

Introduction

Survey SA0602F was conducted on January 20, 1999 by TODD_CHETE as part of the STALBANS survey. Data was gathered using SRA Surface Contamination Monitor, SCM2. The Position Sensitive Proportional Counter was operating with an efficiency of 71%. The SRA Survey Information Management System was used to provide visual imaging and analysis of the survey data and to generate this report.

Surface Activity Levels

The SCM measures and records activity in 25 cm² areas called pixels. Each square meter contains 400 individual pixels. These pixels can be summed into 100 cm² areas for comparison to release criteria. To evaluate the measured activity levels versus release criteria, consecutive 100 cm² sums are offset by 25 cm² pixels, thus ensuring that all possible 100 cm² combinations of the data are considered.

Total measured activity for SA0602F ranged from 42 to 522 dpm/pixel. 100 cm² data ranged from 42 to 1,740 dpm/100 cm². An interpolated surface plot of the data is provided in Figure 1. A light source is simulated to add definition via shadows to the artifacts in the image.

Square Meter Data

Conventional statistics are provided by SIMS. The survey is divided into meter grids. For each grid the 100 cm² data is analyzed for mean, min, max, and standard deviation. The number of pixels containing data is also reported for each grid. Figure 2 shows the grid pattern, while Table 1 details the statistical data for each grid. Bold text denotes grids which exceed release limits.

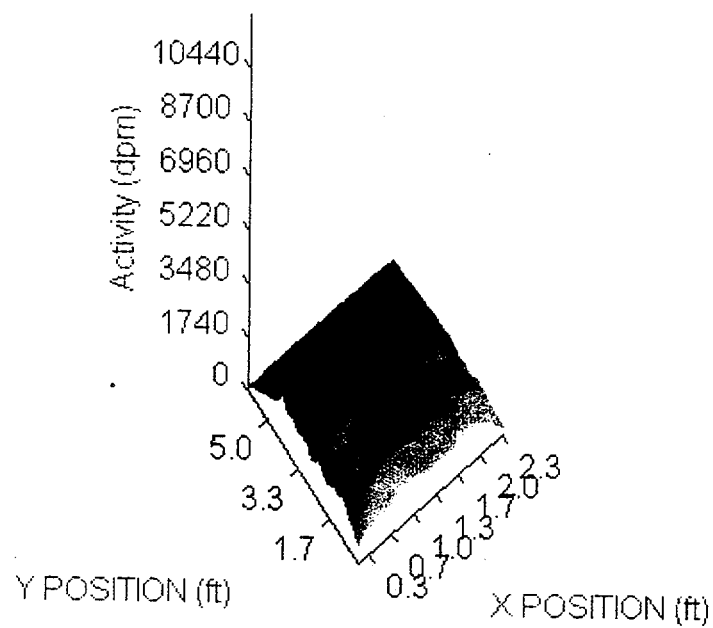


Figure 1 Image plot of surface activity in dpm/25cm²

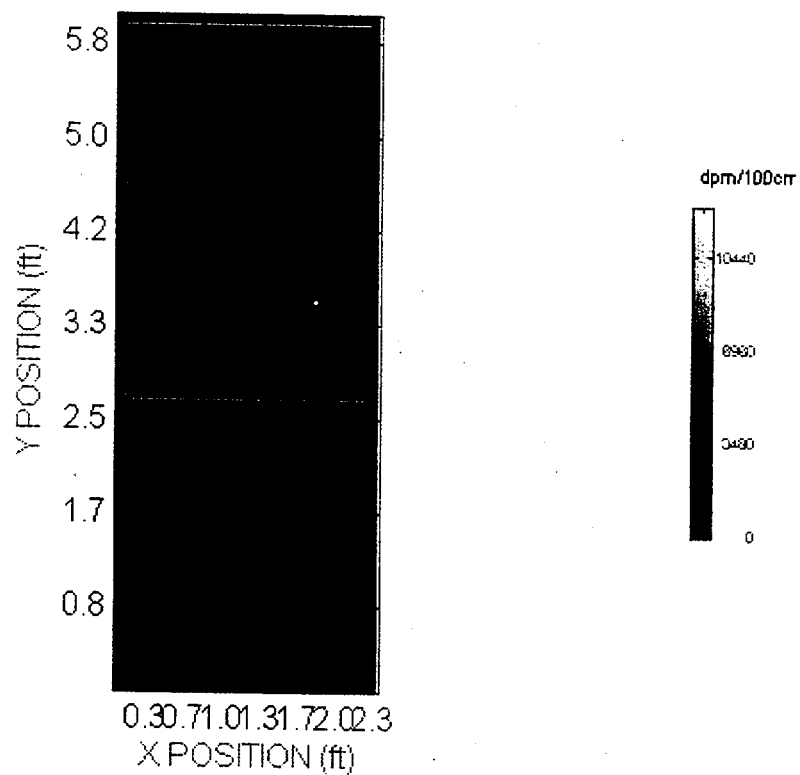


Figure 2 Meter Grid overlaid onto dpm/25cm² image plot

X	Y	Mean	Max	Min	STD	Pixels
1	2	1,134	1,740	221	425.8	280
1	1	1,332	1,739	571	242.7	224

Table 1 dpm/100cm² averaged over one square meter. Grids (1,1) - (1,1) and Grids (1,1) - (1,2) are not one square meter. Bold text denotes grids which exceed release limits

COMPARISON OF RESULTS WITH GUIDELINES

The survey data provided by the SRA Surface Contamination Monitor, serial number SCM2, was compared to the following criteria. The limits for total activity were calculated by adding an observed background of 1058 dpm/100 cm² to the survey criteria.

Criteria

1000 dpm/100 cm², averaged over 1m²
3000 dpm/100 cm², maximum in 100 cm²

Total Activity Limits

2058 dpm/100 cm², averaged over 1m²
4058 dpm/100 cm², maximum in 100 cm²

The survey results indicate that surface activity levels averaged over one square meter were below the site-specific guidelines for release.

The survey results indicate that the maximum surface activity levels in the 100 square centimeter zones were below the site-specific guidelines for release.

Introduction

Survey SA0603E was conducted on January 22, 1999 by TODD_CHETE as part of the STALBANS survey. Data was gathered using SRA Surface Contamination Monitor, SCM2. The Position Sensitive Proportional Counter was operating with an efficiency of 66%. The SRA Survey Information Management System was used to provide visual imaging and analysis of the survey data and to generate this report.

Surface Activity Levels

The SCM measures and records activity in 25 cm² areas called pixels. Each square meter contains 400 individual pixels. These pixels can be summed into 100 cm² areas for comparison to release criteria. To evaluate the measured activity levels versus release criteria, consecutive 100 cm² sums are offset by 25 cm² pixels, thus ensuring that all possible 100 cm² combinations of the data are considered.

Total measured activity for SA0603E ranged from 35 to 360 dpm/pixel. 100 cm² data ranged from 49 to 1,094 dpm/100 cm². An interpolated surface plot of the data is provided in Figure 1. A light source is simulated to add definition via shadows to the artifacts in the image.

Square Meter Data

Conventional statistics are provided by SIMS. The survey is divided into meter grids. For each grid the 100 cm² data is analyzed for mean, min, max, and standard deviation. The number of pixels containing data is also reported for each grid. Figure 2 shows the grid pattern, while Table 1 details the statistical data for each grid. Bold text denotes grids which exceed release limits.

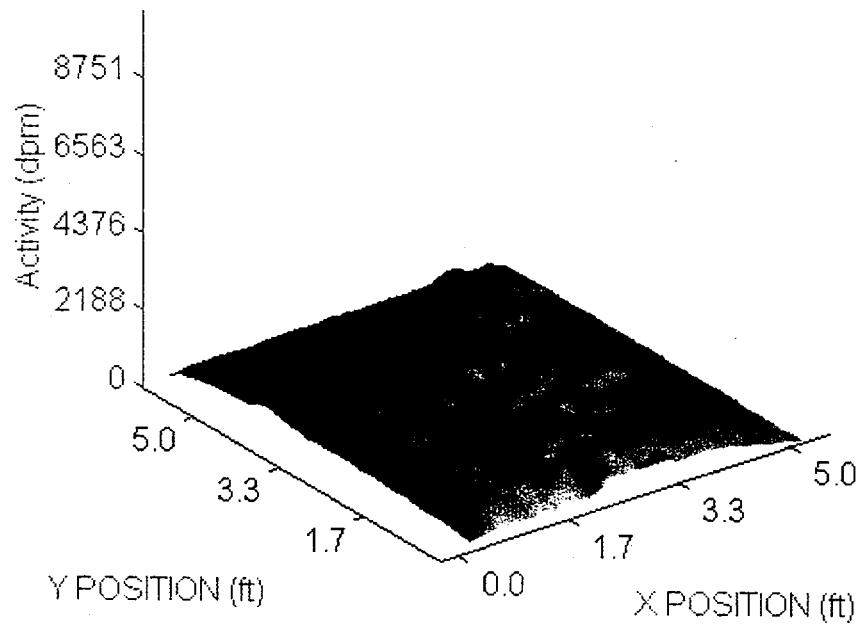


Figure 1 Image plot of surface activity in dpm/25cm²

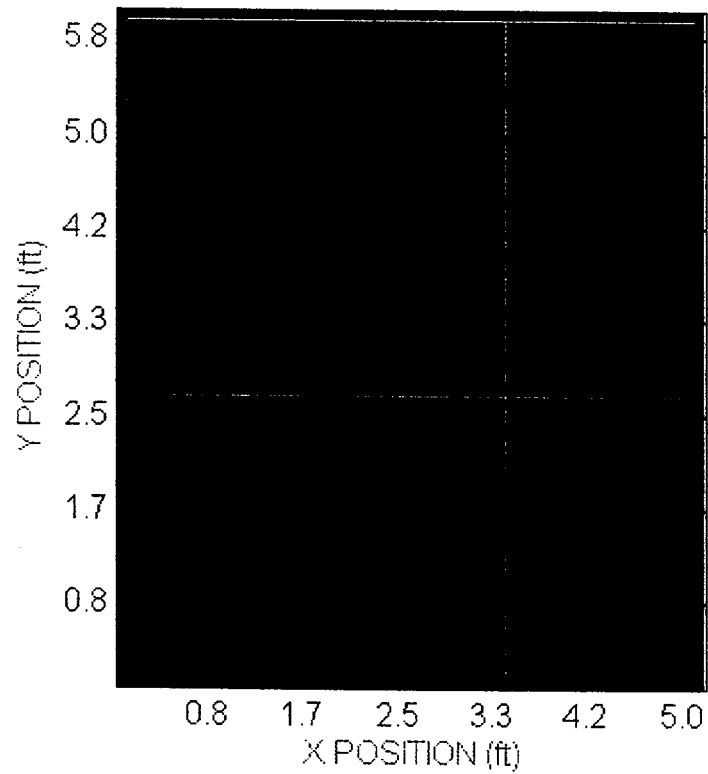


Figure 2 Meter Grid overlaid onto dpm/25cm² image plot

X	Y	Mean	Max	Min	STD	Pixels
1	2	720	1,069	278	139.6	400
2	2	698	1,006	236	167.0	220
1	1	736	1,093	288	147.4	320
2	1	624	940	179	182.3	176

Table 1 dpm/100cm² averaged over one square meter. Grids (1,1) - (2,1) and Grids (2,1) - (2,2) are not one square meter. Bold text denotes grids which exceed release limits

COMPARISON OF RESULTS WITH GUIDELINES

The survey data provided by the SRA Surface Contamination Monitor, serial number SCM2, was compared to the following criteria. The limits for total activity were calculated by adding an observed background of 554 dpm/100 cm² to the survey criteria.

Criteria

1000 dpm/100 cm², averaged over 1m²
3000 dpm/100 cm², maximum in 100 cm²

Total Activity Limits

1554 dpm/100 cm², averaged over 1m²
3554 dpm/100 cm², maximum in 100 cm²

The survey results indicate that surface activity levels averaged over one square meter were below the site-specific guidelines for release.

The survey results indicate that the maximum surface activity levels in the 100 square centimeter zones were below the site-specific guidelines for release.

Introduction

Survey SA0603F was conducted on January 21, 1999 by TODD_CHETE as part of the STALBANS survey. Data was gathered using SRA Surface Contamination Monitor, SCM2. The Position Sensitive Proportional Counter was operating with an efficiency of 71%. The SRA Survey Information Management System was used to provide visual imaging and analysis of the survey data and to generate this report.

Surface Activity Levels

The SCM measures and records activity in 25 cm² areas called pixels. Each square meter contains 400 individual pixels. These pixels can be summed into 100 cm² areas for comparison to release criteria. To evaluate the measured activity levels versus release criteria, consecutive 100 cm² sums are offset by 25 cm² pixels, thus ensuring that all possible 100 cm² combinations of the data are considered.

Total measured activity for SA0603F ranged from 33 to 346 dpm/pixel. 100 cm² data ranged from 33 to 1,014 dpm/100 cm². An interpolated surface plot of the data is provided in Figure 1. A light source is simulated to add definition via shadows to the artifacts in the image.

Square Meter Data

Conventional statistics are provided by SIMS. The survey is divided into meter grids. For each grid the 100 cm² data is analyzed for mean, min, max, and standard deviation. The number of pixels containing data is also reported for each grid. Figure 2 shows the grid pattern, while Table 1 details the statistical data for each grid. Bold text denotes grids which exceed release limits.

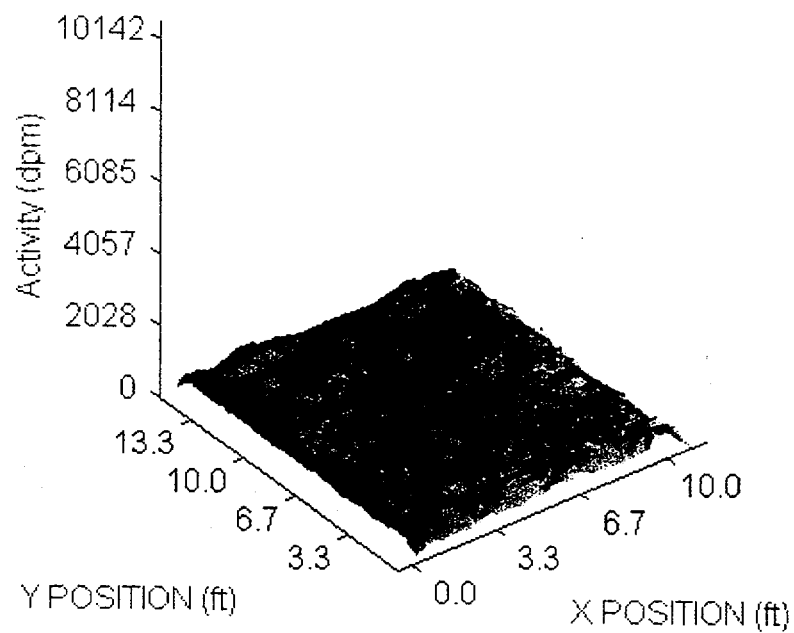


Figure 1 Image plot of surface activity in dpm/25cm²

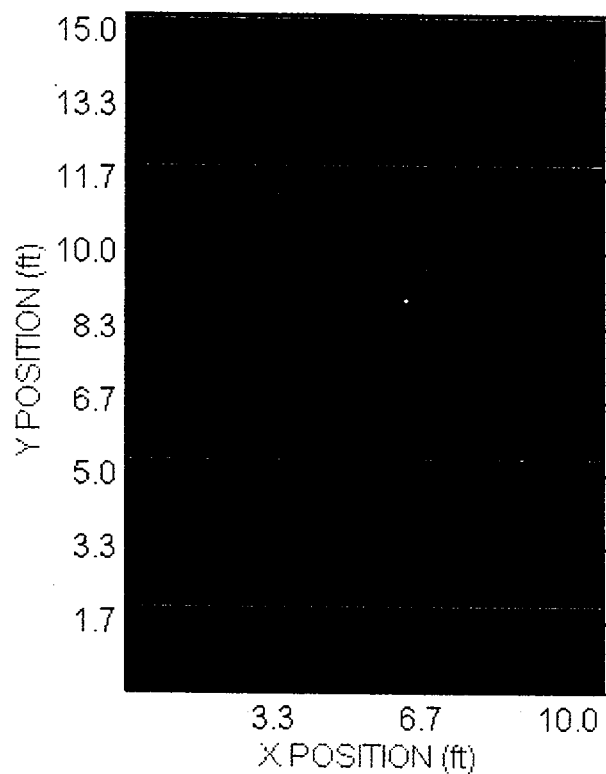


Figure 2 Meter Grid overlaid onto dpm/25cm² image plot

X	Y	Mean	Max	Min	STD	Pixels
1	5	590	801	284	97.8	400
2	5	584	889	223	119.6	400
3	5	575	756	214	109.9	400
4	5	473	810	172	141.4	100
1	4	642	793	360	79.2	400
2	4	622	763	500	57.2	400
3	4	708	946	493	67.2	400
4	4	525	770	319	107.5	100
1	3	577	753	391	58.3	400
2	3	620	748	492	55.4	400
3	3	684	978	528	77.7	400
4	3	438	739	262	116.9	100
1	2	605	754	374	69.2	400
2	2	639	794	505	54.1	400
3	2	615	878	441	70.0	400
4	2	446	600	265	90.9	100
1	1	570	727	236	102.5	240
2	1	634	1,014	374	101.0	240
3	1	632	836	371	89.9	240
4	1	522	744	299	111.4	60

Table 1 dpm/100cm² averaged over one square meter. Grids (1,1) - (4,1) and Grids (4,1) - (4,5) are not one square meter. Bold text denotes grids which exceed release limits

COMPARISON OF RESULTS WITH GUIDELINES

The survey data provided by the SRA Surface Contamination Monitor, serial number SCM2, was compared to the following criteria. The limits for total activity were calculated by adding an observed background of 554 dpm/100 cm² to the survey criteria.

Criteria

1000 dpm/100 cm², averaged over 1m²
3000 dpm/100 cm², maximum in 100 cm²

Total Activity Limits

1554 dpm/100 cm², averaged over 1m²
3554 dpm/100 cm², maximum in 100 cm²

The survey results indicate that surface activity levels averaged over one square meter were below the site-specific guidelines for release.

The survey results indicate that the maximum surface activity levels in the 100 square centimeter zones were below the site-specific guidelines for release.

Introduction

Survey SA0603S was conducted on January 22, 1999 by TODD_CHETE as part of the STALBANS survey. Data was gathered using SRA Surface Contamination Monitor, SCM2. The Position Sensitive Proportional Counter was operating with an efficiency of 66%. The SRA Survey Information Management System was used to provide visual imaging and analysis of the survey data and to generate this report.

Surface Activity Levels

The SCM measures and records activity in 25 cm² areas called pixels. Each square meter contains 400 individual pixels. These pixels can be summed into 100 cm² areas for comparison to release criteria. To evaluate the measured activity levels versus release criteria, consecutive 100 cm² sums are offset by 25 cm² pixels, thus ensuring that all possible 100 cm² combinations of the data are considered.

Total measured activity for SA0603S ranged from 54 to 404 dpm/pixel. 100 cm² data ranged from 58 to 1,254 dpm/100 cm². An interpolated surface plot of the data is provided in Figure 1. A light source is simulated to add definition via shadows to the artifacts in the image.

Square Meter Data

Conventional statistics are provided by SIMS. The survey is divided into meter grids. For each grid the 100 cm² data is analyzed for mean, min, max, and standard deviation. The number of pixels containing data is also reported for each grid. Figure 2 shows the grid pattern, while Table 1 details the statistical data for each grid. Bold text denotes grids which exceed release limits.

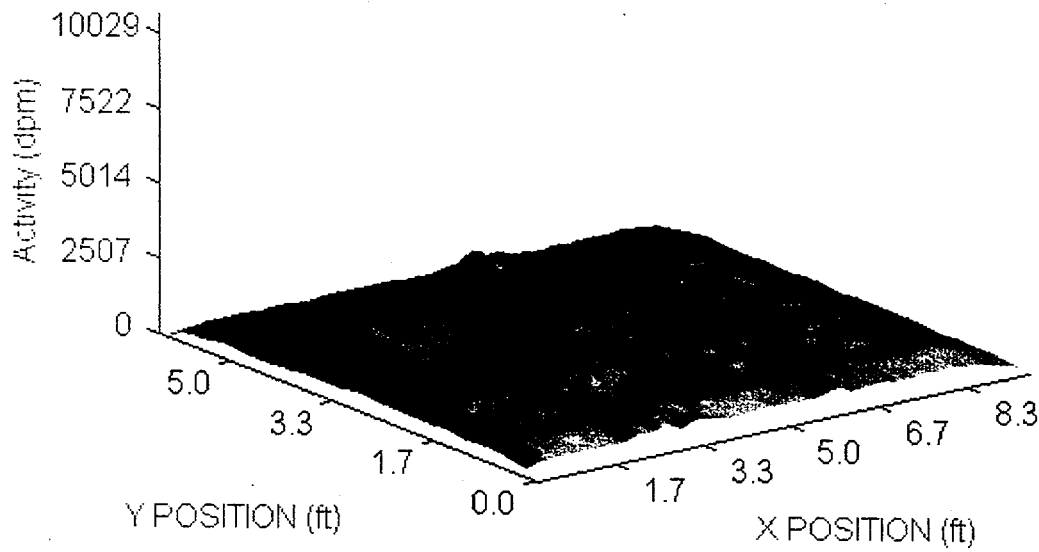


Figure 1 Image plot of surface activity in dpm/25cm²

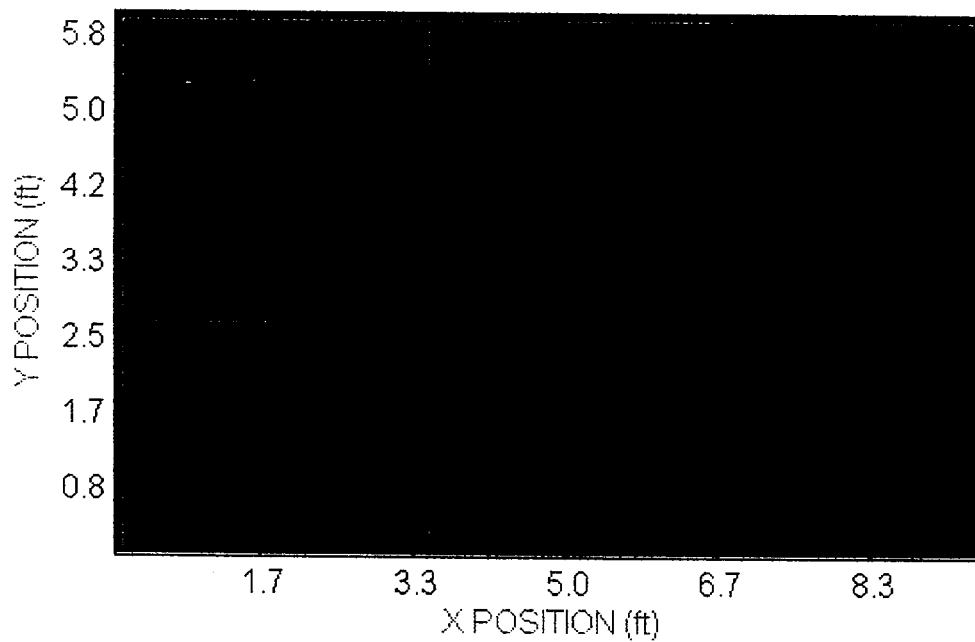


Figure 2 Meter Grid overlaid onto dpm/25cm² image plot

X	Y	Mean	Max	Min	STD	Pixels
1	2	800	1,253	313	182.9	400
2	2	756	1,091	401	102.9	400
3	2	742	960	298	143.0	340
1	1	701	994	330	114.8	320
2	1	736	949	487	79.0	320
3	1	720	939	264	140.3	272

Table 1 dpm/100cm² averaged over one square meter. Grids (1,1) - (3,1) and Grids (3,1) - (3,2) are not one square meter. Bold text denotes grids which exceed release limits

COMPARISON OF RESULTS WITH GUIDELINES

The survey data provided by the SRA Surface Contamination Monitor, serial number SCM2, was compared to the following criteria. The limits for total activity were calculated by adding an observed background of 554 dpm/100 cm² to the survey criteria.

Criteria

1000 dpm/100 cm², averaged over 1m²
3000 dpm/100 cm², maximum in 100 cm²

Total Activity Limits

1554 dpm/100 cm², averaged over 1m²
3554 dpm/100 cm², maximum in 100 cm²

The survey results indicate that surface activity levels averaged over one square meter were below the site-specific guidelines for release.

The survey results indicate that the maximum surface activity levels in the 100 square centimeter zones were below the site-specific guidelines for release.

Introduction

Survey SA0604E was conducted on January 22, 1999 by TODD_CHETE as part of the STALBANS survey. Data was gathered using SRA Surface Contamination Monitor, SCM2. The Position Sensitive Proportional Counter was operating with an efficiency of 66%. The SRA Survey Information Management System was used to provide visual imaging and analysis of the survey data and to generate this report.

Surface Activity Levels

The SCM measures and records activity in 25 cm^2 areas called pixels. Each square meter contains 400 individual pixels. These pixels can be summed into 100 cm^2 areas for comparison to release criteria. To evaluate the measured activity levels versus release criteria, consecutive 100 cm^2 sums are offset by 25 cm^2 pixels, thus ensuring that all possible 100 cm^2 combinations of the data are considered.

Total measured activity for SA0604E ranged from 176 to 848 dpm/pixel. 100 cm^2 data ranged from 176 to 2,972 dpm/ 100 cm^2 . An interpolated surface plot of the data is provided in Figure 1. A light source is simulated to add definition via shadows to the artifacts in the image.

Square Meter Data

Conventional statistics are provided by SIMS. The survey is divided into meter grids. For each grid the 100 cm^2 data is analyzed for mean, min, max, and standard deviation. The number of pixels containing data is also reported for each grid. Figure 2 shows the grid pattern, while Table 1 details the statistical data for each grid. Bold text denotes grids which exceed release limits.

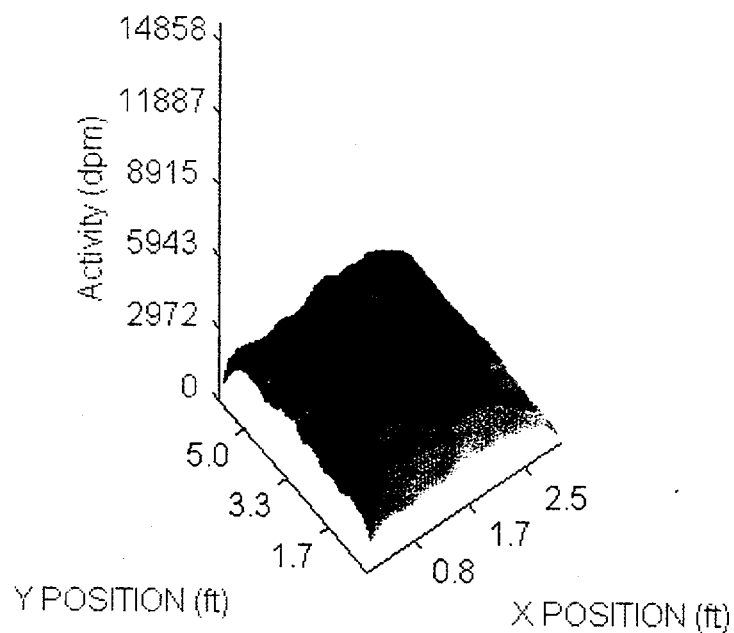


Figure 1 Image plot of surface activity in dpm/25cm²

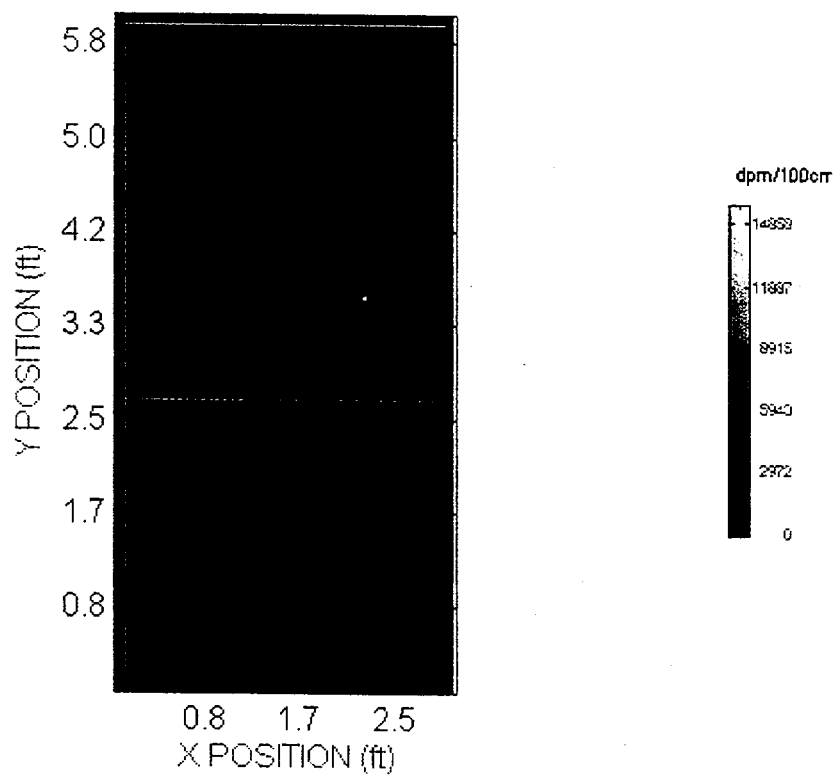


Figure 2 Meter Grid overlaid onto dpm/25cm² image plot

X	Y	Mean	Max	Min	STD	Pixels
1	2	2,373	2,925	1,248	346.6	360
1	1	2,365	2,971	1,137	429.2	288

Table 1 dpm/100cm² averaged over one square meter. Grids (1,1) - (1,1) and Grids (1,1) - (1,2) are not one square meter. Bold text denotes grids which exceed release limits

COMPARISON OF RESULTS WITH GUIDELINES

The survey data provided by the SRA Surface Contamination Monitor, serial number SCM2, was compared to the following criteria. The limits for total activity were calculated by adding an observed background of 2208 dpm/100 cm² to the survey criteria.

Criteria

1000 dpm/100 cm², averaged over 1m²
3000 dpm/100 cm², maximum in 100 cm²

Total Activity Limits

3208 dpm/100 cm², averaged over 1m²
5208 dpm/100 cm², maximum in 100 cm²

The survey results indicate that surface activity levels averaged over one square meter were below the site-specific guidelines for release.

The survey results indicate that the maximum surface activity levels in the 100 square centimeter zones were below the site-specific guidelines for release.

Introduction

Survey SA0604F was conducted on January 21, 1999 by TODD_CHETE as part of the STALBANS survey. Data was gathered using SRA Surface Contamination Monitor, SCM2. The Position Sensitive Proportional Counter was operating with an efficiency of 71%. The SRA Survey Information Management System was used to provide visual imaging and analysis of the survey data and to generate this report.

Surface Activity Levels

The SCM measures and records activity in 25 cm² areas called pixels. Each square meter contains 400 individual pixels. These pixels can be summed into 100 cm² areas for comparison to release criteria. To evaluate the measured activity levels versus release criteria, consecutive 100 cm² sums are offset by 25 cm² pixels, thus ensuring that all possible 100 cm² combinations of the data are considered.

Total measured activity for SA0604F ranged from 0 to 481 dpm/pixel. 100 cm² data ranged from 0 to 1,439 dpm/100 cm². An interpolated surface plot of the data is provided in Figure 1. A light source is simulated to add definition via shadows to the artifacts in the image.

Square Meter Data

Conventional statistics are provided by SIMS. The survey is divided into meter grids. For each grid the 100 cm² data is analyzed for mean, min, max, and standard deviation. The number of pixels containing data is also reported for each grid. Figure 2 shows the grid pattern, while Table 1 details the statistical data for each grid. Bold text denotes grids which exceed release limits.

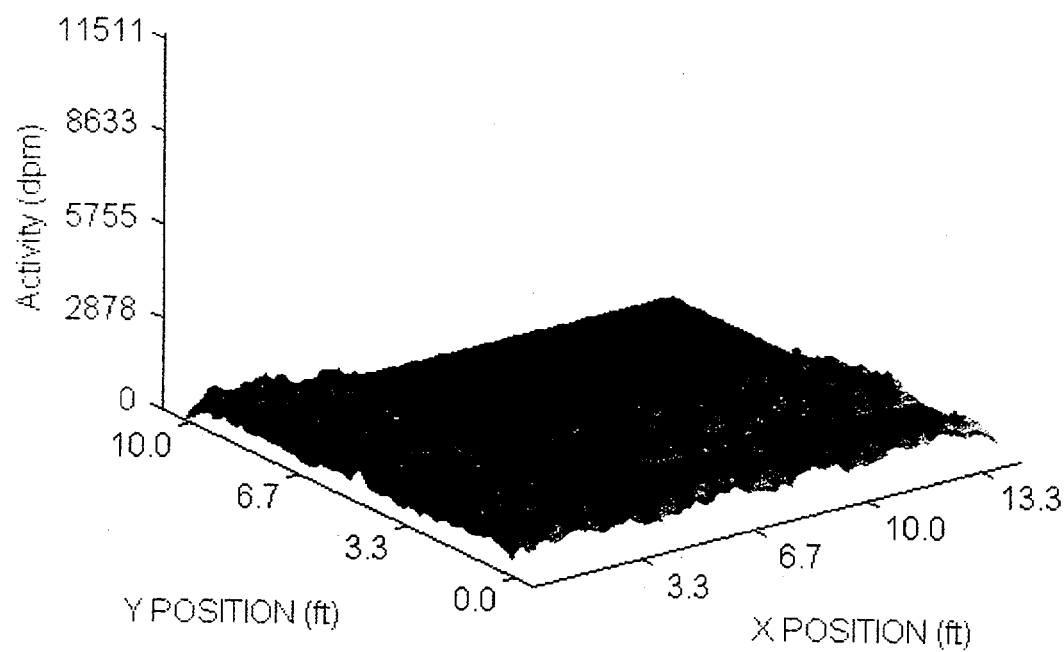


Figure 1 Image plot of surface activity in dpm/25cm²

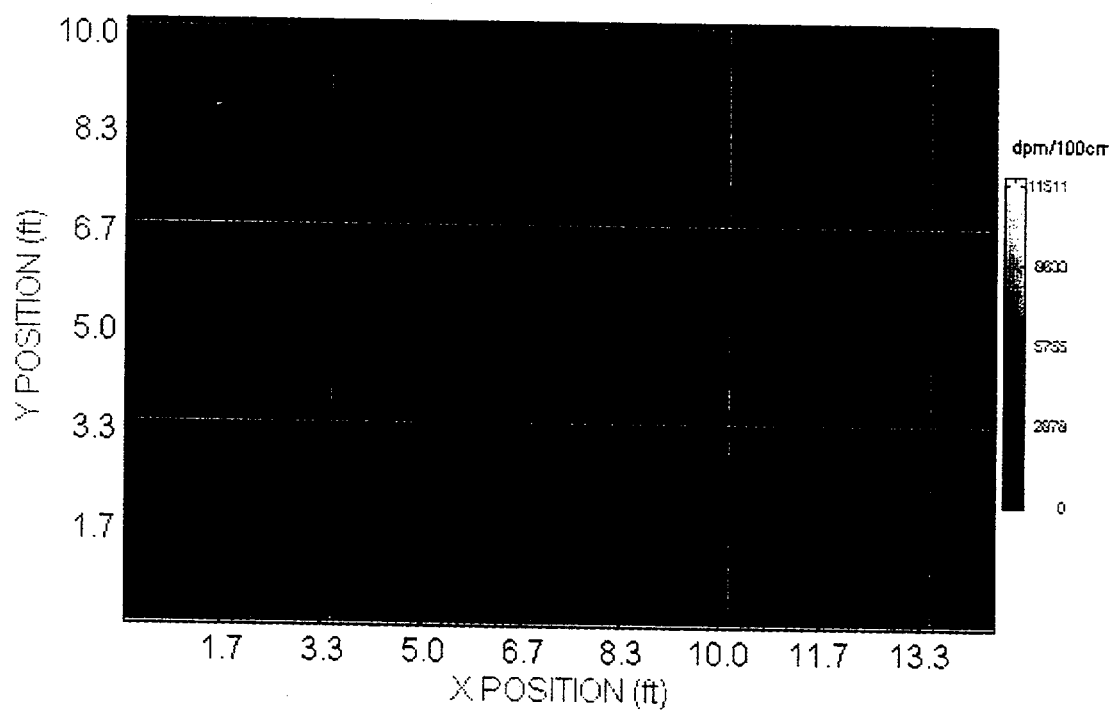


Figure 2 Meter Grid overlaid onto dpm/25cm² image plot

X	Y	Mean	Max	Min	STD	Pixels
1	4	875	1,400	304	194.4	400
2	4	484	1,117	0	307.6	180
3	4	0	0	0	.0	0
4	4	0	0	0	.0	0
5	4	0	0	0	.0	0
1	3	867	1,256	406	124.8	400
2	3	580	1,107	0	305.8	345
3	3	668	1,152	0	410.7	300
4	3	657	1,438	0	410.0	300
5	3	586	1,061	0	367.4	105
1	2	873	1,096	525	106.6	400
2	2	776	1,197	484	100.4	400
3	2	840	1,059	598	76.0	400
4	2	866	1,194	592	75.7	400
5	2	793	1,234	449	150.6	140
1	1	0	0	0	.0	20
2	1	0	0	0	.0	20
3	1	0	0	0	.0	20
4	1	0	0	0	.0	20
5	1	0	0	0	.0	7

Table 1 dpm/100cm² averaged over one square meter. Grids (1,1) - (5,1) and Grids (5,1) - (5,4) are not one square meter. Bold text denotes grids which exceed release limits

COMPARISON OF RESULTS WITH GUIDELINES

The survey data provided by the SRA Surface Contamination Monitor, serial number SCM2, was compared to the following criteria. The limits for total activity were calculated by adding an observed background of 894 dpm/100 cm² to the survey criteria.

Criteria

1000 dpm/100 cm², averaged over 1m²
3000 dpm/100 cm², maximum in 100 cm²

Total Activity Limits

1894 dpm/100 cm², averaged over 1m²
3894 dpm/100 cm², maximum in 100 cm²

The survey results indicate that surface activity levels averaged over one square meter were below the site-specific guidelines for release.

The survey results indicate that the maximum surface activity levels in the 100 square centimeter zones were below the site-specific guidelines for release.

Introduction

Survey SA0604S was conducted on January 22, 1999 by TODD_CHETE as part of the STALBANS survey. Data was gathered using SRA Surface Contamination Monitor, SCM2. The Position Sensitive Proportional Counter was operating with an efficiency of 66%. The SRA Survey Information Management System was used to provide visual imaging and analysis of the survey data and to generate this report.

Surface Activity Levels

The SCM measures and records activity in 25 cm² areas called pixels. Each square meter contains 400 individual pixels. These pixels can be summed into 100 cm² areas for comparison to release criteria. To evaluate the measured activity levels versus release criteria, consecutive 100 cm² sums are offset by 25 cm² pixels, thus ensuring that all possible 100 cm² combinations of the data are considered.

Total measured activity for SA0604S ranged from 154 to 937 dpm/pixel. 100 cm² data ranged from 216 to 3,120 dpm/100 cm². An interpolated surface plot of the data is provided in Figure 1. A light source is simulated to add definition via shadows to the artifacts in the image.

Square Meter Data

Conventional statistics are provided by SIMS. The survey is divided into meter grids. For each grid the 100 cm² data is analyzed for mean, min, max, and standard deviation. The number of pixels containing data is also reported for each grid. Figure 2 shows the grid pattern, while Table 1 details the statistical data for each grid. Bold text denotes grids which exceed release limits.

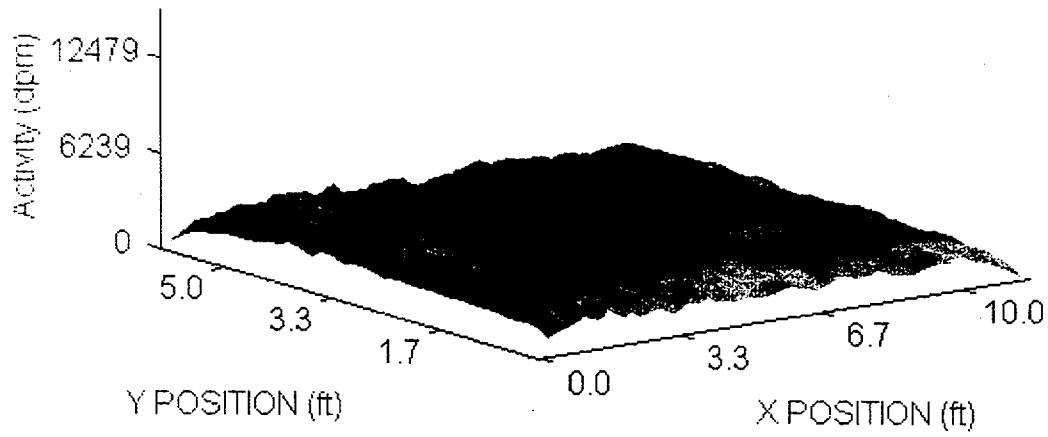


Figure 1 Image plot of surface activity in dpm/25cm²

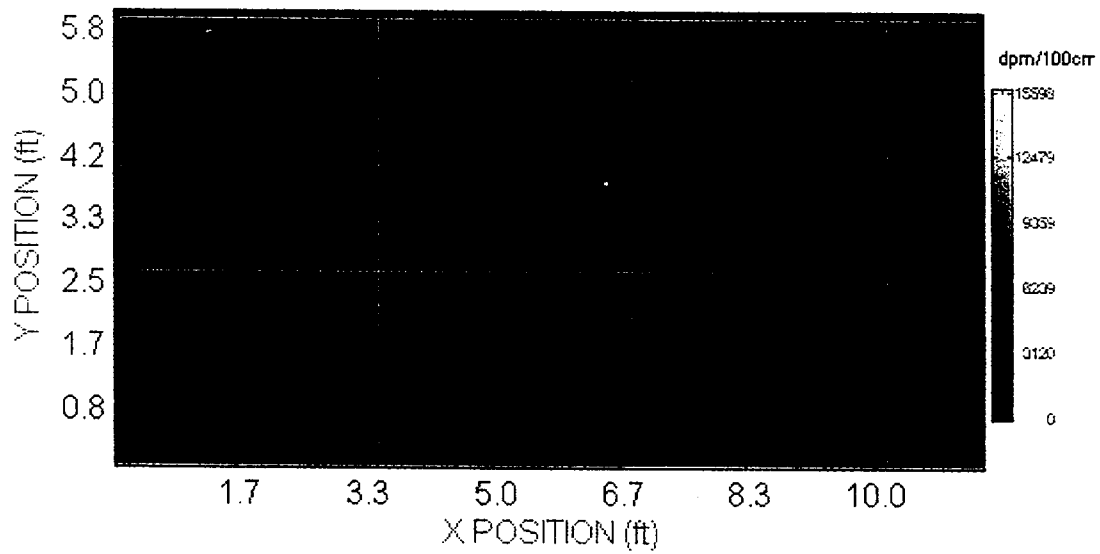


Figure 2 Meter Grid overlaid onto dpm/25cm² image plot

X	Y	Mean	Max	Min	STD	Pixels
1	2	2,618	2,963	1,177	264.6	400
2	2	2,555	3,087	1,571	219.3	400
3	2	2,633	3,119	1,721	197.8	400
4	2	2,256	2,854	1,123	394.8	160
1	1	2,523	2,911	1,308	277.7	320
2	1	2,585	2,942	1,601	274.8	320
3	1	2,498	2,788	1,444	219.4	320
4	1	2,162	2,699	956	424.9	128

Table 1 dpm/100cm² averaged over one square meter. Grids (1,1) - (4,1) and Grids (4,1) - (4,2) are not one square meter. Bold text denotes grids which exceed release limits

COMPARISON OF RESULTS WITH GUIDELINES

The survey data provided by the SRA Surface Contamination Monitor, serial number SCM2, was compared to the following criteria. The limits for total activity were calculated by adding an observed background of 2208 dpm/100 cm² to the survey criteria.

