+000	1.29E+000	2.07E+000
AM-241	U	1.84E-002	3.33E-001	4.25E-001

Uncertainty reported at 1.9600 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-42-06-004
Sample Title: FSS-42-06
Sample Description: FSS-42-06-004
Detector Name: 25%HPGE
Nuclide Library Used: C:\GENIE2K\CAMFILES\FUSRAP_R4.NLB
Sample Size: 6.936E+002 g
Sample Taken On: 8/16/2010 1:30:00 PM
Acquisition Started: 8/17/2010 6:17:12 PM
Live Time: 1000.0 seconds
Real Time: 1000.3 seconds
Dead Time: 0.03 %
Efficiency ID: 1316-45_04-30-10

Nuclide Name	Qualifier	Nuclide Activity (pCi/g)	Activity Uncert. (pCi/g)	Nuclide MDA (pCi/g)
K-40		1.92E+001	2.81E+000	1.55E+000
CO-60	U	5.42E-002	9.89E-002	1.73E-001
SB-125	U	-6.68E-002	2.22E-001	3.04E-001
CS-137		5.76E-002	2.30E-002	5.09E-002
Ra-226		7.54E-001	1.38E-001	1.85E-001
TH-230	U	1.58E+001	2.47E+001	3.45E+001
PA-231	UI	2.03E+000	2.30E+000	4.16E+000
Th-231	U	2.51E+000	1.02E+000	1.73E+000
Th-232		9.54E-001	1.39E-001	2.50E-001
PA-234M	U	5.97E+000	1.19E+001	2.02E+001
U-234	U	-2.58E+001	1.36E+002	1.72E+002
U-235	UI	1.23E-001	9.97E-002	1.62E-001
U-238		1.29E+000	1.20E+000	1.89E+000
AM-241	U	3.32E-002	3.30E-001	4.34E-001

Uncertainty reported at 1.9600 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-42-06-005
Sample Title: FSS-42-06
Sample Description: FSS-42-06-005
Detector Name: 25%HPGE
Nuclide Library Used: C:\GENIE2K\CAMFILES\FUSRAP_R4.NLB
Sample Size: 7.674E+002 g
Sample Taken On: 8/16/2010 1:45:00 PM
Acquisition Started: 8/17/2010 6:36:52 PM
Live Time: 1000.0 seconds
Real Time: 1000.3 seconds
Dead Time: 0.03 %
Efficiency ID: 1316-45_04-30-10

Nuclide Name	Qualifier	Nuclide Activity (pCi/g)	Activity Uncert. (pCi/g)	Nuclide MDA (pCi/g)
K-40		1.85E+001	2.63E+000	1.41E+000
CO-60	U	9.79E-003	7.09E-002	1.13E-001
SB-125	U	-2.10E-001	2.38E-001	2.75E-001
CS-137	U	4.19E-003	8.81E-002	1.33E-001
Ra-226		7.06E-001	1.39E-001	1.96E-001
TH-230	U	-2.69E-001	2.35E+001	3.02E+001
PA-231	U	-1.08E+000	2.92E+000	3.90E+000
Th-231	U	1.73E+000	8.98E-001	1.51E+000
Th-232		7.59E-001	9.36E-002	1.61E-001
PA-234M	U	-3.76E+000	1.47E+001	1.86E+001
U-234	U	-3.13E+001	1.17E+002	1.47E+002
U-235	U	8.13E-002	9.32E-002	1.44E-001
U-238	U	1.61E+000	1.19E+000	1.95E+000
AM-241	U	3.54E-002	2.92E-001	3.81E-001

Uncertainty reported at 1.9600 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-42-06-006
Sample Title: FSS-42-06
Sample Description: FSS-42-06-006
Detector Name: 25%HPGE
Nuclide Library Used: C:\GENIE2K\CAMFILES\FUSRAP_R4.NLB
Sample Size: 6.638E+002 g
Sample Taken On: 8/16/2010 1:40:00 PM
Acquisition Started: 8/17/2010 6:55:46 PM
Live Time: 1000.0 seconds
Real Time: 1000.3 seconds
Dead Time: 0.03 %
Efficiency ID: 1316-45_04-30-10

Nuclide Name	Qualifier	Nuclide Activity (pCi/g)	Activity Uncert. (pCi/g)	Nuclide MDA (pCi/g)
K-40		2.14E+001	3.01E+000	1.44E+000
CO-60	U	-2.04E-002	1.07E-001	1.54E-001
SB-125	U	5.56E-002	2.22E-001	3.42E-001
CS-137	U	-4.56E-002	1.06E-001	1.43E-001
Ra-226		7.12E-001	1.36E-001	2.40E-001
TH-230	U	-7.82E+000	3.02E+001	3.64E+001
PA-231	U	-3.53E+000	3.30E+000	3.90E+000
Th-231	U	9.14E-001	1.15E+000	1.79E+000
Th-232		7.79E-001	1.36E-001	2.54E-001
PA-234M	U	-8.54E+000	1.28E+001	1.50E+001
U-234	U	-3.35E+001	1.33E+002	1.64E+002
U-235	UI	7.97E-002	8.12E-002	1.34E-001
U-238	U	1.08E+000	1.31E+000	2.10E+000
AM-241	U	2.87E-001	3.29E-001	4.76E-001

Uncertainty reported at 1.9600 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-42-06-006LR
Sample Title: FSS-42-06
Sample Description: FSS-42-06-006LR
Detector Name: 25%HPGE
Nuclide Library Used: C:\GENIE2K\CAMFILES\FUSRAP_R4.NLB
Sample Size: 6.638E+002 g
Sample Taken On: 8/16/2010 1:40:00 PM
Acquisition Started: 8/18/2010 12:13:30 PM
Live Time: 1000.0 seconds
Real Time: 1000.3 seconds
Dead Time: 0.03 %
Efficiency ID: 1316-45_04-30-10

Nuclide Name	Qualifier	Nuclide Activity (pCi/g)	Activity Uncert. (pCi/g)	Nuclide MDA (pCi/g)
K-40		1.99E+001	2.99E+000	1.94E+000
CO-60	U	6.95E-002	8.58E-002	1.74E-001
SB-125	U	6.40E-002	2.11E-001	3.33E-001
CS-137	U	-2.47E-002	1.10E-001	1.54E-001
Ra-226		7.40E-001	1.30E-001	2.15E-001
TH-230	U	3.54E+001	2.34E+001	3.62E+001
PA-231	U	-1.55E+000	3.20E+000	4.27E+000
Th-231	U	1.90E+000	1.02E+000	1.72E+000
Th-232		8.30E-001	1.33E-001	2.42E-001
PA-234M	U	-3.38E+000	1.32E+001	1.88E+001
U-234	U	1.17E+002	1.19E+002	1.75E+002
U-235		8.94E-002	1.05E-001	1.71E-001
U-238	U	1.74E-001	1.51E+000	2.26E+000
AM-241	U	1.85E-001	3.26E-001	4.51E-001