Criteria

1000 dpm/100 cm², averaged over 1m²
3000 dpm/100 cm², maximum in 100 cm²

Total Activity Limits

3208 dpm/100 cm², averaged over 1m²
5208 dpm/100 cm², maximum in 100 cm²

The survey results indicate that surface activity levels averaged over one square meter were below the site-specific guidelines for release.

The survey results indicate that the maximum surface activity levels in the 100 square centimeter zones were below the site-specific guidelines for release.

Introduction

Survey SA0604W was conducted on January 22, 1999 by TODD_CHETE as part of the STALBANS survey. Data was gathered using SRA Surface Contamination Monitor, SCM2. The Position Sensitive Proportional Counter was operating with an efficiency of 66%. The SRA Survey Information Management System was used to provide visual imaging and analysis of the survey data and to generate this report.

Surface Activity Levels

The SCM measures and records activity in 25 cm^2 areas called pixels. Each square meter contains 400 individual pixels. These pixels can be summed into 100 cm^2 areas for comparison to release criteria. To evaluate the measured activity levels versus release criteria, consecutive 100 cm^2 sums are offset by 25 cm^2 pixels, thus ensuring that all possible 100 cm^2 combinations of the data are considered.

Total measured activity for SA0604W ranged from 110 to 1,116 dpm/pixel. 100 cm^2 data ranged from 110 to 3,225 dpm/ 100 cm^2 . An interpolated surface plot of the data is provided in Figure 1. A light source is simulated to add definition via shadows to the artifacts in the image.

Square Meter Data

Conventional statistics are provided by SIMS. The survey is divided into meter grids. For each grid the 100 cm^2 data is analyzed for mean, min, max, and standard deviation. The number of pixels containing data is also reported for each grid. Figure 2 shows the grid pattern, while Table 1 details the statistical data for each grid. Bold text denotes grids which exceed release limits.

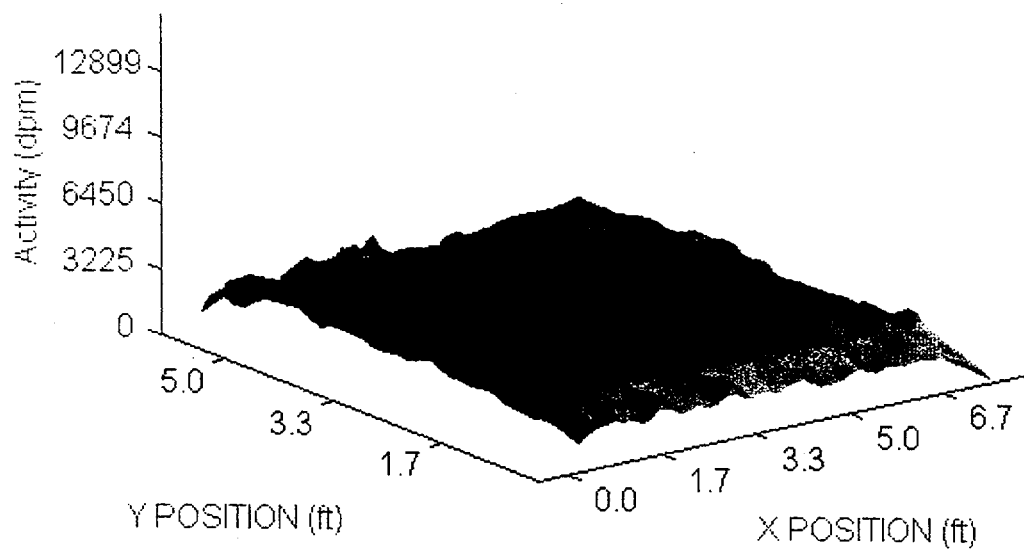


Figure 1 Image plot of surface activity in dpm/25cm²

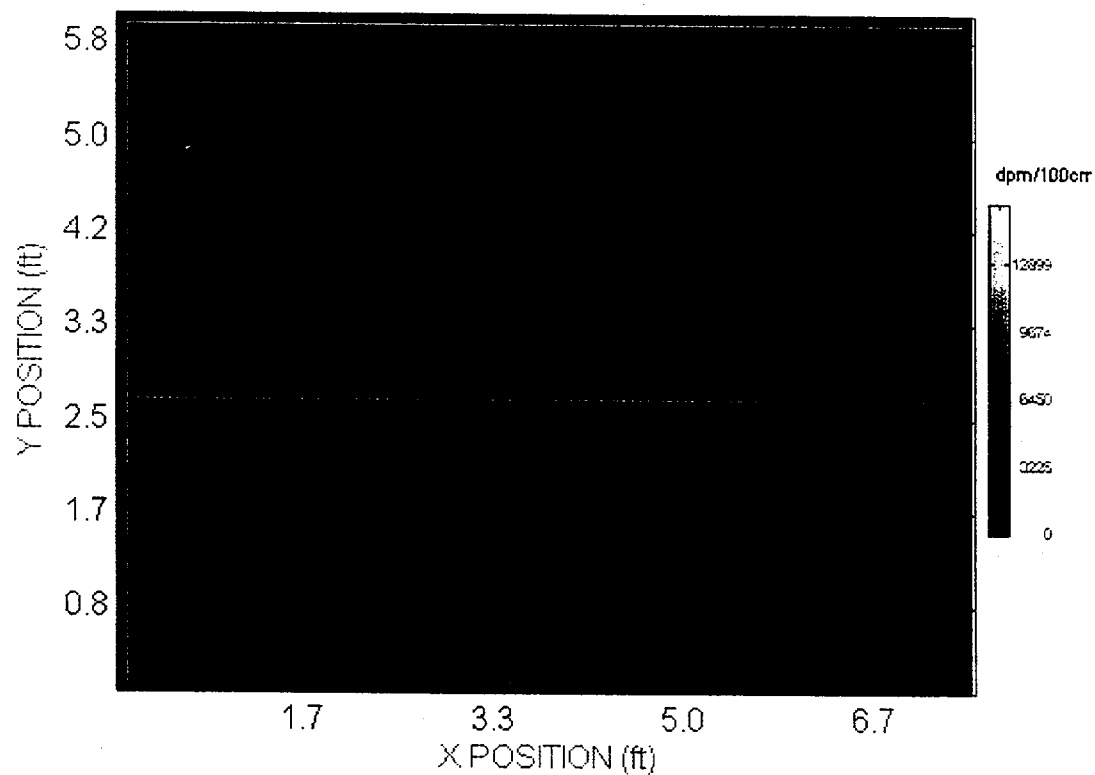


Figure 2 Meter Grid overlaid onto dpm/25cm² image plot

X	Y	Mean	Max	Min	STD	Pixels
1	2	2,675	3,224	1,512	282.3	400
2	2	2,662	3,010	1,514	232.7	400
3	2	1,890	2,541	607	502.4	100
1	1	2,543	2,851	1,422	276.4	320
2	1	2,575	2,891	1,611	263.8	320
3	1	1,893	3,014	720	528.0	80

Table 1 dpm/100cm² averaged over one square meter. Grids (1,1) - (3,1) and Grids (3,1) - (3,2) are not one square meter. Bold text denotes grids which exceed release limits

COMPARISON OF RESULTS WITH GUIDELINES

The survey data provided by the SRA Surface Contamination Monitor, serial number SCM2, was compared to the following criteria. The limits for total activity were calculated by adding an observed background of 2208 dpm/100 cm² to the survey criteria.

Criteria

1000 dpm/100 cm², averaged over 1m²
3000 dpm/100 cm², maximum in 100 cm²

Total Activity Limits

3208 dpm/100 cm², averaged over 1m²
5208 dpm/100 cm², maximum in 100 cm²

The survey results indicate that surface activity levels averaged over one square meter were below the site-specific guidelines for release.

The survey results indicate that the maximum surface activity levels in the 100 square centimeter zones were below the site-specific guidelines for release.

Introduction

Survey SA0605F was conducted on January 23, 1999 by TODD_CHETE as part of the STALBANS survey. Data was gathered using SRA Surface Contamination Monitor, SCM2. The Position Sensitive Proportional Counter was operating with an efficiency of 71%. The SRA Survey Information Management System was used to provide visual imaging and analysis of the survey data and to generate this report.

Surface Activity Levels

The SCM measures and records activity in 25 cm² areas called pixels. Each square meter contains 400 individual pixels. These pixels can be summed into 100 cm² areas for comparison to release criteria. To evaluate the measured activity levels versus release criteria, consecutive 100 cm² sums are offset by 25 cm² pixels, thus ensuring that all possible 100 cm² combinations of the data are considered.

Total measured activity for SA0605F ranged from 0 to 506 dpm/pixel. 100 cm² data ranged from 0 to 1,042 dpm/100 cm². An interpolated surface plot of the data is provided in Figure 1. A light source is simulated to add definition via shadows to the artifacts in the image.

Square Meter Data

Conventional statistics are provided by SIMS. The survey is divided into meter grids. For each grid the 100 cm² data is analyzed for mean, min, max, and standard deviation. The number of pixels containing data is also reported for each grid. Figure 2 shows the grid pattern, while Table 1 details the statistical data for each grid. Bold text denotes grids which exceed release limits.

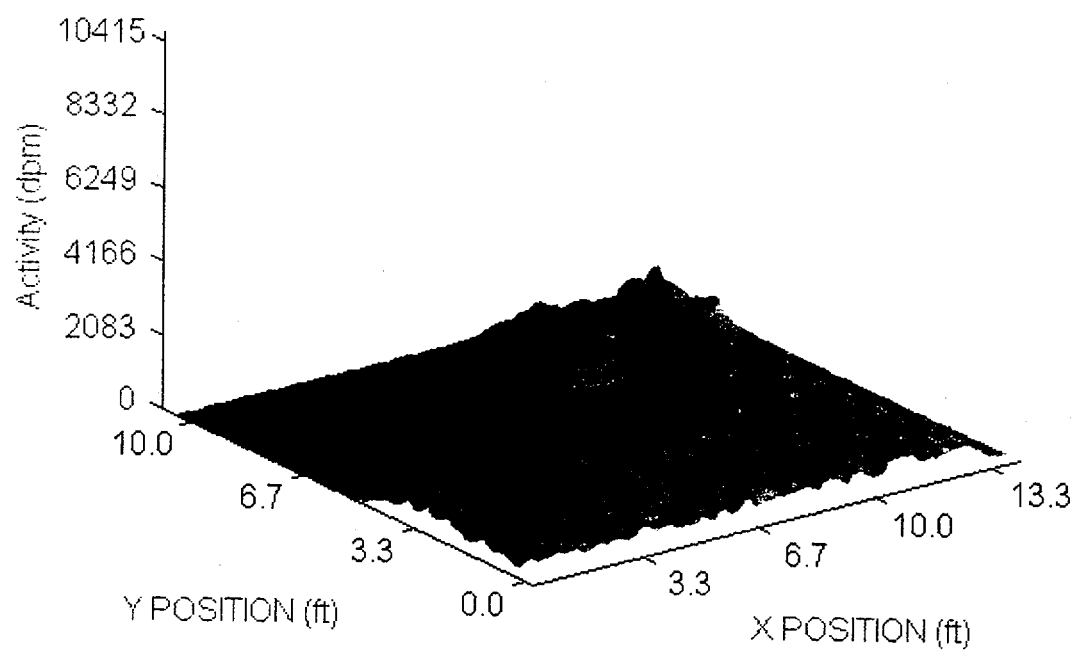


Figure 1 Image plot of surface activity in dpm/25cm²

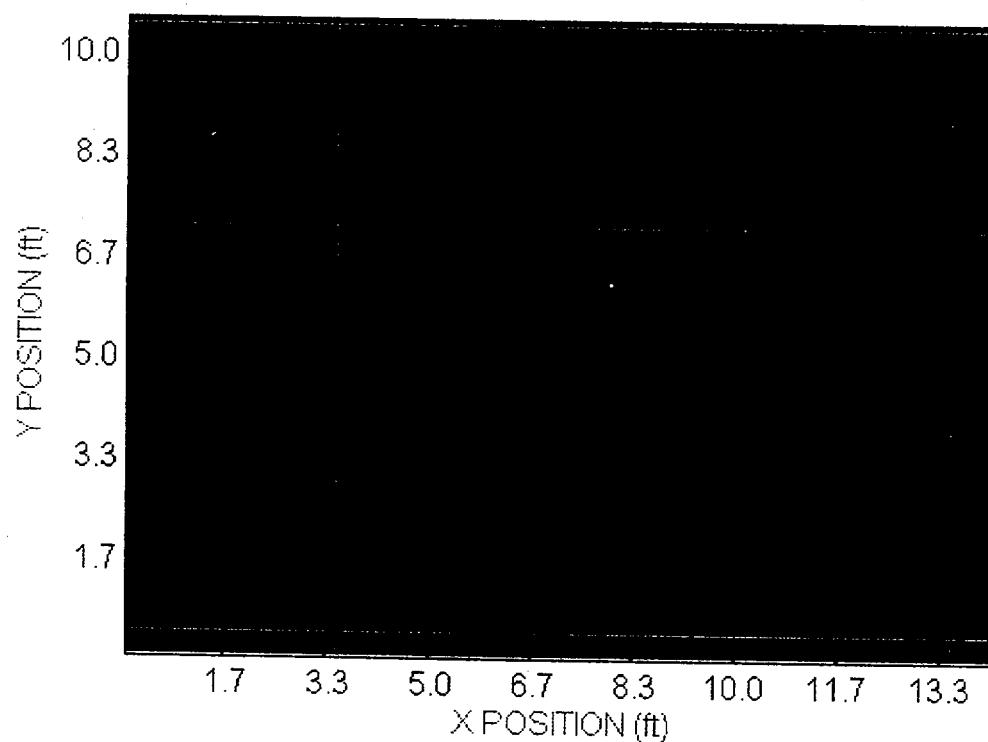


Figure 2 Meter Grid overlaid onto dpm/25cm² image plot

X	Y	Mean	Max	Min	STD	Pixels
1	4	0	0	0	.0	0
2	4	0	0	0	.0	0
3	4	330	672	0	207.8	187
4	4	537	957	0	153.3	391
5	4	459	1,017	40	259.2	97
1	3	247	596	0	166.2	180
2	3	231	671	0	160.1	180
3	3	226	717	0	156.2	180
4	3	413	742	0	185.5	366
5	3	175	365	26	88.4	80
1	2	503	1,021	343	88.3	400
2	2	525	892	296	115.3	400
3	2	546	1,041	281	122.6	400
4	2	542	924	265	108.1	400
5	2	160	344	24	85.1	80
1	1	421	573	300	63.2	60
2	1	407	733	194	106.7	60
3	1	480	643	349	70.7	60
4	1	540	994	313	155.5	60
5	1	165	321	28	106.5	12

Table 1 dpm/100cm² averaged over one square meter. Grids (1,1) - (5,1) and Grids (5,1) - (5,4) are not one square meter. Bold text denotes grids which exceed release limits

COMPARISON OF RESULTS WITH GUIDELINES

The survey data provided by the SRA Surface Contamination Monitor, serial number SCM2, was compared to the following criteria. The limits for total activity were calculated by adding an observed background of 554 dpm/100 cm² to the survey criteria.

Criteria

1000 dpm/100 cm², averaged over 1m²
3000 dpm/100 cm², maximum in 100 cm²

Total Activity Limits

1554 dpm/100 cm², averaged over 1m²
3554 dpm/100 cm², maximum in 100 cm²

The survey results indicate that surface activity levels averaged over one square meter were below the site-specific guidelines for release.

The survey results indicate that the maximum surface activity levels in the 100 square centimeter zones were below the site-specific guidelines for release.

Introduction

Survey SA0701F was conducted on January 19, 1999 by TODD_CHETE as part of the STALBANS survey. Data was gathered using SRA Surface Contamination Monitor, SCM2. The Position Sensitive Proportional Counter was operating with an efficiency of 71%. The SRA Survey Information Management System was used to provide visual imaging and analysis of the survey data and to generate this report.

Surface Activity Levels

The SCM measures and records activity in 25 cm^2 areas called pixels. Each square meter contains 400 individual pixels. These pixels can be summed into 100 cm^2 areas for comparison to release criteria. To evaluate the measured activity levels versus release criteria, consecutive 100 cm^2 sums are offset by 25 cm^2 pixels, thus ensuring that all possible 100 cm^2 combinations of the data are considered.

Total measured activity for SA0701F ranged from 0 to 404 dpm/pixel. 100 cm^2 data ranged from 0 to 1,097 dpm/ 100 cm^2 . An interpolated surface plot of the data is provided in Figure 1. A light source is simulated to add definition via shadows to the artifacts in the image.

Square Meter Data

Conventional statistics are provided by SIMS. The survey is divided into meter grids. For each grid the 100 cm^2 data is analyzed for mean, min, max, and standard deviation. The number of pixels containing data is also reported for each grid. Figure 2 shows the grid pattern, while Table 1 details the statistical data for each grid. Bold text denotes grids which exceed release limits.

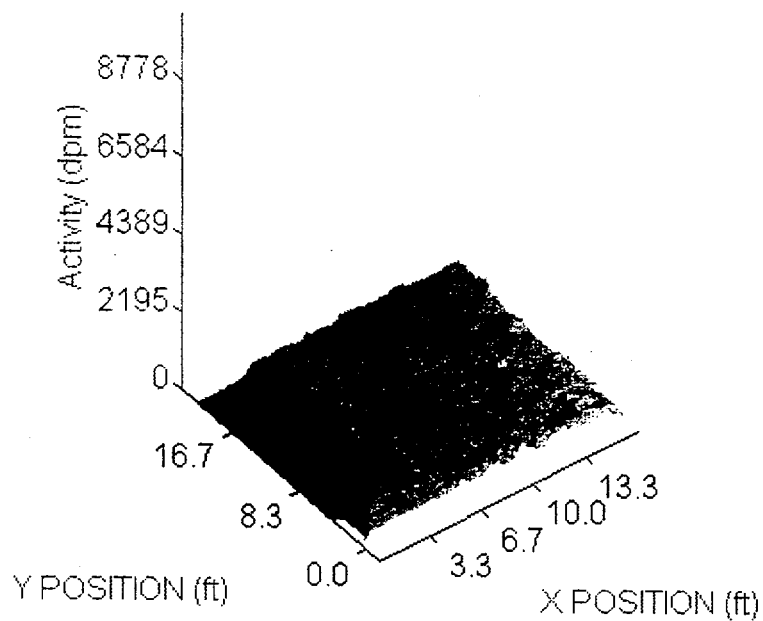


Figure 1 Image plot of surface activity in dpm/25cm²

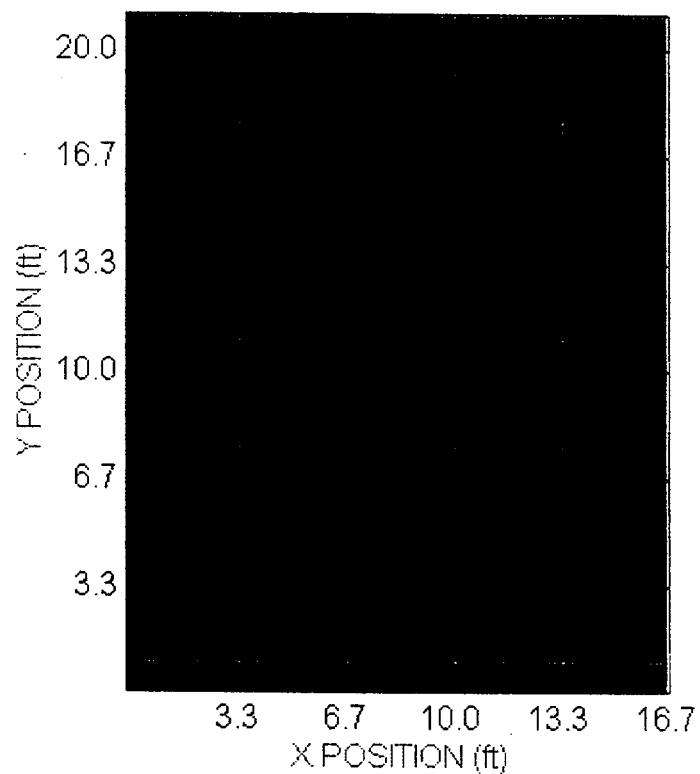


Figure 2 Meter Grid overlaid onto dpm/25cm² image plot

X	Y	Mean	Max	Min	STD	Pixels
1	7	145	277	0	66.7	80
2	7	516	760	274	92.9	400
3	7	550	821	265	93.2	400
4	7	554	772	303	71.5	400
5	7	530	808	157	124.7	400
1	6	133	241	0	59.8	80
2	6	589	899	329	103.8	400
3	6	594	835	413	71.3	400
4	6	639	1,097	419	106.8	400
5	6	607	906	215	92.6	400
1	5	140	221	0	61.8	80
2	5	578	979	293	82.1	400
3	5	603	1,044	362	80.9	400
4	5	583	895	460	76.5	400
5	5	587	822	246	111.9	400
1	4	143	251	0	64.3	80
2	4	594	900	372	89.2	400
3	4	594	930	439	77.5	400
4	4	576	756	448	39.2	400
5	4	559	865	227	120.5	400
1	3	140	238	0	63.5	80
2	3	591	914	339	88.6	400
3	3	594	1,001	371	95.9	400
4	3	581	853	432	61.2	400
5	3	571	852	236	95.2	400
1	2	430	732	19	179.6	400
2	2	553	724	332	52.2	400
3	2	568	849	405	57.9	400
4	2	586	757	411	61.0	400
5	2	568	776	250	94.7	400
1	1	480	581	247	75.7	120
2	1	464	617	349	57.3	120
3	1	529	725	348	83.2	120
4	1	563	933	323	118.3	120
5	1	455	628	203	96.7	120

Table 1 dpm/100cm² averaged over one square meter. Grids (1,1) - (5,1) and Grids (5,1) - (5,7) are not one square meter. Bold text denotes grids which exceed release limits

COMPARISON OF RESULTS WITH GUIDELINES

The survey data provided by the SRA Surface Contamination Monitor, serial number SCM2, was compared to the following criteria. The limits for total activity were calculated by adding an observed background of 554 dpm/100 cm² to the survey criteria.

Criteria

1000 dpm/100 cm², averaged over 1m²
3000 dpm/100 cm², maximum in 100 cm²

Total Activity Limits

1554 dpm/100 cm², averaged over 1m²
3554 dpm/100 cm², maximum in 100 cm²

The survey results indicate that surface activity levels averaged over one square meter were below the site-specific guidelines for release.

The survey results indicate that the maximum surface activity levels in the 100 square centimeter zones were below the site-specific guidelines for release.

Introduction

Survey SA0701N was conducted on January 22, 1999 by TODD_CHETE as part of the STALBANS survey. Data was gathered using SRA Surface Contamination Monitor, SCM2. The Position Sensitive Proportional Counter was operating with an efficiency of 66%. The SRA Survey Information Management System was used to provide visual imaging and analysis of the survey data and to generate this report.

Surface Activity Levels

The SCM measures and records activity in 25 cm² areas called pixels. Each square meter contains 400 individual pixels. These pixels can be summed into 100 cm² areas for comparison to release criteria. To evaluate the measured activity levels versus release criteria, consecutive 100 cm² sums are offset by 25 cm² pixels, thus ensuring that all possible 100 cm² combinations of the data are considered.

Total measured activity for SA0701N ranged from 26 to 961 dpm/pixel. 100 cm² data ranged from 40 to 3,357 dpm/100 cm². An interpolated surface plot of the data is provided in Figure 1. A light source is simulated to add definition via shadows to the artifacts in the image.

Square Meter Data

Conventional statistics are provided by SIMS. The survey is divided into meter grids. For each grid the 100 cm² data is analyzed for mean, min, max, and standard deviation. The number of pixels containing data is also reported for each grid. Figure 2 shows the grid pattern, while Table 1 details the statistical data for each grid. Bold text denotes grids which exceed release limits.

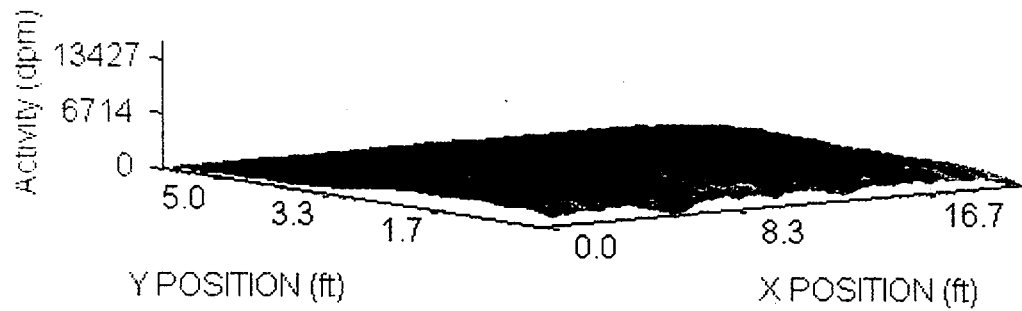


Figure 1 Image plot of surface activity in dpm/25cm²

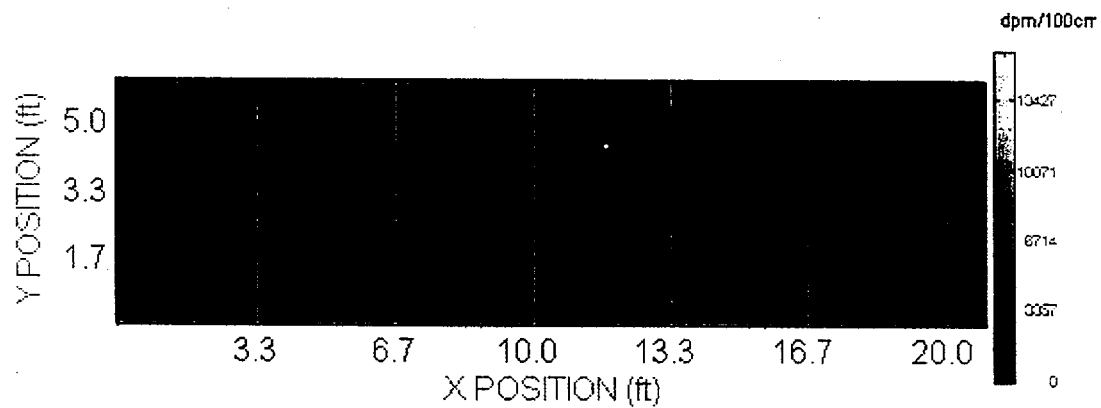


Figure 2 Meter Grid overlaid onto dpm/25cm² image plot

X	Y	Mean	Max	Min	STD	Pixels
1	2	1,299	2,780	166	784.7	400
2	2	1,444	2,731	120	819.5	400
3	2	2,005	2,879	336	732.4	400
4	2	1,689	2,578	384	656.6	400
5	2	929	1,855	287	424.5	400
6	2	1,492	2,679	296	751.8	400
7	2	1,420	2,534	203	696.4	120
1	1	2,257	2,812	1,339	277.3	320
2	1	1,822	2,717	482	772.3	320
3	1	2,380	3,356	1,477	267.1	320
4	1	2,054	2,548	977	432.5	320
5	1	1,894	2,831	774	441.0	320
6	1	2,166	2,604	1,271	261.3	320
7	1	1,582	2,149	610	412.6	96

Table 1 dpm/100cm² averaged over one square meter. Grids (1,1) - (7,1) and Grids (7,1) - (7,2) are not one square meter. Bold text denotes grids which exceed release limits

COMPARISON OF RESULTS WITH GUIDELINES

The survey data provided by the SRA Surface Contamination Monitor, serial number SCM2, was compared to the following criteria. The limits for total activity were calculated by adding an observed background of 2208 dpm/100 cm² to the survey criteria.

Criteria

1000 dpm/100 cm², averaged over 1m²
3000 dpm/100 cm², maximum in 100 cm²

Total Activity Limits

3208 dpm/100 cm², averaged over 1m²
5208 dpm/100 cm², maximum in 100 cm²

The survey results indicate that surface activity levels averaged over one square meter were below the site-specific guidelines for release.

The survey results indicate that the maximum surface activity levels in the 100 square centimeter zones were below the site-specific guidelines for release.

Introduction

Survey SA0701S was conducted on January 22, 1999 by TODD_CHETE as part of the STALBANS survey. Data was gathered using SRA Surface Contamination Monitor, SCM2. The Position Sensitive Proportional Counter was operating with an efficiency of 66%. The SRA Survey Information Management System was used to provide visual imaging and analysis of the survey data and to generate this report.

Surface Activity Levels

The SCM measures and records activity in 25 cm² areas called pixels. Each square meter contains 400 individual pixels. These pixels can be summed into 100 cm² areas for comparison to release criteria. To evaluate the measured activity levels versus release criteria, consecutive 100 cm² sums are offset by 25 cm² pixels, thus ensuring that all possible 100 cm² combinations of the data are considered.

Total measured activity for SA0701S ranged from 0 to 478 dpm/pixel. 100 cm² data ranged from 0 to 1,309 dpm/100 cm². An interpolated surface plot of the data is provided in Figure 1. A light source is simulated to add definition via shadows to the artifacts in the image.

Square Meter Data

Conventional statistics are provided by SIMS. The survey is divided into meter grids. For each grid the 100 cm² data is analyzed for mean, min, max, and standard deviation. The number of pixels containing data is also reported for each grid. Figure 2 shows the grid pattern, while Table 1 details the statistical data for each grid. Bold text denotes grids which exceed release limits.

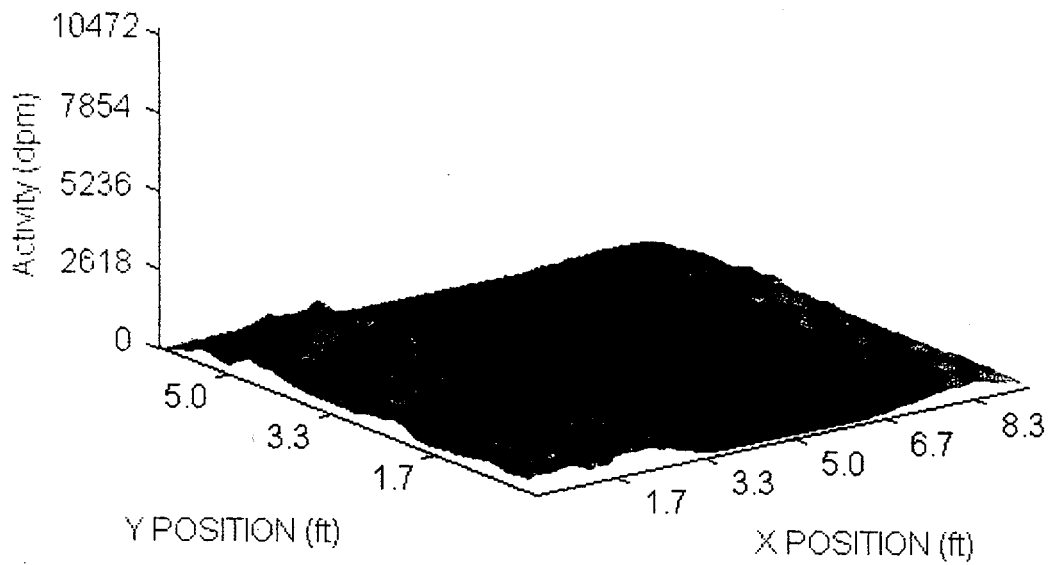


Figure 1 Image plot of surface activity in dpm/25cm²

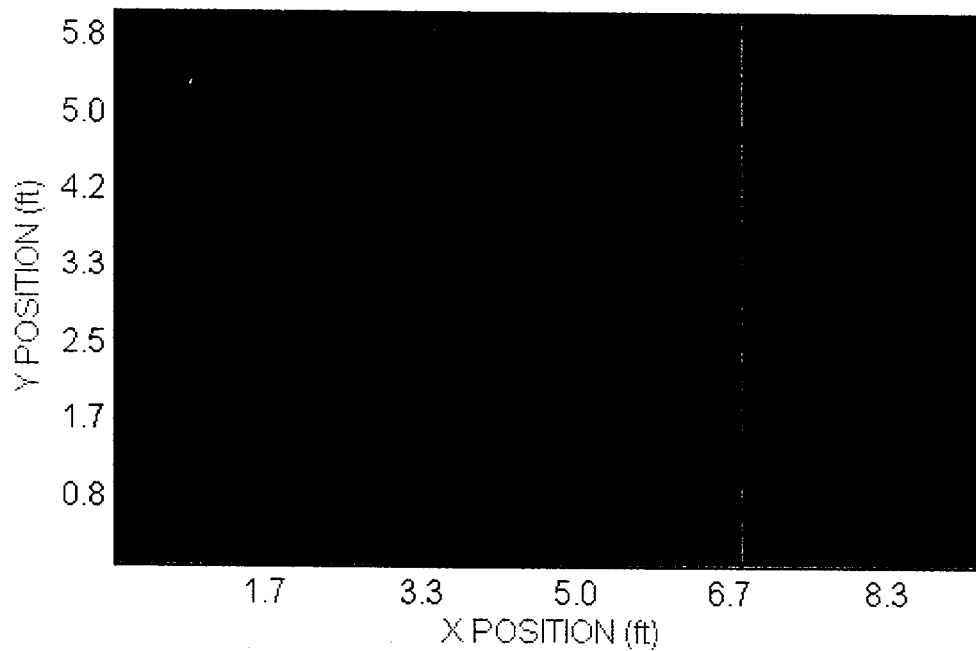


Figure 2 Meter Grid overlaid onto dpm/25cm² image plot

X	Y	Mean	Max	Min	STD	Pixels
1	2	583	1,309	179	156.5	400
2	2	80	128	0	27.0	40
3	2	414	768	33	172.8	320
1	1	605	1,015	247	144.2	320
2	1	74	121	0	25.2	32
3	1	416	869	60	174.2	256

Table 1 dpm/100cm² averaged over one square meter. Grids (1,1) - (3,1) and Grids (3,1) - (3,2) are not one square meter. Bold text denotes grids which exceed release limits

COMPARISON OF RESULTS WITH GUIDELINES

The survey data provided by the SRA Surface Contamination Monitor, serial number SCM2, was compared to the following criteria. The limits for total activity were calculated by adding an observed background of 554 dpm/100 cm² to the survey criteria.

Criteria

1000 dpm/100 cm², averaged over 1m²
3000 dpm/100 cm², maximum in 100 cm²

Total Activity Limits

1554 dpm/100 cm², averaged over 1m²
3554 dpm/100 cm², maximum in 100 cm²

The survey results indicate that surface activity levels averaged over one square meter were below the site-specific guidelines for release.

The survey results indicate that the maximum surface activity levels in the 100 square centimeter zones were below the site-specific guidelines for release.

Introduction

Survey SA0701W was conducted on January 22, 1999 by TODD_CHETE as part of the STALBANS survey. Data was gathered using SRA Surface Contamination Monitor, SCM2. The Position Sensitive Proportional Counter was operating with an efficiency of 66%. The SRA Survey Information Management System was used to provide visual imaging and analysis of the survey data and to generate this report.

Surface Activity Levels

The SCM measures and records activity in 25 cm^2 areas called pixels. Each square meter contains 400 individual pixels. These pixels can be summed into 100 cm^2 areas for comparison to release criteria. To evaluate the measured activity levels versus release criteria, consecutive 100 cm^2 sums are offset by 25 cm^2 pixels, thus ensuring that all possible 100 cm^2 combinations of the data are considered.

Total measured activity for SA0701W ranged from 48 to 607 dpm/pixel. 100 cm^2 data ranged from 90 to 1,596 dpm/ 100 cm^2 . An interpolated surface plot of the data is provided in Figure 1. A light source is simulated to add definition via shadows to the artifacts in the image.

Square Meter Data

Conventional statistics are provided by SIMS. The survey is divided into meter grids. For each grid the 100 cm^2 data is analyzed for mean, min, max, and standard deviation. The number of pixels containing data is also reported for each grid. Figure 2 shows the grid pattern, while Table 1 details the statistical data for each grid. Bold text denotes grids which exceed release limits.

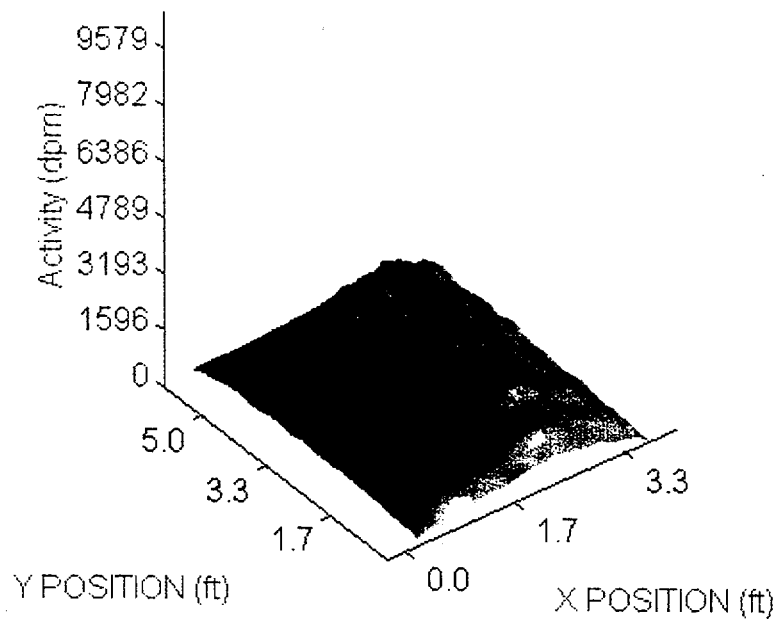


Figure 1 Image plot of surface activity in dpm/25cm²

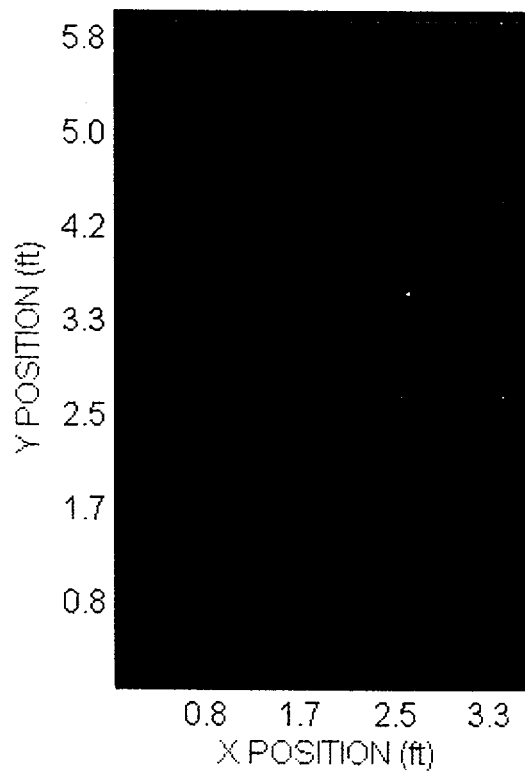


Figure 2 Meter Grid overlaid onto dpm/25cm² image plot

X	Y	Mean	Max	Min	STD	Pixels
1	2	867	1,596	239	254.2	400
2	2	753	0	0	114.3	40
1	1	799	1,302	272	233.3	320
2	1	534	0	0	98.1	32

Table 1 dpm/100cm² averaged over one square meter. Grids (1,1) - (2,1) and Grids (2,1) - (2,2) are not one square meter. Bold text denotes grids which exceed release limits

COMPARISON OF RESULTS WITH GUIDELINES

The survey data provided by the SRA Surface Contamination Monitor, serial number SCM2, was compared to the following criteria. The limits for total activity were calculated by adding an observed background of 554 dpm/100 cm² to the survey criteria.

Criteria

1000 dpm/100 cm², averaged over 1m²
3000 dpm/100 cm², maximum in 100 cm²

Total Activity Limits

1554 dpm/100 cm², averaged over 1m²
3554 dpm/100 cm², maximum in 100 cm²

The survey results indicate that surface activity levels averaged over one square meter were below the site-specific guidelines for release.

The survey results indicate that the maximum surface activity levels in the 100 square centimeter zones were below the site-specific guidelines for release.

Introduction

Survey SA0702F was conducted on January 19, 1999 by TODD_CHETE as part of the STALBANS survey. Data was gathered using SRA Surface Contamination Monitor, SCM2. The Position Sensitive Proportional Counter was operating with an efficiency of 71%. The SRA Survey Information Management System was used to provide visual imaging and analysis of the survey data and to generate this report.

Surface Activity Levels

The SCM measures and records activity in 25 cm^2 areas called pixels. Each square meter contains 400 individual pixels. These pixels can be summed into 100 cm^2 areas for comparison to release criteria. To evaluate the measured activity levels versus release criteria, consecutive 100 cm^2 sums are offset by 25 cm^2 pixels, thus ensuring that all possible 100 cm^2 combinations of the data are considered.

Total measured activity for SA0702F ranged from 0 to 445 dpm/pixel. 100 cm^2 data ranged from 0 to 1,010 dpm/ 100 cm^2 . An interpolated surface plot of the data is provided in Figure 1. A light source is simulated to add definition via shadows to the artifacts in the image.

Square Meter Data

Conventional statistics are provided by SIMS. The survey is divided into meter grids. For each grid the 100 cm^2 data is analyzed for mean, min, max, and standard deviation. The number of pixels containing data is also reported for each grid. Figure 2 shows the grid pattern, while Table 1 details the statistical data for each grid. Bold text denotes grids which exceed release limits.



Figure 1 Image plot of surface activity in dpm/25cm²

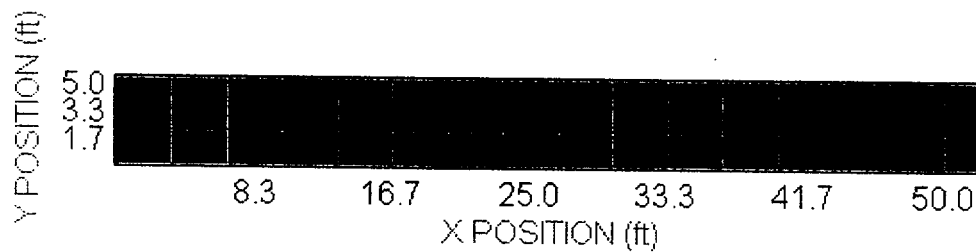


Figure 2 Meter Grid overlaid onto dpm/25cm² image plot

X	Y	Mean	Max	Min	STD	Pixels
1	2	622	977	317	106.7	400
2	2	598	919	331	82.5	400
3	2	594	868	309	92.3	400
4	2	589	854	230	113.9	400
5	2	577	869	286	95.6	400
6	2	475	971	0	196.5	355
7	2	508	881	0	207.0	340
8	2	487	705	0	208.6	340
9	2	494	887	0	226.9	340
10	2	497	919	0	222.4	364
11	2	639	943	330	97.9	400
12	2	613	783	288	98.5	400
13	2	611	990	324	90.1	400
14	2	584	795	241	91.2	400
15	2	620	847	287	78.1	400
16	2	508	630	196	98.7	300
1	1	567	791	276	88.3	260
2	1	605	789	366	71.5	260
3	1	619	879	358	63.4	260
4	1	625	783	333	83.5	260
5	1	563	670	301	76.4	260
6	1	150	317	0	79.6	63
7	1	0	0	0	.0	0
8	1	0	0	0	.0	0
9	1	0	0	0	.0	0
10	1	242	511	0	146.1	104
11	1	641	1,009	343	123.2	260
12	1	633	1,000	399	93.7	260
13	1	600	851	328	99.6	260
14	1	525	752	316	65.1	260
15	1	566	904	363	88.1	260
16	1	558	687	228	100.0	195

Table 1 dpm/100cm² averaged over one square meter. Grids (1,1) - (16,1) and Grids (16,1) - (16,2) are not one square meter. Bold text denotes grids which exceed release limits

COMPARISON OF RESULTS WITH GUIDELINES

The survey data provided by the SRA Surface Contamination Monitor, serial number SCM2, was compared to the following criteria. The limits for total activity were calculated by adding an observed background of 554 dpm/100 cm² to the survey criteria.

Criteria

1000 dpm/100 cm², averaged over 1m²
3000 dpm/100 cm², maximum in 100 cm²

Total Activity Limits

1554 dpm/100 cm², averaged over 1m²
3554 dpm/100 cm², maximum in 100 cm²

The survey results indicate that surface activity levels averaged over one square meter were below the site-specific guidelines for release.

The survey results indicate that the maximum surface activity levels in the 100 square centimeter zones were below the site-specific guidelines for release.

Introduction

Survey SA0702N was conducted on January 22, 1999 by TODD_CHETE as part of the STALBANS survey. Data was gathered using SRA Surface Contamination Monitor, SCM2. The Position Sensitive Proportional Counter was operating with an efficiency of 66%. The SRA Survey Information Management System was used to provide visual imaging and analysis of the survey data and to generate this report.

Surface Activity Levels

The SCM measures and records activity in 25 cm² areas called pixels. Each square meter contains 400 individual pixels. These pixels can be summed into 100 cm² areas for comparison to release criteria. To evaluate the measured activity levels versus release criteria, consecutive 100 cm² sums are offset by 25 cm² pixels, thus ensuring that all possible 100 cm² combinations of the data are considered.

Total measured activity for SA0702N ranged from 0 to 1,117 dpm/pixel. 100 cm² data ranged from 0 to 3,186 dpm/100 cm². An interpolated surface plot of the data is provided in Figure 1. A light source is simulated to add definition via shadows to the artifacts in the image.

Square Meter Data

Conventional statistics are provided by SIMS. The survey is divided into meter grids. For each grid the 100 cm² data is analyzed for mean, min, max, and standard deviation. The number of pixels containing data is also reported for each grid. Figure 2 shows the grid pattern, while Table 1 details the statistical data for each grid. Bold text denotes grids which exceed release limits.

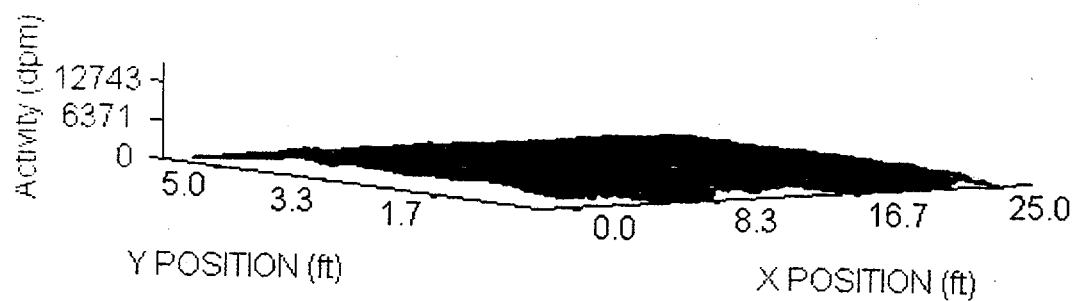


Figure 1 Image plot of surface activity in dpm/25cm²

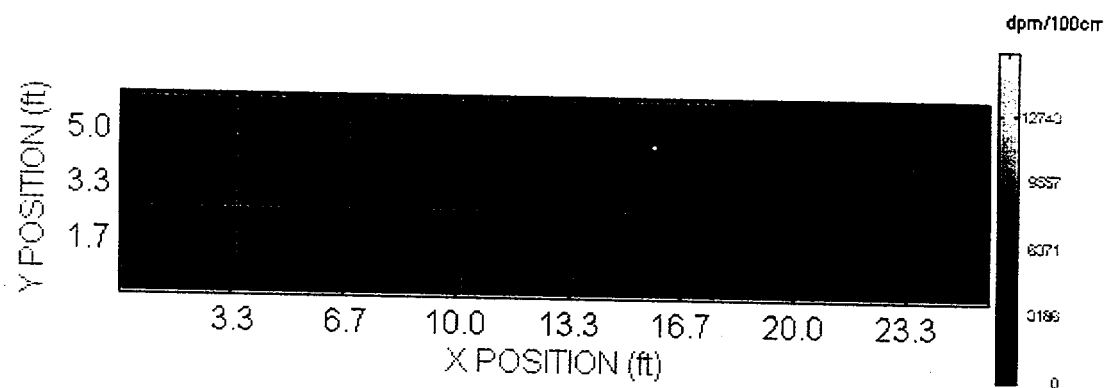


Figure 2 Meter Grid overlaid onto dpm/25cm² image plot

X	Y	Mean	Max	Min	STD	Pixels
1	2	1,931	3,108	336	735.7	400
2	2	1,625	2,850	0	1040.9	300
3	2	1,296	3,006	0	932.7	220
4	2	1,674	2,855	433	633.2	400
5	2	1,589	2,522	74	756.6	400
6	2	0	0	0	.0	0
7	2	612	1,702	0	397.8	140
8	2	1,363	2,412	128	696.8	280
1	1	2,295	2,780	1,180	291.0	320
2	1	1,924	3,185	0	1095.1	240
3	1	1,490	2,730	0	992.0	176
4	1	1,870	2,815	842	418.1	320
5	1	1,769	2,558	261	577.0	320
6	1	0	0	0	.0	0
7	1	837	2,068	0	541.2	112
8	1	1,638	2,846	240	696.9	224

Table 1 dpm/100cm² averaged over one square meter. Grids (1,1) - (8,1) and Grids (8,1) - (8,2) are not one square meter. Bold text denotes grids which exceed release limits

COMPARISON OF RESULTS WITH GUIDELINES

The survey data provided by the SRA Surface Contamination Monitor, serial number SCM2, was compared to the following criteria. The limits for total activity were calculated by adding an observed background of 2208 dpm/100 cm² to the survey criteria.

Criteria

1000 dpm/100 cm², averaged over 1m²
3000 dpm/100 cm², maximum in 100 cm²

Total Activity Limits

3208 dpm/100 cm², averaged over 1m²
5208 dpm/100 cm², maximum in 100 cm²

The survey results indicate that surface activity levels averaged over one square meter were below the site-specific guidelines for release.

The survey results indicate that the maximum surface activity levels in the 100 square centimeter zones were below the site-specific guidelines for release.

Introduction

Survey SA0702S was conducted on January 22, 1999 by TODD_CHETE as part of the STALBANS survey. Data was gathered using SRA Surface Contamination Monitor, SCM2. The Position Sensitive Proportional Counter was operating with an efficiency of 66%. The SRA Survey Information Management System was used to provide visual imaging and analysis of the survey data and to generate this report.

Surface Activity Levels

The SCM measures and records activity in 25 cm^2 areas called pixels. Each square meter contains 400 individual pixels. These pixels can be summed into 100 cm^2 areas for comparison to release criteria. To evaluate the measured activity levels versus release criteria, consecutive 100 cm^2 sums are offset by 25 cm^2 pixels, thus ensuring that all possible 100 cm^2 combinations of the data are considered.

Total measured activity for SA0702S ranged from 0 to 391 dpm/pixel. 100 cm^2 data ranged from 0 to 981 dpm/ 100 cm^2 . An interpolated surface plot of the data is provided in Figure 1. A light source is simulated to add definition via shadows to the artifacts in the image.

Square Meter Data

Conventional statistics are provided by SIMS. The survey is divided into meter grids. For each grid the 100 cm^2 data is analyzed for mean, min, max, and standard deviation. The number of pixels containing data is also reported for each grid. Figure 2 shows the grid pattern, while Table 1 details the statistical data for each grid. Bold text denotes grids which exceed release limits.

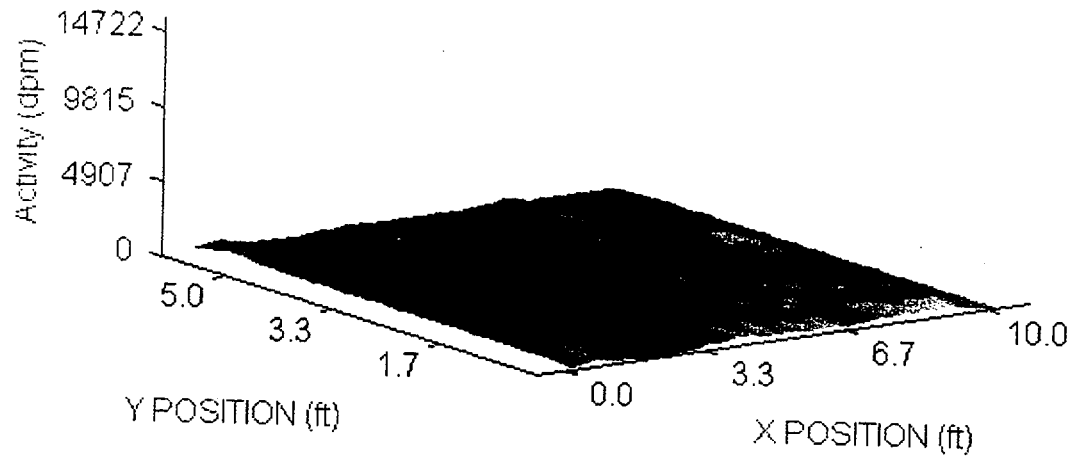


Figure 1 Image plot of surface activity in dpm/25cm²

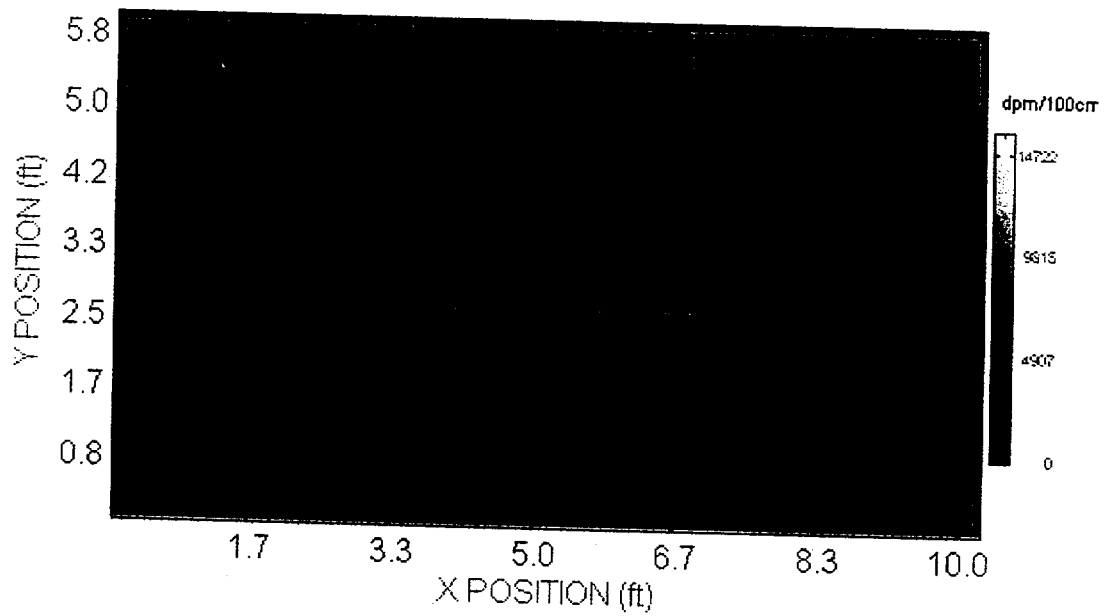


Figure 2 Meter Grid overlaid onto dpm/25cm² image plot

X	Y	Mean	Max	Min	STD	Pixels
1	2	386	981	0	239.0	360
2	2	610	886	327	112.6	400
3	2	608	976	225	126.1	400
4	2	0	0	0	.0	20
1	1	391	946	0	240.1	288
2	1	583	906	342	87.1	320
3	1	612	833	314	94.6	320
4	1	0	0	0	.0	16

Table 1 dpm/100cm² averaged over one square meter. Grids (1,1) - (4,1) and Grids (4,1) - (4,2) are not one square meter. Bold text denotes grids which exceed release limits

COMPARISON OF RESULTS WITH GUIDELINES

The survey data provided by the SRA Surface Contamination Monitor, serial number SCM2, was compared to the following criteria. The limits for total activity were calculated by adding an observed background of 2208 dpm/100 cm² to the survey criteria.

Criteria

1000 dpm/100 cm², averaged over 1m²
3000 dpm/100 cm², maximum in 100 cm²

Total Activity Limits

3208 dpm/100 cm², averaged over 1m²
5208 dpm/100 cm², maximum in 100 cm²

The survey results indicate that surface activity levels averaged over one square meter were below the site-specific guidelines for release.

The survey results indicate that the maximum surface activity levels in the 100 square centimeter zones were below the site-specific guidelines for release.

Introduction

Survey SA0703F was conducted on January 19, 1999 by TODD_CHETE as part of the STALBANS survey. Data was gathered using SRA Surface Contamination Monitor, SCM2. The Position Sensitive Proportional Counter was operating with an efficiency of 71%. The SRA Survey Information Management System was used to provide visual imaging and analysis of the survey data and to generate this report.

Surface Activity Levels

The SCM measures and records activity in 25 cm² areas called pixels. Each square meter contains 400 individual pixels. These pixels can be summed into 100 cm² areas for comparison to release criteria. To evaluate the measured activity levels versus release criteria, consecutive 100 cm² sums are offset by 25 cm² pixels, thus ensuring that all possible 100 cm² combinations of the data are considered.

Total measured activity for SA0703F ranged from 0 to 597 dpm/pixel. 100 cm² data ranged from 0 to 1,407 dpm/100 cm². An interpolated surface plot of the data is provided in Figure 1. A light source is simulated to add definition via shadows to the artifacts in the image.

Square Meter Data

Conventional statistics are provided by SIMS. The survey is divided into meter grids. For each grid the 100 cm² data is analyzed for mean, min, max, and standard deviation. The number of pixels containing data is also reported for each grid. Figure 2 shows the grid pattern, while Table 1 details the statistical data for each grid. Bold text denotes grids which exceed release limits.

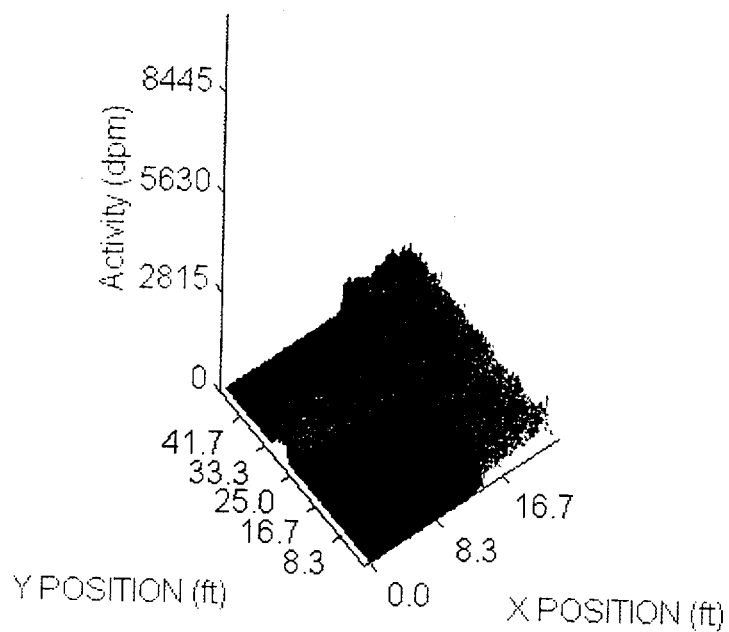


Figure 1 Image plot of surface activity in dpm/25cm²

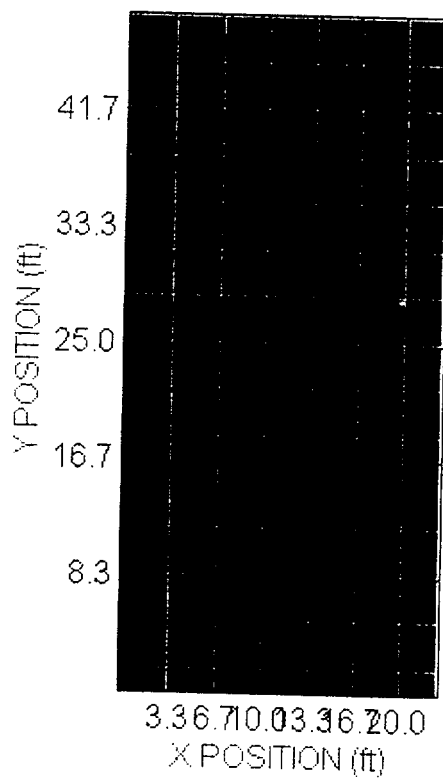


Figure 2 Meter Grid overlaid onto dpm/25cm² image plot

X	Y	Mean	Max	Min	STD	Pixels
1	15	0	0	0	.0	0
2	15	0	0	0	.0	0
3	15	0	0	0	.0	0
4	15	0	0	0	.0	0
5	15	533	1,174	0	278.3	360
6	15	600	1,012	271	131.6	400
7	15	628	1,023	230	136.6	340
1	14	0	0	0	.0	0
2	14	0	0	0	.0	0
3	14	0	0	0	.0	0
4	14	0	0	0	.0	0
5	14	557	1,034	0	284.0	360
6	14	618	1,092	305	128.6	400
7	14	648	996	277	121.2	340
1	13	0	0	0	.0	0
2	13	0	0	0	.0	0
3	13	0	0	0	.0	0
4	13	0	0	0	.0	0
5	13	577	1,407	0	319.7	360
6	13	688	1,177	292	141.7	400
7	13	659	1,228	330	137.3	340
1	12	0	0	0	.0	0
2	12	0	0	0	.0	0
3	12	0	0	0	.0	0
4	12	0	0	0	.0	0
5	12	549	1,164	0	289.0	360
6	12	647	1,128	277	137.3	400
7	12	653	1,271	238	158.9	340
1	11	385	1,157	0	284.1	220
2	11	391	1,044	0	278.5	220
3	11	389	896	0	271.9	220
4	11	396	936	0	278.6	220
5	11	538	1,121	0	234.0	382
6	11	640	1,192	310	143.9	400
7	11	624	908	255	102.1	340
1	10	607	988	258	126.0	400
2	10	614	910	236	114.2	400
3	10	613	1,083	289	128.1	400
4	10	686	1,331	329	155.9	400
5	10	641	1,108	281	129.6	400
6	10	628	1,170	196	165.1	400
7	10	655	1,114	241	130.7	340
1	9	137	175	0	43.8	60
2	9	147	179	0	48.2	60
3	9	145	169	0	46.7	60

4	9	134	158	0	42.1	60
5	9	559	1,310	0	289.9	366
6	9	663	1,139	307	161.8	400
7	9	593	945	371	99.3	340
1	8	0	0	0	.0	0
2	8	0	0	0	.0	0
3	8	0	0	0	.0	0
4	8	0	0	0	.0	0
5	8	532	1,072	0	267.6	360
6	8	634	1,128	327	125.2	400
7	8	609	923	264	102.4	340
1	7	0	0	0	.0	0
2	7	0	0	0	.0	0
3	7	0	0	0	.0	0
4	7	0	0	0	.0	0
5	7	523	1,206	0	268.7	360
6	7	620	1,130	284	129.8	400
7	7	602	978	303	109.0	340
1	6	0	0	0	.0	0
2	6	0	0	0	.0	0
3	6	0	0	0	.0	0
4	6	0	0	0	.0	0
5	6	490	954	0	240.5	360
6	6	627	1,089	318	124.9	400
7	6	568	993	311	108.0	340
1	5	0	0	0	.0	0
2	5	0	0	0	.0	0
3	5	0	0	0	.0	0
4	5	0	0	0	.0	0
5	5	502	1,188	0	251.9	360
6	5	620	1,169	234	131.0	400
7	5	593	810	256	100.2	340
1	4	0	0	0	.0	0
2	4	0	0	0	.0	0
3	4	0	0	0	.0	0
4	4	0	0	0	.0	0
5	4	563	1,247	0	287.2	360
6	4	644	1,252	259	148.2	400
7	4	642	1,134	372	116.9	340
1	3	0	0	0	.0	0
2	3	0	0	0	.0	0
3	3	0	0	0	.0	0
4	3	0	0	0	.0	0
5	3	560	1,151	0	300.2	362
6	3	661	1,156	314	135.9	400
7	3	625	926	279	107.2	340
1	2	0	0	0	.0	0

2	2	0	0	0	.0	0
3	2	0	0	0	.0	0
4	2	0	0	0	.0	0
5	2	567	1,015	46	249.3	400
6	2	640	1,249	348	115.4	400
7	2	647	1,248	320	157.0	340
1	1	0	0	0	.0	0
2	1	0	0	0	.0	0
3	1	0	0	0	.0	0
4	1	0	0	0	.0	0
5	1	466	985	41	207.4	220
6	1	619	1,082	288	147.9	220
7	1	720	1,364	325	200.7	187

Table 1 dpm/100cm² averaged over one square meter. Grids (1,1) - (7,1) and Grids (7,1) - (7,15) are not one square meter. Bold text denotes grids which exceed release limits

COMPARISON OF RESULTS WITH GUIDELINES

The survey data provided by the SRA Surface Contamination Monitor, serial number SCM2, was compared to the following criteria. The limits for total activity were calculated by adding an observed background of 554 dpm/100 cm² to the survey criteria.

Criteria

1000 dpm/100 cm², averaged over 1m²
3000 dpm/100 cm², maximum in 100 cm²

Total Activity Limits

1554 dpm/100 cm², averaged over 1m²
3554 dpm/100 cm², maximum in 100 cm²

The survey results indicate that surface activity levels averaged over one square meter were below the site-specific guidelines for release.

The survey results indicate that the maximum surface activity levels in the 100 square centimeter zones were below the site-specific guidelines for release.

Introduction

Survey SA0704F was conducted on January 19, 1999 by TODD_CHETE as part of the STALBANS survey. Data was gathered using SRA Surface Contamination Monitor, SCM2. The Position Sensitive Proportional Counter was operating with an efficiency of 71%. The SRA Survey Information Management System was used to provide visual imaging and analysis of the survey data and to generate this report.

Surface Activity Levels

The SCM measures and records activity in 25 cm² areas called pixels. Each square meter contains 400 individual pixels. These pixels can be summed into 100 cm² areas for comparison to release criteria. To evaluate the measured activity levels versus release criteria, consecutive 100 cm² sums are offset by 25 cm² pixels, thus ensuring that all possible 100 cm² combinations of the data are considered.

Total measured activity for SA0704F ranged from 0 to 626 dpm/pixel. 100 cm² data ranged from 0 to 1,418 dpm/100 cm². An interpolated surface plot of the data is provided in Figure 1. A light source is simulated to add definition via shadows to the artifacts in the image.

Square Meter Data

Conventional statistics are provided by SIMS. The survey is divided into meter grids. For each grid the 100 cm² data is analyzed for mean, min, max, and standard deviation. The number of pixels containing data is also reported for each grid. Figure 2 shows the grid pattern, while Table 1 details the statistical data for each grid. Bold text denotes grids which exceed release limits.

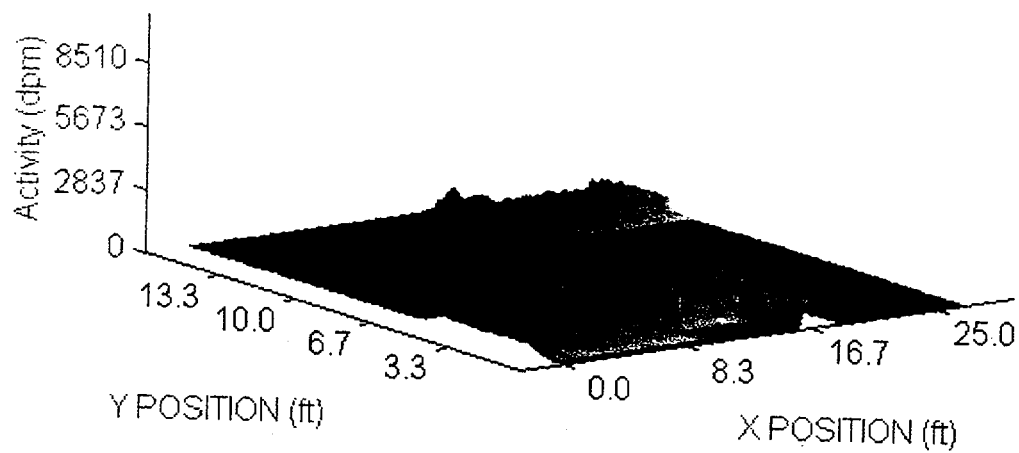


Figure 1 Image plot of surface activity in dpm/25cm²

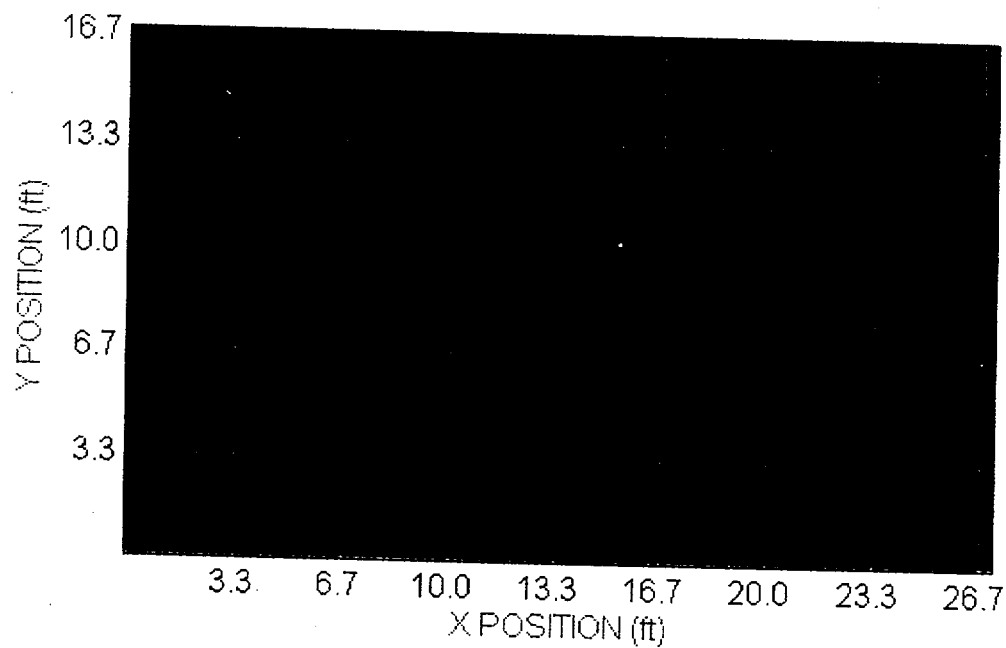


Figure 2 Meter Grid overlaid onto dpm/25cm² image plot

X	Y	Mean	Max	Min	STD	Pixels
1	5	0	0	0	.0	0
2	5	0	0	0	.0	0
3	5	0	0	0	.0	0
4	5	0	0	0	.0	0
5	5	238	1,100	0	180.1	120
6	5	618	1,044	0	244.9	385
7	5	534	1,103	0	321.3	340
8	5	549	1,114	0	323.2	340
9	5	483	853	0	295.7	51
1	4	0	0	0	.0	0
2	4	0	0	0	.0	0
3	4	0	0	0	.0	0
4	4	0	0	0	.0	0
5	4	224	1,159	0	158.5	120
6	4	530	1,418	0	318.8	320
7	4	195	553	0	90.4	80
8	4	194	596	0	95.7	80
9	4	187	430	0	93.0	12
1	3	0	0	0	.0	20
2	3	0	0	0	.0	20
3	3	0	0	0	.0	20
4	3	0	0	0	.0	6
5	3	249	1,206	0	190.7	120
6	3	580	1,153	0	345.6	300
7	3	0	0	0	.0	0
8	3	0	0	0	.0	0
9	3	0	0	0	.0	0
1	2	710	1,150	69	281.2	400
2	2	715	1,231	67	259.8	400
3	2	668	1,104	69	250.4	400
4	2	545	1,152	0	371.8	316
5	2	534	1,164	0	359.4	316
6	2	619	1,179	0	364.4	300
7	2	0	0	0	.0	0
8	2	0	0	0	.0	0
9	2	0	0	0	.0	0
1	1	659	1,374	0	410.0	280
2	1	694	1,409	0	415.9	280
3	1	632	1,206	0	373.1	280
4	1	361	1,141	0	259.9	168
5	1	413	1,050	0	317.1	244
6	1	508	1,092	0	324.5	274
7	1	0	0	0	.0	0
8	1	0	0	0	.0	0
9	1	0	0	0	.0	0

Table 1 dpm/100cm² averaged over one square meter. Grids (1,1) - (9,1) and Grids (9,1) - (9,5) are not one square meter. Bold text denotes grids which exceed release limits

COMPARISON OF RESULTS WITH GUIDELINES

The survey data provided by the SRA Surface Contamination Monitor, serial number SCM2, was compared to the following criteria. The limits for total activity were calculated by adding an observed background of 554 dpm/100 cm² to the survey criteria.

Criteria

1000 dpm/100 cm², averaged over 1m²
3000 dpm/100 cm², maximum in 100 cm²

Total Activity Limits

1554 dpm/100 cm², averaged over 1m²
3554 dpm/100 cm², maximum in 100 cm²

The survey results indicate that surface activity levels averaged over one square meter were below the site-specific guidelines for release.

The survey results indicate that the maximum surface activity levels in the 100 square centimeter zones were below the site-specific guidelines for release.

Introduction

Survey SA0705F was conducted on January 20, 1999 by TODD_CHETE as part of the STALBANS survey. Data was gathered using SRA Surface Contamination Monitor, SCM2. The Position Sensitive Proportional Counter was operating with an efficiency of 71%. The SRA Survey Information Management System was used to provide visual imaging and analysis of the survey data and to generate this report.

Surface Activity Levels

The SCM measures and records activity in 25 cm^2 areas called pixels. Each square meter contains 400 individual pixels. These pixels can be summed into 100 cm^2 areas for comparison to release criteria. To evaluate the measured activity levels versus release criteria, consecutive 100 cm^2 sums are offset by 25 cm^2 pixels, thus ensuring that all possible 100 cm^2 combinations of the data are considered.

Total measured activity for SA0705F ranged from 0 to 452 dpm/pixel. 100 cm^2 data ranged from 0 to 1,195 dpm/ 100 cm^2 . An interpolated surface plot of the data is provided in Figure 1. A light source is simulated to add definition via shadows to the artifacts in the image.

Square Meter Data

Conventional statistics are provided by SIMS. The survey is divided into meter grids. For each grid the 100 cm^2 data is analyzed for mean, min, max, and standard deviation. The number of pixels containing data is also reported for each grid. Figure 2 shows the grid pattern, while Table 1 details the statistical data for each grid. Bold text denotes grids which exceed release limits.

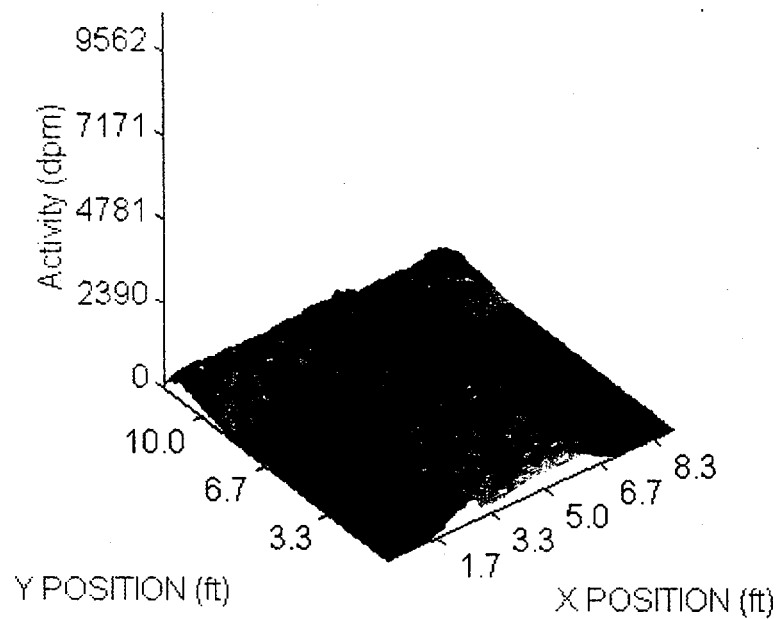


Figure 1 Image plot of surface activity in dpm/25cm²

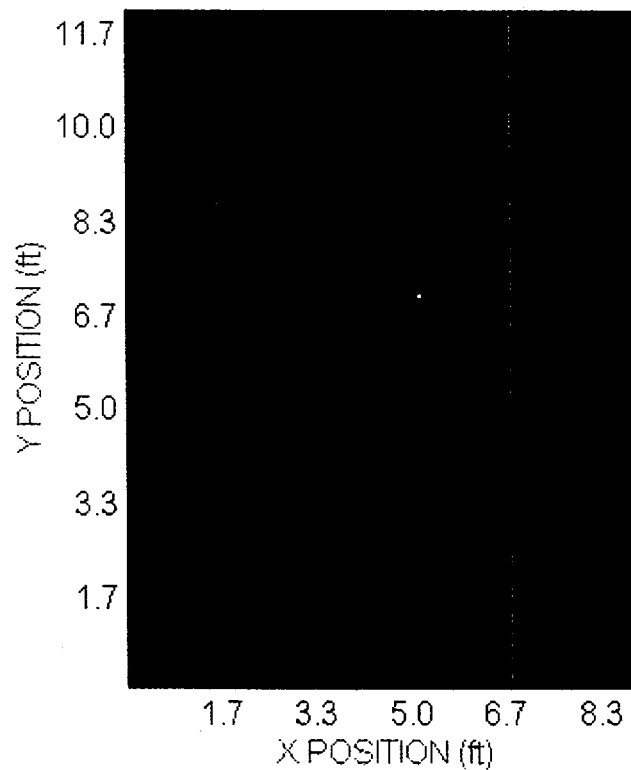


Figure 2 Meter Grid overlaid onto dpm/25cm² image plot

X	Y	Mean	Max	Min	STD	Pixels
1	4	538	968	0	212.6	376
2	4	614	843	345	82.5	400
3	4	487	795	0	215.9	247
1	3	457	1,142	0	294.8	240
2	3	661	1,195	271	129.6	400
3	3	113	170	0	50.0	60
1	2	446	903	0	279.2	240
2	2	581	832	293	99.8	400
3	2	104	172	0	47.7	60
1	1	395	687	0	244.1	144
2	1	550	735	261	77.0	240
3	1	122	193	0	55.6	36

Table 1 dpm/100cm² averaged over one square meter. Grids (1,1) - (3,1) and Grids (3,1) - (3,4) are not one square meter. Bold text denotes grids which exceed release limits

COMPARISON OF RESULTS WITH GUIDELINES

The survey data provided by the SRA Surface Contamination Monitor, serial number SCM2, was compared to the following criteria. The limits for total activity were calculated by adding an observed background of 554 dpm/100 cm² to the survey criteria.

Criteria

1000 dpm/100 cm², averaged over 1m²
3000 dpm/100 cm², maximum in 100 cm²

Total Activity Limits

1554 dpm/100 cm², averaged over 1m²
3554 dpm/100 cm², maximum in 100 cm²

The survey results indicate that surface activity levels averaged over one square meter were below the site-specific guidelines for release.

The survey results indicate that the maximum surface activity levels in the 100 square centimeter zones were below the site-specific guidelines for release.

Introduction

Survey SA0706F was conducted on January 20, 1999 by TODD_CHETE as part of the STALBANS survey. Data was gathered using SRA Surface Contamination Monitor, SCM2. The Position Sensitive Proportional Counter was operating with an efficiency of 71%. The SRA Survey Information Management System was used to provide visual imaging and analysis of the survey data and to generate this report.

Surface Activity Levels

The SCM measures and records activity in 25 cm^2 areas called pixels. Each square meter contains 400 individual pixels. These pixels can be summed into 100 cm^2 areas for comparison to release criteria. To evaluate the measured activity levels versus release criteria, consecutive 100 cm^2 sums are offset by 25 cm^2 pixels, thus ensuring that all possible 100 cm^2 combinations of the data are considered.

Total measured activity for SA0706F ranged from 15 to 373 dpm/pixel. 100 cm^2 data ranged from 17 to 981 dpm/ 100 cm^2 . An interpolated surface plot of the data is provided in Figure 1. A light source is simulated to add definition via shadows to the artifacts in the image.

Square Meter Data

Conventional statistics are provided by SIMS. The survey is divided into meter grids. For each grid the 100 cm^2 data is analyzed for mean, min, max, and standard deviation. The number of pixels containing data is also reported for each grid. Figure 2 shows the grid pattern, while Table 1 details the statistical data for each grid. Bold text denotes grids which exceed release limits.

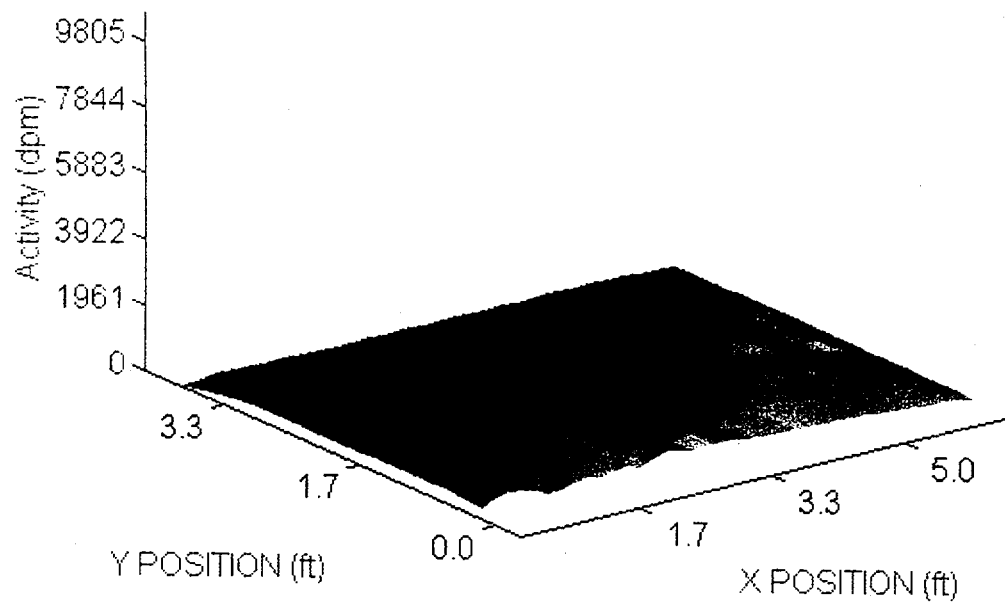


Figure 1 Image plot of surface activity in dpm/25cm²

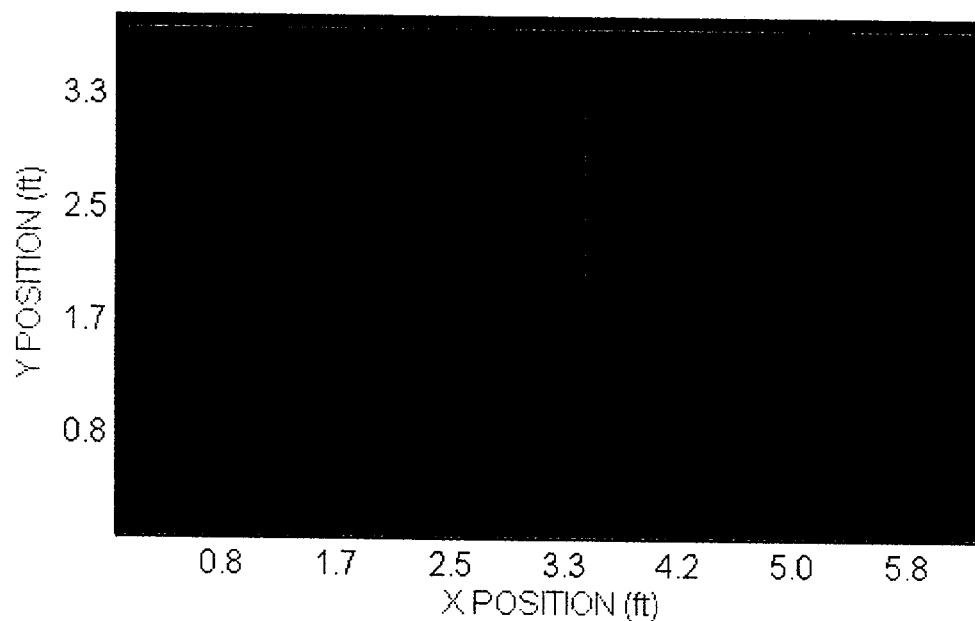


Figure 2 Meter Grid overlaid onto dpm/25cm² image plot

X	Y	Mean	Max	Min	STD	Pixels
1	2	596	980	218	131.8	400
2	2	544	881	97	152.0	360
1	1	560	773	330	102.5	60
2	1	349	560	101	127.6	54

Table 1 dpm/100cm² averaged over one square meter. Grids (1,1) - (2,1) and Grids (2,1) - (2,2) are not one square meter. Bold text denotes grids which exceed release limits

COMPARISON OF RESULTS WITH GUIDELINES

The survey data provided by the SRA Surface Contamination Monitor, serial number SCM2, was compared to the following criteria. The limits for total activity were calculated by adding an observed background of 554 dpm/100 cm² to the survey criteria.

Criteria

1000 dpm/100 cm², averaged over 1m²
3000 dpm/100 cm², maximum in 100 cm²

Total Activity Limits

1554 dpm/100 cm², averaged over 1m²
3554 dpm/100 cm², maximum in 100 cm²

The survey results indicate that surface activity levels averaged over one square meter were below the site-specific guidelines for release.

The survey results indicate that the maximum surface activity levels in the 100 square centimeter zones were below the site-specific guidelines for release.

Introduction

Survey SA0707F was conducted on January 20, 1999 by TODD_CHETE as part of the STALBANS survey. Data was gathered using SRA Surface Contamination Monitor, SCM2. The Position Sensitive Proportional Counter was operating with an efficiency of 71%. The SRA Survey Information Management System was used to provide visual imaging and analysis of the survey data and to generate this report.

Surface Activity Levels

The SCM measures and records activity in 25 cm² areas called pixels. Each square meter contains 400 individual pixels. These pixels can be summed into 100 cm² areas for comparison to release criteria. To evaluate the measured activity levels versus release criteria, consecutive 100 cm² sums are offset by 25 cm² pixels, thus ensuring that all possible 100 cm² combinations of the data are considered.

Total measured activity for SA0707F ranged from 0 to 319 dpm/pixel. 100 cm² data ranged from 0 to 932 dpm/100 cm². An interpolated surface plot of the data is provided in Figure 1. A light source is simulated to add definition via shadows to the artifacts in the image.

Square Meter Data

Conventional statistics are provided by SIMS. The survey is divided into meter grids. For each grid the 100 cm² data is analyzed for mean, min, max, and standard deviation. The number of pixels containing data is also reported for each grid. Figure 2 shows the grid pattern, while Table 1 details the statistical data for each grid. Bold text denotes grids which exceed release limits.