Uncertainty reported at 1.9600 sigma

QC Analysis Comparison

Table I-1

FSS Quality Control Accuracy and Precision Comparison										
Isotope	Sample ID CE-FSS-42-06-006				Sample ID CE-FSS-42-06-006LR					
	Activity Value (pCi/g)	Uncert.	Resolution	Agreement Range	Activity Value (pCi/g)	Uncert.	Agreement Ratio (Accuracy)	% Deviation (Precision)	Acceptable	Comments
Ra-226	7.12E-01	6.93E-02	10	0.6 - 1.66	7.40E-01	6.62E-02	1.04	-1.9	Yes	N/A
Th-232	7.79E-01	6.92E-02	11	0.6 - 1.66	8.30E-01	6.80E-02	1.07	-3.2	Yes	N/A
K-40	2.14E+01	1.53E+00	14	0.6 - 1.66	1.99E+01	1.52E+00	0.93	3.5	Yes	N/A
Note:							Resolution = Standard Activity Value /Standard Error			
							Resolution		Agreement Range	
							<4		No Comparison	
							4 - 7		0.4 - 2.0	
							8 - 15		0.6 - 1.66	
							16 - 50		0.75 - 1.33	
							51- 200		0.80 - 1.25	
							> 200		0.85 - 1.18	

Prepared/Date: GSM 07/18/11

Checked/Date: HTD 07/18/11

***** 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-42-06-007
Sample Title: FSS-42-06
Sample Description: FSS-42-06-007
Detector Name: 25%HPGE
Nuclide Library Used: C:\GENIE2K\CAMFILES\FUSRAP_R4.NLB
Sample Size: 7.328E+002 g
Sample Taken On: 8/16/2010 1:50:00 PM
Acquisition Started: 8/17/2010 7:15:22 PM
Live Time: 1000.0 seconds
Real Time: 1000.3 seconds
Dead Time: 0.03 %
Efficiency ID: 1316-45_04-30-10

Nuclide Name	Qualifier	Nuclide Activity (pCi/g)	Activity Uncert. (pCi/g)	Nuclide MDA (pCi/g)
K-40		1.76E+001	2.61E+000	1.39E+000
CO-60	U	-2.95E-002	1.13E-001	1.58E-001
SB-125		2.22E-001	2.09E-001	3.46E-001
CS-137	U	-1.37E-002	8.91E-002	1.27E-001
Ra-226		6.64E-001	1.41E-001	2.04E-001
TH-230	U	1.47E+001	2.35E+001	3.28E+001
PA-231	U	-2.32E+000	3.18E+000	4.05E+000
Th-231		1.26E+000	9.47E-001	1.53E+000
Th-232		8.38E-001	1.67E-001	3.37E-001
PA-234M	U	7.89E+000	1.04E+001	1.87E+001
U-234	U	5.86E+001	1.07E+002	1.47E+002
U-235	U	2.33E-002	1.00E-001	1.45E-001
U-238	U	1.27E+000	1.19E+000	1.94E+000
AM-241	U	3.72E-002	3.12E-001	4.05E-001

Uncertainty reported at 1.9600 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-42-06-008
Sample Title: FSS-42-06
Sample Description: FSS-42-06-008
Detector Name: 25%HPGE
Nuclide Library Used: C:\GENIE2K\CAMFILES\FUSRAP_R4.NLB
Sample Size: 7.230E+002 g
Sample Taken On: 8/16/2010 2:00:00 PM
Acquisition Started: 8/17/2010 7:39:54 PM
Live Time: 1000.0 seconds
Real Time: 1000.3 seconds
Dead Time: 0.03 %
Efficiency ID: 1316-45_04-30-10

Nuclide Name	Qualifier	Nuclide Activity (pCi/g)	Activity Uncert. (pCi/g)	Nuclide MDA (pCi/g)
K-40		2.08E+001	2.81E+000	1.03E+000
CO-60	U	-8.50E-002	1.27E-001	1.28E-001
SB-125	U	-1.12E-001	2.34E-001	3.10E-001
CS-137	U	-5.14E-002	1.04E-001	1.36E-001
Ra-226		6.17E-001	1.24E-001	2.34E-001
TH-230	U	3.29E+000	2.74E+001	3.53E+001
PA-231	U	-1.96E+000	3.04E+000	3.79E+000
Th-231	U	9.05E-001	9.97E-001	1.58E+000
Th-232		7.28E-001	1.21E-001	2.27E-001
PA-234M	U	2.39E+000	1.11E+001	1.77E+001
U-234	U	-7.06E+001	1.28E+002	1.50E+002
U-235	U	1.96E-001	9.45E-002	1.64E-001
U-238	U	2.76E-001	1.34E+000	2.00E+000
AM-241	U	6.84E-002	3.10E-001	4.14E-001

Uncertainty reported at 1.9600 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-42-06-009
Sample Title: FSS-42-06
Sample Description: FSS-42-06-009
Detector Name: 25%HPGE
Nuclide Library Used: C:\GENIE2K\CAMFILES\FUSRAP_R4.NLB
Sample Size: 7.442E+002 g
Sample Taken On: 8/16/2010 1:55:00 PM
Acquisition Started: 8/17/2010 7:58:40 PM
Live Time: 1000.0 seconds
Real Time: 1000.3 seconds
Dead Time: 0.03 %
Efficiency ID: 1316-45_04-30-10

Nuclide Name	Qualifier	Nuclide Activity (pCi/g)	Activity Uncert. (pCi/g)	Nuclide MDA (pCi/g)
K-40		1.89E+001	2.62E+000	7.74E-001
CO-60	U	-6.14E-002	1.06E-001	1.31E-001
SB-125	U	-1.66E-001	2.33E-001	2.84E-001
CS-137	U	-8.74E-002	1.02E-001	1.25E-001
Ra-226		6.64E-001	1.26E-001	1.94E-001
TH-230	U	4.12E+001	2.22E+001	3.49E+001
PA-231	U	-9.01E-001	2.88E+000	3.84E+000
Th-231	U	1.13E+000	9.87E-001	1.58E+000
Th-232		6.98E-001	1.31E-001	2.28E-001
PA-234M	U	1.23E+000	8.75E+000	1.44E+001
U-234	U	-1.16E+001	1.08E+002	1.37E+002
U-235	U	5.74E-002	9.04E-002	1.38E-001
U-238	U	2.26E+000	1.23E+000	2.05E+000
AM-241	U	-1.87E-001	3.54E-001	4.10E-001

Uncertainty reported at 1.9600 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-42-06-010
Sample Title: FSS-42-06
Sample Description: FSS-42-06-010
Detector Name: 25%HPGE
Nuclide Library Used: C:\GENIE2K\CAMFILES\FUSRAP_R4.NLB
Sample Size: 7.329E+002 g
Sample Taken On: 8/16/2010 2:05:00 PM
Acquisition Started: 8/17/2010 8:17:24 PM
Live Time: 1000.0 seconds
Real Time: 1000.3 seconds
Dead Time: 0.03 %
Efficiency ID: 1316-45_04-30-10

Nuclide Name	Qualifier	Nuclide Activity (pCi/g)	Activity Uncert. (pCi/g)	Nuclide MDA (pCi/g)
K-40		1.81E+001	2.61E+000	1.13E+000
CO-60	U	4.57E-002	7.09E-002	1.40E-001
SB-125	U	2.90E-002	2.02E-001	2.97E-001
CS-137	U	9.06E-003	1.03E-001	1.55E-001
Ra-226		4.95E-001	1.11E-001	2.04E-001
TH-230	U	-4.83E-002	2.16E+001	3.05E+001
PA-231	U	-1.40E-001	2.57E+000	3.63E+000
Th-231		1.43E+000	4.11E-001	1.04E+000
Th-232		5.99E-001	1.62E-001	1.82E-001
PA-234M	U	3.73E+000	9.18E+000	1.61E+001
U-234	U	2.72E+001	1.07E+002	1.44E+002
U-235	U	4.18E-002	1.02E-001	1.50E-001
U-238	U	9.45E-001	1.13E+000	1.82E+000
AM-241	U	-2.90E-001	3.40E-001	3.84E-001

Uncertainty reported at 1.9600 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-42-06-011
Sample Title: FSS-42-06
Sample Description: FSS-42-06-011
Detector Name: 25%HPGE
Nuclide Library Used: C:\GENIE2K\CAMFILES\FUSRAP_R4.NLB
Sample Size: 6.540E+002 g
Sample Taken On: 8/16/2010 2:10:00 PM
Acquisition Started: 8/17/2010 8:35:55 PM
Live Time: 1000.0 seconds
Real Time: 1000.3 seconds
Dead Time: 0.03 %
Efficiency ID: 1316-45_04-30-10

Nuclide Name	Qualifier	Nuclide Activity (pCi/g)	Activity Uncert. (pCi/g)	Nuclide MDA (pCi/g)
K-40		1.95E+001	2.90E+000	1.51E+000
CO-60	U	-5.17E-002	1.15E-001	1.49E-001
SB-125	UI	7.61E-002	2.01E-001	3.23E-001
CS-137	U	6.29E-003	8.09E-002	1.26E-001
Ra-226		6.79E-001	1.24E-001	1.65E-001
TH-230	U	-1.07E+001	2.92E+001	3.57E+001
PA-231	U	-1.69E+000	3.23E+000	4.26E+000
Th-231		1.41E+000	1.08E+000	1.75E+000
Th-232		7.86E-001	1.45E-001	2.60E-001
PA-234M	U	-7.26E-002	1.29E+001	1.96E+001
U-234	U	-1.29E+001	1.18E+002	1.48E+002
U-235	U	3.68E-002	1.05E-001	1.56E-001
U-238	U	1.95E+000	1.39E+000	2.29E+000
AM-241	U	1.16E-001	3.01E-001	4.16E-001

Uncertainty reported at 1.9600 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-42-06-011S
Sample Title: FSS-42-06
Sample Description: FSS-42-06-011S
Detector Name: 25%HPGE
Nuclide Library Used: C:\GENIE2K\CAMFILES\FUSRAP_R4.NLB
Sample Size: 7.252E+002 g
Sample Taken On: 8/16/2010 2:11:00 PM
Acquisition Started: 8/17/2010 8:55:38 PM
Live Time: 1000.0 seconds
Real Time: 1000.3 seconds
Dead Time: 0.03 %
Efficiency ID: 1316-45_04-30-10

Nuclide Name	Qualifier	Nuclide Activity (pCi/g)	Activity Uncert. (pCi/g)	Nuclide MDA (pCi/g)
K-40		1.81E+001	2.63E+000	1.19E+000
CO-60	U	3.17E-002	8.89E-002	1.53E-001
SB-125	U	5.19E-002	2.31E-001	3.42E-001
CS-137	U	-2.79E-002	9.80E-002	1.34E-001
Ra-226		5.92E-001	1.13E-001	1.78E-001
TH-230	U	7.28E+000	2.51E+001	3.33E+001
PA-231	UI	1.50E+000	1.91E+000	3.20E+000
Th-231		1.27E+000	1.09E+000	1.19E+000
Th-232		7.16E-001	9.17E-002	1.92E-001
PA-234M	U	6.52E+000	1.13E+001	1.97E+001
U-234	U	-7.67E+001	1.23E+002	1.42E+002
U-235	U	1.69E-001	9.33E-002	1.59E-001
U-238	U	8.84E-001	1.27E+000	2.00E+000
AM-241	U	7.51E-002	3.26E-001	4.28E-001

Uncertainty reported at 1.9600 sigma

QC Analysis Comparison

Table I-2

FSS Quality Control Accuracy and Precision Comparison										
Isotope	Sample ID CE-FSS-42-06-011				Sample ID CE-FSS-42-06-011S					
	Activity Value (pCi/g)	Uncert.	Resolution	Agreement Range	Activity Value (pCi/g)	Uncert.	Agreement Ratio (Accuracy)	% Deviation (Precision)	Acceptable	Comments
Ra-226	6.79E-01	6.30E-02	11	0.6 - 1.66	5.92E-01	5.78E-02	0.87	6.9	Yes	N/A
Th-232	7.86E-01	7.37E-02	11	0.6 - 1.66	7.16E-01	4.68E-02	0.91	4.7	Yes	N/A
K-40	1.95E+01	1.48E+00	13	0.6 - 1.66	1.81E+01	1.34E+00	0.93	3.7	Yes	N/A
Note:							Resolution = Standard Activity Value /Standard Error			
							Resolution		Agreement Range	
							<4		No Comparison	
							4 - 7		0.4 - 2.0	
							8 - 15		0.6 - 1.66	
							16 - 50		0.75 - 1.33	
							51- 200		0.80 - 1.25	
							> 200		0.85 - 1.18	

Prepared/Date: GSM 07/18/11

Checked/Date: HTD 07/18/11

***** 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-42-06-012
Sample Title: FSS-42-06
Sample Description: FSS-42-06-012
Detector Name: 25%HPGE
Nuclide Library Used: C:\GENIE2K\CAMFILES\FUSRAP_R4.NLB
Sample Size: 7.058E+002 g
Sample Taken On: 8/16/2010 2:15:00 PM
Acquisition Started: 8/17/2010 9:16:30 PM
Live Time: 1000.0 seconds
Real Time: 1000.3 seconds
Dead Time: 0.03 %
Efficiency ID: 1316-45_04-30-10

Nuclide Name	Qualifier	Nuclide Activity (pCi/g)	Activity Uncert. (pCi/g)	Nuclide MDA (pCi/g)
K-40		2.13E+001	2.88E+000	1.03E+000
CO-60	U	1.91E-002	1.05E-001	1.70E-001
SB-125	U	-1.56E-001	2.24E-001	2.79E-001
CS-137	U	1.75E-002	8.05E-002	1.29E-001
Ra-226		5.47E-001	1.10E-001	1.83E-001
TH-230	U	8.90E+000	2.58E+001	3.42E+001
PA-231	U	-1.17E+000	2.32E+000	3.44E+000
Th-231	U	3.39E-001	9.80E-001	1.49E+000
Th-232		6.04E-001	1.26E-001	1.67E-001
PA-234M	U	2.69E-001	1.14E+001	1.77E+001
U-234	U	2.84E+001	1.10E+002	1.49E+002
U-235	U	1.17E-001	9.37E-002	1.52E-001
U-238	U	1.92E+000	1.15E+000	1.96E+000
AM-241	U	-1.75E-001	3.18E-001	3.77E-001