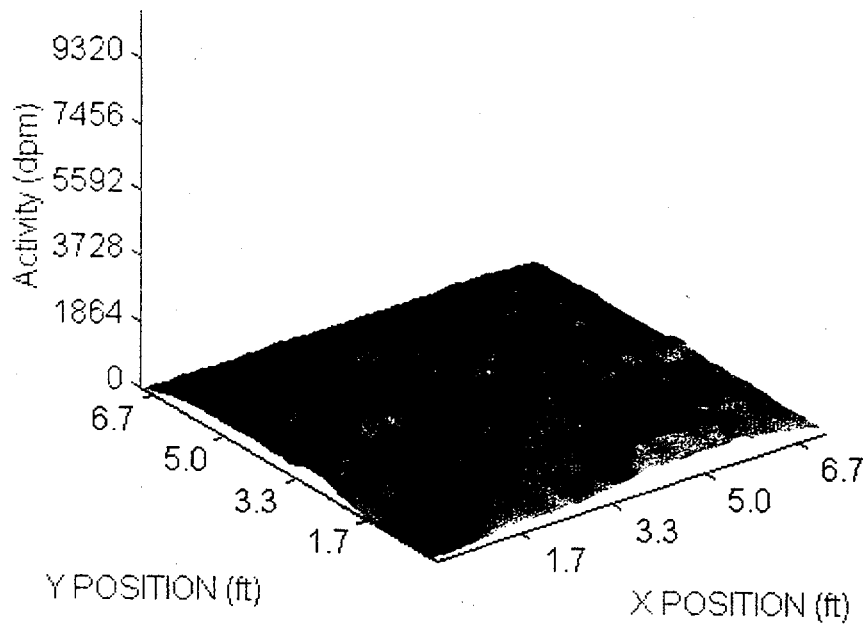


Figure 1 Image plot of surface activity in dpm/25cm²

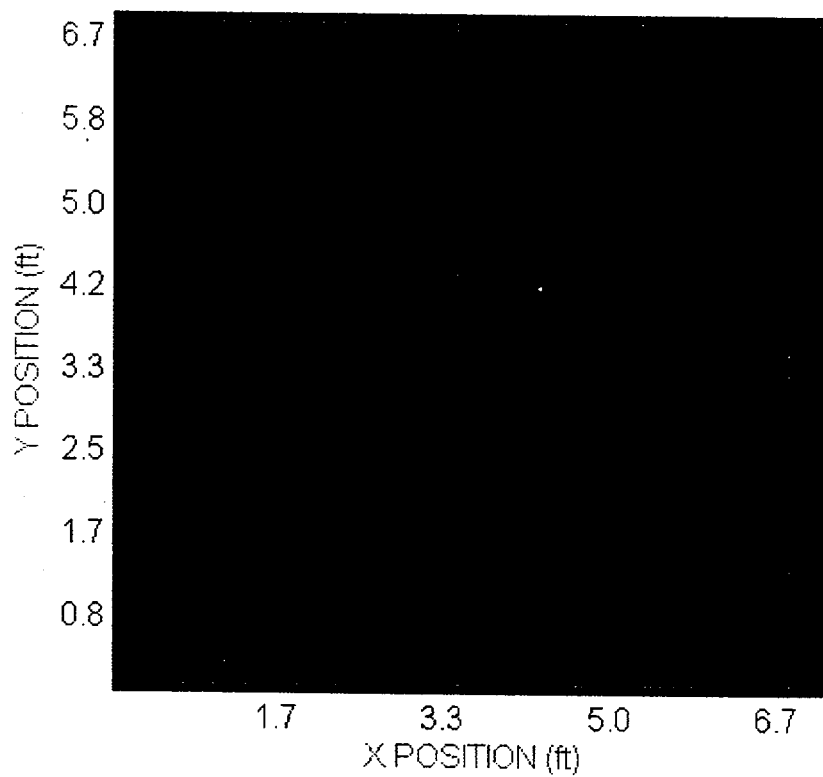


Figure 2 Meter Grid overlaid onto dpm/25cm² image plot

X	Y	Mean	Max	Min	STD	Pixels
1	3	559	720	174	125.3	400
2	3	506	734	219	98.4	400
3	3	309	435	121	71.9	60
1	2	470	844	0	215.6	370
2	2	614	932	369	73.6	400
3	2	442	696	239	104.6	60
1	1	0	0	0	.0	17
2	1	0	0	0	.0	20
3	1	0	0	0	.0	3

Table 1 dpm/100cm² averaged over one square meter. Grids (1,1) - (3,1) and Grids (3,1) - (3,3) are not one square meter. Bold text denotes grids which exceed release limits

COMPARISON OF RESULTS WITH GUIDELINES

The survey data provided by the SRA Surface Contamination Monitor, serial number SCM2, was compared to the following criteria. The limits for total activity were calculated by adding an observed background of 554 dpm/100 cm² to the survey criteria.

Criteria

1000 dpm/100 cm², averaged over 1m²
3000 dpm/100 cm², maximum in 100 cm²

Total Activity Limits

1554 dpm/100 cm², averaged over 1m²
3554 dpm/100 cm², maximum in 100 cm²

The survey results indicate that surface activity levels averaged over one square meter were below the site-specific guidelines for release.

The survey results indicate that the maximum surface activity levels in the 100 square centimeter zones were below the site-specific guidelines for release.

Introduction

Survey SA0708F was conducted on January 20, 1999 by TODD_CHETE as part of the STALBANS survey. Data was gathered using SRA Surface Contamination Monitor, SCM2. The Position Sensitive Proportional Counter was operating with an efficiency of 71%. The SRA Survey Information Management System was used to provide visual imaging and analysis of the survey data and to generate this report.

Surface Activity Levels

The SCM measures and records activity in 25 cm² areas called pixels. Each square meter contains 400 individual pixels. These pixels can be summed into 100 cm² areas for comparison to release criteria. To evaluate the measured activity levels versus release criteria, consecutive 100 cm² sums are offset by 25 cm² pixels, thus ensuring that all possible 100 cm² combinations of the data are considered.

Total measured activity for SA0708F ranged from 0 to 483 dpm/pixel. 100 cm² data ranged from 0 to 1,170 dpm/100 cm². An interpolated surface plot of the data is provided in Figure 1. A light source is simulated to add definition via shadows to the artifacts in the image.

Square Meter Data

Conventional statistics are provided by SIMS. The survey is divided into meter grids. For each grid the 100 cm² data is analyzed for mean, min, max, and standard deviation. The number of pixels containing data is also reported for each grid. Figure 2 shows the grid pattern, while Table 1 details the statistical data for each grid. Bold text denotes grids which exceed release limits.

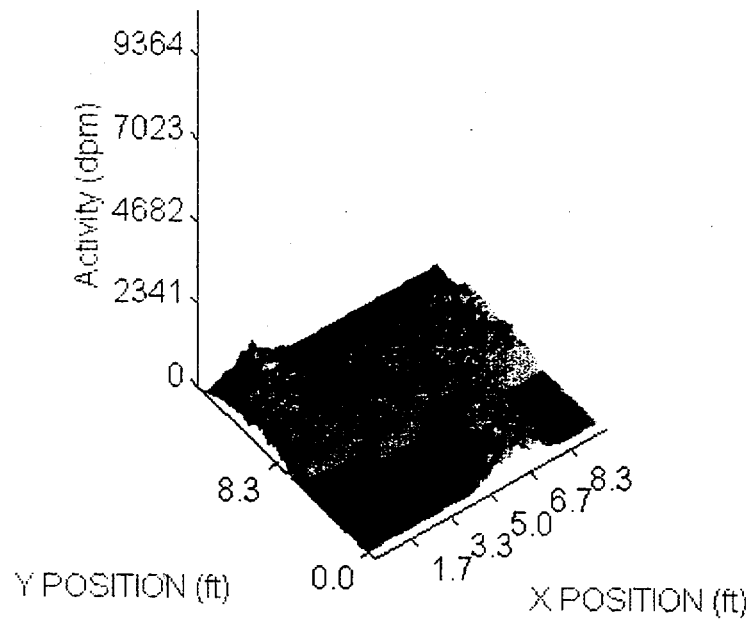


Figure 1 Image plot of surface activity in dpm/25cm²

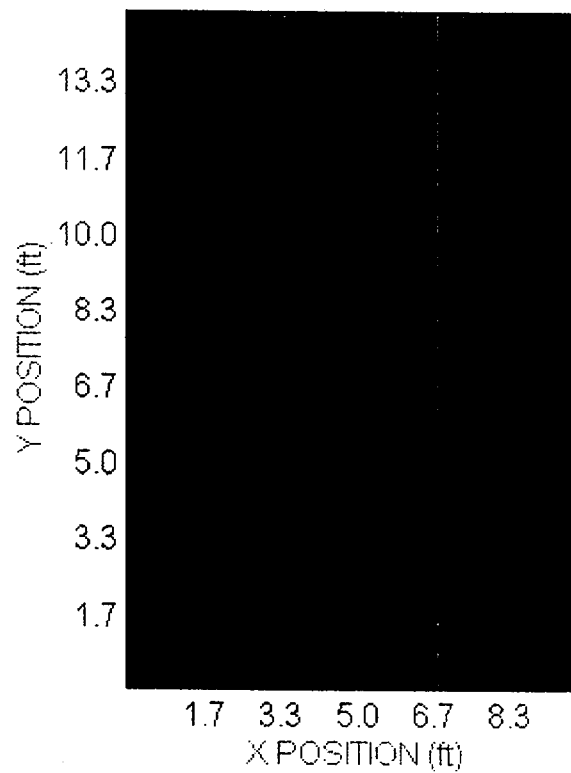


Figure 2 Meter Grid overlaid onto dpm/25cm² image plot

X	Y	Mean	Max	Min	STD	Pixels
1	5	575	1,042	128	137.1	400
2	5	264	836	0	207.7	220
3	5	271	1,061	0	198.0	152
1	4	579	973	335	94.2	400
2	4	589	1,067	346	135.4	400
3	4	580	1,026	268	112.0	380
1	3	316	795	0	211.2	200
2	3	526	899	0	210.5	368
3	3	505	938	0	221.9	340
1	2	0	0	0	.0	0
2	2	407	816	0	266.3	240
3	2	393	899	0	250.4	180
1	1	0	0	0	.0	0
2	1	400	895	0	265.8	108
3	1	337	698	0	215.7	81

Table 1 dpm/100cm² averaged over one square meter. Grids (1,1) - (3,1) and Grids (3,1) - (3,5) are not one square meter. Bold text denotes grids which exceed release limits

COMPARISON OF RESULTS WITH GUIDELINES

The survey data provided by the SRA Surface Contamination Monitor, serial number SCM2, was compared to the following criteria. The limits for total activity were calculated by adding an observed background of 554 dpm/100 cm² to the survey criteria.

Criteria

1000 dpm/100 cm², averaged over 1m²
3000 dpm/100 cm², maximum in 100 cm²

Total Activity Limits

1554 dpm/100 cm², averaged over 1m²
3554 dpm/100 cm², maximum in 100 cm²

The survey results indicate that surface activity levels averaged over one square meter were below the site-specific guidelines for release.

The survey results indicate that the maximum surface activity levels in the 100 square centimeter zones were below the site-specific guidelines for release.

Introduction

Survey SA0709F was conducted on January 20, 1999 by TODD_CHETE as part of the STALBANS survey. Data was gathered using SRA Surface Contamination Monitor, SCM2. The Position Sensitive Proportional Counter was operating with an efficiency of 71%. The SRA Survey Information Management System was used to provide visual imaging and analysis of the survey data and to generate this report.

Surface Activity Levels

The SCM measures and records activity in 25 cm^2 areas called pixels. Each square meter contains 400 individual pixels. These pixels can be summed into 100 cm^2 areas for comparison to release criteria. To evaluate the measured activity levels versus release criteria, consecutive 100 cm^2 sums are offset by 25 cm^2 pixels, thus ensuring that all possible 100 cm^2 combinations of the data are considered.

Total measured activity for SA0709F ranged from 0 to 360 dpm/pixel. 100 cm^2 data ranged from 0 to 920 dpm/ 100 cm^2 . An interpolated surface plot of the data is provided in Figure 1. A light source is simulated to add definition via shadows to the artifacts in the image.

Square Meter Data

Conventional statistics are provided by SIMS. The survey is divided into meter grids. For each grid the 100 cm^2 data is analyzed for mean, min, max, and standard deviation. The number of pixels containing data is also reported for each grid. Figure 2 shows the grid pattern, while Table 1 details the statistical data for each grid. Bold text denotes grids which exceed release limits.

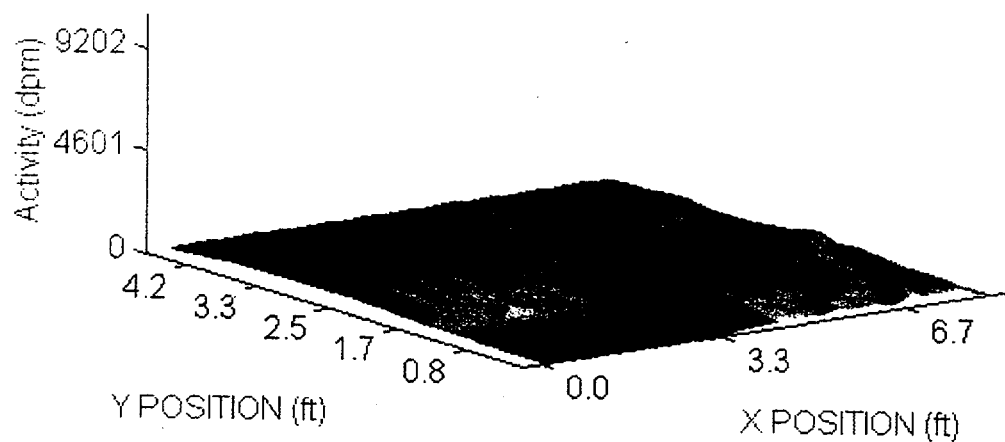


Figure 1 Image plot of surface activity in dpm/25cm²

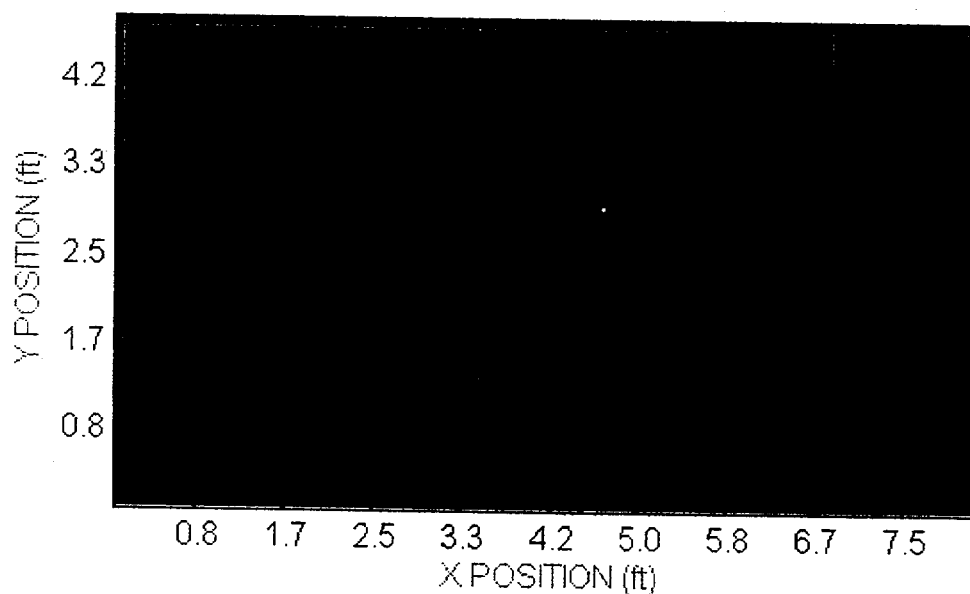


Figure 2 Meter Grid overlaid onto dpm/25cm² image plot

X	Y	Mean	Max	Min	STD	Pixels
1	2	424	793	25	178.1	362
2	2	515	920	161	118.8	400
3	2	521	837	215	131.0	180
1	1	34	36	0	7.4	8
2	1	453	741	130	141.8	160
3	1	490	663	199	117.8	72

Table 1 dpm/100cm² averaged over one square meter. Grids (1,1) - (3,1) and Grids (3,1) - (3,2) are not one square meter. Bold text denotes grids which exceed release limits

COMPARISON OF RESULTS WITH GUIDELINES

The survey data provided by the SRA Surface Contamination Monitor, serial number SCM2, was compared to the following criteria. The limits for total activity were calculated by adding an observed background of 554 dpm/100 cm² to the survey criteria.

Criteria

1000 dpm/100 cm², averaged over 1m²
3000 dpm/100 cm², maximum in 100 cm²

Total Activity Limits

1554 dpm/100 cm², averaged over 1m²
3554 dpm/100 cm², maximum in 100 cm²

The survey results indicate that surface activity levels averaged over one square meter were below the site-specific guidelines for release.

The survey results indicate that the maximum surface activity levels in the 100 square centimeter zones were below the site-specific guidelines for release.

Introduction

Survey SA0710F was conducted on January 20, 1999 by TODD_CHETE as part of the STALBANS survey. Data was gathered using SRA Surface Contamination Monitor, SCM2. The Position Sensitive Proportional Counter was operating with an efficiency of 71%. The SRA Survey Information Management System was used to provide visual imaging and analysis of the survey data and to generate this report.

Surface Activity Levels

The SCM measures and records activity in 25 cm^2 areas called pixels. Each square meter contains 400 individual pixels. These pixels can be summed into 100 cm^2 areas for comparison to release criteria. To evaluate the measured activity levels versus release criteria, consecutive 100 cm^2 sums are offset by 25 cm^2 pixels, thus ensuring that all possible 100 cm^2 combinations of the data are considered.

Total measured activity for SA0710F ranged from 0 to 815 dpm/pixel. 100 cm^2 data ranged from 0 to 2,249 dpm/ 100 cm^2 . An interpolated surface plot of the data is provided in Figure 1. A light source is simulated to add definition via shadows to the artifacts in the image.

Square Meter Data

Conventional statistics are provided by SIMS. The survey is divided into meter grids. For each grid the 100 cm^2 data is analyzed for mean, min, max, and standard deviation. The number of pixels containing data is also reported for each grid. Figure 2 shows the grid pattern, while Table 1 details the statistical data for each grid. Bold text denotes grids which exceed release limits.

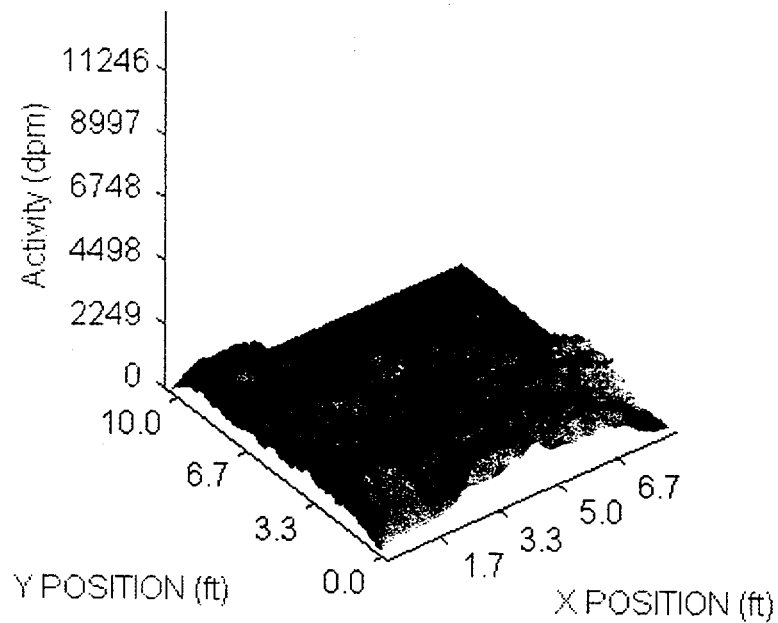


Figure 1 Image plot of surface activity in dpm/25cm²

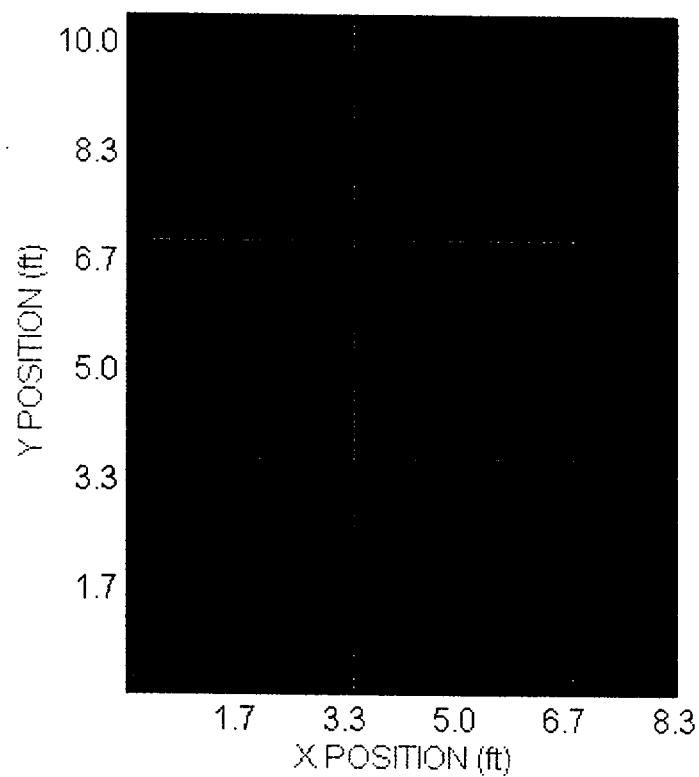


Figure 2 Meter Grid overlaid onto dpm/25cm² image plot

X	Y	Mean	Max	Min	STD	Pixels
1	4	1,002	1,525	0	452.2	372
2	4	399	1,342	0	263.4	120
3	4	177	996	0	104.7	30
1	3	1,225	1,716	589	208.2	400
2	3	1,097	1,930	399	311.6	400
3	3	644	1,732	0	478.3	145
1	2	1,174	1,769	316	273.2	400
2	2	1,409	2,249	1,114	144.4	400
3	2	951	1,515	0	442.7	184
1	1	507	0	0	314.8	40
2	1	1,098	0	0	200.2	40
3	1	510	0	0	318.1	16

Table 1 dpm/100cm² averaged over one square meter. Grids (1,1) - (3,1) and Grids (3,1) - (3,4) are not one square meter. Bold text denotes grids which exceed release limits

COMPARISON OF RESULTS WITH GUIDELINES

The survey data provided by the SRA Surface Contamination Monitor, serial number SCM2, was compared to the following criteria. The limits for total activity were calculated by adding an observed background of 1450 dpm/100 cm² to the survey criteria.

Criteria

1000 dpm/100 cm², averaged over 1m²
3000 dpm/100 cm², maximum in 100 cm²

Total Activity Limits

2450 dpm/100 cm², averaged over 1m²
4450 dpm/100 cm², maximum in 100 cm²

The survey results indicate that surface activity levels averaged over one square meter were below the site-specific guidelines for release.

The survey results indicate that the maximum surface activity levels in the 100 square centimeter zones were below the site-specific guidelines for release.

Introduction

Survey SA0711E was conducted on January 22, 1999 by TODD_CHETE as part of the STALBANS survey. Data was gathered using SRA Surface Contamination Monitor, SCM2. The Position Sensitive Proportional Counter was operating with an efficiency of 65%. The SRA Survey Information Management System was used to provide visual imaging and analysis of the survey data and to generate this report.

Surface Activity Levels

The SCM measures and records activity in 25 cm^2 areas called pixels. Each square meter contains 400 individual pixels. These pixels can be summed into 100 cm^2 areas for comparison to release criteria. To evaluate the measured activity levels versus release criteria, consecutive 100 cm^2 sums are offset by 25 cm^2 pixels, thus ensuring that all possible 100 cm^2 combinations of the data are considered.

Total measured activity for SA0711E ranged from 131 to 861 dpm/pixel. 100 cm^2 data ranged from 131 to 2,646 dpm/ 100 cm^2 . An interpolated surface plot of the data is provided in Figure 1. A light source is simulated to add definition via shadows to the artifacts in the image.

Square Meter Data

Conventional statistics are provided by SIMS. The survey is divided into meter grids. For each grid the 100 cm^2 data is analyzed for mean, min, max, and standard deviation. The number of pixels containing data is also reported for each grid. Figure 2 shows the grid pattern, while Table 1 details the statistical data for each grid. Bold text denotes grids which exceed release limits.

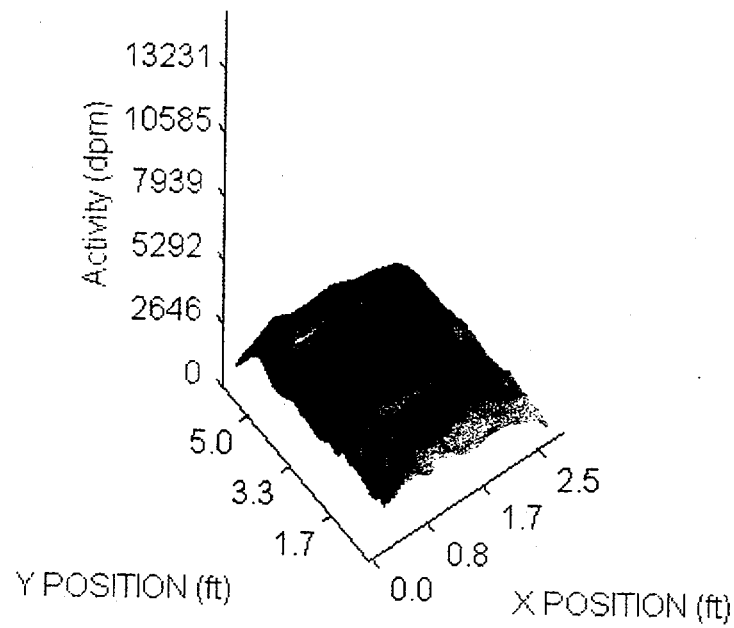


Figure 1 Image plot of surface activity in dpm/25cm²

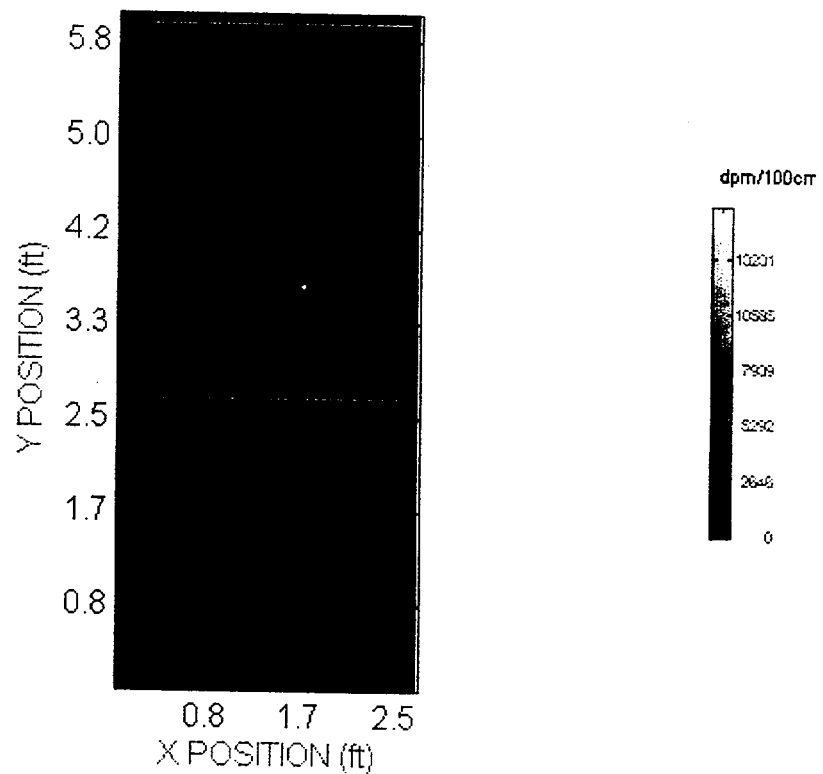


Figure 2 Meter Grid overlaid onto dpm/25cm² image plot

X	Y	Mean	Max	Min	STD	Pixels
1	2	1,903	2,517	706	373.3	320
1	1	2,205	2,646	1,190	316.4	256

Table 1 dpm/100cm² averaged over one square meter. Grids (1,1) - (1,1) and Grids (1,1) - (1,2) are not one square meter. Bold text denotes grids which exceed release limits

COMPARISON OF RESULTS WITH GUIDELINES

The survey data provided by the SRA Surface Contamination Monitor, serial number SCM2, was compared to the following criteria. The limits for total activity were calculated by adding an observed background of 2208 dpm/100 cm² to the survey criteria.

Criteria

1000 dpm/100 cm², averaged over 1m²
3000 dpm/100 cm², maximum in 100 cm²

Total Activity Limits

3208 dpm/100 cm², averaged over 1m²
5208 dpm/100 cm², maximum in 100 cm²

The survey results indicate that surface activity levels averaged over one square meter were below the site-specific guidelines for release.

The survey results indicate that the maximum surface activity levels in the 100 square centimeter zones were below the site-specific guidelines for release.

Introduction

Survey SA0711F was conducted on January 20, 1999 by TODD_CHETE as part of the STALBANS survey. Data was gathered using SRA Surface Contamination Monitor, SCM2. The Position Sensitive Proportional Counter was operating with an efficiency of 71%. The SRA Survey Information Management System was used to provide visual imaging and analysis of the survey data and to generate this report.

Surface Activity Levels

The SCM measures and records activity in 25 cm^2 areas called pixels. Each square meter contains 400 individual pixels. These pixels can be summed into 100 cm^2 areas for comparison to release criteria. To evaluate the measured activity levels versus release criteria, consecutive 100 cm^2 sums are offset by 25 cm^2 pixels, thus ensuring that all possible 100 cm^2 combinations of the data are considered.

Total measured activity for SA0711F ranged from 0 to 718 dpm/pixel. 100 cm^2 data ranged from 0 to 2,091 dpm/ 100 cm^2 . An interpolated surface plot of the data is provided in Figure 1. A light source is simulated to add definition via shadows to the artifacts in the image.

Square Meter Data

Conventional statistics are provided by SIMS. The survey is divided into meter grids. For each grid the 100 cm^2 data is analyzed for mean, min, max, and standard deviation. The number of pixels containing data is also reported for each grid. Figure 2 shows the grid pattern, while Table 1 details the statistical data for each grid. Bold text denotes grids which exceed release limits.

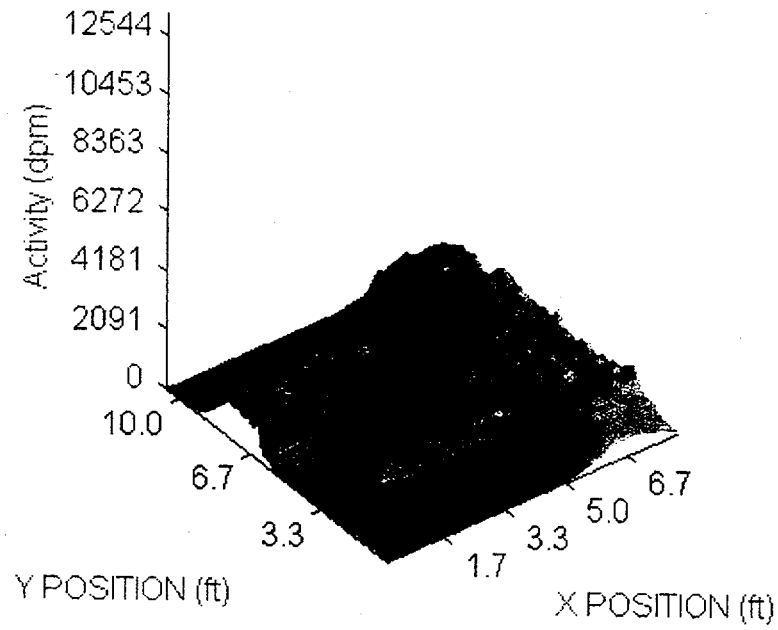


Figure 1 Image plot of surface activity in dpm/25cm²

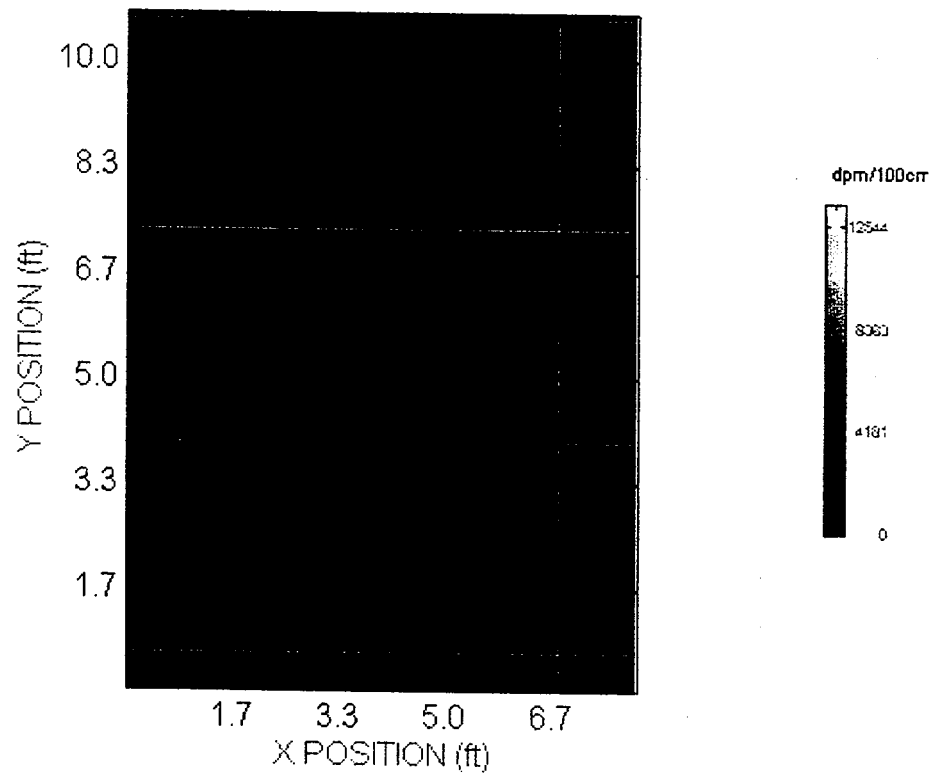


Figure 2 Meter Grid overlaid onto dpm/25cm² image plot

X	Y	Mean	Max	Min	STD	Pixels
1	4	823	1,546	0	565.1	240
2	4	770	1,940	0	567.1	320
3	4	1,211	1,904	522	253.7	160
1	3	940	1,656	0	538.6	301
2	3	1,198	1,937	178	357.4	400
3	3	1,208	2,006	681	198.8	160
1	2	266	439	0	72.4	33
2	2	776	1,745	0	531.1	230
3	2	1,251	1,549	526	206.7	160
1	1	0	0	0	.0	0
2	1	429	896	0	280.3	40
3	1	575	897	251	185.7	32

Table 1 dpm/100cm² averaged over one square meter. Grids (1,1) - (3,1) and Grids (3,1) - (3,4) are not one square meter. Bold text denotes grids which exceed release limits

COMPARISON OF RESULTS WITH GUIDELINES

The survey data provided by the SRA Surface Contamination Monitor, serial number SCM2, was compared to the following criteria. The limits for total activity were calculated by adding an observed background of 1450 dpm/100 cm² to the survey criteria.

Criteria

1000 dpm/100 cm², averaged over 1m²
3000 dpm/100 cm², maximum in 100 cm²

Total Activity Limits

2450 dpm/100 cm², averaged over 1m²
4450 dpm/100 cm², maximum in 100 cm²

The survey results indicate that surface activity levels averaged over one square meter were below the site-specific guidelines for release.

The survey results indicate that the maximum surface activity levels in the 100 square centimeter zones were below the site-specific guidelines for release.

Introduction

Survey SA0711W was conducted on January 22, 1999 by TODD_CHETE as part of the STALBANS survey. Data was gathered using SRA Surface Contamination Monitor, SCM2. The Position Sensitive Proportional Counter was operating with an efficiency of 66%. The SRA Survey Information Management System was used to provide visual imaging and analysis of the survey data and to generate this report.

Surface Activity Levels

The SCM measures and records activity in 25 cm² areas called pixels. Each square meter contains 400 individual pixels. These pixels can be summed into 100 cm² areas for comparison to release criteria. To evaluate the measured activity levels versus release criteria, consecutive 100 cm² sums are offset by 25 cm² pixels, thus ensuring that all possible 100 cm² combinations of the data are considered.

Total measured activity for SA0711W ranged from 104 to 821 dpm/pixel. 100 cm² data ranged from 104 to 2,630 dpm/100 cm². An interpolated surface plot of the data is provided in Figure 1. A light source is simulated to add definition via shadows to the artifacts in the image.

Square Meter Data

Conventional statistics are provided by SIMS. The survey is divided into meter grids. For each grid the 100 cm² data is analyzed for mean, min, max, and standard deviation. The number of pixels containing data is also reported for each grid. Figure 2 shows the grid pattern, while Table 1 details the statistical data for each grid. Bold text denotes grids which exceed release limits.

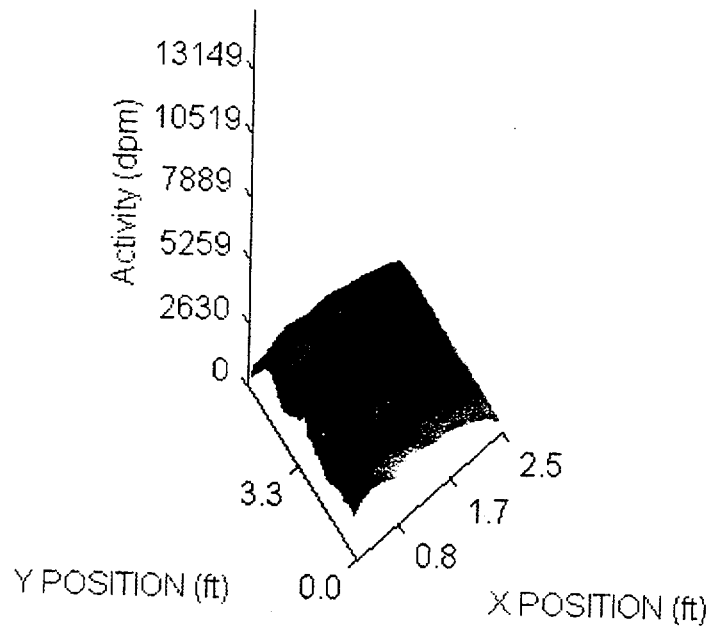


Figure 1 Image plot of surface activity in dpm/25cm²

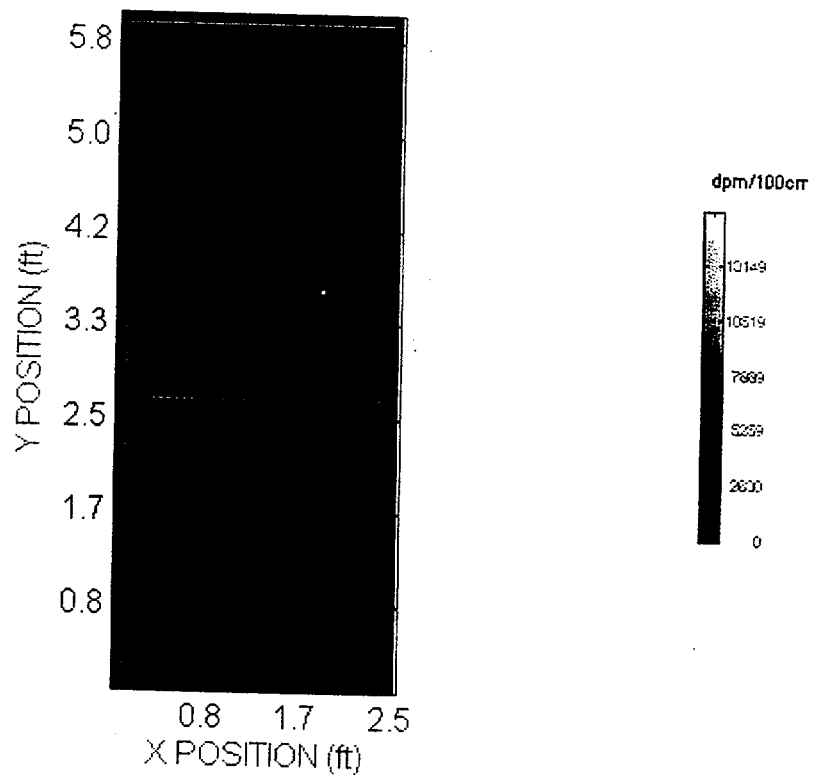


Figure 2 Meter Grid overlaid onto dpm/25cm² image plot

X	Y	Mean	Max	Min	STD	Pixels
1	2	1,805	2,629	556	457.8	300
1	1	1,839	2,478	749	400.4	240

Table 1 dpm/100cm² averaged over one square meter. Grids (1,1) - (1,1) and Grids (1,1) - (1,2) are not one square meter. Bold text denotes grids which exceed release limits

COMPARISON OF RESULTS WITH GUIDELINES

The survey data provided by the SRA Surface Contamination Monitor, serial number SCM2, was compared to the following criteria. The limits for total activity were calculated by adding an observed background of 2208 dpm/100 cm² to the survey criteria.

Criteria

1000 dpm/100 cm², averaged over 1m²
3000 dpm/100 cm², maximum in 100 cm²

Total Activity Limits

3208 dpm/100 cm², averaged over 1m²
5208 dpm/100 cm², maximum in 100 cm²

The survey results indicate that surface activity levels averaged over one square meter were below the site-specific guidelines for release.

The survey results indicate that the maximum surface activity levels in the 100 square centimeter zones were below the site-specific guidelines for release.

Introduction

Survey SA0712F was conducted on January 20, 1999 by TODD_CHETE as part of the STALBANS survey. Data was gathered using SRA Surface Contamination Monitor, SCM2. The Position Sensitive Proportional Counter was operating with an efficiency of 71%. The SRA Survey Information Management System was used to provide visual imaging and analysis of the survey data and to generate this report.

Surface Activity Levels

The SCM measures and records activity in 25 cm² areas called pixels. Each square meter contains 400 individual pixels. These pixels can be summed into 100 cm² areas for comparison to release criteria. To evaluate the measured activity levels versus release criteria, consecutive 100 cm² sums are offset by 25 cm² pixels, thus ensuring that all possible 100 cm² combinations of the data are considered.

Total measured activity for SA0712F ranged from 0 to 534 dpm/pixel. 100 cm² data ranged from 0 to 1,442 dpm/100 cm². An interpolated surface plot of the data is provided in Figure 1. A light source is simulated to add definition via shadows to the artifacts in the image.

Square Meter Data

Conventional statistics are provided by SIMS. The survey is divided into meter grids. For each grid the 100 cm² data is analyzed for mean, min, max, and standard deviation. The number of pixels containing data is also reported for each grid. Figure 2 shows the grid pattern, while Table 1 details the statistical data for each grid. Bold text denotes grids which exceed release limits.