Uncertainty reported at 1.9600 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-42-06-012S
Sample Title: FSS-42-06
Sample Description: FSS-42-06-012S
Detector Name: 25%HPGE
Nuclide Library Used: C:\GENIE2K\CAMFILES\FUSRAP_R4.NLB
Sample Size: 6.747E+002 g
Sample Taken On: 8/16/2010 2:16:00 PM
Acquisition Started: 8/17/2010 9:36:30 PM
Live Time: 1000.0 seconds
Real Time: 1000.3 seconds
Dead Time: 0.03 %
Efficiency ID: 1316-45_04-30-10

Nuclide Name	Qualifier	Nuclide Activity (pCi/g)	Activity Uncert. (pCi/g)	Nuclide MDA (pCi/g)
K-40		1.93E+001	2.89E+000	1.75E+000
CO-60	U	5.01E-002	8.02E-002	1.59E-001
SB-125	U	-7.92E-002	2.38E-001	3.18E-001
CS-137	U	1.89E-002	9.70E-002	1.52E-001
Ra-226		3.40E-001	1.15E-001	2.16E-001
TH-230	U	1.18E+001	2.39E+001	3.29E+001
PA-231	U	-3.39E-001	2.88E+000	4.00E+000
Th-231		1.33E+000	1.28E-001	1.13E+000
Th-232		5.28E-001	7.67E-002	1.94E-001
PA-234M	U	-2.25E+000	1.16E+001	1.70E+001
U-234	U	5.09E+001	1.19E+002	1.64E+002
U-235	U	1.18E-001	9.77E-002	1.58E-001
U-238	U	1.41E+000	1.34E+000	2.16E+000
AM-241	U	2.20E-001	2.94E-001	4.24E-001

Uncertainty reported at 1.9600 sigma

QC Analysis Comparison

Table I-3

FSS Quality Control Accuracy and Precision Comparison										
Isotope	Sample ID CE-FSS-42-06-012				Sample ID CE-FSS-42-06-012S					
	Activity Value (pCi/g)	Uncert.	Resolution	Agreement Range	Activity Value (pCi/g)	Uncert.	Agreement Ratio (Accuracy)	% Deviation (Precision)	Acceptable	Comments
Ra-226	5.47E-01	5.61E-02	10	0.6 - 1.66	3.40E-01	5.87E-02	0.62	23.4	Yes	* Note
Th-232	6.04E-01	6.41E-02	9	0.6 - 1.66	5.28E-01	3.91E-02	0.87	6.7	Yes	N/A
K-40	2.13E+01	1.47E+00	15	0.6 - 1.66	1.93E+01	1.47E+00	0.91	4.9	Yes	N/A
* Note:	Even though the Ra-226 interference corrected activities for the comparison are outside of the % deviation criteria, the activity ranges overlap when the 2 sigma counting uncertainties are considered.						Resolution = Standard Activity Value /Standard Error			
							Resolution		Agreement Range	
							<4		No Comparison	
							4 - 7		0.4 - 2.0	
							8 - 15		0.6 - 1.66	
							16 - 50		0.75 - 1.33	
							51- 200		0.80 - 1.25	
							> 200		0.85 - 1.18	

Prepared/Date: GSM 07/18/11

Checked/Date: HTD 07/18/11

***** 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-42-06-013
Sample Title: FSS-42-06
Sample Description: FSS-42-06-013
Detector Name: 25%HPGE
Nuclide Library Used: C:\GENIE2K\CAMFILES\FUSRAP_R4.NLB
Sample Size: 6.840E+002 g
Sample Taken On: 8/16/2010 2:25:00 PM
Acquisition Started: 8/17/2010 9:55:29 PM
Live Time: 1000.0 seconds
Real Time: 1000.3 seconds
Dead Time: 0.03 %
Efficiency ID: 1316-45_04-30-10

Nuclide Name	Qualifier	Nuclide Activity (pCi/g)	Activity Uncert. (pCi/g)	Nuclide MDA (pCi/g)
K-40		1.92E+001	2.79E+000	1.28E+000
CO-60	U	-6.74E-003	1.09E-001	1.57E-001
SB-125	UI	-6.69E-002	2.35E-001	3.28E-001
CS-137	U	4.23E-003	9.43E-002	1.42E-001
Ra-226		8.43E-001	1.35E-001	2.20E-001
TH-230	U	-5.69E+000	2.90E+001	3.63E+001
PA-231	U	-1.95E+000	3.41E+000	4.38E+000
Th-231		1.43E+000	1.37E+000	1.15E+000
Th-232		1.01E+000	1.99E-001	1.85E-001
PA-234M	U	1.44E+001	1.26E+001	2.35E+001
U-234	U	-3.78E+001	1.37E+002	1.71E+002
U-235		1.32E-001	1.19E-001	1.91E-001
U-238	U	2.17E+000	1.41E+000	2.31E+000
AM-241	U	8.06E-002	3.50E-001	4.66E-001

Uncertainty reported at 1.9600 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-42-06-014
Sample Title: FSS-42-06
Sample Description: FSS-42-06-014
Detector Name: 25%HPGE
Nuclide Library Used: C:\GENIE2K\CAMFILES\FUSRAP_R4.NLB
Sample Size: 7.030E+002 g
Sample Taken On: 8/16/2010 2:20:00 PM
Acquisition Started: 8/17/2010 10:15:40 PM
Live Time: 1000.0 seconds
Real Time: 1000.3 seconds
Dead Time: 0.03 %
Efficiency ID: 1316-45_04-30-10

Nuclide Name	Qualifier	Nuclide Activity (pCi/g)	Activity Uncert. (pCi/g)	Nuclide MDA (pCi/g)
K-40		2.06E+001	2.87E+000	1.35E+000
CO-60	U	8.60E-002	8.69E-002	1.81E-001
SB-125	U	-8.66E-002	2.07E-001	2.80E-001
CS-137	U	5.06E-002	9.26E-002	1.48E-001
Ra-226		7.91E-001	8.29E-002	1.79E-001
TH-230	U	4.25E+000	2.76E+001	3.61E+001
PA-231	UI	2.02E+000	6.37E-001	4.28E+000
Th-231	U	1.05E+000	1.01E+000	1.61E+000
Th-232		1.09E+000	1.69E-001	1.73E-001
PA-234M	U	5.02E+000	8.86E+000	1.63E+001
U-234	U	-3.23E+001	1.32E+002	1.65E+002
U-235		1.47E-001	9.39E-002	1.42E-001
U-238	U	1.49E+000	1.39E+000	2.22E+000
AM-241	U	-2.00E-002	3.36E-001	4.32E-001

Uncertainty reported at 1.9600 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-42-06-015
Sample Title: FSS-42-06
Sample Description: FSS-42-06-015
Detector Name: 25%HPGE
Nuclide Library Used: C:\GENIE2K\CAMFILES\FUSRAP_R4.NLB
Sample Size: 7.810E+002 g
Sample Taken On: 8/16/2010 2:40:00 PM
Acquisition Started: 8/18/2010 7:22:57 AM
Live Time: 1000.0 seconds
Real Time: 1000.3 seconds
Dead Time: 0.03 %
Efficiency ID: 1316-45_04-30-10

Nuclide Name	Qualifier	Nuclide Activity (pCi/g)	Activity Uncert. (pCi/g)	Nuclide MDA (pCi/g)
K-40		1.78E+001	2.55E+000	1.35E+000
CO-60	U	-4.13E-002	1.01E-001	1.38E-001
SB-125	U	5.42E-002	1.85E-001	2.83E-001
CS-137		3.99E-002	5.30E-002	8.94E-002
Ra-226		7.06E-001	1.08E-001	2.16E-001
TH-230	U	6.91E+000	2.56E+001	3.35E+001
PA-231	UI	1.91E+000	1.97E+000	3.23E+000
Th-231		1.76E+000	9.43E-001	1.48E+000
Th-232		9.03E-001	1.53E-001	1.69E-001
PA-234M	U	-6.53E+000	1.23E+001	1.51E+001
U-234	U	2.53E+001	1.10E+002	1.47E+002
U-235		1.14E-001	9.12E-002	1.43E-001
U-238	U	1.35E+000	1.21E+000	1.94E+000
AM-241	U	-5.15E-002	3.13E-001	3.96E-001

Uncertainty reported at 1.9600 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-42-06-016
Sample Title: FSS-42-06
Sample Description: FSS-42-06-016
Detector Name: 25%HPGE
Nuclide Library Used: C:\GENIE2K\CAMFILES\FUSRAP_R4.NLB
Sample Size: 6.713E+002 g
Sample Taken On: 8/16/2010 2:30:00 PM
Acquisition Started: 8/18/2010 7:40:24 AM
Live Time: 1000.0 seconds
Real Time: 1000.3 seconds
Dead Time: 0.03 %
Efficiency ID: 1316-45_04-30-10

Nuclide Name	Qualifier	Nuclide Activity (pCi/g)	Activity Uncert. (pCi/g)	Nuclide MDA (pCi/g)
K-40		2.10E+001	2.96E+000	1.34E+000
CO-60	U	1.63E-002	1.11E-001	1.78E-001
SB-125	U	2.03E-001	1.82E-001	3.34E-001
CS-137	U	-1.71E-002	1.00E-001	1.39E-001
Ra-226		9.20E-001	1.43E-001	2.56E-001
TH-230	U	-5.02E+000	2.87E+001	3.60E+001
PA-231	U	-1.27E+000	3.49E+000	4.68E+000
Th-231	U	1.79E+000	1.10E+000	1.80E+000
Th-232		1.10E+000	1.68E-001	3.33E-001
PA-234M	U	4.46E-001	1.33E+001	2.00E+001
U-234	U	-5.75E+001	1.48E+002	1.76E+002
U-235	U	1.61E-001	1.09E-001	1.78E-001
U-238	U	-3.04E-001	6.22E-001	2.52E+000
AM-241	U	9.10E-003	3.64E-001	4.71E-001

Uncertainty reported at 1.9600 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-42-06-017
Sample Title: FSS-42-06
Sample Description: FSS-42-06-017
Detector Name: 25%HPGE
Nuclide Library Used: C:\GENIE2K\CAMFILES\FUSRAP_R4.NLB
Sample Size: 7.562E+002 g
Sample Taken On: 8/16/2010 2:45:00 PM
Acquisition Started: 8/18/2010 7:57:54 AM
Live Time: 1000.0 seconds
Real Time: 1000.3 seconds
Dead Time: 0.03 %
Efficiency ID: 1316-45_04-30-10

Nuclide Name	Qualifier	Nuclide Activity (pCi/g)	Activity Uncert. (pCi/g)	Nuclide MDA (pCi/g)
K-40		1.91E+001	2.68E+000	1.34E+000
CO-60	U	-5.42E-002	1.09E-001	1.35E-001
SB-125	U	-5.44E-003	2.22E-001	3.21E-001
CS-137	U	1.23E-002	1.07E-001	1.57E-001
Ra-226		7.59E-001	1.17E-001	2.24E-001
TH-230	U	-5.89E+000	2.80E+001	3.49E+001
PA-231	U	-4.71E-001	2.83E+000	3.93E+000
Th-231	UI	5.22E-001	6.58E-001	1.10E+000
Th-232		9.27E-001	1.86E-001	1.68E-001
PA-234M	U	-5.09E+000	1.37E+001	1.65E+001
U-234	U	6.32E+001	1.16E+002	1.61E+002
U-235	U	7.89E-002	9.87E-002	1.51E-001
U-238		1.96E+000	2.23E+000	2.10E+000
AM-241	U	1.33E-001	3.09E-001	4.21E-001

Uncertainty reported at 1.9600 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-42-06-018
Sample Title: FSS-42-06
Sample Description: FSS-42-06-018
Detector Name: 25%HPGE
Nuclide Library Used: C:\GENIE2K\CAMFILES\FUSRAP_R4.NLB
Sample Size: 7.018E+002 g
Sample Taken On: 8/16/2010 2:35:00 PM
Acquisition Started: 8/18/2010 8:15:25 AM
Live Time: 1000.0 seconds
Real Time: 1000.3 seconds
Dead Time: 0.03 %
Efficiency ID: 1316-45_04-30-10

Nuclide Name	Qualifier	Nuclide Activity (pCi/g)	Activity Uncert. (pCi/g)	Nuclide MDA (pCi/g)
K-40		2.28E+001	3.08E+000	1.71E+000
CO-60	U	9.74E-002	1.05E-001	1.97E-001
SB-125	UI	7.33E-002	2.28E-001	3.50E-001
CS-137	U	4.33E-002	1.02E-001	1.60E-001
Ra-226		7.51E-001	1.29E-001	2.11E-001
TH-230	U	6.26E+000	2.63E+001	3.48E+001
PA-231	U	-2.24E+000	3.28E+000	4.00E+000
Th-231	U	2.08E+000	1.02E+000	1.71E+000
Th-232		9.91E-001	1.40E-001	2.37E-001
PA-234M	U	3.07E-001	1.08E+001	1.68E+001
U-234	U	-2.45E+000	1.30E+002	1.65E+002
U-235	U	5.54E-002	1.05E-001	1.56E-001
U-238	U	2.34E+000	1.33E+000	2.22E+000
AM-241	U	2.60E-001	3.10E-001	4.44E-001

Uncertainty reported at 1.9600 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-42-06-019
Sample Title: FSS-42-06
Sample Description: FSS-42-06-019
Detector Name: 25%HPGE
Nuclide Library Used: C:\GENIE2K\CAMFILES\FUSRAP_R4.NLB
Sample Size: 6.802E+002 g
Sample Taken On: 8/16/2010 2:50:00 PM
Acquisition Started: 8/18/2010 8:32:38 AM
Live Time: 1000.0 seconds
Real Time: 1000.3 seconds
Dead Time: 0.03 %
Efficiency ID: 1316-45_04-30-10