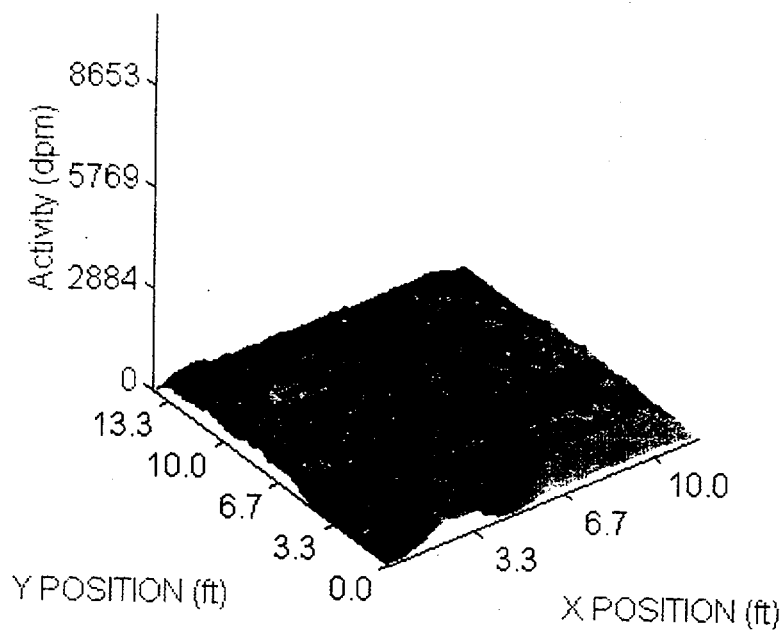


Figure 1 Image plot of surface activity in dpm/25cm²

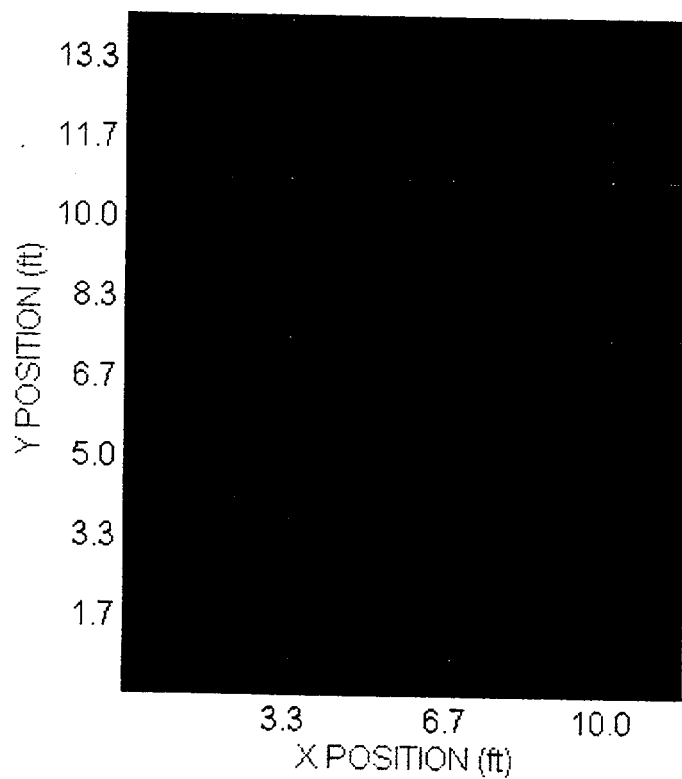


Figure 2 Meter Grid overlaid onto dpm/25cm² image plot

X	Y	Mean	Max	Min	STD	Pixels
1	5	571	740	188	93.9	400
2	5	579	909	264	112.5	400
3	5	572	806	244	124.3	400
4	5	335	731	8	200.3	180
1	4	609	778	393	63.5	400
2	4	661	1,156	445	83.6	400
3	4	660	907	467	68.4	400
4	4	496	774	33	182.0	197
1	3	557	843	0	139.4	392
2	3	641	1,025	486	70.7	400
3	3	658	877	460	81.3	400
4	3	549	810	269	111.8	200
1	2	543	1,442	0	321.6	310
2	2	479	861	0	229.8	370
3	2	723	981	540	56.3	400
4	2	543	774	218	145.4	200
1	1	440	779	0	257.6	65
2	1	226	516	0	153.3	76
3	1	328	490	110	105.0	80
4	1	245	361	38	95.7	40

Table 1 dpm/100cm² averaged over one square meter. Grids (1,1) - (4,1) and Grids (4,1) - (4,5) are not one square meter. Bold text denotes grids which exceed release limits

COMPARISON OF RESULTS WITH GUIDELINES

The survey data provided by the SRA Surface Contamination Monitor, serial number SCM2, was compared to the following criteria. The limits for total activity were calculated by adding an observed background of 554 dpm/100 cm² to the survey criteria.

Criteria

1000 dpm/100 cm², averaged over 1m²
3000 dpm/100 cm², maximum in 100 cm²

Total Activity Limits

1554 dpm/100 cm², averaged over 1m²
3554 dpm/100 cm², maximum in 100 cm²

The survey results indicate that surface activity levels averaged over one square meter were below the site-specific guidelines for release.

The survey results indicate that the maximum surface activity levels in the 100 square centimeter zones were below the site-specific guidelines for release.

Introduction

Survey SA0713F was conducted on January 20, 1999 by TODD_CHETE as part of the STALBANS survey. Data was gathered using SRA Surface Contamination Monitor, SCM2. The Position Sensitive Proportional Counter was operating with an efficiency of 71%. The SRA Survey Information Management System was used to provide visual imaging and analysis of the survey data and to generate this report.

Surface Activity Levels

The SCM measures and records activity in 25 cm² areas called pixels. Each square meter contains 400 individual pixels. These pixels can be summed into 100 cm² areas for comparison to release criteria. To evaluate the measured activity levels versus release criteria, consecutive 100 cm² sums are offset by 25 cm² pixels, thus ensuring that all possible 100 cm² combinations of the data are considered.

Total measured activity for SA0713F ranged from 0 to 1,306 dpm/pixel. 100 cm² data ranged from 0 to 3,223 dpm/100 cm². An interpolated surface plot of the data is provided in Figure 1. A light source is simulated to add definition via shadows to the artifacts in the image.

Square Meter Data

Conventional statistics are provided by SIMS. The survey is divided into meter grids. For each grid the 100 cm² data is analyzed for mean, min, max, and standard deviation. The number of pixels containing data is also reported for each grid. Figure 2 shows the grid pattern, while Table 1 details the statistical data for each grid. Bold text denotes grids which exceed release limits.

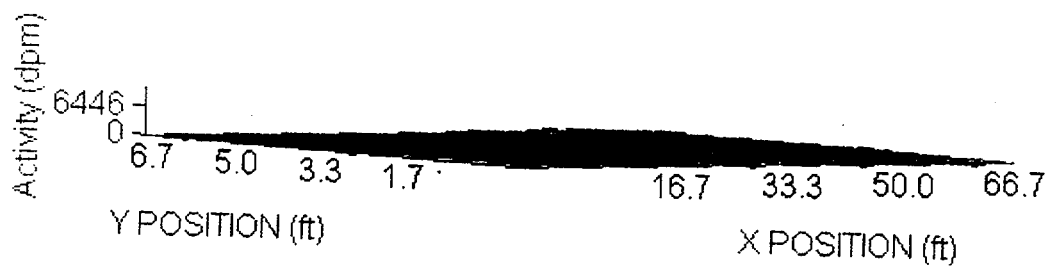


Figure 1 Image plot of surface activity in dpm/25cm²

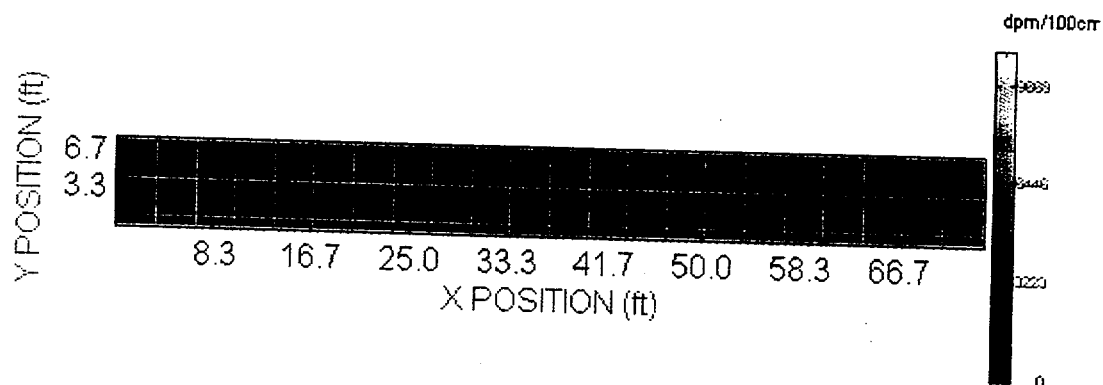


Figure 2 Meter Grid overlaid onto dpm/25cm² image plot

X	Y	Mean	Max	Min	STD	Pixels
1	3	351	907	0	251.2	200
2	3	358	876	0	240.1	200
3	3	330	728	0	222.9	200
4	3	360	742	0	239.4	200
5	3	337	769	0	232.7	200
6	3	427	1,007	0	289.5	200
7	3	360	824	0	248.2	200
8	3	392	900	0	272.2	200
9	3	350	914	0	242.5	200
10	3	353	778	0	240.4	200
11	3	339	784	0	233.2	200
12	3	331	689	0	222.5	200
13	3	350	823	0	234.4	200
14	3	439	744	0	253.2	320
15	3	625	1,002	372	91.7	400
16	3	618	1,173	266	107.5	400
17	3	631	896	305	101.8	400
18	3	693	1,050	377	111.6	400
19	3	661	1,021	288	129.5	400
20	3	662	1,074	327	108.9	400
21	3	642	902	274	102.0	400
22	3	576	957	183	142.7	400
23	3	322	0	0	79.6	40
1	2	651	970	339	90.6	400
2	2	683	1,134	485	86.4	400
3	2	681	994	440	64.0	400
4	2	675	951	455	73.2	400
5	2	698	920	524	49.9	400
6	2	698	894	519	46.6	400
7	2	634	921	420	49.8	400
8	2	623	742	518	39.2	400
9	2	654	993	393	83.0	400
10	2	628	844	510	55.7	400
11	2	672	974	518	67.9	400
12	2	627	938	520	62.5	400
13	2	644	990	508	55.5	400
14	2	657	897	536	47.5	400
15	2	655	905	512	76.1	400
16	2	641	778	500	43.3	400
17	2	679	949	534	55.3	400
18	2	707	1,175	567	83.0	400
19	2	717	1,109	524	79.9	400
20	2	713	1,034	537	84.1	400
21	2	658	811	516	53.8	400
22	2	684	954	467	65.3	400

23	2	436	0	0	62.0	40
1	1	543	726	288	111.0	120
2	1	688	909	474	98.5	120
3	1	674	999	379	108.4	120
4	1	648	887	440	102.1	120
5	1	649	870	408	96.0	120
6	1	643	766	362	91.1	120
7	1	579	817	393	84.4	120
8	1	635	756	447	61.9	120
9	1	650	954	350	118.0	120
10	1	544	776	348	92.0	120
11	1	636	1,305	324	147.8	120
12	1	792	3,222	393	485.9	120
13	1	665	966	410	108.7	120
14	1	631	927	404	109.2	120
15	1	650	820	387	104.0	120
16	1	533	687	347	77.4	120
17	1	631	1,266	316	149.3	120
18	1	661	870	385	103.3	120
19	1	636	854	426	88.8	120
20	1	604	734	423	78.0	120
21	1	618	829	353	92.8	120
22	1	621	815	308	117.6	120
23	1	278	0	0	41.0	12

Table 1 dpm/100cm² averaged over one square meter. Grids (1,1) - (23,1) and Grids (23,1) - (23,3) are not one square meter. Bold text denotes grids which exceed release limits

COMPARISON OF RESULTS WITH GUIDELINES

The survey data provided by the SRA Surface Contamination Monitor, serial number SCM2, was compared to the following criteria. The limits for total activity were calculated by adding an observed background of 554 dpm/100 cm² to the survey criteria.

Criteria

1000 dpm/100 cm², averaged over 1m²
3000 dpm/100 cm², maximum in 100 cm²

Total Activity Limits

1554 dpm/100 cm², averaged over 1m²
3554 dpm/100 cm², maximum in 100 cm²

The survey results indicate that surface activity levels averaged over one square meter were below the site-specific guidelines for release.

The survey results indicate that the maximum surface activity levels in the 100 square centimeter zones were below the site-specific guidelines for release.

Introduction

Survey SA0713S was conducted on January 22, 1999 by TODD_CHETE as part of the STALBANS survey. Data was gathered using SRA Surface Contamination Monitor, SCM2. The Position Sensitive Proportional Counter was operating with an efficiency of 66%. The SRA Survey Information Management System was used to provide visual imaging and analysis of the survey data and to generate this report.

Surface Activity Levels

The SCM measures and records activity in 25 cm² areas called pixels. Each square meter contains 400 individual pixels. These pixels can be summed into 100 cm² areas for comparison to release criteria. To evaluate the measured activity levels versus release criteria, consecutive 100 cm² sums are offset by 25 cm² pixels, thus ensuring that all possible 100 cm² combinations of the data are considered.

Total measured activity for SA0713S ranged from 0 to 1,054 dpm/pixel. 100 cm² data ranged from 0 to 3,187 dpm/100 cm². An interpolated surface plot of the data is provided in Figure 1. A light source is simulated to add definition via shadows to the artifacts in the image.

Square Meter Data

Conventional statistics are provided by SIMS. The survey is divided into meter grids. For each grid the 100 cm² data is analyzed for mean, min, max, and standard deviation. The number of pixels containing data is also reported for each grid. Figure 2 shows the grid pattern, while Table 1 details the statistical data for each grid. Bold text denotes grids which exceed release limits.

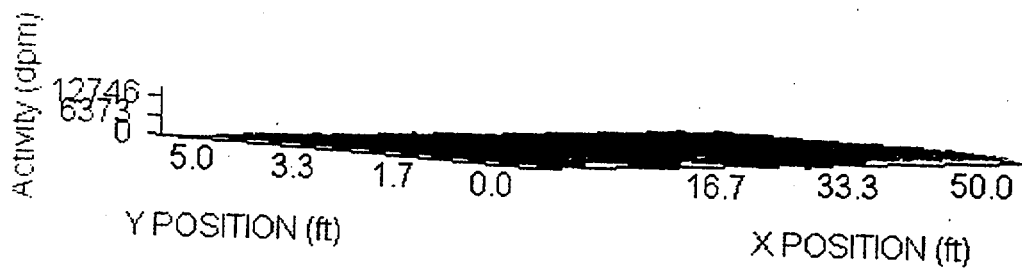


Figure 1 Image plot of surface activity in dpm/25cm²

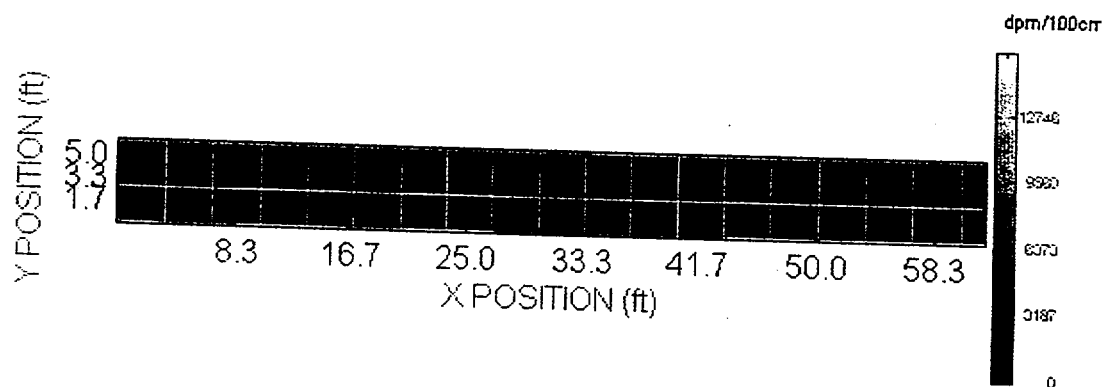


Figure 2 Meter Grid overlaid onto dpm/25cm² image plot

X	Y	Mean	Max	Min	STD	Pixels
1	2	1,790	2,880	237	710.9	400
2	2	243	433	0	97.8	60
3	2	1,529	2,968	0	1067.3	300
4	2	1,353	2,584	322	732.4	400
5	2	1,344	2,972	79	728.7	400
6	2	168	293	0	55.4	40
7	2	1,723	2,796	156	759.2	400
8	2	1,867	2,921	229	711.4	400
9	2	423	1,281	0	238.8	80
10	2	0	0	0	.0	0
11	2	0	0	0	.0	0
12	2	0	0	0	.0	0
13	2	222	337	0	86.5	60
14	2	1,868	2,979	195	732.9	400
15	2	1,987	3,162	308	741.4	400
16	2	1,944	2,829	320	719.3	400
17	2	1,882	3,022	357	700.3	400
18	2	1,994	2,931	456	665.7	400
19	2	1,809	2,612	258	667.3	220
1	1	2,202	2,707	1,271	306.7	320
2	1	267	409	0	102.0	48
3	1	1,789	2,693	0	1084.6	240
4	1	2,345	3,185	1,415	238.0	320
5	1	2,065	2,923	239	715.1	320
6	1	194	282	0	61.7	32
7	1	2,164	2,857	323	550.3	320
8	1	2,271	3,131	1,348	230.8	320
9	1	475	1,211	0	259.9	64
10	1	0	0	0	.0	0
11	1	0	0	0	.0	0
12	1	0	0	0	.0	0
13	1	227	318	0	85.0	48
14	1	2,305	3,096	1,119	332.3	320
15	1	2,313	2,901	1,366	256.8	320
16	1	2,300	2,839	1,000	248.2	320
17	1	2,307	3,186	1,341	277.7	320
18	1	2,446	3,021	1,478	246.3	320
19	1	2,273	2,902	1,190	318.7	176

Table 1 dpm/100cm² averaged over one square meter. Grids (1,1) - (19,1) and Grids (19,1) - (19,2) are not one square meter. Bold text denotes grids which exceed release limits

COMPARISON OF RESULTS WITH GUIDELINES

The survey data provided by the SRA Surface Contamination Monitor, serial number SCM2, was compared to the following criteria. The limits for total activity were calculated by adding an observed background of 2208 dpm/100 cm² to the survey criteria.

Criteria

1000 dpm/100 cm², averaged over 1m²
3000 dpm/100 cm², maximum in 100 cm²

Total Activity Limits

3208 dpm/100 cm², averaged over 1m²
5208 dpm/100 cm², maximum in 100 cm²

The survey results indicate that surface activity levels averaged over one square meter were below the site-specific guidelines for release.

The survey results indicate that the maximum surface activity levels in the 100 square centimeter zones were below the site-specific guidelines for release.

Introduction

Survey SA0714E was conducted on January 22, 1999 by TODD_CHETE as part of the STALBANS survey. Data was gathered using SRA Surface Contamination Monitor, SCM2. The Position Sensitive Proportional Counter was operating with an efficiency of 65%. The SRA Survey Information Management System was used to provide visual imaging and analysis of the survey data and to generate this report.

Surface Activity Levels

The SCM measures and records activity in 25 cm² areas called pixels. Each square meter contains 400 individual pixels. These pixels can be summed into 100 cm² areas for comparison to release criteria. To evaluate the measured activity levels versus release criteria, consecutive 100 cm² sums are offset by 25 cm² pixels, thus ensuring that all possible 100 cm² combinations of the data are considered.

Total measured activity for SA0714E ranged from 49 to 794 dpm/pixel. 100 cm² data ranged from 49 to 2,867 dpm/100 cm². An interpolated surface plot of the data is provided in Figure 1. A light source is simulated to add definition via shadows to the artifacts in the image.

Square Meter Data

Conventional statistics are provided by SIMS. The survey is divided into meter grids. For each grid the 100 cm² data is analyzed for mean, min, max, and standard deviation. The number of pixels containing data is also reported for each grid. Figure 2 shows the grid pattern, while Table 1 details the statistical data for each grid. Bold text denotes grids which exceed release limits.

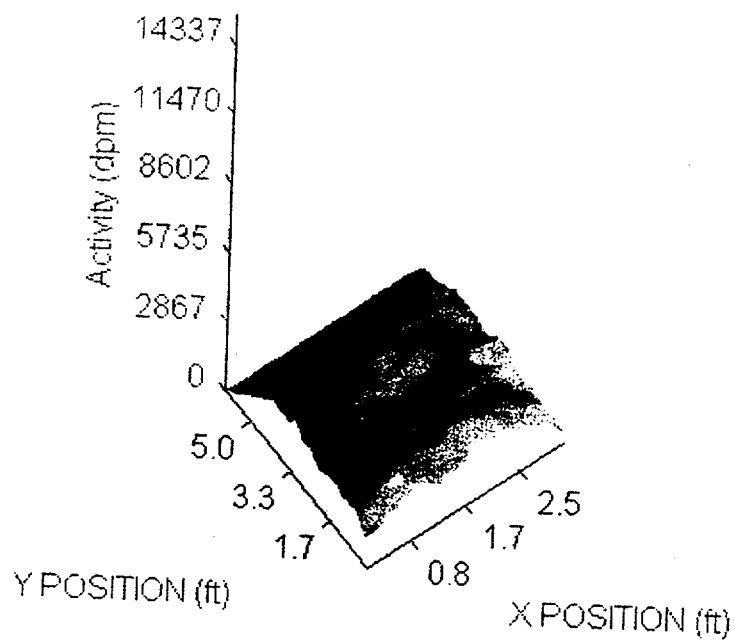


Figure 1 Image plot of surface activity in dpm/25cm²

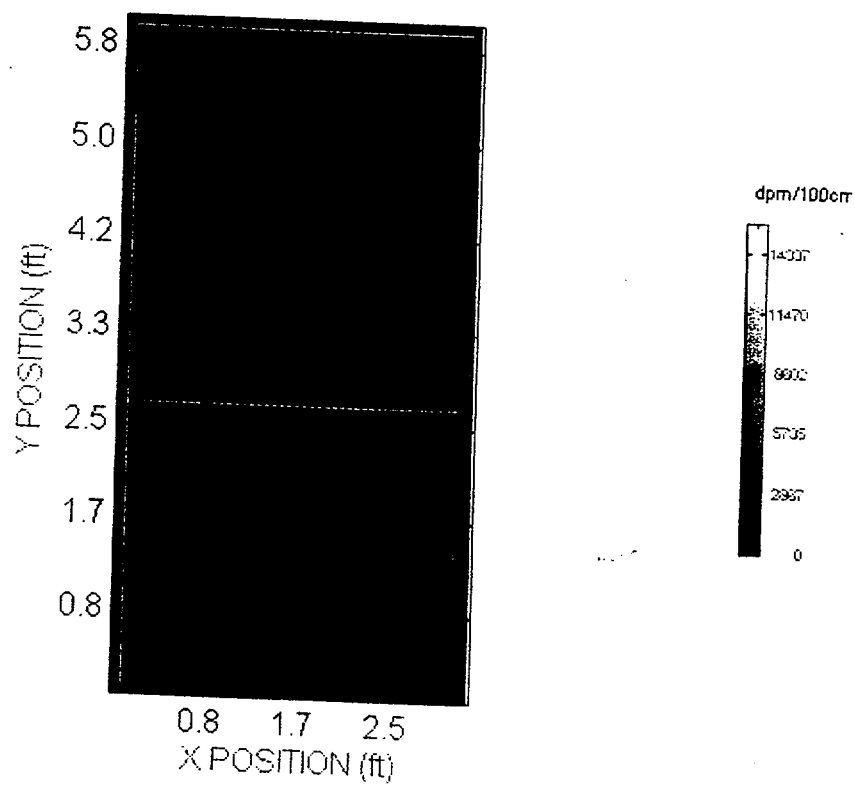


Figure 2 Meter Grid overlaid onto dpm/25cm² image plot

X	Y	Mean	Max	Min	STD	Pixels
1	2	1,746	2,867	254	753.0	380
1	1	2,097	2,626	985	326.1	304

Table 1 dpm/100cm² averaged over one square meter. Grids (1,1) - (1,1) and Grids (1,1) - (1,2) are not one square meter. Bold text denotes grids which exceed release limits

COMPARISON OF RESULTS WITH GUIDELINES

The survey data provided by the SRA Surface Contamination Monitor, serial number SCM2, was compared to the following criteria. The limits for total activity were calculated by adding an observed background of 2208 dpm/100 cm² to the survey criteria.

Criteria

1000 dpm/100 cm², averaged over 1m²
3000 dpm/100 cm², maximum in 100 cm²

Total Activity Limits

3208 dpm/100 cm², averaged over 1m²
5208 dpm/100 cm², maximum in 100 cm²

The survey results indicate that surface activity levels averaged over one square meter were below the site-specific guidelines for release.

The survey results indicate that the maximum surface activity levels in the 100 square centimeter zones were below the site-specific guidelines for release.

Introduction

Survey SA0714F was conducted on January 20, 1999 by TODD_CHETE as part of the STALBANS survey. Data was gathered using SRA Surface Contamination Monitor, SCM2. The Position Sensitive Proportional Counter was operating with an efficiency of 71%. The SRA Survey Information Management System was used to provide visual imaging and analysis of the survey data and to generate this report.

Surface Activity Levels

The SCM measures and records activity in 25 cm² areas called pixels. Each square meter contains 400 individual pixels. These pixels can be summed into 100 cm² areas for comparison to release criteria. To evaluate the measured activity levels versus release criteria, consecutive 100 cm² sums are offset by 25 cm² pixels, thus ensuring that all possible 100 cm² combinations of the data are considered.

Total measured activity for SA0714F ranged from 0 to 2,336 dpm/pixel. 100 cm² data ranged from 0 to 6,310 dpm/100 cm². An interpolated surface plot of the data is provided in Figure 1. A light source is simulated to add definition via shadows to the artifacts in the image.

Square Meter Data

Conventional statistics are provided by SIMS. The survey is divided into meter grids. For each grid the 100 cm² data is analyzed for mean, min, max, and standard deviation. The number of pixels containing data is also reported for each grid. Figure 2 shows the grid pattern, while Table 1 details the statistical data for each grid. Bold text denotes grids which exceed release limits.

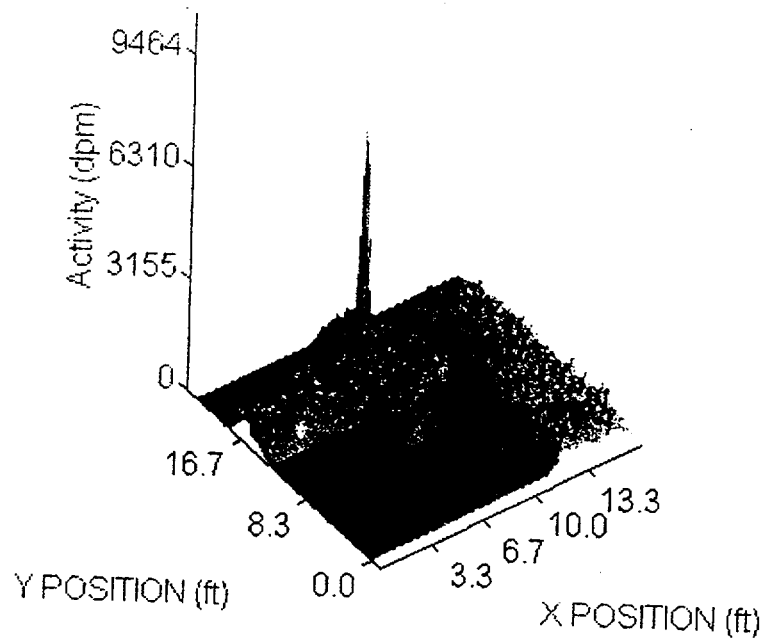


Figure 1 Image plot of surface activity in dpm/25cm²

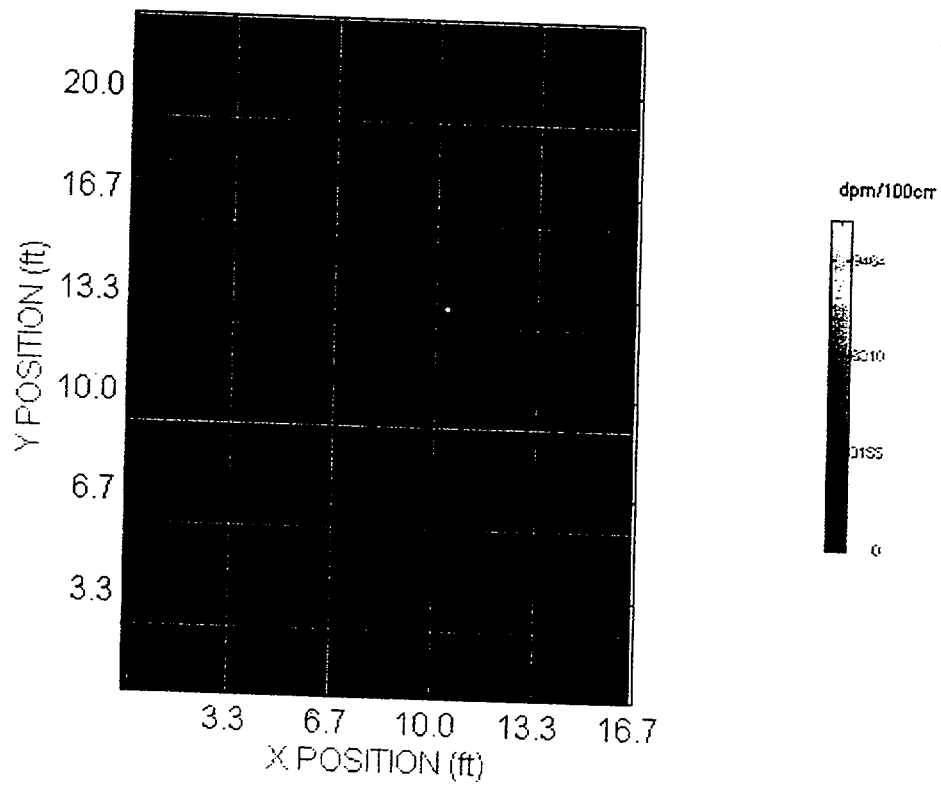


Figure 2 Meter Grid overlaid onto dpm/25cm² image plot

X	Y	Mean	Max	Min	STD	Pixels
1	7	0	0	0	.0	0
2	7	94	399	0	60.9	100
3	7	579	6,309	0	650.3	355
4	7	218	1,057	0	189.2	259
5	7	367	818	0	250.8	298
1	6	452	780	0	253.0	340
2	6	536	863	72	119.0	400
3	6	581	998	273	117.8	400
4	6	577	1,001	359	85.6	400
5	6	578	1,006	266	130.9	400
1	5	456	774	0	235.7	300
2	5	443	907	0	232.2	325
3	5	500	1,177	0	197.0	380
4	5	505	1,194	0	237.9	355
5	5	631	1,315	242	147.9	400
1	4	0	0	0	.0	0
2	4	143	516	0	79.3	100
3	4	455	1,349	0	293.6	320
4	4	470	1,196	0	317.6	220
5	4	582	984	253	129.7	400
1	3	0	0	0	.0	0
2	3	41	71	0	6.2	10
3	3	98	147	0	25.8	32
4	3	473	1,122	0	316.0	220
5	3	607	1,084	239	142.0	400
1	2	0	0	0	.0	0
2	2	0	0	0	.0	0
3	2	0	0	0	.0	0
4	2	437	988	0	285.6	220
5	2	572	1,042	316	116.4	400
1	1	0	0	0	.0	0
2	1	0	0	0	.0	0
3	1	0	0	0	.0	0
4	1	376	854	0	245.9	154
5	1	564	954	171	166.4	280

Table 1 dpm/100cm² averaged over one square meter. Grids (1,1) - (5,1) and Grids (5,1) - (5,7) are not one square meter. Bold text denotes grids which exceed release limits

COMPARISON OF RESULTS WITH GUIDELINES

The survey data provided by the SRA Surface Contamination Monitor, serial number SCM2, was compared to the following criteria. The limits for total activity were calculated by adding an observed background of 554 dpm/100 cm² to the survey criteria.

Criteria

1000 dpm/100 cm², averaged over 1m²
3000 dpm/100 cm², maximum in 100 cm²

Total Activity Limits

1554 dpm/100 cm², averaged over 1m²
3554 dpm/100 cm², maximum in 100 cm²

The survey results indicate that surface activity levels averaged over one square meter were below the site-specific guidelines for release.

The survey results indicate that the maximum surface activity levels in the 100 square centimeter zones were above the site-specific guidelines for release. Figure 3 details which zones were above release limits:

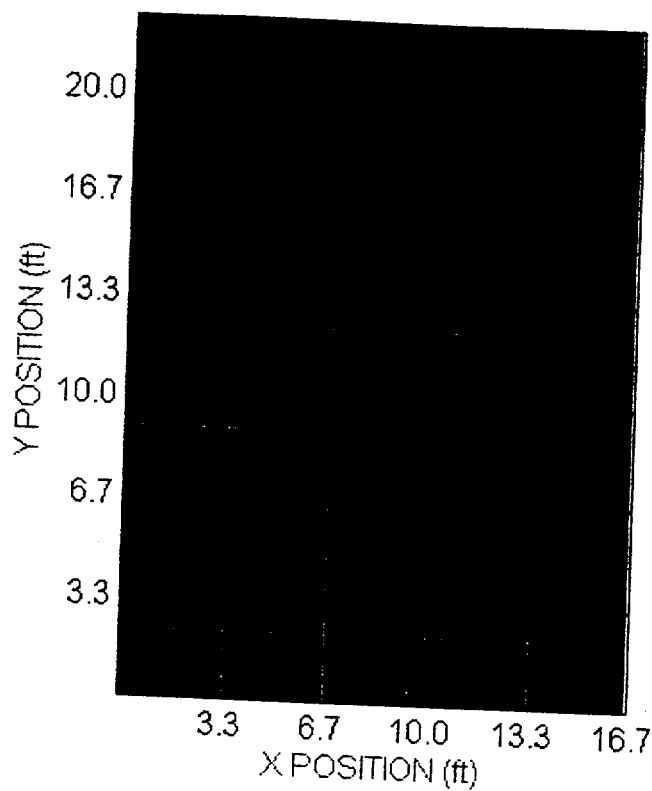


Figure 3 Yellow shading denotes grids in excess of the average limit, while red pixels correspond to the upper left coordinate of a 100cm² area exceeding the maximum limit.

Introduction

Survey SA0715F was conducted on January 20, 1999 by TODD_CHETE as part of the STALBANS survey. Data was gathered using SRA Surface Contamination Monitor, SCM2. The Position Sensitive Proportional Counter was operating with an efficiency of 71%. The SRA Survey Information Management System was used to provide visual imaging and analysis of the survey data and to generate this report.

Surface Activity Levels

The SCM measures and records activity in 25 cm^2 areas called pixels. Each square meter contains 400 individual pixels. These pixels can be summed into 100 cm^2 areas for comparison to release criteria. To evaluate the measured activity levels versus release criteria, consecutive 100 cm^2 sums are offset by 25 cm^2 pixels, thus ensuring that all possible 100 cm^2 combinations of the data are considered.

Total measured activity for SA0715F ranged from 0 to 496 dpm/pixel. 100 cm^2 data ranged from 0 to 1,557 dpm/ 100 cm^2 . An interpolated surface plot of the data is provided in Figure 1. A light source is simulated to add definition via shadows to the artifacts in the image.

Square Meter Data

Conventional statistics are provided by SIMS. The survey is divided into meter grids. For each grid the 100 cm^2 data is analyzed for mean, min, max, and standard deviation. The number of pixels containing data is also reported for each grid. Figure 2 shows the grid pattern, while Table 1 details the statistical data for each grid. Bold text denotes grids which exceed release limits.

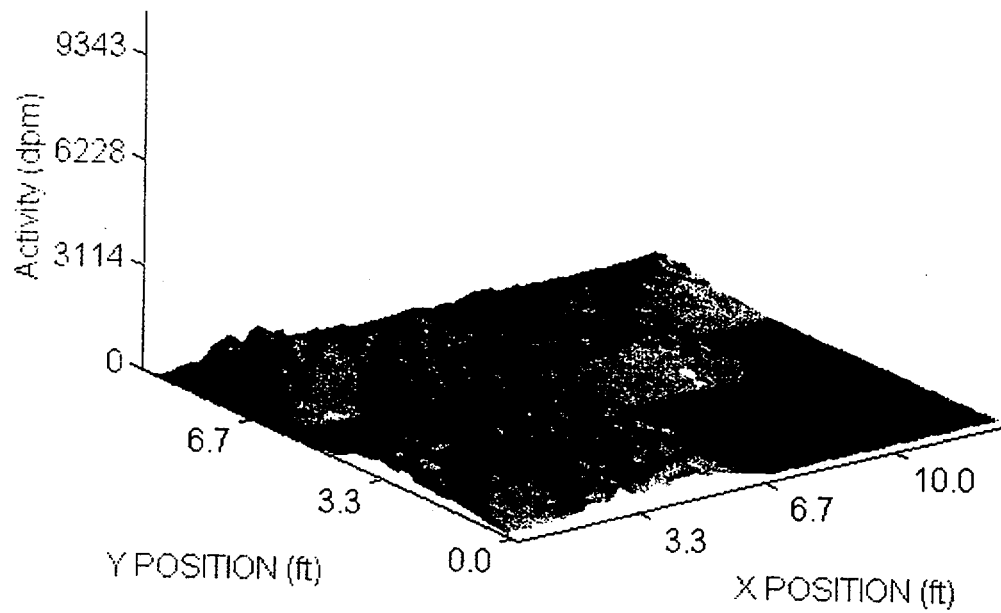


Figure 1 Image plot of surface activity in dpm/25cm²

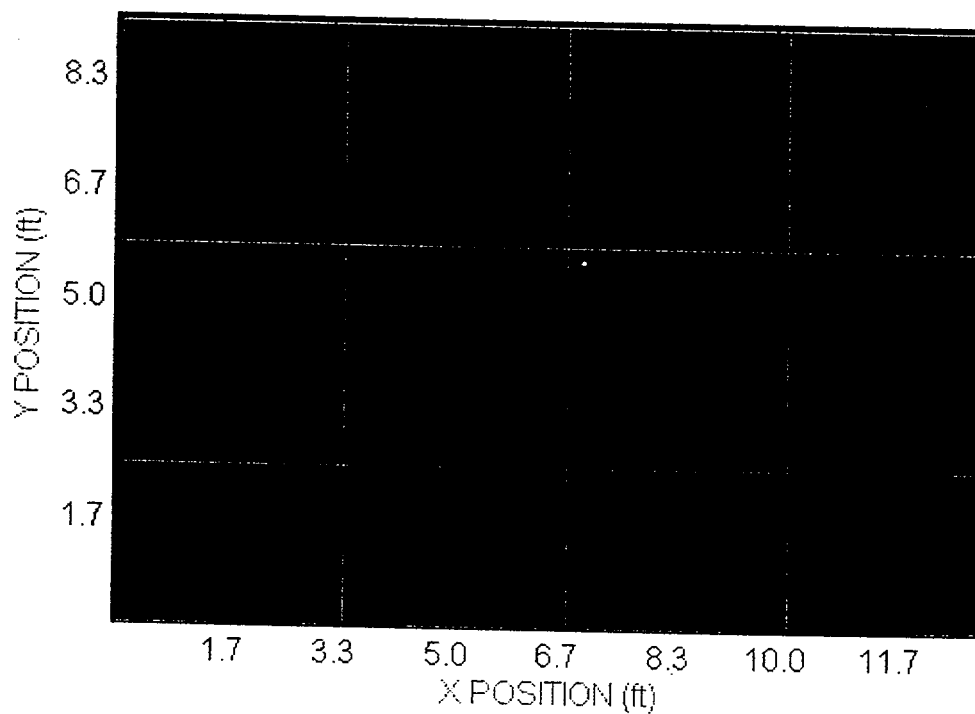


Figure 2 Meter Grid overlaid onto dpm/25cm² image plot

X	Y	Mean	Max	Min	STD	Pixels
1	3	568	1,557	0	398.4	318
2	3	521	829	173	113.6	400
3	3	533	1,092	202	140.0	400
4	3	442	815	14	186.5	336
1	2	371	713	0	200.4	344
2	2	527	912	237	90.5	400
3	2	375	716	0	234.8	230
4	2	183	531	0	89.5	60
1	1	423	739	63	142.2	291
2	1	480	675	182	80.8	300
3	1	101	180	0	41.3	45
4	1	0	0	0	.0	0

Table 1 dpm/100cm² averaged over one square meter. Grids (1,1) - (4,1) and Grids (4,1) - (4,3) are not one square meter. Bold text denotes grids which exceed release limits

COMPARISON OF RESULTS WITH GUIDELINES

The survey data provided by the SRA Surface Contamination Monitor, serial number SCM2, was compared to the following criteria. The limits for total activity were calculated by adding an observed background of 554 dpm/100 cm² to the survey criteria.

Criteria

1000 dpm/100 cm², averaged over 1m²
3000 dpm/100 cm², maximum in 100 cm²

Total Activity Limits

1554 dpm/100 cm², averaged over 1m²
3554 dpm/100 cm², maximum in 100 cm²

The survey results indicate that surface activity levels averaged over one square meter were below the site-specific guidelines for release.

The survey results indicate that the maximum surface activity levels in the 100 square centimeter zones were below the site-specific guidelines for release.

Introduction

Survey SA0716F was conducted on January 20, 1999 by TODD_CHETE as part of the STALBANS survey. Data was gathered using SRA Surface Contamination Monitor, SCM2. The Position Sensitive Proportional Counter was operating with an efficiency of 71%. The SRA Survey Information Management System was used to provide visual imaging and analysis of the survey data and to generate this report.

Surface Activity Levels

The SCM measures and records activity in 25 cm^2 areas called pixels. Each square meter contains 400 individual pixels. These pixels can be summed into 100 cm^2 areas for comparison to release criteria. To evaluate the measured activity levels versus release criteria, consecutive 100 cm^2 sums are offset by 25 cm^2 pixels, thus ensuring that all possible 100 cm^2 combinations of the data are considered.

Total measured activity for SA0716F ranged from 0 to 2,218 dpm/pixel. 100 cm^2 data ranged from 0 to 5,228 dpm/ 100 cm^2 . An interpolated surface plot of the data is provided in Figure 1. A light source is simulated to add definition via shadows to the artifacts in the image.

Square Meter Data

Conventional statistics are provided by SIMS. The survey is divided into meter grids. For each grid the 100 cm^2 data is analyzed for mean, min, max, and standard deviation. The number of pixels containing data is also reported for each grid. Figure 2 shows the grid pattern, while Table 1 details the statistical data for each grid. Bold text denotes grids which exceed release limits.

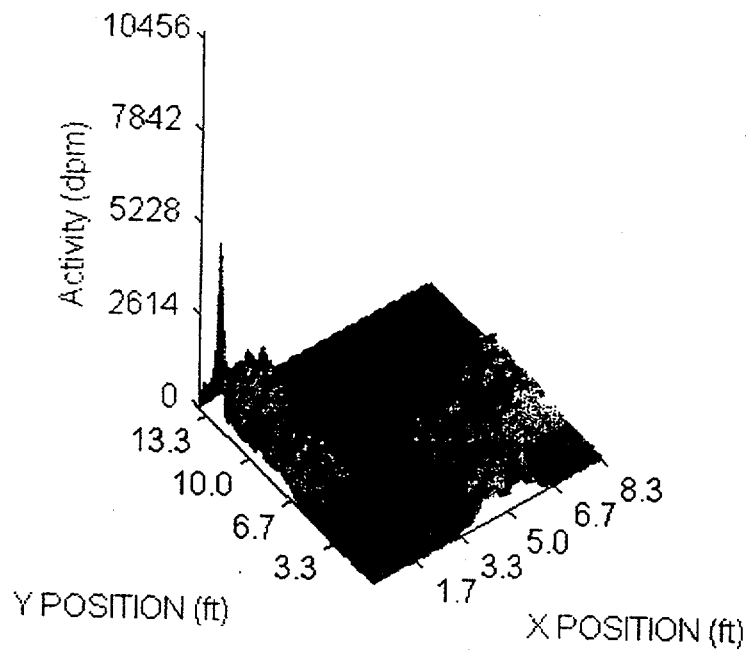


Figure 1 Image plot of surface activity in dpm/25cm²

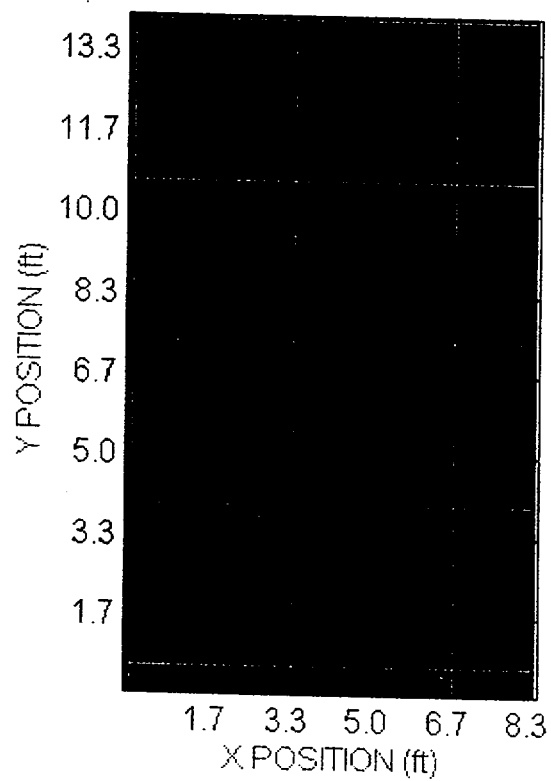


Figure 2 Meter Grid overlaid onto dpm/25cm² image plot

X	Y	Mean	Max	Min	STD	Pixels
1	5	663	5,227	0	536.3	340
2	5	0	0	0	.0	0
3	5	0	0	0	.0	0
1	4	489	1,197	0	253.9	342
2	4	149	628	0	111.2	124
3	4	409	716	0	239.8	176
1	3	286	1,145	0	211.0	156
2	3	435	878	38	178.2	400
3	3	551	934	260	117.0	220
1	2	26	37	0	5.7	20
2	2	381	877	90	162.2	400
3	2	221	478	0	106.4	55
1	1	30	34	0	6.7	4
2	1	404	723	79	170.6	80
3	1	0	0	0	.0	0

Table 1 dpm/100cm² averaged over one square meter. Grids (1,1) - (3,1) and Grids (3,1) - (3,5) are not one square meter. Bold text denotes grids which exceed release limits

COMPARISON OF RESULTS WITH GUIDELINES

The survey data provided by the SRA Surface Contamination Monitor, serial number SCM2, was compared to the following criteria. The limits for total activity were calculated by adding an observed background of 554 dpm/100 cm² to the survey criteria.