Nuclide Name	Qualifier	Nuclide Activity (pCi/g)	Activity Uncert. (pCi/g)	Nuclide MDA (pCi/g)
K-40		2.19E+001	3.04E+000	1.60E+000
CO-60	U	-3.31E-002	1.00E-001	1.27E-001
SB-125	U	-5.53E-002	2.17E-001	3.00E-001
CS-137	U	2.84E-002	9.35E-002	1.50E-001
Ra-226		7.35E-001	1.31E-001	2.47E-001
TH-230	U	-8.18E+000	2.85E+001	3.52E+001
PA-231	U	-4.06E+000	3.36E+000	3.95E+000
Th-231	UI	9.44E-001	1.14E+000	1.89E+000
Th-232		9.64E-001	1.41E-001	1.97E-001
PA-234M	U	9.88E+000	1.08E+001	2.06E+001
U-234	U	-3.66E+000	1.37E+002	1.73E+002
U-235		1.53E-001	9.86E-002	1.50E-001
U-238	U	2.94E+000	1.43E+000	2.39E+000
AM-241	U	-2.02E-002	3.52E-001	4.44E-001

Uncertainty reported at 1.9600 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-42-06-020
Sample Title: FSS-42-06
Sample Description: FSS-42-06-020
Detector Name: 25%HPGE
Nuclide Library Used: C:\GENIE2K\CAMFILES\FUSRAP_R4.NLB
Sample Size: 6.953E+002 g
Sample Taken On: 8/16/2010 3:00:00 PM
Acquisition Started: 8/18/2010 8:50:41 AM
Live Time: 1000.0 seconds
Real Time: 1000.3 seconds
Dead Time: 0.03 %
Efficiency ID: 1316-45_04-30-10

Nuclide Name	Qualifier	Nuclide Activity (pCi/g)	Activity Uncert. (pCi/g)	Nuclide MDA (pCi/g)
K-40		2.14E+001	2.92E+000	1.10E+000
CO-60	U	3.73E-002	1.01E-001	1.72E-001
SB-125	UI	-7.99E-003	2.24E-001	3.23E-001
CS-137	U	-4.90E-002	1.16E-001	1.55E-001
Ra-226		6.64E-001	1.42E-001	2.47E-001
TH-230	U	2.02E+001	2.46E+001	3.50E+001
PA-231	UI	-5.14E-001	2.05E+000	3.97E+000
Th-231		1.21E+000	4.52E-001	1.35E+000
Th-232		7.77E-001	1.40E-001	3.71E-001
PA-234M	U	-3.84E+000	1.35E+001	1.84E+001
U-234	U	1.57E+001	1.19E+002	1.58E+002
U-235	U	1.54E-001	9.72E-002	1.63E-001
U-238	U	8.53E-001	1.31E+000	2.06E+000
AM-241	U	-6.24E-002	3.54E-001	4.45E-001

Uncertainty reported at 1.9600 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-42-06-021
Sample Title: FSS-42-06
Sample Description: FSS-42-06-021
Detector Name: 25%HPGE
Nuclide Library Used: C:\GENIE2K\CAMFILES\FUSRAP_R4.NLB
Sample Size: 5.896E+002 g
Sample Taken On: 8/16/2010 3:10:00 PM
Acquisition Started: 8/18/2010 9:08:35 AM
Live Time: 1000.0 seconds
Real Time: 1000.3 seconds
Dead Time: 0.03 %
Efficiency ID: 1316-45_04-30-10

Nuclide Name	Qualifier	Nuclide Activity (pCi/g)	Activity Uncert. (pCi/g)	Nuclide MDA (pCi/g)
K-40		2.50E+001	3.53E+000	2.11E+000
CO-60	U	-1.16E-001	1.20E-001	2.25E-001
SB-125	U	-3.74E-002	2.50E-001	3.58E-001
CS-137	U	4.73E-002	9.94E-002	1.67E-001
Ra-226		6.42E-001	1.39E-001	2.78E-001
TH-230	U	7.81E+000	3.19E+001	4.23E+001
PA-231	U	-6.94E-001	3.48E+000	4.84E+000
Th-231		1.42E+000	4.98E-001	1.49E+000
Th-232		8.00E-001	1.29E-001	2.83E-001
PA-234M	U	5.18E+000	1.37E+001	2.22E+001
U-234	U	7.31E+001	1.48E+002	2.04E+002
U-235	U	1.08E-001	1.24E-001	1.92E-001
U-238	U	2.75E+000	1.53E+000	2.57E+000
AM-241	U	1.61E-001	3.64E-001	5.03E-001

Uncertainty reported at 1.9600 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-42-06-022
Sample Title: FSS-42-06
Sample Description: FSS-42-06-022
Detector Name: 25%HPGE
Nuclide Library Used: C:\GENIE2K\CAMFILES\FUSRAP_R4.NLB
Sample Size: 6.551E+002 g
Sample Taken On: 8/16/2010 3:05:00 PM
Acquisition Started: 8/18/2010 9:26:10 AM
Live Time: 1000.0 seconds
Real Time: 1000.3 seconds
Dead Time: 0.03 %
Efficiency ID: 1316-45_04-30-10

Nuclide Name	Qualifier	Nuclide Activity (pCi/g)	Activity Uncert. (pCi/g)	Nuclide MDA (pCi/g)
K-40		1.67E+001	2.65E+000	1.31E+000
CO-60	U	5.94E-002	1.02E-001	1.77E-001
SB-125	UI	-7.57E-002	2.63E-001	3.42E-001
CS-137	U	4.02E-003	1.12E-001	1.67E-001
Ra-226		8.82E-001	1.30E-001	1.81E-001
TH-230	U	-1.58E+001	2.94E+001	3.50E+001
PA-231	U	-4.04E+000	3.50E+000	3.99E+000
Th-231		2.01E+000	1.17E+000	1.40E+000
Th-232		1.29E+000	1.66E-001	2.36E-001
PA-234M	U	1.65E+000	1.39E+001	2.13E+001
U-234	U	6.62E+001	1.25E+002	1.75E+002
U-235		1.87E-001	1.17E-001	1.80E-001
U-238	UI	1.72E+000	1.52E+000	2.47E+000
AM-241	U	-2.81E-001	4.22E-001	4.95E-001

Uncertainty reported at 1.9600 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-42-06-023
Sample Title: FSS-42-06
Sample Description: FSS-42-06-023
Detector Name: 25%HPGE
Nuclide Library Used: C:\GENIE2K\CAMFILES\FUSRAP_R4.NLB
Sample Size: 6.718E+002 g
Sample Taken On: 8/16/2010 3:20:00 PM
Acquisition Started: 8/18/2010 9:43:44 AM
Live Time: 1000.0 seconds
Real Time: 1000.3 seconds
Dead Time: 0.03 %
Efficiency ID: 1316-45_04-30-10

Nuclide Name	Qualifier	Nuclide Activity (pCi/g)	Activity Uncert. (pCi/g)	Nuclide MDA (pCi/g)
K-40		2.23E+001	3.11E+000	1.74E+000
CO-60		5.46E-002	6.27E-002	1.00E-001
SB-125	U	-1.38E-001	2.48E-001	3.19E-001
CS-137	U	4.37E-002	9.39E-002	1.47E-001
Ra-226		7.70E-001	1.43E-001	2.89E-001
TH-230	U	-9.35E-001	2.71E+001	3.45E+001
PA-231	U	-1.80E-001	3.42E+000	4.62E+000
Th-231	U	2.61E+000	1.08E+000	1.82E+000
Th-232		8.99E-001	1.37E-001	2.46E-001
PA-234M	U	1.96E+000	1.01E+001	1.65E+001
U-234	U	4.63E+000	1.28E+002	1.68E+002
U-235	U	1.35E-001	1.16E-001	1.83E-001
U-238		1.76E+000	1.31E+000	2.04E+000
AM-241	U	2.65E-001	3.62E-001	5.09E-001

Uncertainty reported at 1.9600 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-42-06-024
Sample Title: FSS-42-06
Sample Description: FSS-42-06-024
Detector Name: 25%HPGE
Nuclide Library Used: C:\GENIE2K\CAMFILES\FUSRAP_R4.NLB
Sample Size: 6.787E+002 g
Sample Taken On: 8/16/2010 3:15:00 PM
Acquisition Started: 8/18/2010 10:01:33 AM
Live Time: 1000.0 seconds
Real Time: 1000.3 seconds
Dead Time: 0.03 %
Efficiency ID: 1316-45_04-30-10

Nuclide Name	Qualifier	Nuclide Activity (pCi/g)	Activity Uncert. (pCi/g)	Nuclide MDA (pCi/g)
K-40		1.97E+001	2.89E+000	1.61E+000
CO-60	U	5.89E-002	8.18E-002	1.64E-001
SB-125	U	8.73E-002	2.24E-001	3.53E-001
CS-137	U	2.03E-002	9.18E-002	1.45E-001
Ra-226		5.71E-001	1.51E-001	2.13E-001
TH-230	U	-1.95E+001	1.32E+001	3.19E+001
PA-231	U	-1.99E+000	2.98E+000	3.53E+000
Th-231		1.85E+000	1.71E+000	1.09E+000
Th-232		8.92E-001	1.39E-001	3.11E-001
PA-234M	U	3.78E+000	1.09E+001	1.84E+001
U-234	U	-7.38E+000	1.15E+002	1.48E+002
U-235	U	1.05E-001	9.62E-002	1.53E-001
U-238	U	1.78E+000	1.32E+000	2.16E+000
AM-241	U	2.66E-001	3.06E-001	4.45E-001

Uncertainty reported at 1.9600 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-42-06-025
Sample Title: FSS-42-06
Sample Description: FSS-42-06-025
Detector Name: 25%HPGE
Nuclide Library Used: C:\GENIE2K\CAMFILES\FUSRAP_R4.NLB
Sample Size: 6.689E+002 g
Sample Taken On: 8/16/2010 3:25:00 PM
Acquisition Started: 8/18/2010 10:21:39 AM
Live Time: 1000.0 seconds
Real Time: 1000.3 seconds
Dead Time: 0.03 %
Efficiency ID: 1316-45_04-30-10

Nuclide Name	Qualifier	Nuclide Activity (pCi/g)	Activity Uncert. (pCi/g)	Nuclide MDA (pCi/g)
K-40		1.88E+001	2.81E+000	1.44E+000
CO-60		3.93E-002	5.24E-002	8.68E-002
SB-125	UI	1.67E-001	2.19E-001	3.63E-001
CS-137	U	3.92E-003	1.03E-001	1.53E-001
Ra-226		7.75E-001	1.29E-001	2.73E-001
TH-230	U	1.65E+001	2.67E+001	3.70E+001
PA-231	U	-2.97E+000	3.15E+000	3.87E+000
Th-231	U	1.44E+000	1.01E+000	1.66E+000
Th-232		1.00E+000	1.72E-001	1.70E-001
PA-234M	U	-8.25E+000	1.60E+001	2.09E+001
U-234	U	-6.60E+001	1.32E+002	1.58E+002
U-235	UI	8.61E-002	9.37E-002	1.56E-001
U-238	U	1.35E+000	1.38E+000	2.21E+000
AM-241	U	-1.42E-002	3.64E-001	4.66E-001

Uncertainty reported at 1.9600 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-42-06-026
 Sample Title: FSS-42-06
 Sample Description: FSS-42-06-026
 Detector Name: 25%HPGE
 Nuclide Library Used: C:\GENIE2K\CAMFILES\FUSRAP_R4.NLB
 Sample Size: 6.393E+002 g
 Sample Taken On: 8/16/2010 3:30:00 PM
 Acquisition Started: 8/18/2010 10:50:29 AM
 Live Time: 1000.0 seconds
 Real Time: 1000.3 seconds
 Dead Time: 0.03 %
 Efficiency ID: 1316-45_04-30-10

Nuclide Name	Qualifier	Nuclide Activity (pCi/g)	Activity Uncert. (pCi/g)	Nuclide MDA (pCi/g)
K-40		2.07E+001	3.02E+000	1.54E+000
CO-60	U	-1.20E-002	1.06E-001	1.53E-001
SB-125	UI	4.61E-002	1.89E-001	3.36E-001
CS-137	U	1.33E-002	1.00E-001	1.49E-001
Ra-226		6.95E-001	1.31E-001	2.48E-001
TH-230	U	-1.83E+001	2.83E+001	3.34E+001
PA-231	U	-3.05E+000	3.42E+000	3.96E+000
Th-231	U	2.16E+000	1.08E+000	1.81E+000
Th-232		1.07E+000	1.82E-001	1.68E-001
PA-234M	U	3.91E+000	1.47E+001	2.27E+001
U-234	U	7.73E+001	1.21E+002	1.71E+002
U-235		7.70E-002	8.93E-002	1.42E-001
U-238		1.28E+000	8.23E-001	2.16E+000
AM-241	U	4.57E-002	3.59E-001	4.73E-001

Uncertainty reported at 1.9600 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-42-06-026LR
Sample Title: FSS-42-06
Sample Description: FSS-42-06-026LR
Detector Name: 25%HPGE
Nuclide Library Used: C:\GENIE2K\CAMFILES\FUSRAP_R4.NLB
Sample Size: 6.393E+002 g
Sample Taken On: 8/16/2010 3:30:00 PM
Acquisition Started: 8/18/2010 12:31:20 PM
Live Time: 1000.0 seconds
Real Time: 1000.3 seconds
Dead Time: 0.03 %
Efficiency ID: 1316-45_04-30-10