Criteria

1000 dpm/100 cm², averaged over 1m²
3000 dpm/100 cm², maximum in 100 cm²

Total Activity Limits

1554 dpm/100 cm², averaged over 1m²
3554 dpm/100 cm², maximum in 100 cm²

The survey results indicate that surface activity levels averaged over one square meter were below the site-specific guidelines for release.

The survey results indicate that the maximum surface activity levels in the 100 square centimeter zones were above the site-specific guidelines for release. Figure 3 details which zones were above release limits:

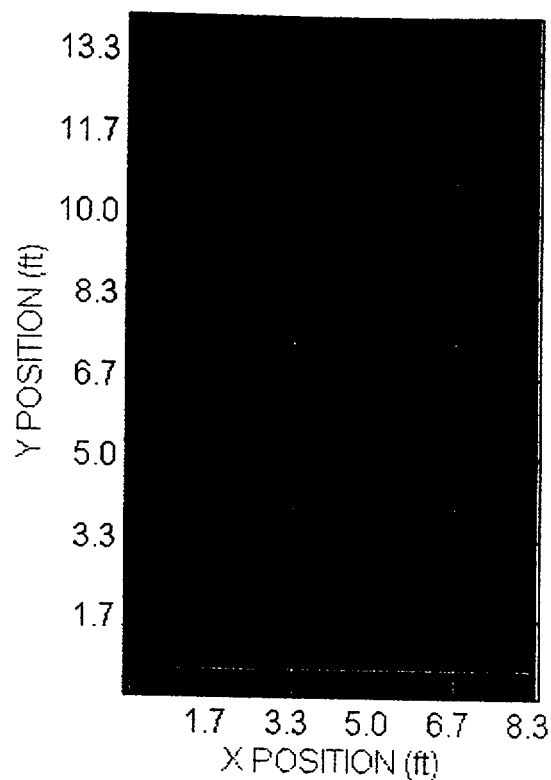


Figure 3 Yellow shading denotes grids in excess of the average limit, while red pixels correspond to the upper left coordinate of a 100cm² area exceeding the maximum limit.

Introduction

Survey SA0717F was conducted on January 20, 1999 by TODD_CHETE as part of the STALBANS survey. Data was gathered using SRA Surface Contamination Monitor, SCM2. The Position Sensitive Proportional Counter was operating with an efficiency of 71%. The SRA Survey Information Management System was used to provide visual imaging and analysis of the survey data and to generate this report.

Surface Activity Levels

The SCM measures and records activity in 25 cm² areas called pixels. Each square meter contains 400 individual pixels. These pixels can be summed into 100 cm² areas for comparison to release criteria. To evaluate the measured activity levels versus release criteria, consecutive 100 cm² sums are offset by 25 cm² pixels, thus ensuring that all possible 100 cm² combinations of the data are considered.

Total measured activity for SA0717F ranged from 0 to 644 dpm/pixel. 100 cm² data ranged from 0 to 1,605 dpm/100 cm². An interpolated surface plot of the data is provided in Figure 1. A light source is simulated to add definition via shadows to the artifacts in the image.

Square Meter Data

Conventional statistics are provided by SIMS. The survey is divided into meter grids. For each grid the 100 cm² data is analyzed for mean, min, max, and standard deviation. The number of pixels containing data is also reported for each grid. Figure 2 shows the grid pattern, while Table 1 details the statistical data for each grid. Bold text denotes grids which exceed release limits.

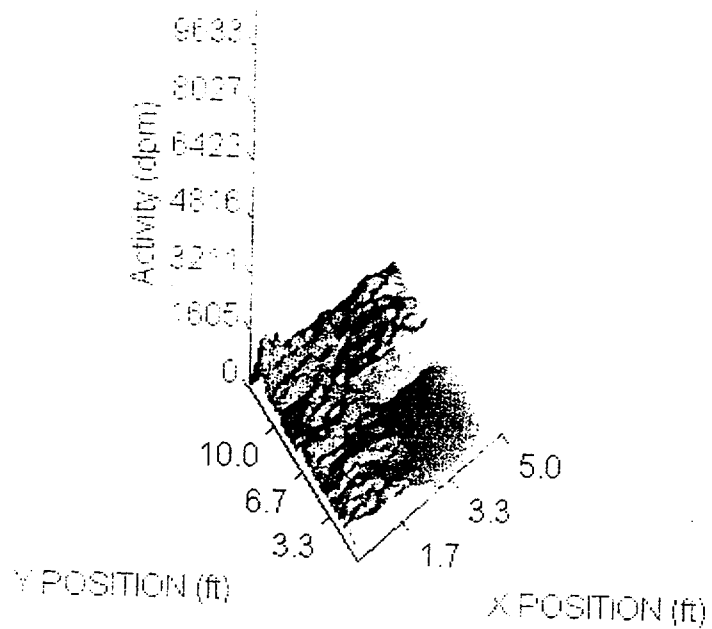


Figure 1 Image plot of surface activity in dpm/25cm²

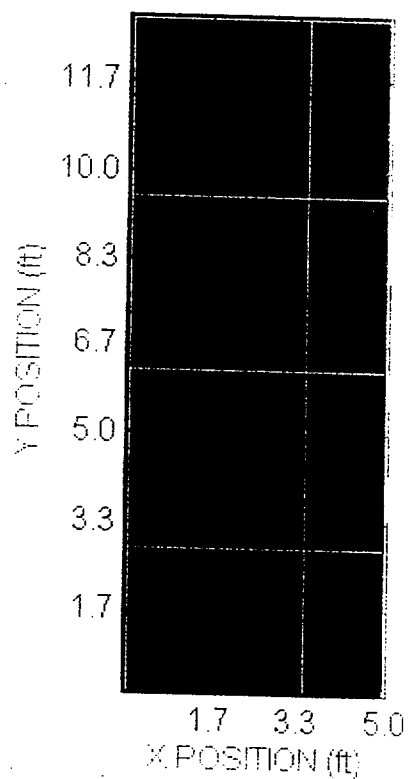


Figure 2 Meter Grid overlaid onto dpm/25cm² image plot

X	Y	Mean	Max	Min	STD	Pixels
1	4	664	1,605	195	198.7	400
2	4	434	761	48	178.6	200
1	3	548	1,001	0	167.1	388
2	3	408	758	0	208.4	160
1	2	425	724	0	205.7	340
2	2	0	0	0	.0	0
1	1	409	674	0	204.0	289
2	1	0	0	0	.0	0

Table 1 dpm/100cm² averaged over one square meter. Grids (1,1) - (2,1) and Grids (2,1) - (2,4) are not one square meter. Bold text denotes grids which exceed release limits

COMPARISON OF RESULTS WITH GUIDELINES

The survey data provided by the SRA Surface Contamination Monitor, serial number SCM2, was compared to the following criteria. The limits for total activity were calculated by adding an observed background of 554 dpm/100 cm² to the survey criteria.

Criteria

1000 dpm/100 cm², averaged over 1m²
3000 dpm/100 cm², maximum in 100 cm²

Total Activity Limits

1554 dpm/100 cm², averaged over 1m²
3554 dpm/100 cm², maximum in 100 cm²

The survey results indicate that surface activity levels averaged over one square meter were below the site-specific guidelines for release.

The survey results indicate that the maximum surface activity levels in the 100 square centimeter zones were below the site-specific guidelines for release.

Introduction

Survey SA0718F was conducted on January 20, 1999 by TODD_CHETE as part of the STALBANS survey. Data was gathered using SRA Surface Contamination Monitor, SCM2. The Position Sensitive Proportional Counter was operating with an efficiency of 71%. The SRA Survey Information Management System was used to provide visual imaging and analysis of the survey data and to generate this report.

Surface Activity Levels

The SCM measures and records activity in 25 cm² areas called pixels. Each square meter contains 400 individual pixels. These pixels can be summed into 100 cm² areas for comparison to release criteria. To evaluate the measured activity levels versus release criteria, consecutive 100 cm² sums are offset by 25 cm² pixels, thus ensuring that all possible 100 cm² combinations of the data are considered.

Total measured activity for SA0718F ranged from 0 to 845 dpm/pixel. 100 cm² data ranged from 0 to 2,700 dpm/100 cm². An interpolated surface plot of the data is provided in Figure 1. A light source is simulated to add definition via shadows to the artifacts in the image.

Square Meter Data

Conventional statistics are provided by SIMS. The survey is divided into meter grids. For each grid the 100 cm² data is analyzed for mean, min, max, and standard deviation. The number of pixels containing data is also reported for each grid. Figure 2 shows the grid pattern, while Table 1 details the statistical data for each grid. Bold text denotes grids which exceed release limits.

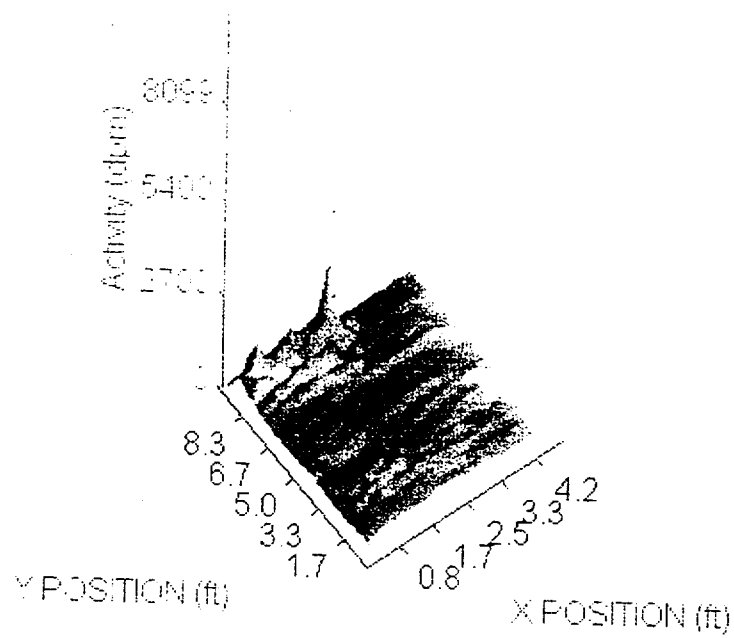


Figure 1 Image plot of surface activity in dpm/25cm²

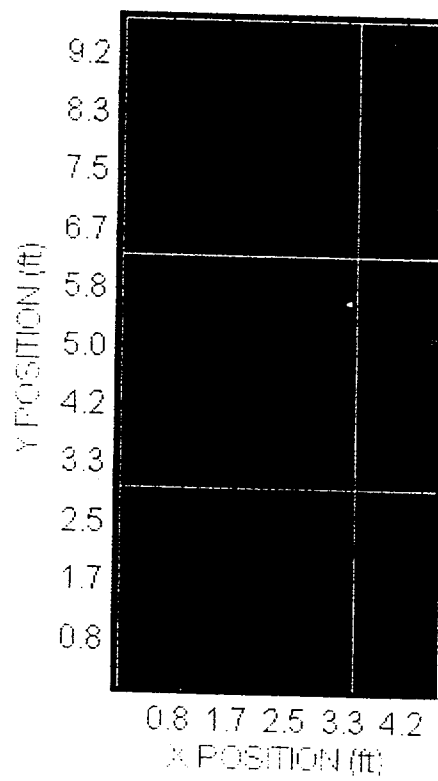


Figure 2 Meter Grid overlaid onto dpm/25cm² image plot

X	Y	Mean	Max	Min	STD	Pixels
1	3	638	2,699	0	320.8	397
2	3	350	585	0	188.8	152
1	2	522	623	328	56.9	400
2	2	415	594	189	109.8	160
1	1	521	790	299	89.4	360
2	1	358	477	180	81.8	144

Table 1 dpm/100cm² averaged over one square meter. Grids (1,1) - (2,1) and Grids (2,1) - (2,3) are not one square meter. **Bold text** denotes grids which exceed release limits

COMPARISON OF RESULTS WITH GUIDELINES

The survey data provided by the SRA Surface Contamination Monitor, serial number SCM2, was compared to the following criteria. The limits for total activity were calculated by adding an observed background of 554 dpm/100 cm² to the survey criteria.

Criteria

1000 dpm/100 cm², averaged over 1m²
3000 dpm/100 cm², maximum in 100 cm²

Total Activity Limits

1554 dpm/100 cm², averaged over 1m²
3554 dpm/100 cm², maximum in 100 cm²

The survey results indicate that surface activity levels averaged over one square meter were below the site-specific guidelines for release.

The survey results indicate that the maximum surface activity levels in the 100 square centimeter zones were below the site-specific guidelines for release.

Introduction

Survey SA0801F was conducted on January 21, 1999 by TODD_CHETE as part of the STALBANS survey. Data was gathered using SRA Surface Contamination Monitor, SCM2. The Position Sensitive Proportional Counter was operating with an efficiency of 62%. The SRA Survey Information Management System was used to provide visual imaging and analysis of the survey data and to generate this report.

Surface Activity Levels

The SCM measures and records activity in 25 cm² areas called pixels. Each square meter contains 400 individual pixels. These pixels can be summed into 100 cm² areas for comparison to release criteria. To evaluate the measured activity levels versus release criteria, consecutive 100 cm² sums are offset by 25 cm² pixels, thus ensuring that all possible 100 cm² combinations of the data are considered.

Total measured activity for SA0801F ranged from 0 to 896 dpm/pixel. 100 cm² data ranged from 0 to 2,508 dpm/100 cm². An interpolated surface plot of the data is provided in Figure 1. A light source is simulated to add definition via shadows to the artifacts in the image.

Square Meter Data

Conventional statistics are provided by SIMS. The survey is divided into meter grids. For each grid the 100 cm² data is analyzed for mean, min, max, and standard deviation. The number of pixels containing data is also reported for each grid. Figure 2 shows the grid pattern, while Table 1 details the statistical data for each grid. Bold text denotes grids which exceed release limits.

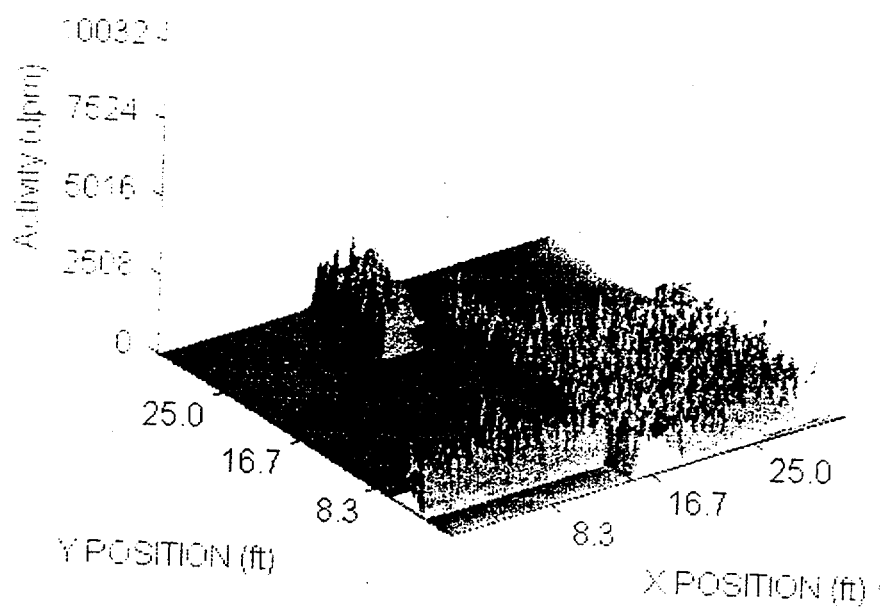


Figure 1 Image plot of surface activity in dpm/25cm²

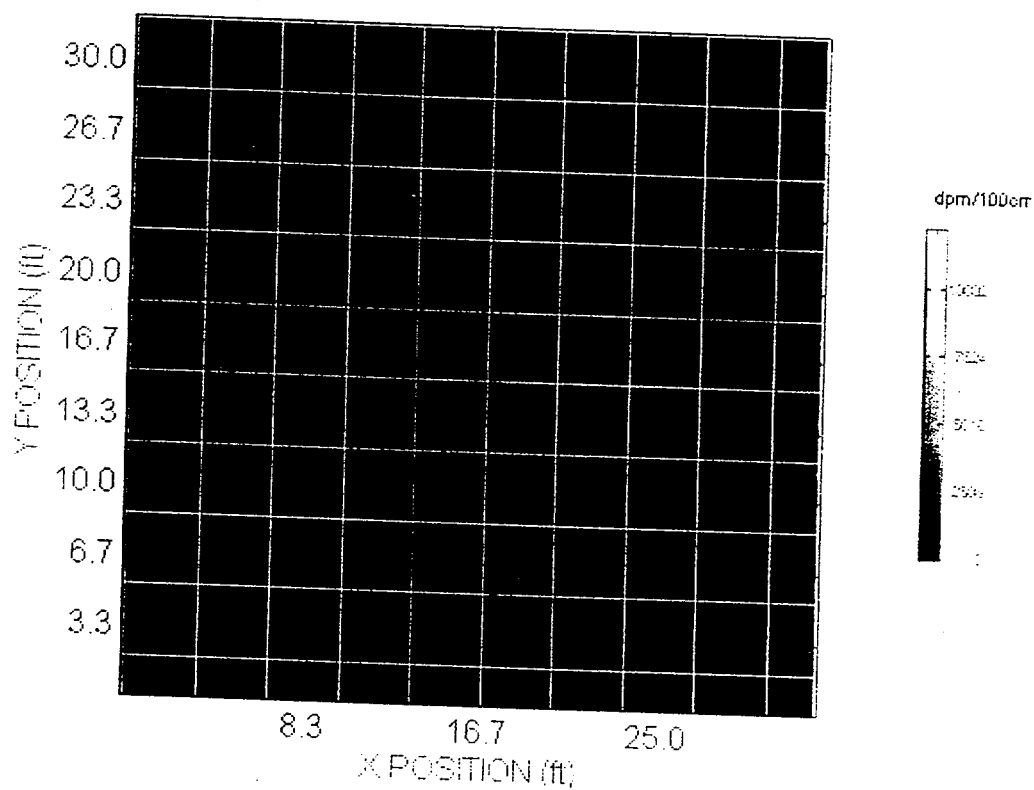


Figure 2 Meter Grid overlaid onto dpm/25cm² image plot

X	Y	Mean	Max	Min	STD	Pixels
1	10	0	0	0	.0	0
2	10	0	0	0	.0	0
3	10	0	0	0	.0	0
4	10	549	1,606	0	396.5	160
5	10	1,149	2,035	542	242.4	400
6	10	546	1,899	0	377.5	120
7	10	0	0	0	.0	0
8	10	0	0	0	.0	0
9	10	0	0	0	.0	0
10	10	0	0	0	.0	0
1	9	0	0	0	.0	0
2	9	0	0	0	.0	0
3	9	0	0	0	.0	0
4	9	539	1,359	0	370.2	160
5	9	1,021	1,893	0	497.2	353
6	9	260	1,015	0	176.0	97
7	9	0	0	0	.0	0
8	9	0	0	0	.0	0
9	9	0	0	0	.0	0
10	9	0	0	0	.0	0
1	8	0	0	0	.0	0
2	8	0	0	0	.0	0
3	8	0	0	0	.0	0
4	8	445	1,657	0	260.2	80
5	8	508	1,518	0	393.9	170
6	8	745	2,348	6	467.5	380
7	8	0	0	0	.0	0
8	8	0	0	0	.0	0
9	8	0	0	0	.0	0
10	8	0	0	0	.0	0
1	7	0	0	0	.0	0
2	7	0	0	0	.0	0
3	7	0	0	0	.0	0
4	7	0	0	0	.0	0
5	7	94	150	0	30.2	40
6	7	822	1,674	38	410.4	383
7	7	40	109	0	16.8	36
8	7	0	0	0	.0	0
9	7	0	0	0	.0	0
10	7	0	0	0	.0	0
1	6	0	0	0	.0	0
2	6	0	0	0	.0	0
3	6	0	0	0	.0	0
4	6	0	0	0	.0	0
5	6	99	144	0	31.3	40

6	6	1,051	2,026	150	329.0	400
7	6	1,039	2,220	0	504.4	376
8	6	671	1,635	0	490.5	275
9	6	764	1,586	0	521.1	310
10	6	905	1,654	0	453.4	266
1	5	0	0	0	.0	0
2	5	0	0	0	.0	0
3	5	0	0	0	.0	0
4	5	0	0	0	.0	0
5	5	104	156	0	33.7	40
6	5	987	1,864	170	318.1	400
7	5	1,144	2,033	510	271.4	400
8	5	1,114	1,985	527	269.4	400
9	5	1,082	1,615	504	180.7	400
10	5	1,028	1,806	311	207.5	280
1	4	0	0	0	.0	0
2	4	0	0	0	.0	0
3	4	520	1,338	0	379.3	176
4	4	529	1,580	0	378.1	160
5	4	550	2,507	0	457.1	173
6	4	1,045	1,649	198	205.1	400
7	4	961	1,634	544	178.9	400
8	4	1,043	1,672	605	188.3	400
9	4	1,005	1,772	563	203.9	400
10	4	1,008	1,892	252	265.4	280
1	3	555	1,557	0	420.5	180
2	3	550	1,595	0	425.0	180
3	3	722	1,920	0	511.8	301
4	3	650	1,547	0	446.5	290
5	3	599	1,611	0	451.7	279
6	3	1,050	1,653	602	178.2	400
7	3	1,093	1,752	598	192.8	400
8	3	1,072	1,789	593	241.2	400
9	3	988	1,734	541	174.7	400
10	3	1,050	2,050	234	269.9	280
1	2	840	1,583	0	515.8	240
2	2	866	1,641	0	524.6	240
3	2	813	1,839	0	498.0	240
4	2	918	1,794	0	575.1	240
5	2	816	1,898	0	492.0	312
6	2	1,049	1,693	580	178.4	400
7	2	1,055	1,943	413	250.8	400
8	2	1,028	1,472	571	159.9	400
9	2	1,083	1,658	640	167.0	400
10	2	1,022	1,617	428	230.9	280
1	1	0	0	0	.0	0
2	1	0	0	0	.0	0

3	1	0	0	0	.0	0
4	1	0	0	0	.0	0
5	1	631	2,079	0	476.5	108
6	1	1,054	2,057	153	298.7	239
7	1	764	1,547	38	424.4	211
8	1	558	1,296	0	401.1	159
9	1	383	1,154	0	245.5	100
10	1	282	736	0	162.1	59

Table 1 dpm/100cm² averaged over one square meter. Grids (1,1) - (10,1) and Grids (10,1) - (10,10) are not one square meter. Bold text denotes grids which exceed release limits

COMPARISON OF RESULTS WITH GUIDELINES

The survey data provided by the SRA Surface Contamination Monitor, serial number SCM2, was compared to the following criteria. The limits for total activity were calculated by adding an observed background of 1058 dpm/100 cm² to the survey criteria.

Criteria

1000 dpm/100 cm², averaged over 1m²
3000 dpm/100 cm², maximum in 100 cm²

Total Activity Limits

2058 dpm/100 cm², averaged over 1m²
4058 dpm/100 cm², maximum in 100 cm²

The survey results indicate that surface activity levels averaged over one square meter were below the site-specific guidelines for release.

The survey results indicate that the maximum surface activity levels in the 100 square centimeter zones were below the site-specific guidelines for release.

APPENDIX C

ANALYTICAL LABORATORY RESULTS

Lab ID	Client ID	Sample Date	Receipt Date	Analysis Date	Batch ID	Analyte	Method	Result	Error	MDA	Units
Rad Lab											
99-01194-04	1-1	1/24/99	1/27/99	2/2/99	9901194	Carbon-14	EPA 906.0 Modified	38.14	35.37	57.62	dpm/100cm ²
99-01194-05	1-1 QC	1/25/99	1/27/99	2/2/99	9901194	Carbon-14	EPA 906.0 Modified	93.93	43.53	64.27	dpm/100cm ²
99-01194-06	1-2	1/24/99	1/27/99	2/2/99	9901194	Carbon-14	EPA 906.0 Modified	17.69	30.74	45.83	dpm/100cm ²
99-01194-07	1-3	1/24/99	1/27/99	2/2/99	9901194	Carbon-14	EPA 906.0 Modified	47.49	31.35	49.20	dpm/100cm ²
99-01194-08	1-4	1/24/99	1/27/99	2/2/99	9901194	Carbon-14	EPA 906.0 Modified	1126.37	68.52	48.41	dpm/100cm ²
99-01194-09	1-5	1/24/99	1/27/99	2/2/99	9901194	Carbon-14	EPA 906.0 Modified	63.70	28.66	43.58	dpm/100cm ²
99-01194-10	1-5 QC	1/25/99	1/27/99	2/2/99	9901194	Carbon-14	EPA 906.0 Modified	207.40	35.40	40.00	dpm/100cm ²
99-01194-11	1-6	1/24/99	1/27/99	2/2/99	9901194	Carbon-14	EPA 906.0 Modified	125.21	37.53	48.81	dpm/100cm ²
99-01194-12	1-7	1/24/99	1/27/99	2/2/99	9901194	Carbon-14	EPA 906.0 Modified	72.73	32.88	45.47	dpm/100cm ²
99-01194-13	1-8	1/24/99	1/27/99	2/2/99	9901194	Carbon-14	EPA 906.0 Modified	-2.28	24.61	41.39	dpm/100cm ²
99-01194-14	1-8 QC	1/25/99	1/27/99	2/2/99	9901194	Carbon-14	EPA 906.0 Modified	107.33	31.51	41.85	dpm/100cm ²
99-01194-15	1-9	1/24/99	1/27/99	2/2/99	9901194	Carbon-14	EPA 906.0 Modified	-16.57	20.22	35.34	dpm/100cm ²
99-01194-16	1-10	1/24/99	1/27/99	2/2/99	9901194	Carbon-14	EPA 906.0 Modified	-1.12	28.15	40.67	dpm/100cm ²
99-01194-17	1-11	1/24/99	1/27/99	2/2/99	9901194	Carbon-14	EPA 906.0 Modified	-10.50	23.76	47.29	dpm/100cm ²
99-01194-18	1-12	1/24/99	1/27/99	2/2/99	9901194	Carbon-14	EPA 906.0 Modified	26.26	24.53	38.09	dpm/100cm ²
99-01194-19	1-13	1/24/99	1/27/99	2/2/99	9901194	Carbon-14	EPA 906.0 Modified	3544.19	154.91	101.52	dpm/100cm ²
99-01194-20	1-13 QC	1/25/99	1/27/99	2/2/99	9901194	Carbon-14	EPA 906.0 Modified	5000.56	196.55	135.42	dpm/100cm ²
99-01195-04	1-14	1/24/99	1/27/99	2/4/99	9901195	Carbon-14	EPA 906.0 Modified	58.80	23.52	32.21	dpm/100cm ²
99-01195-05	1-15	1/24/99	1/27/99	2/4/99	9901195	Carbon-14	EPA 906.0 Modified	24.35	29.52	43.36	dpm/100cm ²
99-01195-06	1-16	1/24/99	1/27/99	2/4/99	9901195	Carbon-14	EPA 906.0 Modified	28.51	19.79	29.87	dpm/100cm ²
99-01195-07	1-17	1/24/99	1/27/99	2/4/99	9901195	Carbon-14	EPA 906.0 Modified	75.10	22.01	27.86	dpm/100cm ²
99-01195-08	1-18	1/24/99	1/27/99	2/4/99	9901195	Carbon-14	EPA 906.0 Modified	153.48	27.73	33.74	dpm/100cm ²
99-01195-09	1-19	1/24/99	1/27/99	2/4/99	9901195	Carbon-14	EPA 906.0 Modified	51.72	16.37	21.41	dpm/100cm ²
99-01195-10	1-20	1/24/99	1/27/99	2/4/99	9901195	Carbon-14	EPA 906.0 Modified	1.46	16.71	26.04	dpm/100cm ²
99-01195-11	1-21	1/24/99	1/27/99	2/4/99	9901195	Carbon-14	EPA 906.0 Modified	-3.52	15.30	25.06	dpm/100cm ²
99-01195-12	1-22	1/24/99	1/27/99	2/4/99	9901195	Carbon-14	EPA 906.0 Modified	3.75	16.72	26.74	dpm/100cm ²
99-01195-13	1-23	1/24/99	1/27/99	2/4/99	9901195	Carbon-14	EPA 906.0 Modified	0.70	14.85	24.95	dpm/100cm ²
99-01195-14	1-24	1/24/99	1/27/99	2/4/99	9901195	Carbon-14	EPA 906.0 Modified	6.18	17.26	27.50	dpm/100cm ²
99-01195-15	1-25	1/24/99	1/27/99	2/4/99	9901195	Carbon-14	EPA 906.0 Modified	-2.17	16.62	25.80	dpm/100cm ²
99-01195-16	1-26	1/24/99	1/27/99	2/4/99	9901195	Carbon-14	EPA 906.0 Modified	157.61	32.52	41.57	dpm/100cm ²
99-01195-17	1-27	1/24/99	1/27/99	2/4/99	9901195	Carbon-14	EPA 906.0 Modified	149.24	28.78	38.23	dpm/100cm ²
99-01195-18	1-27 QC	1/25/99	1/27/99	2/4/99	9901195	Carbon-14	EPA 906.0 Modified	110.35	28.37	38.53	dpm/100cm ²
99-01195-19	1-28	1/24/99	1/27/99	2/4/99	9901195	Carbon-14	EPA 906.0 Modified	7.12	16.68	25.35	dpm/100cm ²
99-01195-20	1-29	1/24/99	1/27/99	2/4/99	9901195	Carbon-14	EPA 906.0 Modified	-1.38	14.85	24.53	dpm/100cm ²
99-01196-04	1-30	1/24/99	1/27/99	2/4/99	9901196	Carbon-14	EPA 906.0 Modified	1.50	15.34	24.91	dpm/100cm ²
							avg	321.81			
							min	-16.57			
							max	5000.56			

Lab ID	Client ID	Sample Date	Receipt Date	Analysis Date	Batch ID	Analyte	Method	Result	Error	MDA	Units
Ejector Pit											
99-01196-05	2-1	1/24/99	1/27/99	2/4/99	9901196	Carbon-14	EPA 906.0 Modified	16.61	19.31	30.65	dpm/100cm ²
99-01196-06	2-2	1/24/99	1/27/99	2/4/99	9901196	Carbon-14	EPA 906.0 Modified	5.86	16.71	26.88	dpm/100cm ²
99-01196-07	2-3	1/24/99	1/27/99	2/4/99	9901196	Carbon-14	EPA 906.0 Modified	5.79	17.55	27.50	dpm/100cm ²
99-01196-08	2-4	1/24/99	1/27/99	2/4/99	9901196	Carbon-14	EPA 906.0 Modified	3.77	15.05	25.02	dpm/100cm ²
99-01196-09	2-5	1/24/99	1/27/99	2/4/99	9901196	Carbon-14	EPA 906.0 Modified	1.46	13.91	24.19	dpm/100cm ²
99-01196-10	2-6	1/24/99	1/27/99	2/4/99	9901196	Carbon-14	EPA 906.0 Modified	41.70	69.12	115.44	dpm/100cm ²
99-01196-11	2-7	1/24/99	1/27/99	2/4/99	9901196	Carbon-14	EPA 906.0 Modified	4.25	13.94	23.52	dpm/100cm ²
99-01196-12	2-8	1/24/99	1/27/99	2/4/99	9901196	Carbon-14	EPA 906.0 Modified	-6.52	19.42	30.97	dpm/100cm ²
99-01196-13	2-9	1/24/99	1/27/99	2/4/99	9901196	Carbon-14	EPA 906.0 Modified	0.00	15.66	25.20	dpm/100cm ²
99-01196-14	2-10	1/24/99	1/27/99	2/4/99	9901196	Carbon-14	EPA 906.0 Modified	-11.37	19.01	29.05	dpm/100cm ²
99-01196-15	2-11	1/24/99	1/27/99	2/4/99	9901196	Carbon-14	EPA 906.0 Modified	-4.46	15.68	24.68	dpm/100cm ²
99-01196-16	2-12	1/24/99	1/27/99	2/4/99	9901196	Carbon-14	EPA 906.0 Modified	-0.75	15.28	24.92	dpm/100cm ²
99-01196-17	2-13	1/24/99	1/27/99	2/4/99	9901196	Carbon-14	EPA 906.0 Modified	-1.50	15.48	24.90	dpm/100cm ²
99-01196-18	2-13 QC	1/24/99	1/27/99	2/4/99	9901196	Carbon-14	EPA 906.0 Modified	6.61	15.63	25.14	dpm/100cm ²
99-01196-19	2-14	1/24/99	1/27/99	2/4/99	9901196	Carbon-14	EPA 906.0 Modified	-1.48	16.79	24.54	dpm/100cm ²
99-01196-20	2-14 QC	1/24/99	1/27/99	2/4/99	9901196	Carbon-14	EPA 906.0 Modified	-5.98	14.94	24.83	dpm/100cm ²
							avg	3.37			
							min	-11.37			
							max	41.70			
Mens' Room											
99-01197-04	3-1	1/25/99	1/27/99	2/6/99	9901197	Carbon-14	EPA 906.0 Modified	173.67	309.44	495.95	dpm/100cm ²
99-01197-05	3-2	1/25/99	1/27/99	2/6/99	9901197	Carbon-14	EPA 906.0 Modified	-8.03	34.92	55.05	dpm/100cm ²
99-01197-06	3-2 QC	1/25/99	1/27/99	2/6/99	9901197	Carbon-14	EPA 906.0 Modified	34.75	54.20	91.60	dpm/100cm ²
99-01197-07	3-3	1/25/99	1/27/99	2/6/99	9901197	Carbon-14	EPA 906.0 Modified	1.47	30.36	50.39	dpm/100cm ²
99-01197-08	3-3 QC	1/25/99	1/27/99	2/6/99	9901197	Carbon-14	EPA 906.0 Modified	-7.73	34.00	52.96	dpm/100cm ²
99-01197-09	3-4	1/25/99	1/27/99	2/6/99	9901197	Carbon-14	EPA 906.0 Modified	22.12	29.31	47.37	dpm/100cm ²
99-01197-10	3-5	1/25/99	1/27/99	2/6/99	9901197	Carbon-14	EPA 906.0 Modified	46.08	37.09	60.73	dpm/100cm ²
99-01197-11	3-6	1/25/99	1/27/99	2/6/99	9901197	Carbon-14	EPA 906.0 Modified	-10.32	21.87	35.35	dpm/100cm ²
							avg	31.50			
							min	-10.32			
							max	173.67			
Ladies' Room											
99-01197-12	4-1	1/24/99	1/27/99	2/6/99	9901197	Carbon-14	EPA 906.0 Modified	14.46	35.49	55.06	dpm/100cm ²
99-01197-13	4-2	1/24/99	1/27/99	2/6/99	9901197	Carbon-14	EPA 906.0 Modified	15.57	34.66	53.35	dpm/100cm ²
99-01197-14	4-3	1/24/99	1/27/99	2/6/99	9901197	Carbon-14	EPA 906.0 Modified	12.71	39.75	54.44	dpm/100cm ²
99-01197-15	4-4	1/24/99	1/27/99	2/6/99	9901197	Carbon-14	EPA 906.0 Modified	35.60	38.06	60.99	dpm/100cm ²
99-01197-16	4-5	1/24/99	1/27/99	2/6/99	9901197	Carbon-14	EPA 906.0 Modified	15.29	37.52	58.21	dpm/100cm ²
99-01197-17	4-6	1/24/99	1/27/99	2/6/99	9901197	Carbon-14	EPA 906.0 Modified	9.73	32.42	55.58	dpm/100cm ²
99-01197-18	4-7	1/24/99	1/27/99	2/6/99	9901197	Carbon-14	EPA 906.0 Modified	-1.70	38.13	58.24	dpm/100cm ²
99-01197-19	4-8	1/24/99	1/27/99	2/6/99	9901197	Carbon-14	EPA 906.0 Modified	36.68	37.83	57.13	dpm/100cm ²
99-01197-20	4-9	1/24/99	1/27/99	2/6/99	9901197	Carbon-14	EPA 906.0 Modified	7.29	37.62	62.43	dpm/100cm ²
99-01198-04	4-10	1/24/99	1/27/99	2/6/99	9901198	Carbon-14	EPA 906.0 Modified	-3.33	38.62	56.46	dpm/100cm ²
99-01198-05	4-11	1/24/99	1/27/99	2/6/99	9901198	Carbon-14	EPA 906.0 Modified	20.83	32.35	50.48	dpm/100cm ²
99-01198-06	4-12	1/24/99	1/27/99	2/6/99	9901198	Carbon-14	EPA 906.0 Modified	-10.54	31.24	51.10	dpm/100cm ²
							avg	12.72			
							min	-10.54			
							max	36.68			

Lab ID	Client ID	Sample Date	Receipt Date	Analysis Date	Batch ID	Analyte	Method	Result	Error	MDA	Units
Tunnel											
99-01198-07	5-1	1/23/99	1/27/99	2/6/99	9901198	Carbon-14	EPA 906.0 Modified	13.77	36.02	58.38	dpm/100cm ²
99-01198-08	5-2	1/23/99	1/27/99	2/6/99	9901198	Carbon-14	EPA 906.0 Modified	-4.72	32.36	53.40	dpm/100cm ²
99-01198-09	5-2 QC	1/26/99	1/27/99	2/6/99	9901198	Carbon-14	EPA 906.0 Modified	-6.69	36.38	56.77	dpm/100cm ²
99-01198-10	5-3	1/23/99	1/27/99	2/6/99	9901198	Carbon-14	EPA 906.0 Modified	5.73	41.71	64.82	dpm/100cm ²
99-01198-11	5-4	1/23/99	1/27/99	2/6/99	9901198	Carbon-14	EPA 906.0 Modified	-29.37	38.00	58.60	dpm/100cm ²
99-01198-12	5-4 QC	1/26/99	1/27/99	2/6/99	9901198	Carbon-14	EPA 906.0 Modified	-22.55	41.18	63.78	dpm/100cm ²
99-01198-13	5-5	1/23/99	1/27/99	2/6/99	9901198	Carbon-14	EPA 906.0 Modified	7.56	38.47	64.08	dpm/100cm ²
99-01198-14	5-6	1/23/99	1/27/99	2/6/99	9901198	Carbon-14	EPA 906.0 Modified	-13.06	28.71	49.21	dpm/100cm ²
99-01198-15	5-7	1/23/99	1/27/99	2/6/99	9901198	Carbon-14	EPA 906.0 Modified	-3.22	33.35	54.54	dpm/100cm ²
99-01198-16	5-8	1/23/99	1/27/99	2/6/99	9901198	Carbon-14	EPA 906.0 Modified	-1.76	36.20	59.73	dpm/100cm ²
99-01198-17	5-8 QC	1/26/99	1/27/99	2/6/99	9901198	Carbon-14	EPA 906.0 Modified	-25.53	41.46	66.62	dpm/100cm ²
99-01198-18	5-9	1/23/99	1/27/99	2/6/99	9901198	Carbon-14	EPA 906.0 Modified	1.78	38.01	60.30	dpm/100cm ²
99-01198-19	5-10	1/23/99	1/27/99	2/6/99	9901198	Carbon-14	EPA 906.0 Modified	-3.50	37.13	59.41	dpm/100cm ²
99-01198-20	5-10 QC	1/26/99	1/27/99	2/6/99	9901198	Carbon-14	EPA 906.0 Modified	8.19	34.43	55.56	dpm/100cm ²
99-01199-01	5-11	1/23/99	1/27/99	2/8/99	9901199	Carbon-14	EPA 906.0 Modified	-6.41	34.14	57.10	dpm/100cm ²
99-01199-02	5-12	1/23/99	1/27/99	2/8/99	9901199	Carbon-14	EPA 906.0 Modified	-16.31	34.88	58.09	dpm/100cm ²
99-01199-03	5-13	1/23/99	1/27/99	2/8/99	9901199	Carbon-14	EPA 906.0 Modified	-28.28	29.27	45.77	dpm/100cm ²
99-01199-04	5-13 QC	1/26/99	1/27/99	2/8/99	9901199	Carbon-14	EPA 906.0 Modified	14.86	41.19	66.14	dpm/100cm ²
99-01199-05	5-14	1/23/99	1/27/99	2/8/99	9901199	Carbon-14	EPA 906.0 Modified	0.00	37.21	59.99	dpm/100cm ²
99-01199-06	5-15	1/23/99	1/27/99	2/8/99	9901199	Carbon-14	EPA 906.0 Modified	-9.21	40.51	65.57	dpm/100cm ²
99-01199-07	5-16	1/24/99	1/27/99	2/8/99	9901199	Carbon-14	EPA 906.0 Modified	-25.60	36.16	56.97	dpm/100cm ²
99-01199-08	5-17	1/24/99	1/27/99	2/8/99	9901199	Carbon-14	EPA 906.0 Modified	-11.04	34.42	56.15	dpm/100cm ²
99-01199-09	5-18	1/24/99	1/27/99	2/8/99	9901199	Carbon-14	EPA 906.0 Modified	-15.20	31.11	54.14	dpm/100cm ²
99-01199-10	5-18 QC	1/26/99	1/27/99	2/8/99	9901199	Carbon-14	EPA 906.0 Modified	-21.06	25.63	41.66	dpm/100cm ²
							avg	-7.98			
							min	-29.37			
							max	14.86			

Lab ID	Client ID	Sample Date	Receipt Date	Analysis Date	Batch ID	Analyte	Method	Result	Error	MDA	Units
West Basement											
99-01199-14	6-1	1/23/99	1/27/99	2/8/99	9901199	Carbon-14	EPA 906 0 Modified	-4.68	33.19	55.28	dpm/100cm ²
99-01199-15	6-2	1/23/99	1/27/99	2/8/99	9901199	Carbon-14	EPA 906 0 Modified	-27.73	39.61	61.72	dpm/100cm ²
99-01199-16	6-3	1/23/99	1/27/99	2/8/99	9901199	Carbon-14	EPA 906 0 Modified	-10.16	36.65	60.28	dpm/100cm ²
99-01199-17	6-4	1/23/99	1/27/99	2/8/99	9901199	Carbon-14	EPA 906 0 Modified	-21.61	29.35	51.31	dpm/100cm ²
99-01199-18	6-5	1/23/99	1/27/99	2/8/99	9901199	Carbon-14	EPA 906 0 Modified	-5.14	36.16	61.00	dpm/100cm ²
99-01199-19	6-6	1/23/99	1/27/99	2/8/99	9901199	Carbon-14	EPA 906 0 Modified	-24.52	37.87	67.15	dpm/100cm ²
99-01199-20	6-7	1/23/99	1/27/99	2/8/99	9901199	Carbon-14	EPA 906 0 Modified	-24.16	37.51	61.45	dpm/100cm ²
99-01200-04	6-8	1/23/99	1/27/99	2/11/99	9901200	Carbon-14	EPA 906 0 Modified	-53.15	33.68	58.85	dpm/100cm ²
99-01200-05	6-9	1/23/99	1/27/99	2/11/99	9901200	Carbon-14	EPA 906 0 Modified	-30.30	33.73	58.71	dpm/100cm ²
99-01200-06	6-10	1/23/99	1/27/99	2/11/99	9901200	Carbon-14	EPA 906 0 Modified	-21.96	32.97	56.74	dpm/100cm ²
99-01200-07	6-11	1/23/99	1/27/99	2/11/99	9901200	Carbon-14	EPA 906 0 Modified	-10.86	35.20	60.11	dpm/100cm ²
99-01200-08	6-12	1/23/99	1/27/99	2/11/99	9901200	Carbon-14	EPA 906 0 Modified	-31.82	33.60	58.72	dpm/100cm ²
99-01200-09	6-12 OC	1/23/99	1/27/99	2/11/99	9901200	Carbon-14	EPA 906 0 Modified	-37.92	35.77	61.22	dpm/100cm ²
99-01200-10	6-13	1/23/99	1/27/99	2/11/99	9901200	Carbon-14	EPA 906 0 Modified	-24.17	33.63	58.53	dpm/100cm ²
99-01200-11	6-14	1/23/99	1/27/99	2/11/99	9901200	Carbon-14	EPA 906 0 Modified	-41.17	37.51	60.35	dpm/100cm ²
99-01200-12	6-15	1/23/99	1/27/99	2/11/99	9901200	Carbon-14	EPA 906 0 Modified	-15.07	34.31	58.39	dpm/100cm ²
99-01200-13	6-16	1/23/99	1/27/99	2/11/99	9901200	Carbon-14	EPA 906 0 Modified	16.47	40.90	70.92	dpm/100cm ²
99-01200-14	6-17	1/23/99	1/27/99	2/11/99	9901200	Carbon-14	EPA 906 0 Modified	-12.65	34.24	61.28	dpm/100cm ²
99-01200-15	6-18	1/23/99	1/27/99	2/11/99	9901200	Carbon-14	EPA 906 0 Modified	-1.54	33.44	59.61	dpm/100cm ²
99-01200-16	6-19	1/23/99	1/27/99	2/11/99	9901200	Carbon-14	EPA 906 0 Modified	-31.72	35.57	61.45	dpm/100cm ²
99-01200-17	6-20	1/23/99	1/27/99	2/11/99	9901200	Carbon-14	EPA 906 0 Modified	-17.47	35.91	61.56	dpm/100cm ²
99-01200-18	6-21	1/23/99	1/27/99	2/11/99	9901200	Carbon-14	EPA 906 0 Modified	-36.99	34.04	59.72	dpm/100cm ²
99-01200-19	6-22	1/23/99	1/27/99	2/11/99	9901200	Carbon-14	EPA 906 0 Modified	-37.54	35.19	63.25	dpm/100cm ²
99-01200-20	6-23	1/23/99	1/27/99	2/11/99	9901200	Carbon-14	EPA 906 0 Modified	-28.88	37.20	62.16	dpm/100cm ²
99-01201-04	6-24	1/23/99	1/27/99	2/11/99	9901201	Carbon-14	EPA 906 0 Modified	-15.05	31.36	50.00	dpm/100cm ²
99-01201-05	6-25	1/23/99	1/27/99	2/11/99	9901201	Carbon-14	EPA 906 0 Modified	2.85	31.98	47.36	dpm/100cm ²
							avg	-22.46			
							min	-53.15			
							max	2.85			

Lab ID	Client ID	Sample Date	Receipt Date	Analysis Date	Batch ID	Analyte	Method	Result	Error	MDA	Units
Main Corridor											
99-01201-06	7-1	1/23/99	1/27/99	2/11/99	9901201	Carbon-14	EPA 906.0 Modified	-19.13	31.60	48.89	dpm/100cm ²
99-01201-07	7-2	1/23/99	1/27/99	2/11/99	9901201	Carbon-14	EPA 906.0 Modified	9.05	32.40	50.13	dpm/100cm ²
99-01201-08	7-3	1/23/99	1/27/99	2/11/99	9901201	Carbon-14	EPA 906.0 Modified	-11.49	29.68	47.72	dpm/100cm ²
99-01201-09	7-4	1/23/99	1/27/99	2/11/99	9901201	Carbon-14	EPA 906.0 Modified	-1.41	30.34	46.85	dpm/100cm ²
99-01201-10	7-5	1/23/99	1/27/99	2/11/99	9901201	Carbon-14	EPA 906.0 Modified	-4.14	28.46	45.79	dpm/100cm ²
99-01201-11	7-6	1/23/99	1/27/99	2/11/99	9901201	Carbon-14	EPA 906.0 Modified	-2.82	28.46	46.85	dpm/100cm ²
99-01201-12	7-7	1/23/99	1/27/99	2/11/99	9901201	Carbon-14	EPA 906.0 Modified	-8.93	29.59	49.43	dpm/100cm ²
99-01201-13	7-8	1/23/99	1/27/99	2/11/99	9901201	Carbon-14	EPA 906.0 Modified	14.35	33.66	52.97	dpm/100cm ²
99-01201-14	7-9	1/23/99	1/27/99	2/11/99	9901201	Carbon-14	EPA 906.0 Modified	-18.79	33.35	52.03	dpm/100cm ²
99-01201-15	7-10	1/23/99	1/27/99	2/11/99	9901201	Carbon-14	EPA 906.0 Modified	0.00	32.54	51.21	dpm/100cm ²
99-01201-16	7-11	1/23/99	1/27/99	2/11/99	9901201	Carbon-14	EPA 906.0 Modified	0.00	34.45	53.53	dpm/100cm ²
99-01201-17	7-12	1/23/99	1/27/99	2/11/99	9901201	Carbon-14	EPA 906.0 Modified	8.58	31.45	47.49	dpm/100cm ²
99-01201-18	7-13	1/23/99	1/27/99	2/11/99	9901201	Carbon-14	EPA 906.0 Modified	10.69	28.33	44.40	dpm/100cm ²
99-01201-19	7-14	1/23/99	1/27/99	2/11/99	9901201	Carbon-14	EPA 906.0 Modified	1.47	29.16	48.70	dpm/100cm ²
99-01201-20	7-15	1/23/99	1/27/99	2/11/99	9901201	Carbon-14	EPA 906.0 Modified	4.40	31.19	48.67	dpm/100cm ²
99-01202-04	7-16	1/23/99	1/27/99	2/11/99	9901202	Carbon-14	EPA 906.0 Modified	-13.49	15.18	25.29	dpm/100cm ²
99-01202-05	7-17	1/23/99	1/27/99	2/11/99	9901202	Carbon-14	EPA 906.0 Modified	-1.86	13.77	22.11	dpm/100cm ²
99-01202-06	7-18	1/23/99	1/27/99	2/11/99	9901202	Carbon-14	EPA 906.0 Modified	-11.79	15.80	24.70	dpm/100cm ²
99-01202-07	7-19	1/23/99	1/27/99	2/11/99	9901202	Carbon-14	EPA 906.0 Modified	-1.90	14.00	22.58	dpm/100cm ²
99-01202-08	7-20	1/23/99	1/27/99	2/11/99	9901202	Carbon-14	EPA 906.0 Modified	-8.40	13.93	23.00	dpm/100cm ²
99-01202-09	7-21	1/23/99	1/27/99	2/11/99	9901202	Carbon-14	EPA 906.0 Modified	-5.76	13.63	22.80	dpm/100cm ²
99-01202-10	7-22	1/23/99	1/27/99	2/11/99	9901202	Carbon-14	EPA 906.0 Modified	3.77	14.14	22.35	dpm/100cm ²
99-01202-11	7-23	1/23/99	1/27/99	2/11/99	9901202	Carbon-14	EPA 906.0 Modified	-3.22	14.65	22.91	dpm/100cm ²
99-01202-12	7-24	1/23/99	1/27/99	2/11/99	9901202	Carbon-14	EPA 906.0 Modified	-7.16	13.73	23.17	dpm/100cm ²
99-01202-13	7-25	1/23/99	1/27/99	2/11/99	9901202	Carbon-14	EPA 906.0 Modified	-7.98	13.08	21.87	dpm/100cm ²
99-01202-14	7-26	1/23/99	1/27/99	2/11/99	9901202	Carbon-14	EPA 906.0 Modified	-0.63	14.01	22.33	dpm/100cm ²
99-01202-15	7-27	1/23/99	1/27/99	2/11/99	9901202	Carbon-14	EPA 906.0 Modified	-2.60	15.01	23.13	dpm/100cm ²
99-01202-16	7-28	1/23/99	1/27/99	2/11/99	9901202	Carbon-14	EPA 906.0 Modified	-1.89	13.15	22.48	dpm/100cm ²
99-01202-17	7-29	1/23/99	1/27/99	2/11/99	9901202	Carbon-14	EPA 906.0 Modified	-5.72	13.25	22.64	dpm/100cm ²
99-01202-18	7-30	1/23/99	1/27/99	2/11/99	9901202	Carbon-14	EPA 906.0 Modified	-1.82	12.78	21.61	dpm/100cm ²
99-01202-19	7-31	1/23/99	1/27/99	2/11/99	9901202	Carbon-14	EPA 906.0 Modified	2.53	14.05	22.58	dpm/100cm ²
99-01202-20	7-32	1/23/99	1/27/99	2/11/99	9901202	Carbon-14	EPA 906.0 Modified	-2.59	13.07	23.08	dpm/100cm ²
99-01203-04	7-33	1/23/99	1/27/99	2/14/99	9901203	Carbon-14	EPA 906.0 Modified	-18.74	33.25	56.63	dpm/100cm ²
99-01203-05	7-34	1/23/99	1/27/99	2/14/99	9901203	Carbon-14	EPA 906.0 Modified	-6.33	33.10	57.38	dpm/100cm ²
99-01203-06	7-35	1/23/99	1/27/99	2/14/99	9901203	Carbon-14	EPA 906.0 Modified	3.14	32.97	56.88	dpm/100cm ²
99-01203-07	7-36	1/23/99	1/27/99	2/14/99	9901203	Carbon-14	EPA 906.0 Modified	-13.65	32.43	54.99	dpm/100cm ²
99-01203-08	7-37	1/23/99	1/27/99	2/14/99	9901203	Carbon-14	EPA 906.0 Modified	6.29	33.88	56.99	dpm/100cm ²
99-01203-09	7-38	1/23/99	1/27/99	2/14/99	9901203	Carbon-14	EPA 906.0 Modified	-34.46	34.34	59.50	dpm/100cm ²
99-01203-10	7-39	1/23/99	1/27/99	2/14/99	9901203	Carbon-14	EPA 906.0 Modified	-9.53	34.93	57.57	dpm/100cm ²
99-01203-11	7-40	1/23/99	1/27/99	2/14/99	9901203	Carbon-14	EPA 906.0 Modified	-33.32	41.38	71.08	dpm/100cm ²
99-01203-12	7-41	1/23/99	1/27/99	2/14/99	9901203	Carbon-14	EPA 906.0 Modified	-29.37	35.72	56.05	dpm/100cm ²
99-01203-13	7-42	1/23/99	1/27/99	2/14/99	9901203	Carbon-14	EPA 906.0 Modified	-38.70	30.94	56.13	dpm/100cm ²
99-01203-14	7-43	1/23/99	1/27/99	2/14/99	9901203	Carbon-14	EPA 906.0 Modified	-7.77	33.92	56.36	dpm/100cm ²
99-01203-15	7-44	1/23/99	1/27/99	2/14/99	9901203	Carbon-14	EPA 906.0 Modified	-29.56	33.45	59.54	dpm/100cm ²
99-01203-16	7-45	1/23/99	1/27/99	2/14/99	9901203	Carbon-14	EPA 906.0 Modified	-28.33	35.58	57.08	dpm/100cm ²
99-01203-17	7-46	1/23/99	1/27/99	2/14/99	9901203	Carbon-14	EPA 906.0 Modified	8.94	28.32	48.31	dpm/100cm ²
99-01203-18	7-47	1/23/99	1/27/99	2/14/99	9901203	Carbon-14	EPA 906.0 Modified	-5.13	35.28	61.95	dpm/100cm ²

Lab ID	Client ID	Sample Date	Receipt Date	Analysis Date	Batch ID	Analyte	Method	Result	Error	MDA	Units
99-01203-19	7-48	1/23/99	1/27/99	2/14/99	9901203	Carbon-14	EPA 906.0 Modified	-9.81	35.34	59.43	dpm/100cm ²
99-01203-20	7-49	1/23/99	1/27/99	2/14/99	9901203	Carbon-14	EPA 906.0 Modified	-9.00	35.38	60.00	dpm/100cm ²
99-01204-04	7-50	1/23/99	1/27/99	2/14/99	9901204	Carbon-14	EPA 906.0 Modified	0.10	31.61	54.52	dpm/100cm ²
							avg	-7.30			
							min	38.70			
							max	14.35			
Upstairs											
99-01204-05	8-1	1/23/99	1/27/99	2/14/99	9901204	Carbon-14	EPA 906.0 Modified	9.71	36.30	57.62	dpm/100cm ²
99-01204-06	8-2	1/23/99	1/27/99	2/14/99	9901204	Carbon-14	EPA 906.0 Modified	-13.17	37.48	58.61	dpm/100cm ²
99-01204-07	8-3	1/23/99	1/27/99	2/14/99	9901204	Carbon-14	EPA 906.0 Modified	-15.34	32.79	54.62	dpm/100cm ²
99-01204-08	8-4	1/23/99	1/27/99	2/14/99	9901204	Carbon-14	EPA 906.0 Modified	-4.61	32.43	54.71	dpm/100cm ²
99-01204-09	8-5	1/23/99	1/27/99	2/14/99	9901204	Carbon-14	EPA 906.0 Modified	-28.57	36.37	63.58	dpm/100cm ²
99-01204-10	8-6	1/23/99	1/27/99	2/14/99	9901204	Carbon-14	EPA 906.0 Modified	21.89	29.45	51.97	dpm/100cm ²
99-01204-11	8-7	1/23/99	1/27/99	2/14/99	9901204	Carbon-14	EPA 906.0 Modified	12.80	34.35	56.97	dpm/100cm ²
99-01204-12	8-8	1/23/99	1/27/99	2/14/99	9901204	Carbon-14	EPA 906.0 Modified	18.77	32.88	59.15	dpm/100cm ²
99-01204-13	8-9	1/23/99	1/27/99	2/14/99	9901204	Carbon-14	EPA 906.0 Modified	11.19	35.17	56.92	dpm/100cm ²
99-01204-14	8-10	1/23/99	1/27/99	2/14/99	9901204	Carbon-14	EPA 906.0 Modified	11.30	36.36	57.50	dpm/100cm ²
99-01204-15	8-11	1/23/99	1/27/99	2/14/99	9901204	Carbon-14	EPA 906.0 Modified	-18.15	32.06	53.85	dpm/100cm ²
99-01204-16	8-12	1/23/99	1/27/99	2/14/99	9901204	Carbon-14	EPA 906.0 Modified	-14.56	34.57	57.57	dpm/100cm ²
99-01204-17	8-13	1/23/99	1/27/99	2/14/99	9901204	Carbon-14	EPA 906.0 Modified	-15.79	43.93	70.27	dpm/100cm ²
99-01204-18	8-14	1/23/99	1/27/99	2/14/99	9901204	Carbon-14	EPA 906.0 Modified	-6.54	48.15	77.63	dpm/100cm ²
99-01204-19	8-15	1/23/99	1/27/99	2/14/99	9901204	Carbon-14	EPA 906.0 Modified	-24.24	45.32	71.94	dpm/100cm ²
99-01204-20	8-16	1/23/99	1/27/99	2/14/99	9901204	Carbon-14	EPA 906.0 Modified	-8.87	36.97	63.18	dpm/100cm ²
99-01205-04	8-17	1/23/99	1/27/99	2/11/99	9901205	Carbon-14	EPA 906.0 Modified	-14.54	44.96	73.95	dpm/100cm ²
99-01205-07	8-20	1/23/99	1/27/99	2/11/99	9901205	Carbon-14	EPA 906.0 Modified	-20.77	36.05	61.62	dpm/100cm ²
99-01205-08	8-21	1/23/99	1/27/99	2/11/99	9901205	Carbon-14	EPA 906.0 Modified	-10.98	32.98	55.87	dpm/100cm ²
99-01205-09	8-22	1/23/99	1/27/99	2/11/99	9901205	Carbon-14	EPA 906.0 Modified	-38.65	34.01	55.05	dpm/100cm ²
99-01205-10	8-23	1/23/99	1/27/99	2/11/99	9901205	Carbon-14	EPA 906.0 Modified	-21.24	36.52	58.19	dpm/100cm ²
99-01205-11	8-24	1/23/99	1/27/99	2/11/99	9901205	Carbon-14	EPA 906.0 Modified	-12.75	36.42	58.74	dpm/100cm ²
99-01205-12	8-25	1/23/99	1/27/99	2/11/99	9901205	Carbon-14	EPA 906.0 Modified	-13.87	31.82	54.87	dpm/100cm ²
99-01207-10	8-26	1/26/99	1/27/99	2/13/99	9901207	Carbon-14	EPA 906.0 Modified	-1.56	35.07	57.18	dpm/100cm ²
99-01207-11	8-26 QC	1/26/99	1/27/99	2/13/99	9901207	Carbon-14	EPA 906.0 Modified	-21.39	33.48	55.90	dpm/100cm ²
99-01207-12	8-27	1/26/99	1/27/99	2/13/99	9901207	Carbon-14	EPA 906.0 Modified	-17.77	32.97	54.18	dpm/100cm ²
99-01207-13	8-27 QC	1/26/99	1/27/99	2/13/99	9901207	Carbon-14	EPA 906.0 Modified	-29.59	34.53	56.96	dpm/100cm ²
							avg	-15.51			
							min	-38.65			
							max	9.71			

Lab ID	Client ID	Sample Date	Receipt Date	Analysis Date	Batch ID	Analyte	Method	Result	Error	MDA	Units
Incinerator											
99-01205-13	9-1	1/25/99	1/27/99	2/11/99	9901205	Carbon-14	EPA 906.0 Modified	1.71	37.26	61.05	dpm/100cm ²
99-01205-14	9-1 QC	1/26/99	1/27/99	2/11/99	9901205	Carbon-14	EPA 906.0 Modified	-6.71	47.62	79.65	dpm/100cm ²
99-01205-15	9-2	1/25/99	1/27/99	2/11/99	9901205	Carbon-14	EPA 906.0 Modified	-19.96	47.22	78.98	dpm/100cm ²
99-01205-16	9-2 QC	1/26/99	1/27/99	2/11/99	9901205	Carbon-14	EPA 906.0 Modified	-24.51	68.20	109.09	dpm/100cm ²
99-01205-17	9-3	1/25/99	1/27/99	2/11/99	9901205	Carbon-14	EPA 906.0 Modified	-16.81	32.72	59.15	dpm/100cm ²
99-01205-18	9-4	1/25/99	1/27/99	2/11/99	9901205	Carbon-14	EPA 906.0 Modified	0.00	36.61	58.11	dpm/100cm ²
99-01205-19	9-5	1/25/99	1/27/99	2/11/99	9901205	Carbon-14	EPA 906.0 Modified	-6.55	35.73	58.29	dpm/100cm ²
99-01205-20	9-6	1/25/99	1/27/99	2/11/99	9901205	Carbon-14	EPA 906.0 Modified	-1.62	34.23	57.75	dpm/100cm ²
99-01206-04	9-7	1/25/99	1/27/99	2/13/99	9901206	Carbon-14	EPA 906.0 Modified	-28.83	36.47	61.58	dpm/100cm ²
99-01206-05	9-8	1/25/99	1/27/99	2/13/99	9901206	Carbon-14	EPA 906.0 Modified	-36.57	42.10	70.30	dpm/100cm ²
99-01206-06	9-9	1/25/99	1/27/99	2/13/99	9901206	Carbon-14	EPA 906.0 Modified	-52.34	50.00	91.46	dpm/100cm ²
99-01206-07	9-10	1/25/99	1/27/99	2/13/99	9901206	Carbon-14	EPA 906.0 Modified	-16.45	26.36	48.64	dpm/100cm ²
99-01206-08	9-10 QC	1/26/99	1/27/99	2/13/99	9901206	Carbon-14	EPA 906.0 Modified	-55.60	40.12	71.25	dpm/100cm ²
99-01206-09	9-11	1/25/99	1/27/99	2/13/99	9901206	Carbon-14	EPA 906.0 Modified	-10.35	28.99	63.92	dpm/100cm ²
99-01206-10	9-12	1/25/99	1/27/99	2/13/99	9901206	Carbon-14	EPA 906.0 Modified	-13.26	43.62	72.83	dpm/100cm ²
99-01206-11	9-13	1/25/99	1/27/99	2/13/99	9901206	Carbon-14	EPA 906.0 Modified	-18.81	46.87	80.34	dpm/100cm ²
99-01206-12	9-14	1/25/99	1/27/99	2/13/99	9901206	Carbon-14	EPA 906.0 Modified	-15.76	36.43	60.61	dpm/100cm ²
99-01206-13	9-15	1/25/99	1/27/99	2/13/99	9901206	Carbon-14	EPA 906.0 Modified	-30.88	33.42	59.36	dpm/100cm ²
99-01206-14	9-16	1/25/99	1/27/99	2/13/99	9901206	Carbon-14	EPA 906.0 Modified	-31.71	36.91	60.97	dpm/100cm ²
99-01206-15	9-17	1/25/99	1/27/99	2/13/99	9901206	Carbon-14	EPA 906.0 Modified	-12.62	36.57	60.63	dpm/100cm ²
99-01206-16	9-18	1/25/99	1/27/99	2/13/99	9901206	Carbon-14	EPA 906.0 Modified	-32.44	39.60	65.65	dpm/100cm ²
99-01206-17	9-19	1/25/99	1/27/99	2/13/99	9901206	Carbon-14	EPA 906.0 Modified	-28.00	34.92	63.32	dpm/100cm ²
99-01206-18	9-20	1/25/99	1/27/99	2/13/99	9901206	Carbon-14	EPA 906.0 Modified	-32.30	34.97	62.10	dpm/100cm ²
99-01205-05	9-18	1/23/99	1/27/99	2/11/99	9901205	Carbon-14	EPA 906.0 Modified	-5.07	57.34	90.33	dpm/100cm ²
99-01205-06	9-19	1/23/99	1/27/99	2/11/99	9901205	Carbon-14	EPA 906.0 Modified	-2.96	60.06	105.49	dpm/100cm ²
99-01206-19	9-21	1/25/99	1/27/99	2/13/99	9901206	Carbon-14	EPA 906.0 Modified	-20.29	37.21	65.02	dpm/100cm ²
99-01206-20	9-21 QC	1/26/99	1/27/99	2/13/99	9901206	Carbon-14	EPA 906.0 Modified	-31.16	39.43	66.56	dpm/100cm ²
99-01207-04	9-22	1/25/99	1/27/99	2/13/99	9901207	Carbon-14	EPA 906.0 Modified	-43.35	82.28	132.17	dpm/100cm ²
99-01207-05	9-22 QC	1/26/99	1/27/99	2/13/99	9901207	Carbon-14	EPA 906.0 Modified	-16.22	39.64	65.91	dpm/100cm ²
99-01207-06	9-23	1/25/99	1/27/99	2/13/99	9901207	Carbon-14	EPA 906.0 Modified	-11.42	40.18	69.63	dpm/100cm ²
99-01207-07	9-24	1/25/99	1/27/99	2/13/99	9901207	Carbon-14	EPA 906.0 Modified	-23.19	40.02	65.28	dpm/100cm ²
99-01207-08	9-24 QC	1/26/99	1/27/99	2/13/99	9901207	Carbon-14	EPA 906.0 Modified	-18.80	40.53	68.78	dpm/100cm ²
99-01207-09	9-25	1/25/99	1/27/99	2/13/99	9901207	Carbon-14	EPA 906.0 Modified	-28.18	143.45	239.48	dpm/100cm ²
							avg	-20.87			
							min	-55.60			
							max	1.71			

Lab ID	Client ID	Sample Date	Receipt Date	Analysis Date	Batch ID	Analyte	Method	Result	Error	MDA	Units
Rad Lab											
99-01194-04	1-1	1/24/99	1/27/99	2/2/99	9901194	Tritium	EPA 906.0 Modified	-9.04	30.42	56.68	dpm/100cm ²
99-01194-05	1-1 QC	1/25/99	1/27/99	2/2/99	9901194	Tritium	EPA 906.0 Modified	6.73	35.50	63.23	dpm/100cm ²
99-01194-06	1-2	1/24/99	1/27/99	2/2/99	9901194	Tritium	EPA 906.0 Modified	-4.80	24.42	45.09	dpm/100cm ²
99-01194-07	1-3	1/24/99	1/27/99	2/2/99	9901194	Tritium	EPA 906.0 Modified	18.02	28.32	48.41	dpm/100cm ²
99-01194-08	1-4	1/24/99	1/27/99	2/2/99	9901194	Tritium	EPA 906.0 Modified	312.11	45.72	45.67	dpm/100cm ²
99-01194-09	1-5	1/24/99	1/27/99	2/2/99	9901194	Tritium	EPA 906.0 Modified	14.82	24.99	42.87	dpm/100cm ²
99-01194-10	1-5 QC	1/25/99	1/27/99	2/2/99	9901194	Tritium	EPA 906.0 Modified	26.17	24.01	39.38	dpm/100cm ²
99-01194-11	1-6	1/24/99	1/27/99	2/2/99	9901194	Tritium	EPA 906.0 Modified	102.88	33.61	48.05	dpm/100cm ²
99-01194-12	1-7	1/24/99	1/27/99	2/2/99	9901194	Tritium	EPA 906.0 Modified	8.33	25.44	44.74	dpm/100cm ²
99-01194-13	1-8	1/24/99	1/27/99	2/2/99	9901194	Tritium	EPA 906.0 Modified	-11.91	21.33	40.71	dpm/100cm ²
99-01194-14	1-8 QC	1/25/99	1/27/99	2/2/99	9901194	Tritium	EPA 906.0 Modified	14.24	24.00	41.18	dpm/100cm ²
99-01194-15	1-9	1/24/99	1/27/99	2/2/99	9901194	Tritium	EPA 906.0 Modified	4.62	19.60	34.77	dpm/100cm ²
99-01194-16	1-10	1/24/99	1/27/99	2/2/99	9901194	Tritium	EPA 906.0 Modified	-8.51	21.27	40.01	dpm/100cm ²
99-01194-17	1-11	1/24/99	1/27/99	2/2/99	9901194	Tritium	EPA 906.0 Modified	74.14	29.02	41.61	dpm/100cm ²
99-01194-18	1-12	1/24/99	1/27/99	2/2/99	9901194	Tritium	EPA 906.0 Modified	3.99	21.04	37.48	dpm/100cm ²
99-01194-19	1-13	1/24/99	1/27/99	2/2/99	9901194	Tritium	EPA 906.0 Modified	1038.58	116.76	99.88	dpm/100cm ²
99-01194-20	1-13 QC	1/25/99	1/27/99	2/2/99	9901194	Tritium	EPA 906.0 Modified	1743.08	170.66	133.22	dpm/100cm ²
99-01195-04	1-14	1/24/99	1/27/99	2/4/99	9901195	Tritium	EPA 906.0 Modified	5.44	20.56	36.25	dpm/100cm ²
99-01195-05	1-15	1/24/99	1/27/99	2/4/99	9901195	Tritium	EPA 906.0 Modified	20.73	28.78	48.79	dpm/100cm ²
99-01195-06	1-16	1/24/99	1/27/99	2/4/99	9901195	Tritium	EPA 906.0 Modified	-5.04	18.18	33.61	dpm/100cm ²
99-01195-07	1-17	1/24/99	1/27/99	2/4/99	9901195	Tritium	EPA 906.0 Modified	4.70	17.78	31.35	dpm/100cm ²
99-01195-08	1-18	1/24/99	1/27/99	2/4/99	9901195	Tritium	EPA 906.0 Modified	40.80	24.32	37.96	dpm/100cm ²
99-01195-09	1-19	1/24/99	1/27/99	2/4/99	9901195	Tritium	EPA 906.0 Modified	5.42	13.82	24.10	dpm/100cm ²
99-01195-10	1-20	1/24/99	1/27/99	2/4/99	9901195	Tritium	EPA 906.0 Modified	-12.45	15.12	29.30	dpm/100cm ²
99-01195-11	1-21	1/24/99	1/27/99	2/4/99	9901195	Tritium	EPA 906.0 Modified	-2.11	15.45	28.20	dpm/100cm ²
99-01195-12	1-22	1/24/99	1/27/99	2/4/99	9901195	Tritium	EPA 906.0 Modified	-1.50	16.55	30.09	dpm/100cm ²
99-01195-13	1-23	1/24/99	1/27/99	2/4/99	9901195	Tritium	EPA 906.0 Modified	-12.63	14.42	28.07	dpm/100cm ²
99-01195-14	1-24	1/24/99	1/27/99	2/4/99	9901195	Tritium	EPA 906.0 Modified	-22.43	15.09	30.95	dpm/100cm ²
99-01195-15	1-25	1/24/99	1/27/99	2/4/99	9901195	Tritium	EPA 906.0 Modified	-7.26	15.45	29.03	dpm/100cm ²
99-01195-16	1-26	1/24/99	1/27/99	2/4/99	9901195	Tritium	EPA 906.0 Modified	38.59	29.08	48.78	dpm/100cm ²
99-01195-17	1-27	1/24/99	1/27/99	2/4/99	9901195	Tritium	EPA 906.0 Modified	23.66	25.81	43.03	dpm/100cm ²
99-01195-18	1-27 QC	1/25/99	1/27/99	2/4/99	9901195	Tritium	EPA 906.0 Modified	20.59	25.75	43.35	dpm/100cm ²
99-01195-19	1-28	1/24/99	1/27/99	2/4/99	9901195	Tritium	EPA 906.0 Modified	-10.69	14.85	28.52	dpm/100cm ²
99-01195-20	1-29	1/24/99	1/27/99	2/4/99	9901195	Tritium	EPA 906.0 Modified	-7.59	14.83	27.81	dpm/100cm ²
99-01196-04	1-30	1/24/99	1/27/99	2/4/99	9901196	Tritium	EPA 906.0 Modified	9.01	15.15	28.04	dpm/100cm ²
							avg	97.73			
							min	-22.43			
							max	1743.08			

Lab ID	Client ID	Sample Date	Receipt Date	Analysis Date	Batch ID	Analyte	Method	Result	Error	MDA	Units
Ejector Pit											
99-01196-05	2-1	1/24/99	1/27/99	2/4/99	9901196	Tritium	EPA 906.0 Modified	-0.92	17.46	32.04	dpm/100cm ²
99-01196-06	2-2	1/24/99	1/27/99	2/4/99	9901196	Tritium	EPA 906.0 Modified	-6.48	14.73	28.10	dpm/100cm ²
99-01196-07	2-3	1/24/99	1/27/99	2/4/99	9901196	Tritium	EPA 906.0 Modified	52.23	20.36	28.75	dpm/100cm ²
99-01196-08	2-4	1/24/99	1/27/99	2/4/99	9901196	Tritium	EPA 906.0 Modified	-2.26	14.10	26.15	dpm/100cm ²
99-01196-09	2-5	1/24/99	1/27/99	2/4/99	9901196	Tritium	EPA 906.0 Modified	10.94	14.92	25.28	dpm/100cm ²
99-01196-10	2-6	1/24/99	1/27/99	2/4/99	9901196	Tritium	EPA 906.0 Modified	59.16	71.86	120.68	dpm/100cm ²
99-01196-11	2-7	1/24/99	1/27/99	2/4/99	9901196	Tritium	EPA 906.0 Modified	5.67	14.03	24.59	dpm/100cm ²
99-01196-12	2-8	1/24/99	1/27/99	2/4/99	9901196	Tritium	EPA 906.0 Modified	3.73	18.11	32.37	dpm/100cm ²
99-01196-13	2-9	1/24/99	1/27/99	2/4/99	9901196	Tritium	EPA 906.0 Modified	3.04	14.74	26.34	dpm/100cm ²
99-01196-14	2-10	1/24/99	1/27/99	2/4/99	9901196	Tritium	EPA 906.0 Modified	1.75	16.82	30.37	dpm/100cm ²
99-01196-15	2-11	1/24/99	1/27/99	2/4/99	9901196	Tritium	EPA 906.0 Modified	11.16	15.23	25.80	dpm/100cm ²
99-01196-16	2-12	1/24/99	1/27/99	2/4/99	9901196	Tritium	EPA 906.0 Modified	15.03	15.72	26.06	dpm/100cm ²
99-01196-17	2-13	1/24/99	1/27/99	2/4/99	9901196	Tritium	EPA 906.0 Modified	-1.50	14.11	26.03	dpm/100cm ²
99-01196-18	2-13 QC	1/24/99	1/27/99	2/4/99	9901196	Tritium	EPA 906.0 Modified	4.55	13.04	26.28	dpm/100cm ²
99-01196-19	2-14	1/24/99	1/27/99	2/4/99	9901196	Tritium	EPA 906.0 Modified	5.92	14.64	26.87	dpm/100cm ²
99-01196-20	2-14 QC	1/24/99	1/27/99	2/4/99	9901196	Tritium	EPA 906.0 Modified	5.24	14.74	25.96	dpm/100cm ²
							avg	9.88			
							min	-6.48			
							max	59.16			
Mens' Room											
99-01197-04	3-1	1/25/99	1/27/99	2/6/99	9901197	Tritium	EPA 906.0 Modified	25413.91	1233.02	584.25	dpm/100cm ²
99-01197-05	3-2	1/25/99	1/27/99	2/6/99	9901197	Tritium	EPA 906.0 Modified	296.09	55.89	64.85	dpm/100cm ²
99-01197-06	3-2 QC	1/25/99	1/27/99	2/6/99	9901197	Tritium	EPA 906.0 Modified	1898.50	152.02	107.91	dpm/100cm ²
99-01197-07	3-3	1/25/99	1/27/99	2/6/99	9901197	Tritium	EPA 906.0 Modified	-13.26	31.76	59.36	dpm/100cm ²
99-01197-08	3-3 QC	1/25/99	1/27/99	2/6/99	9901197	Tritium	EPA 906.0 Modified	-43.34	30.64	62.39	dpm/100cm ²
99-01197-09	3-4	1/25/99	1/27/99	2/6/99	9901197	Tritium	EPA 906.0 Modified	73.39	36.72	55.81	dpm/100cm ²
99-01197-10	3-5	1/25/99	1/27/99	2/6/99	9901197	Tritium	EPA 906.0 Modified	381.70	64.63	71.55	dpm/100cm ²
99-01197-11	3-6	1/25/99	1/27/99	2/6/99	9901197	Tritium	EPA 906.0 Modified	-7.23	22.46	41.65	dpm/100cm ²
							avg	3499.97			
							min	-43.34			
							max	25413.91			
Ladies' Room											
99-01197-12	4-1	1/24/99	1/27/99	2/6/99	9901197	Tritium	EPA 906.0 Modified	159.37	47.75	64.87	dpm/100cm ²
99-01197-13	4-2	1/24/99	1/27/99	2/6/99	9901197	Tritium	EPA 906.0 Modified	3.12	35.13	62.86	dpm/100cm ²
99-01197-14	4-3	1/24/99	1/27/99	2/6/99	9901197	Tritium	EPA 906.0 Modified	-25.46	33.30	64.14	dpm/100cm ²
99-01197-15	4-4	1/24/99	1/27/99	2/6/99	9901197	Tritium	EPA 906.0 Modified	-12.48	38.78	71.86	dpm/100cm ²
99-01197-16	4-5	1/24/99	1/27/99	2/6/99	9901197	Tritium	EPA 906.0 Modified	-3.40	37.74	68.58	dpm/100cm ²
99-01197-17	4-6	1/24/99	1/27/99	2/6/99	9901197	Tritium	EPA 906.0 Modified	40.62	39.65	65.48	dpm/100cm ²
99-01197-18	4-7	1/24/99	1/27/99	2/6/99	9901197	Tritium	EPA 906.0 Modified	49.38	42.08	68.62	dpm/100cm ²
99-01197-19	4-8	1/24/99	1/27/99	2/6/99	9901197	Tritium	EPA 906.0 Modified	18.37	38.87	67.31	dpm/100cm ²
99-01197-20	4-9	1/24/99	1/27/99	2/6/99	9901197	Tritium	EPA 906.0 Modified	746.45	83.05	73.55	dpm/100cm ²
99-01198-04	4-10	1/24/99	1/27/99	2/6/99	9901198	Tritium	EPA 906.0 Modified	146.74	46.68	63.73	dpm/100cm ²
99-01198-05	4-11	1/24/99	1/27/99	2/6/99	9901198	Tritium	EPA 906.0 Modified	-10.44	30.51	56.98	dpm/100cm ²
99-01198-06	4-12	1/24/99	1/27/99	2/6/99	9901198	Tritium	EPA 906.0 Modified	30.18	34.49	57.67	dpm/100cm ²
							avg	95.20			
							min	-25.46			
							max	746.45			

Lab ID	Client ID	Sample Date	Receipt Date	Analysis Date	Batch ID	Analyte	Method	Result	Error	MDA	Units
Tunnel											
99-01198-07	5-1	1/23/99	1/27/99	2/6/99	9901198	Tritium	EPA 906 0 Modified	-17.24	34.80	65.91	dpm/100cm ²
99-01198-08	5-2	1/23/99	1/27/99	2/6/99	9901198	Tritium	EPA 906 0 Modified	20.51	35.11	60.29	dpm/100cm ²
99-01198-09	5-2 QC	1/26/99	1/27/99	2/6/99	9901198	Tritium	EPA 906 0 Modified	28.50	37.89	64.06	dpm/100cm ²
99-01198-10	5-3	1/23/99	1/27/99	2/6/99	9901198	Tritium	EPA 906 0 Modified	-3.83	40.07	73.18	dpm/100cm ²
99-01198-11	5-4	1/23/99	1/27/99	2/6/99	9901198	Tritium	EPA 906 0 Modified	-24.23	34.26	66.15	dpm/100cm ²
99-01198-12	5-4 QC	1/26/99	1/27/99	2/6/99	9901198	Tritium	EPA 906 0 Modified	65.88	45.34	71.94	dpm/100cm ²
99-01198-13	5-5	1/23/99	1/27/99	2/6/99	9901198	Tritium	EPA 906 0 Modified	18.93	41.64	72.34	dpm/100cm ²
99-01198-14	5-6	1/23/99	1/27/99	2/6/99	9901198	Tritium	EPA 906 0 Modified	10.17	31.60	55.55	dpm/100cm ²
99-01198-15	5-7	1/23/99	1/27/99	2/6/99	9901198	Tritium	EPA 906 0 Modified	-4.83	33.56	61.57	dpm/100cm ²
99-01198-16	5-8	1/23/99	1/27/99	2/6/99	9901198	Tritium	EPA 906 0 Modified	-8.82	36.43	67.43	dpm/100cm ²
99-01198-17	5-8 QC	1/26/99	1/27/99	2/6/99	9901198	Tritium	EPA 906 0 Modified	-45.24	37.18	75.17	dpm/100cm ²
99-01198-18	5-9	1/23/99	1/27/99	2/6/99	9901198	Tritium	EPA 906 0 Modified	267.17	56.94	68.07	dpm/100cm ²
99-01198-19	5-10	1/23/99	1/27/99	2/6/99	9901198	Tritium	EPA 906 0 Modified	47.38	41.13	67.07	dpm/100cm ²
99-01198-20	5-10 QC	1/26/99	1/27/99	2/6/99	9901198	Tritium	EPA 906 0 Modified	267.17	56.94	68.07	dpm/100cm ²
99-01199-01	5-11	1/23/99	1/27/99	2/8/99	9901199	Tritium	EPA 906 0 Modified	-4.32	31.97	57.74	dpm/100cm ²
99-01199-02	5-12	1/23/99	1/27/99	2/8/99	9901199	Tritium	EPA 906 0 Modified	21.29	34.07	58.34	dpm/100cm ²
99-01199-03	5-13	1/23/99	1/27/99	2/8/99	9901199	Tritium	EPA 906 0 Modified	55.40	30.20	45.97	dpm/100cm ²
99-01199-04	5-13 QC	1/26/99	1/27/99	2/8/99	9901199	Tritium	EPA 906 0 Modified	-3.72	36.11	66.40	dpm/100cm ²
99-01199-05	5-14	1/23/99	1/27/99	2/8/99	9901199	Tritium	EPA 906 0 Modified	5.07	33.59	60.25	dpm/100cm ²
99-01199-06	5-15	1/23/99	1/27/99	2/8/99	9901199	Tritium	EPA 906 0 Modified	27.15	38.28	65.85	dpm/100cm ²
99-01199-07	5-16	1/24/99	1/27/99	2/8/99	9901199	Tritium	EPA 906 0 Modified	4.81	31.89	57.20	dpm/100cm ²
99-01199-08	5-17	1/24/99	1/27/99	2/8/99	9901199	Tritium	EPA 906 0 Modified	-6.72	30.35	56.39	dpm/100cm ²
99-01199-09	5-18	1/24/99	1/27/99	2/8/99	9901199	Tritium	EPA 906 0 Modified	-9.14	28.95	54.37	dpm/100cm ²
99-01199-10	5-18 QC	1/26/99	1/27/99	2/8/99	9901199	Tritium	EPA 906 0 Modified	-4.69	22.51	41.82	dpm/100cm ²
							avg	17.40			
							min	-45.24			
							max	267.17			