Nuclide Name	Qualifier	Nuclide Activity (pCi/g)	Activity Uncert. (pCi/g)	Nuclide MDA (pCi/g)
K-40		2.30E+001	3.20E+000	1.62E+000
CO-60	U	-5.14E-002	1.42E-001	1.87E-001
SB-125	U	-2.09E-001	2.65E-001	3.19E-001
CS-137	U	4.77E-002	8.65E-002	1.49E-001
Ra-226		7.27E-001	1.28E-001	2.29E-001
TH-230	U	-1.76E+001	3.02E+001	3.59E+001
PA-231	U	5.35E-001	2.99E+000	4.40E+000
Th-231	U	2.00E+000	1.01E+000	1.72E+000
Th-232		8.83E-001	1.03E-001	1.85E-001
PA-234M	U	7.43E-002	1.31E+001	1.90E+001
U-234	U	6.63E+000	1.27E+002	1.67E+002
U-235		1.01E-001	1.11E-001	1.80E-001
U-238	U	5.60E-001	1.37E+000	2.11E+000
AM-241	U	7.53E-002	3.50E-001	4.64E-001

Uncertainty reported at 1.9600 sigma

QC Analysis Comparison

Table I-4

FSS Quality Control Accuracy and Precision Comparison										
Isotope	Sample ID CE-FSS-42-06-026				Sample ID CE-FSS-42-06-026LR					
	Activity Value (pCi/g)	Uncert.	Resolution	Agreement Range	Activity Value (pCi/g)	Uncert.	Agreement Ratio (Accuracy)	% Deviation (Precision)	Acceptable	Comments
Ra-226	6.95E-01	6.66E-02	10	0.6 - 1.66	7.27E-01	6.52E-02	1.05	-2.3	Yes	N/A
Th-232	1.07E+00	9.27E-02	12	0.6 - 1.66	8.83E-01	5.28E-02	0.82	9.6	Yes	N/A
K-40	2.07E+01	1.54E+00	13	0.6 - 1.66	2.30E+01	1.63E+00	1.11	-5.2	Yes	N/A
Note:							Resolution = Standard Activity Value /Standard Error			
							Resolution		Agreement Range	
							<4		No Comparison	
							4 - 7		0.4 - 2.0	
							8 - 15		0.6 - 1.66	
							16 - 50		0.75 - 1.33	
							51- 200		0.80 - 1.25	
							> 200		0.85 - 1.18	

Prepared/Date: GSM 07/18/11

Checked/Date: HTD 07/18/11

***** 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-42-06-027
Sample Title: FSS-42-06
Sample Description: FSS-42-06-027
Detector Name: 25%HPGE
Nuclide Library Used: C:\GENIE2K\CAMFILES\FUSRAP_R4.NLB
Sample Size: 7.194E+002 g
Sample Taken On: 8/16/2010 3:35:00 PM
Acquisition Started: 8/18/2010 11:10:03 AM
Live Time: 1000.0 seconds
Real Time: 1000.3 seconds
Dead Time: 0.03 %
Efficiency ID: 1316-45_04-30-10

Nuclide Name	Qualifier	Nuclide Activity (pCi/g)	Activity Uncert. (pCi/g)	Nuclide MDA (pCi/g)
K-40		1.93E+001	2.70E+000	9.79E-001
CO-60	U	-3.81E-002	1.11E-001	1.54E-001
SB-125	UI	-3.13E-003	2.24E-001	3.41E-001
CS-137	U	-4.91E-002	1.03E-001	1.37E-001
Ra-226		7.09E-001	1.31E-001	2.29E-001
TH-230	U	-1.60E+001	2.66E+001	3.12E+001
PA-231	U	-1.04E+000	2.83E+000	3.75E+000
Th-231	U	1.96E+000	9.48E-001	1.60E+000
Th-232		7.79E-001	1.27E-001	2.52E-001
PA-234M	U	-6.08E+000	1.13E+001	1.82E+001
U-234	U	4.48E+000	1.14E+002	1.50E+002
U-235	U	1.31E-001	1.01E-001	1.62E-001
U-238	U	1.70E+000	1.32E+000	2.14E+000
AM-241	U	2.85E-001	2.85E-001	4.22E-001

Uncertainty reported at 1.9600 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-42-06-028
Sample Title: FSS-42-06
Sample Description: FSS-42-06-028
Detector Name: 25%HPGE
Nuclide Library Used: C:\GENIE2K\CAMFILES\FUSRAP_R4.NLB
Sample Size: 7.759E+002 g
Sample Taken On: 8/16/2010 3:40:00 PM
Acquisition Started: 8/18/2010 11:38:21 AM
Live Time: 1000.0 seconds
Real Time: 1000.3 seconds
Dead Time: 0.03 %
Efficiency ID: 1316-45_04-30-10

Nuclide Name	Qualifier	Nuclide Activity (pCi/g)	Activity Uncert. (pCi/g)	Nuclide MDA (pCi/g)
K-40		1.91E+001	2.58E+000	6.63E-001
CO-60	U	-1.65E-002	1.12E-001	1.59E-001
SB-125	U	-1.52E-001	2.19E-001	2.76E-001
CS-137	U	5.05E-002	8.82E-002	1.47E-001
Ra-226		7.62E-001	1.10E-001	1.67E-001
TH-230	U	-1.14E+001	2.60E+001	3.16E+001
PA-231	U	-2.20E+000	3.14E+000	3.86E+000
Th-231	U	1.53E+000	8.97E-001	1.49E+000
Th-232		9.96E-001	1.03E-001	1.73E-001
PA-234M	U	2.45E+000	1.07E+001	1.73E+001
U-234	U	4.38E+001	1.14E+002	1.56E+002
U-235	U	9.75E-002	1.07E-001	1.63E-001
U-238	U	5.29E-001	1.28E+000	1.96E+000
AM-241	U	-3.00E-002	3.16E-001	4.04E-001

Uncertainty reported at 1.9600 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-42-06-029
Sample Title: FSS-42-06
Sample Description: FSS-42-06-029
Detector Name: 25%HPGE
Nuclide Library Used: C:\GENIE2K\CAMFILES\FUSRAP_R4.NLB
Sample Size: 7.765E+002 g
Sample Taken On: 8/16/2010 3:45:00 PM
Acquisition Started: 8/18/2010 11:56:16 AM
Live Time: 1000.0 seconds
Real Time: 1000.3 seconds
Dead Time: 0.03 %
Efficiency ID: 1316-45_04-30-10

Nuclide Name	Qualifier	Nuclide Activity (pCi/g)	Activity Uncert. (pCi/g)	Nuclide MDA (pCi/g)
K-40		1.94E+001	2.58E+000	2.16E-001
CO-60	U	2.46E-002	9.26E-002	1.43E-001
SB-125	U	1.51E-002	2.12E-001	3.12E-001
CS-137	U	5.63E-002	7.38E-002	1.32E-001
Ra-226		5.80E-001	1.04E-001	1.97E-001
TH-230	U	7.00E+000	2.25E+001	2.98E+001
PA-231	U	-1.43E+000	2.71E+000	3.53E+000
Th-231		2.06E+000	1.37E+000	1.14E+000
Th-232		8.62E-001	1.58E-001	1.61E-001
PA-234M	U	1.80E-001	1.05E+001	1.61E+001
U-234	U	-4.87E+001	1.12E+002	1.35E+002
U-235	U	8.51E-002	9.87E-002	1.51E-001
U-238	U	1.09E+000	1.18E+000	1.89E+000
AM-241	U	-1.61E-001	3.44E-001	4.17E-001

Uncertainty reported at 1.9600 sigma