Lab ID	Client ID	Sample Date	Receipt Date	Analysis Date	Batch ID	Analyte	Method	Result	Error	MDA	Units
West Basement											
99-01199-14	6-1	1/23/99	1/27/99	2/8/99	9901199	Tritium	EPA 906.0 Modified	0.00	30.50	55.52	dpm/100cm ²
99-01199-15	6-2	1/23/99	1/27/99	2/8/99	9901199	Tritium	EPA 906.0 Modified	12.16	35.22	61.98	dpm/100cm ²
99-01199-16	6-3	1/23/99	1/27/99	2/8/99	9901199	Tritium	EPA 906.0 Modified	13.57	34.58	60.54	dpm/100cm ²
99-01199-17	6-4	1/23/99	1/27/99	2/8/99	9901199	Tritium	EPA 906.0 Modified	-4.33	27.88	51.53	dpm/100cm ²
99-01199-18	6-5	1/23/99	1/27/99	2/8/99	9901199	Tritium	EPA 906.0 Modified	13.74	34.97	61.27	dpm/100cm ²
99-01199-19	6-6	1/23/99	1/27/99	2/8/99	9901199	Tritium	EPA 906.0 Modified	-22.68	34.75	67.44	dpm/100cm ²
99-01199-20	6-7	1/23/99	1/27/99	2/8/99	9901199	Tritium	EPA 906.0 Modified	41.51	37.75	61.72	dpm/100cm ²
99-01200-04	6-8	1/23/99	1/27/99	2/11/99	9901200	Tritium	EPA 906.0 Modified	0.00	30.15	54.84	dpm/100cm ²
99-01200-05	6-9	1/23/99	1/27/99	2/11/99	9901200	Tritium	EPA 906.0 Modified	19.75	31.93	54.71	dpm/100cm ²
99-01200-06	6-10	1/23/99	1/27/99	2/11/99	9901200	Tritium	EPA 906.0 Modified	-8.81	28.20	52.87	dpm/100cm ²
99-01200-07	6-11	1/23/99	1/27/99	2/11/99	9901200	Tritium	EPA 906.0 Modified	-4.67	30.34	56.01	dpm/100cm ²
99-01200-08	6-12	1/23/99	1/27/99	2/11/99	9901200	Tritium	EPA 906.0 Modified	3.04	29.78	54.72	dpm/100cm ²
99-01200-09	6-12 QCL	1/23/99	1/27/99	2/11/99	9901200	Tritium	EPA 906.0 Modified	-1.58	31.21	57.05	dpm/100cm ²
99-01200-10	6-13	1/23/99	1/27/99	2/11/99	9901200	Tritium	EPA 906.0 Modified	9.09	29.09	53.52	dpm/100cm ²
99-01200-11	6-14	1/23/99	1/27/99	2/11/99	9901200	Tritium	EPA 906.0 Modified	0.00	30.92	55.24	dpm/100cm ²
99-01200-12	6-15	1/23/99	1/27/99	2/11/99	9901200	Tritium	EPA 906.0 Modified	9.07	30.78	54.41	dpm/100cm ²
99-01200-13	6-16	1/23/99	1/27/99	2/11/99	9901200	Tritium	EPA 906.0 Modified	-11.01	35.25	65.09	dpm/100cm ²
99-01200-14	6-17	1/23/99	1/27/99	2/11/99	9901200	Tritium	EPA 906.0 Modified	-7.93	30.61	56.11	dpm/100cm ²
99-01200-15	6-18	1/23/99	1/27/99	2/11/99	9901200	Tritium	EPA 906.0 Modified	16.97	32.14	55.55	dpm/100cm ²
99-01200-16	6-19	1/23/99	1/27/99	2/11/99	9901200	Tritium	EPA 906.0 Modified	1.59	31.63	57.26	dpm/100cm ²
99-01200-17	6-20	1/23/99	1/27/99	2/11/99	9901200	Tritium	EPA 906.0 Modified	19.12	29.62	57.36	dpm/100cm ²
99-01200-18	6-21	1/23/99	1/27/99	2/11/99	9901200	Tritium	EPA 906.0 Modified	20.09	32.48	55.65	dpm/100cm ²
99-01200-19	6-22	1/23/99	1/27/99	2/11/99	9901200	Tritium	EPA 906.0 Modified	245.51	50.93	58.94	dpm/100cm ²
99-01200-20	6-23	1/23/99	1/27/99	2/11/99	9901200	Tritium	EPA 906.0 Modified	24.13	34.10	57.93	dpm/100cm ²
99-01201-04	6-24	1/23/99	1/27/99	2/11/99	9901201	Tritium	EPA 906.0 Modified	3.02	25.10	45.73	dpm/100cm ²
99-01201-05	6-25	1/23/99	1/27/99	2/11/99	9901201	Tritium	EPA 906.0 Modified	2.86	23.77	43.31	dpm/100cm ²
							avg	12.76			
							min	-22.68			
							max	245.51			
Main Corridor											
99-01201-06	7-1	1/23/99	1/27/99	2/11/99	9901201	Tritium	EPA 906.0 Modified	11.81	25.55	44.71	dpm/100cm ²
99-01201-07	7-2	1/23/99	1/27/99	2/11/99	9901201	Tritium	EPA 906.0 Modified	7.57	25.68	45.85	dpm/100cm ²
99-01201-08	7-3	1/23/99	1/27/99	2/11/99	9901201	Tritium	EPA 906.0 Modified	28.81	28.78	43.64	dpm/100cm ²
99-01201-09	7-4	1/23/99	1/27/99	2/11/99	9901201	Tritium	EPA 906.0 Modified	-2.83	22.90	42.94	dpm/100cm ²
99-01201-10	7-5	1/23/99	1/27/99	2/11/99	9901201	Tritium	EPA 906.0 Modified	15.20	24.38	41.88	dpm/100cm ²
99-01201-11	7-6	1/23/99	1/27/99	2/11/99	9901201	Tritium	EPA 906.0 Modified	8.49	24.17	42.85	dpm/100cm ²
99-01201-12	7-7	1/23/99	1/27/99	2/11/99	9901201	Tritium	EPA 906.0 Modified	19.40	28.64	45.20	dpm/100cm ²
99-01201-13	7-8	1/23/99	1/27/99	2/11/99	9901201	Tritium	EPA 906.0 Modified	166.27	41.34	48.44	dpm/100cm ²
99-01201-14	7-9	1/23/99	1/27/99	2/11/99	9901201	Tritium	EPA 906.0 Modified	9.42	28.84	47.59	dpm/100cm ²
99-01201-15	7-10	1/23/99	1/27/99	2/11/99	9901201	Tritium	EPA 906.0 Modified	6.18	26.06	46.83	dpm/100cm ²
99-01201-16	7-11	1/23/99	1/27/99	2/11/99	9901201	Tritium	EPA 906.0 Modified	29.08	29.71	48.95	dpm/100cm ²
99-01201-17	7-12	1/23/99	1/27/99	2/11/99	9901201	Tritium	EPA 906.0 Modified	18.64	25.60	43.44	dpm/100cm ²
99-01201-18	7-13	1/23/99	1/27/99	2/11/99	9901201	Tritium	EPA 906.0 Modified	18.76	24.07	40.61	dpm/100cm ²
99-01201-19	7-14	1/23/99	1/27/99	2/11/99	9901201	Tritium	EPA 906.0 Modified	29.40	27.33	44.54	dpm/100cm ²
99-01201-20	7-15	1/23/99	1/27/99	2/11/99	9901201	Tritium	EPA 906.0 Modified	27.91	27.17	44.51	dpm/100cm ²
99-01202-04	7-16	1/23/99	1/27/99	2/11/99	9901202	Tritium	EPA 906.0 Modified	0.71	12.87	23.45	dpm/100cm ²

Lab ID	Client ID	Sample Date	Receipt Date	Analysis Date	Batch ID	Analyte	Method	Result	Error	MDA	Units
99-01202-05	7-17	1/23/99	1/27/99	2/11/99	9901202	Tritium	EPA 906.0 Modified	2.49	11.45	20.50	dpm/100cm ²
99-01202-06	7-18	1/23/99	1/27/99	2/11/99	9901202	Tritium	EPA 906.0 Modified	5.57	13.08	22.91	dpm/100cm ²
99-01202-07	7-19	1/23/99	1/27/99	2/11/99	9901202	Tritium	EPA 906.0 Modified	7.63	12.21	20.93	dpm/100cm ²
99-01202-08	7-20	1/23/99	1/27/99	2/11/99	9901202	Tritium	EPA 906.0 Modified	5.18	12.18	21.33	dpm/100cm ²
99-01202-09	7-21	1/23/99	1/27/99	2/11/99	9901202	Tritium	EPA 906.0 Modified	7.06	12.26	21.14	dpm/100cm ²
99-01202-10	7-22	1/23/99	1/27/99	2/11/99	9901202	Tritium	EPA 906.0 Modified	-3.15	10.97	20.73	dpm/100cm ²
99-01202-11	7-23	1/23/99	1/27/99	2/11/99	9901202	Tritium	EPA 906.0 Modified	-2.58	11.31	21.24	dpm/100cm ²
99-01202-12	7-24	1/23/99	1/27/99	2/11/99	9901202	Tritium	EPA 906.0 Modified	5.87	12.33	21.48	dpm/100cm ²
99-01202-13	7-25	1/23/99	1/27/99	2/11/99	9901202	Tritium	EPA 906.0 Modified	-4.31	10.59	20.28	dpm/100cm ²
99-01202-14	7-26	1/23/99	1/27/99	2/11/99	9901202	Tritium	EPA 906.0 Modified	7.55	12.07	20.70	dpm/100cm ²
99-01202-15	7-27	1/23/99	1/27/99	2/11/99	9901202	Tritium	EPA 906.0 Modified	7.16	12.44	21.45	dpm/100cm ²
99-01202-16	7-28	1/23/99	1/27/99	2/11/99	9901202	Tritium	EPA 906.0 Modified	-1.90	11.17	20.85	dpm/100cm ²
99-01202-17	7-29	1/23/99	1/27/99	2/11/99	9901202	Tritium	EPA 906.0 Modified	7.01	12.18	21.00	dpm/100cm ²
99-01202-18	7-30	1/23/99	1/27/99	2/11/99	9901202	Tritium	EPA 906.0 Modified	0.61	11.00	20.04	dpm/100cm ²
99-01202-19	7-31	1/23/99	1/27/99	2/11/99	9901202	Tritium	EPA 906.0 Modified	3.18	11.07	20.92	dpm/100cm ²
99-01202-20	7-32	1/23/99	1/27/99	2/11/99	9901202	Tritium	EPA 906.0 Modified	5.94	12.27	21.38	dpm/100cm ²
99-01203-04	7-33	1/23/99	1/27/99	2/14/99	9901203	Tritium	EPA 906.0 Modified	7.83	28.31	50.46	dpm/100cm ²
99-01203-05	7-34	1/23/99	1/27/99	2/14/99	9901203	Tritium	EPA 906.0 Modified	28.56	30.79	51.10	dpm/100cm ²
99-01203-06	7-35	1/23/99	1/27/99	2/14/99	9901203	Tritium	EPA 906.0 Modified	7.67	28.44	50.68	dpm/100cm ²
99-01203-07	7-36	1/23/99	1/27/99	2/14/99	9901203	Tritium	EPA 906.0 Modified	45.65	31.28	49.00	dpm/100cm ²
99-01203-08	7-37	1/23/99	1/27/99	2/14/99	9901203	Tritium	EPA 906.0 Modified	6.31	26.94	50.78	dpm/100cm ²
99-01203-09	7-38	1/23/99	1/27/99	2/14/99	9901203	Tritium	EPA 906.0 Modified	14.82	30.44	53.01	dpm/100cm ²
99-01203-10	7-39	1/23/99	1/27/99	2/14/99	9901203	Tritium	EPA 906.0 Modified	4.78	28.44	51.29	dpm/100cm ²
99-01203-11	7-40	1/23/99	1/27/99	2/14/99	9901203	Tritium	EPA 906.0 Modified	13.77	35.95	63.33	dpm/100cm ²
99-01203-12	7-41	1/23/99	1/27/99	2/14/99	9901203	Tritium	EPA 906.0 Modified	9.30	28.19	49.94	dpm/100cm ²
99-01203-13	7-42	1/23/99	1/27/99	2/14/99	9901203	Tritium	EPA 906.0 Modified	21.74	29.51	50.01	dpm/100cm ²
99-01203-14	7-43	1/23/99	1/27/99	2/14/99	9901203	Tritium	EPA 906.0 Modified	20.27	29.47	50.22	dpm/100cm ²
99-01203-15	7-44	1/23/99	1/27/99	2/14/99	9901203	Tritium	EPA 906.0 Modified	56.01	34.48	53.05	dpm/100cm ²
99-01203-16	7-45	1/23/99	1/27/99	2/14/99	9901203	Tritium	EPA 906.0 Modified	3.16	28.03	50.88	dpm/100cm ²
99-01203-17	7-46	1/23/99	1/27/99	2/14/99	9901203	Tritium	EPA 906.0 Modified	12.81	23.82	41.28	dpm/100cm ²
99-01203-18	7-47	1/23/99	1/27/99	2/14/99	9901203	Tritium	EPA 906.0 Modified	6.86	30.79	55.20	dpm/100cm ²
99-01203-19	7-48	1/23/99	1/27/99	2/14/99	9901203	Tritium	EPA 906.0 Modified	14.80	30.40	52.95	dpm/100cm ²
99-01203-20	7-49	1/23/99	1/27/99	2/14/99	9901203	Tritium	EPA 906.0 Modified	54.78	34.59	53.46	dpm/100cm ²
99-01204-04	7-50	1/23/99	1/27/99	2/14/99	9901204	Tritium	EPA 906.0 Modified	64.51	35.11	53.28	dpm/100cm ²
							avg	16.46			
							min	-6.31			
							max	166.27			

Lab ID	Client ID	Sample Date	Receipt Date	Analysis Date	Batch ID	Analyte	Method	Result	Error	MDA	Units
Upstairs											
99-01204-05	8-1	1/23/99	1/27/99	2/14/99	9901204	Tritium	EPA 906 0 Modified	0.00	30.85	56.29	dpm/100cm ²
99-01204-06	8-2	1/23/99	1/27/99	2/14/99	9901204	Tritium	EPA 906 0 Modified	26.42	33.94	57.26	dpm/100cm ²
99-01204-07	8-3	1/23/99	1/27/99	2/14/99	9901204	Tritium	EPA 906 0 Modified	3.08	29.55	53.36	dpm/100cm ²
99-01204-08	8-4	1/23/99	1/27/99	2/14/99	9901204	Tritium	EPA 906 0 Modified	27.74	31.97	53.45	dpm/100cm ²
99-01204-09	8-5	1/23/99	1/27/99	2/14/99	9901204	Tritium	EPA 906 0 Modified	-1.79	33.86	62.11	dpm/100cm ²
99-01204-10	8-6	1/23/99	1/27/99	2/14/99	9901204	Tritium	EPA 906 0 Modified	-13.18	26.46	50.77	dpm/100cm ²
99-01204-11	8-7	1/23/99	1/27/99	2/14/99	9901204	Tritium	EPA 906 0 Modified	-1.60	30.34	55.66	dpm/100cm ²
99-01204-12	8-8	1/23/99	1/27/99	2/14/99	9901204	Tritium	EPA 906 0 Modified	-1.67	31.50	57.79	dpm/100cm ²
99-01204-13	8-9	1/23/99	1/27/99	2/14/99	9901204	Tritium	EPA 906 0 Modified	8.02	31.28	55.61	dpm/100cm ²
99-01204-14	8-10	1/23/99	1/27/99	2/14/99	9901204	Tritium	EPA 906 0 Modified	0.00	30.78	56.18	dpm/100cm ²
99-01204-15	8-11	1/23/99	1/27/99	2/14/99	9901204	Tritium	EPA 906 0 Modified	-4.55	28.36	52.61	dpm/100cm ²
99-01204-16	8-12	1/23/99	1/27/99	2/14/99	9901204	Tritium	EPA 906 0 Modified	-3.74	30.19	56.25	dpm/100cm ²
99-01204-17	8-13	1/23/99	1/27/99	2/14/99	9901204	Tritium	EPA 906 0 Modified	19.80	31.03	61.65	dpm/100cm ²
99-01204-18	8-14	1/23/99	1/27/99	2/14/99	9901204	Tritium	EPA 906 0 Modified	2.19	41.25	70.68	dpm/100cm ²
99-01204-19	8-15	1/23/99	1/27/99	2/14/99	9901204	Tritium	EPA 906 0 Modified	190.51	51.45	91.75	dpm/100cm ²
99-01204-20	8-16	1/23/99	1/27/99	2/14/99	9901204	Tritium	EPA 906 0 Modified	-21.35	31.59	61.73	dpm/100cm ²
99-01205-04	8-17	1/23/99	1/27/99	2/11/99	9901205	Tritium	EPA 906 0 Modified	10.41	35.07	62.82	dpm/100cm ²
99-01205-07	8-20	1/23/99	1/27/99	2/11/99	9901205	Tritium	EPA 906 0 Modified	26.03	33.50	56.51	dpm/100cm ²
99-01205-08	8-21	1/23/99	1/27/99	2/11/99	9901205	Tritium	EPA 906 0 Modified	7.87	28.76	51.24	dpm/100cm ²
99-01205-09	8-22	1/23/99	1/27/99	2/11/99	9901205	Tritium	EPA 906 0 Modified	3.10	27.17	50.49	dpm/100cm ²
99-01205-10	8-23	1/23/99	1/27/99	2/11/99	9901205	Tritium	EPA 906 0 Modified	19.66	31.14	53.36	dpm/100cm ²
99-01205-11	8-24	1/23/99	1/27/99	2/11/99	9901205	Tritium	EPA 906 0 Modified	25.57	31.00	52.04	dpm/100cm ²
99-01205-12	8-25	1/23/99	1/27/99	2/11/99	9901205	Tritium	EPA 906 0 Modified	20.09	29.52	50.32	dpm/100cm ²
99-01207-10	8-26	1/26/99	1/27/99	2/13/99	9901207	Tritium	EPA 906 0 Modified	-6.27	34.48	63.16	dpm/100cm ²
99-01207-11	8-26 QC	1/26/99	1/27/99	2/13/99	9901207	Tritium	EPA 906 0 Modified	7.66	34.89	61.74	dpm/100cm ²
99-01207-12	8-27	1/26/99	1/27/99	2/13/99	9901207	Tritium	EPA 906 0 Modified	-11.88	32.15	59.84	dpm/100cm ²
99-01207-13	8-27 QC	1/26/99	1/27/99	2/13/99	9901207	Tritium	EPA 906 0 Modified	-32.79	31.95	62.92	dpm/100cm ²
							avg	9.41			
							min	-32.79			
							max	190.51			

Lab ID	Client ID	Sample Date	Receipt Date	Analysis Date	Batch ID	Analyte	Method	Result	Error	MDA	Units
Incinerator											
99-01205-05	9-18	1/23/99	1/27/99	2/11/99	9901205	Tritium	EPA 906.0 Modified	-27.98	42.01	82.85	dpm/100cm ²
99-01205-06	9-19	1/23/99	1/27/99	2/11/99	9901205	Tritium	EPA 906.0 Modified	-8.91	51.75	98.75	dpm/100cm ²
99-01205-13	9-1	1/25/99	1/27/99	2/11/99	9901205	Tritium	EPA 906.0 Modified	18.90	32.48	55.97	dpm/100cm ²
99-01205-14	9-1 QC	1/26/99	1/27/99	2/11/99	9901205	Tritium	EPA 906.0 Modified	11.21	40.99	73.03	dpm/100cm ²
99-01205-15	9-2	1/25/99	1/27/99	2/11/99	9901205	Tritium	EPA 906.0 Modified	15.56	41.11	72.42	dpm/100cm ²
99-01205-16	9-2 QC	1/26/99	1/27/99	2/11/99	9901205	Tritium	EPA 906.0 Modified	39.92	58.67	100.02	dpm/100cm ²
99-01205-17	9-3	1/25/99	1/27/99	2/11/99	9901205	Tritium	EPA 906.0 Modified	9.99	30.62	54.23	dpm/100cm ²
99-01205-18	9-4	1/25/99	1/27/99	2/11/99	9901205	Tritium	EPA 906.0 Modified	21.27	31.25	53.28	dpm/100cm ²
99-01205-19	9-5	1/25/99	1/27/99	2/11/99	9901205	Tritium	EPA 906.0 Modified	32.82	32.48	53.44	dpm/100cm ²
99-01205-20	9-6	1/25/99	1/27/99	2/11/99	9901205	Tritium	EPA 906.0 Modified	13.01	30.23	52.94	dpm/100cm ²
99-01206-04	9-7	1/25/99	1/27/99	2/13/99	9901206	Tritium	EPA 906.0 Modified	-168.64	55.69	112.58	dpm/100cm ²
99-01206-05	9-8	1/25/99	1/27/99	2/13/99	9901206	Tritium	EPA 906.0 Modified	308.04	56.82	128.53	dpm/100cm ²
99-01206-06	9-9	1/25/99	1/27/99	2/13/99	9901206	Tritium	EPA 906.0 Modified	-357.82	76.54	167.22	dpm/100cm ²
99-01206-07	9-10	1/25/99	1/27/99	2/13/99	9901206	Tritium	EPA 906.0 Modified	206.94	39.21	88.94	dpm/100cm ²
99-01206-08	9-11 QC	1/26/99	1/27/99	2/13/99	9901206	Tritium	EPA 906.0 Modified	293.63	56.23	123.27	dpm/100cm ²
99-01206-09	9-11	1/25/99	1/27/99	2/13/99	9901206	Tritium	EPA 906.0 Modified	-278.48	54.35	121.25	dpm/100cm ²
99-01206-10	9-12	1/25/99	1/27/99	2/13/99	9901206	Tritium	EPA 906.0 Modified	317.23	58.99	133.16	dpm/100cm ²
99-01206-11	9-13	1/25/99	1/27/99	2/13/99	9901206	Tritium	EPA 906.0 Modified	-362.49	64.28	145.88	dpm/100cm ²
99-01206-12	9-14	1/25/99	1/27/99	2/13/99	9901206	Tritium	EPA 906.0 Modified	226.04	51.38	110.81	dpm/100cm ²
99-01206-13	9-15	1/25/99	1/27/99	2/13/99	9901206	Tritium	EPA 906.0 Modified	-263.20	47.79	108.53	dpm/100cm ²
99-01206-14	9-16	1/25/99	1/27/99	2/13/99	9901206	Tritium	EPA 906.0 Modified	-240.11	50.93	111.47	dpm/100cm ²
99-01206-15	9-17	1/25/99	1/27/99	2/13/99	9901206	Tritium	EPA 906.0 Modified	-259.35	49.40	110.85	dpm/100cm ²
99-01206-16	9-18	1/25/99	1/27/99	2/13/99	9901206	Tritium	EPA 906.0 Modified	-273.95	53.91	120.03	dpm/100cm ²
99-01206-17	9-19	1/25/99	1/27/99	2/13/99	9901206	Tritium	EPA 906.0 Modified	-262.59	52.09	115.77	dpm/100cm ²
99-01206-18	9-20	1/25/99	1/27/99	2/13/99	9901206	Tritium	EPA 906.0 Modified	-259.14	50.99	113.53	dpm/100cm ²
99-01206-19	9-21	1/25/99	1/27/99	2/13/99	9901206	Tritium	EPA 906.0 Modified	-273.03	53.29	118.88	dpm/100cm ²
99-01206-20	9-21 QC	1/26/99	1/27/99	2/13/99	9901206	Tritium	EPA 906.0 Modified	-236.07	57.13	121.68	dpm/100cm ²
99-01207-04	9-22	1/25/99	1/27/99	2/13/99	9901207	Tritium	EPA 906.0 Modified	2916.03	217.10	145.98	dpm/100cm ²
99-01207-05	9-22 QC	1/26/99	1/27/99	2/13/99	9901207	Tritium	EPA 906.0 Modified	-9.03	39.59	72.81	dpm/100cm ²
99-01207-06	9-23	1/25/99	1/27/99	2/13/99	9901207	Tritium	EPA 906.0 Modified	-21.00	40.81	78.82	dpm/100cm ²
99-01207-07	9-24	1/25/99	1/27/99	2/13/99	9901207	Tritium	EPA 906.0 Modified	-42.93	36.09	72.08	dpm/100cm ²
99-01207-08	9-24 QC	1/26/99	1/27/99	2/13/99	9901207	Tritium	EPA 906.0 Modified	-28.27	39.62	75.96	dpm/100cm ²
99-01207-09	9-25	1/25/99	1/27/99	2/13/99	9901207	Tritium	EPA 906.0 Modified	-124.70	135.53	284.51	dpm/100cm ²
							avg	-53.68			
							min	-362.49			
							max	2916.03			

Lab ID	Client ID	Sample Date	Receipt Date	Analysis Date	Batch ID	Analyte	Method	Result	Error	MDA	Units
Solids											
99-01188-01 K	KNOWN	1/27/99	1/27/99	2/4/99	9901188	Total Strontium	ElChroM SRW01 Modified	22.42	0.47		PCI/G
99-01188-01 S	SPIKE	1/27/99	1/27/99	2/4/99	9901188	Total Strontium	ElChroM SRW01 Modified	19.95	1.27	0.82	PCI/G
99-01188-02 B	BLANK	1/27/99	1/27/99	2/4/99	9901188	Total Strontium	ElChroM SRW01 Modified	-0.22	0.29	0.81	PCI/G
99-01188-03 D	SU009-1	1/25/99	1/27/99	2/4/99	9901188	Total Strontium	ElChroM SRW01 Modified	0.48	0.34	0.74	PCI/G
99-01188-04	SU009-1	1/25/99	1/27/99	2/4/99	9901188	Total Strontium	ElChroM SRW01 Modified	-0.02	0.26	0.66	PCI/G
99-01188-05	SU005-1	1/25/99	1/27/99	2/4/99	9901188	Total Strontium	ElChroM SRW01 Modified	0.23	0.31	0.72	PCI/G
99-01188-06	SU005-2	1/25/99	1/27/99	2/4/99	9901188	Total Strontium	ElChroM SRW01 Modified	-0.43	0.19	0.62	PCI/G
99-01188-07	SU001-1	1/25/99	1/27/99	2/4/99	9901188	Total Strontium	ElChroM SRW01 Modified	2054.26	17.09	1.52	PCI/G
99-01188-08	SU001-2	1/25/99	1/27/99	2/4/99	9901188	Total Strontium	ElChroM SRW01 Modified	157.98	4.98	1.85	PCI/G
99-01188-09	SU005-3	1/25/99	1/27/99	2/4/99	9901188	Total Strontium	ElChroM SRW01 Modified	2.85	0.54	0.76	PCI/G

APPENDIX D

DRAIN CLEANOUT SURVEY RESULTS

ATTACHMENT 2
TOTAL/MAXIMUM BETA CONTAMINATION SURVEY FORM

Location: SU005/SU006 Cleanouts		Purpose: Characterization			Date: 1/20/99 & 1/22/99			
Based upon Millennium Survey		BETA CONTAMINATION SURVEY INFORMATION						
		Probe Model #: 44-116 Serial #: 131321						
		Meter Model #: 2221 Serial #: 108846 Efficiency (E): 0.3 (1/20) .29 (1/22) cpm/dpm						
		Isotope: SY90 Background(B) 339 cpm (1/20), 441 (1/22)						
#	SURVEY ITEM/DESCRIPTION	Gross cpm	Net cpm(1)	dpm/ 100cm ² (2)	Max cpm	Max Net cpm	Max dpm/ 100cm ²	Smear Req'd (3)
G-1	E-35 File Room Door at Threshold	385	46	153.33	NA	NA	NA	N
G-2	E-35 File Room Door 1st Cleanout	453	114	380.00	NA	NA	NA	Y
G-3	E-35 File Room Door 2nd Cleanout	2452	2113	7043.33	NA	NA	NA	Y
G-4	Outside Control Room (Inset) and Crack	2809	2470	8233.33	NA	NA	NA	Y
G-5	Outside Control Room (Stickup)	729	390	1300.00	NA	NA	NA	Y
G-6	Janitor Closet E-37 Sink	334	-5	-16.67	NA	NA	NA	N
G-7	Janitor Closet E-37 Drain	427	88	293.33	NA	NA	NA	Y
G-8	E-25 Floor Cleanout	362	23	76.67	NA	NA	NA	N
G-9	Corridor Outside E-23 (Radiator)	384	45	150.00	NA	NA	NA	N
G-10	Corridor Across from Ramp (Radiator)	390	51	170.00	NA	NA	NA	N
G-11	Janitor's Closet Floor Drain	409	70	233.33	NA	NA	NA	Y
G-12	Machine Room Drain	356	17	56.67	NA	NA	NA	N
(1) Net cpm is calculated as Gross cpm - Background cpm (2) dpm/100 cm ² is calculated as Net cpm/E (cpm/dpm)*PF Note: PF for Ludlum 44-116 PF=1 (3) If total dpm/100 cm ² is >200 then smear is required								
Surveyor's Remarks:								

ATTACHMENT 2
REMOVABLE BETA CONTAMINATION SURVEY
FORM

Location: Cleanouts SU005/SU006		Purpose: Characterization		Date: 1/20/99 & 1/21/99	
Based upon Millennium Survey		REMOVABLE BETA CONTAMINATION SURVEY INFORMATION Counter Model #: 43-10-1 Serial #: 141392 Meter Model #: 2929 Serial #: 137620 Efficiency (E): 0.46 cpm/dpm Isotope: SY90 Background:(B) 43 (1/20) and 47 (1/22) cpm Count Time (t) 1 min			
#	SURVEY ITEM/DESCRIPTION	Total Counts	Net cpm(1)	dpm/ 100cm ² (2)	Exceeds Release? (3)
G-1	E-35 File Room Door at Threshold	50	7	15.22	N
G-2	E-35 File Room Door 1st Cleanout	44	1	2.17	N
G-3	E-35 File Room Door 2nd Cleanout	51	8	17.39	N
G-4	Outside Control Room (Inset) and Crack	45	2	4.35	N
G-5	Outside Control Room (Stickup)	52	9	19.57	N
G-6	Janitor Closet E-37 Sink	49	6	13.04	N
G-7	Janitor Closet E-37 Drain	54	11	23.91	N
G-8	E-25 Floor Cleanout	50	7	15.22	N
G-9	Corridor Outside E-23 (Radiator)	52	9	19.57	N
G-10	Corridor Across from Ramp (Radiator)	50	7	15.22	N
G-11	Janitor's Closet Floor Drain	40	-3	-6.52	N
G-12	Machine Room Drain	54	7	15.22	N
(1) Net cpm is calculated as (Gross counts/count time) - Background cpm (2) dpm/100 cm ² is calculated as Net cpm/E (cpm/dpm) (3) If total dpm/100 cm ² is >200 then item is not acceptable for release					
Surveyor's Remarks:					

APPENDIX E

DISCRETE LOCATION SURVEY RESULTS

ATTACHMENT 2
TOTAL/MAXIMUM BETA CONTAMINATION SURVEY FORM

Location: SU001		Purpose:			Date: 1/24/99				
BETA CONTAMINATION SURVEY INFORMATION									
Probe Model #: 44-116 Serial #: 131321									
Meter Model #: 2221 Serial #: 108846									
Efficiency (E): 0.30 cpm/dpm Isotope: SY90 Background (B) varies (see bottom) cpm									

#	SURVEY ITEM/DESCRIPTION	Coordinate	Gross cpm	Net cpm(1)	dpm/100 cm ² (2)	Max cpm	Max Net cpm	Max dpm/100cm ²	Smear Req'd (3)
1-1	Counting Lab Fume Hood		17200	16875	56250				Y
1-2	Low Level Lab		24400	24075	80250				Y
1-3	High Level Lab - Fume Hood		21900	21575	71917				Y
1-4	Isotope Storage Area		870000	869675	2898917				Y
1-5	Plaster wall betw Count and LL Lab		450	160	533				Y
1-6	Wood Wall in LL Lab		8100	7720	25733				Y
1-7	Wood Wall in LL Lab		2100	1720	5733				Y
1-8	Plaster Wall West side HL Lab		1900	1610	5367				Y
1-9	Plaster Wall HL Lab		800	510	1700				Y
1-10	Cinder Block Wall I.S.A - East		5000	4525	15083				Y
1-11	Cinder Block Wall I.S.A - South		700	225	750				Y
1-12	Side of Cabinet - Counting Lab		600	275	917				Y
1-13	Sink - LL Lab		5200	4875	16250				Y
1-14	HL Lab under hood		700	375	1250				Y
1-15	HL Lab under hood		400	75	250				Y
1-16	Counting Lab under hood		700	375	1250				Y
1-17	Vent LL Lab under hood		4500	4175	13917				Y
1-18	Shelving - counting lab		840	515	1717				Y
1-19	LL Lab under hood		250	-75	-250				N
1-20	Vent - LL lab		2250	1925	6417				Y
1-21	LL Lab - West Wall		500	210	700				Y
1-22	LL Lab - West Wall		450	160	533				Y
1-23	LL Lab - West Wall		400	110	367				Y
1-24	Metal above former hood - LL Lab		800	475	1583				Y
1-25	Hood - HL Lab		500	175	583				Y
1-26	Shelf - HL Lab		900	575	1917				Y
1-27	Top Oven High Level Lab		1200	875	2917				Y
1-28	Plywood Wall - ISA		350	-30	-100				N
1-29	Cinder Block Wall ISA		510	35	117				N
1-30	Cleanout - Counting Room		1900	1575	5250				Y

(1) Net cpm is calculated as Gross cpm - Background cpm

(2) dpm/100 cm² is calculated as Net cpm/E (cpm/dpm)*PF Note: PF for Ludlum 44-116 PF=1

(3) If total dpm/100 cm² is >200 then smear is required

Surveyor's Remarks:

Backgrounds: metals 325, Plaster 290, Cinder Block 475, Wood 380

ATTACHMENT 2
REMOVABLE BETA CONTAMINATION SURVEY FORM

Location: SU001		Purpose:		Date: 1/23/99			
REMOVABLE BETA CONTAMINATION SURVEY INFORMATION Counter Model #: <u>43-10-1</u> Serial #: <u>141392</u> Meter Model #: <u>2929</u> Serial #: <u>137620</u> Efficiency (E): <u>0.46</u> cpm/dpm Isotope: <u>SY90</u> Background:(B) <u>47</u> cpm Count Time (t) <u>0.2</u> min							
#	SURVEY ITEM/DESCRIPTION	Coordinate	Total Counts	Net cpm(1)	dpm/ 100cm ² (2)	Max cpm	Exceeds Release? (3)
1-1	Counting Lab Fume Hood		100	53	115		N
1-2	Low Level Lab		80	33	72		N
1-3	High Level Lab - Fume Hood		165	118	257		Y
1-4	Isotope Storage Area		1310	1263	2746		Y
1-5	Plaster wall betw Count and LL Lab		90	43	93		N
1-6	Wood Wall in LL Lab		300	253	550		Y
1-7	Wood Wall in LL Lab		120	73	159		N
1-8	Plaster Wall West side HL Lab		105	58	126		N
1-9	Plaster Wall HL Lab		60	13	28		N
1-10	Cinder Block Wall I.S.A - East		95	48	104		N
1-11	Cinder Block Wall I.S.A - South		55	8	17		N
1-12	Side of Cabinet - Counting Lab		90	43	93		N
1-13	Sink - LL Lab		680	633	1376		Y
1-14	HL Lab under hood		180	133	289		Y
1-15	HL Lab under hood		90	43	93		N
1-16	Counting Lab under hood		105	58	126		N
1-17	Vent LL Lab under hood		215	168	365		Y
1-18	Shelving - counting lab		255	208	452		Y
1-19	LL Lab under hood		85	38	83		N
1-20	Vent - LL lab		85	38	83		N
1-21	LL Lab - West Wall		75	28	61		N
1-22	LL Lab - West Wall		70	23	50		N
1-23	LL Lab - West Wall		45	-2	-4		N
1-24	Metal above former hood - LL Lab		50	3	7		N
1-25	Hood - HL Lab		80	33	72		N
1-26	Shelf - HL Lab		110	63	137		N
1-27	Top Oven High Level Lab		190	143	311		Y
1-28	Plywood Wall - ISA		55	8	17		N
1-29	Cinder Block Wall ISA		60	13	28		N
1-30	Cleanout - Counting Room		55	8	17		N
(1) Net cpm is calculated as (Gross counts/count time) - Background cpm (2) dpm/100 cm ² is calculated as Net cpm/E (cpm/dpm) (3) If total dpm/100 cm ² is >200 then item is not acceptable for release							
Surveyor's Remarks:							

ATTACHMENT 2
REMOVABLE BETA CONTAMINATION SURVEY FORM

[illegible]

ATTACHMENT 2

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ATTACHMENT 2
REMOVABLE BETA CONTAMINATION SURVEY FORM

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ATTACHMENT 2

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ATTACHMENT 2

REMOVABLE BETA CONTAMINATION SURVEY FORM

[illegible]

ATTACHMENT 2
TOTAL/MAXIMUM BETA CONTAMINATION SURVEY FORM

[illegible]

ATTACHMENT 2

REMOVABLE BETA CONTAMINATION SURVEY FORM

[illegible]

ATTACHMENT 2

TOTAL/MAXIMUM BETA CONTAMINATION SURVEY FORM

[illegible]

ATTACHMENT 2

[illegible]

ATTACHMENT 2
TOTAL/MAXIMUM BETA CONTAMINATION SURVEY FORM

Location: SU006			Purpose:			Date: 1/23/99			
BETA CONTAMINATION SURVEY INFORMATION Probe Model #: 44-116 Serial #: 131321 Meter Model #: 2221 Serial #: 108846 Efficiency (E): 0.30 cpm/dpm Isotope: SY90 Background (B) varies (see below) cpm									
#	SURVEY ITEM/DESCRIPTION	Coordinate	Gross cpm	Net cpm(1)	dpm/100 cm ² (2)	Max cpm	Max Net cpm	Max dpm/ 100cm ²	Smear Req'd (3)
6-1	Janitor's Closet - small tiles		610	25	83				N
6-2	Janitor's Closet - small tiles		550	-35	-117				N
6-3	Corridor - vinyl tiles		470	95	317				Y
6-4	Corridor - vinyl tiles		430	55	183				N
6-5	Corridor - vinyl tiles		510	135	450				Y
6-6	Corridor inside cage - vinyl tiles		470	95	317				Y
6-7	Corridor inside cage - vinyl tiles		460	85	283				Y
6-8	Corridor - vinyl tiles		490	115	383				Y
6-9	E-47 - Vinyl Tiles		400	25	83				N
6-10	E-47 - Vinyl Tiles		400	25	83				N
6-11	E-47 - Vinyl Tiles		340	-35	-117				N
6-12	E-47 Toilet - Small Tiles		760	175	583				Y
6-13	E-47 - Vinyl Tiles		370	-5	-17				N
6-14	E-47 - Closet - Concrete		550	25	83				N
6-15	E-45 Toilet - Small Tiles		900	315	1050				Y
6-16	E-45 - Vinyl Tiles		370	-5	-17				N
6-17	Threshold to Stairwell - Orig. Black tile		6500	6125	20417				Y
6-18	Stairwell - Original Black Tile		540	165	550				Y
6-19	Stairwell - Original Black Tile		570	195	650				Y
6-20	Stairwell Landing - Original Black Tile		530	155	517				Y
6-21	E-47 Wall - Plaster over Cinder		490	165	550				Y
6-22	Corridor Wall - Plaster over Cinder		520	195	650				Y
6-23	Corridor Wall - Plaster over Cinder		480	155	517				Y
6-24	Stairwell Wall - Glazed Tile		890	-35	-117				N
6-25	Corridor Wall - Plaster over Cinder		540	215	717				Y
(1) Net cpm is calculated as Gross cpm - Background cpm (2) dpm/100 cm ² is calculated as Net cpm/E (cpm/dpm)*PF Note: PF for Ludlum 44-116 PF=1 (3) If total dpm/100 cm ² is >200 then smear is required									
Surveyor's Remarks: Backgrounds: Small tiles 585, Vinyl 375, concrete 525, plaster 325, glazed tile 925									

ATTACHMENT 2
REMOVABLE BETA CONTAMINATION SURVEY FORM

Location: SU006			Purpose:		Date: 1/23/99		
REMOVABLE BETA CONTAMINATION SURVEY INFORMATION Counter Model #: <u>43-10-1</u> Serial #: <u>141392</u> Meter Model #: <u>2929</u> Serial #: <u>137620</u> Efficiency (E): <u>.46</u> cpm/dpm Isotope: <u>SY90</u> Background:(B) <u>40</u> cpm Count Time (t) <u>1</u> min							
#	SURVEY ITEM/DESCRIPTION	Coordinate	Total Counts	Net cpm(1)	dpm/ 100cm ² (2)	Max cpm	Exceeds Release? (3)
6-1	Janitor's Closet - small tiles		55	15	33		N
6-2	Janitor's Closet - small tiles		40	0	0		N
6-3	Corridor - vinyl tiles		85	45	98		N
6-4	Corridor - vinyl tiles		40	0	0		N
6-5	Corridor - vinyl tiles		50	10	22		N
6-6	Corridor inside cage - vinyl tiles		45	5	11		N
6-7	Corridor inside cage - vinyl tiles		30	-10	-22		N
6-8	Corridor - vinyl tiles		45	5	11		N
6-9	E-47 - Vinyl Tiles		55	15	33		N
6-10	E-47 - Vinyl Tiles		30	-10	-22		N
6-11	E-47 - Vinyl Tiles		35	-5	-11		N
6-12	E-47 Toilet - Small Tiles		75	35	76		N
6-13	E-47 - Vinyl Tiles		35	-5	-11		N
6-14	E-47 - Closet - Concrete		80	40	87		N
6-15	E-45 Toilet - Small Tiles		45	5	11		N
6-16	E-45 - Vinyl Tiles		50	10	22		N
6-17	Threshold to Stairwell - Orig. Black tile		50	10	22		N
6-18	Stairwell - Original Black Tile		55	15	33		N
6-19	Stairwell - Original Black Tile		55	15	33		N
6-20	Stairwell Landing - Original Black Tile		75	35	76		N
6-21	E-47 Wall - Plaster over Cinder		55	15	33		N
6-22	Corridor Wall - Plaster over Cinder		40	0	0		N
6-23	Corridor Wall - Plaster over Cinder		34	-6	-13		N
6-24	Stairwell Wall - Glazed Tile		40	0	0		N
6-25	Corridor Wall - Plaster over Cinder		65	25	54		N
(1) Net cpm is calculated as (Gross counts/count time) - Background cpm (2) dpm/100 cm ² is calculated as Net cpm/E (cpm/dpm) (3) If total dpm/100 cm ² is >200 then item is not acceptable for release							
Surveyor's Remarks:							

ATTACHMENT 2
TOTAL/MAXIMUM BETA CONTAMINATION SURVEY FORM

Location: SU007		Purpose:			Date: 1/23/99				
BETA CONTAMINATION SURVEY INFORMATION Probe Model #: <u>44-116</u> Serial #: <u>142893</u> Meter Model #: <u>2221</u> Serial #: <u>149938</u> Efficiency (E): <u>0.28</u> cpm/dpm Isotope: <u>SY90</u> Background (B) <u>varies (see below)</u> cpm									
#	SURVEY ITEM/DESCRIPTION	Coordinate	Gross cpm	Net cpm(1)	dpm/100 cm ² (2)	Max cpm	Max Net cpm	Max dpm/100cm ²	Smear Req'd (3)
7-1	at E73 Door (red tile)		424	49	175				N
7-2	at E69 Door (red tile)		430	55	196				N
7-3	at SW Corner by E-1 (red/black tile)		410	35	125				N
7-4	at threshold (LHS) by E-5 (old tile)		413	38	136				N
7-5	Outside E-15 (RHS) old tile		367	-8	-29				N
7-6	7' in RHS from E-5 - old tile		394	19	68				N
7-7	Threshold - womens toilet RHS (blk /cer tile		485	110	393				Y
7-8	Across from E-19@ tile color change (red)		435	60	214				Y
7-9	Threshold of E-23 (green/black tile)		499	124	443				Y
7-10	Carpenter Shop E-23 - green tile		453	103	368				Y
7-11	Lower Wall cove base E-23		424	49	175				N
7-12	Lower Wall under radiator (tile) E-9		346	-29	-104				N
7-13	Lower Wall E-13 (plaster)		341	16	57				N
7-14	Lower Wall across from E-21 (cove base)		462	87	311				Y
7-15	Middle Wall across from E21 (tiled)		915	-10	-36				N
7-16	E25 Threshold (RHS) Black Tile		474	99	354				Y
7-17	E25 Inside (Black Tile/Grey Tile)		423	48	171				N
7-18	Threshold E25A (black tile)		352	-23	-82				N
7-19	Threshold at Rollup Door LHS (blk/wh tile)		436	61	218				Y
7-20	Mid Wall (tile)		894	-31	-111				N
7-21	Threshold (beige/Black tile)		422	47	168				N
7-22	Green Tile Floor		359	9	32				N
7-23	Mid Wall (plaster)		265	-60	-214				N
7-24	Inside Room (Blk tile)		2345	1970	7036				Y
7-25	Outside at black tile edge		1206	831	2968				Y
(1) Net cpm is calculated as Gross cpm - Background cpm (2) dpm/100 cm ² is calculated as Net cpm/E (cpm/dpm)*PF Note: PF for Ludlum 44-116 PF=1 (3) If total dpm/100 cm ² is >200 then smear is required									
Surveyor's Remarks: <u>Backgrounds:</u> red tile 375, plaster 325, vat 375, cinder block 475, wall tile 925, green tile 350, concrete 525									

ATTACHMENT 2
TOTAL/MAXIMUM BETA CONTAMINATION SURVEY FORM

Location: SU007			Purpose:			Date: 1/23/99			
BETA CONTAMINATION SURVEY INFORMATION Probe Model #: 44-116 Serial #: 142893 Meter Model #: 2221 Serial #: 149938 Efficiency (E): 0.28 cpm/dpm Isotope: SY90 Background (B) varies (see below) cpm									
#	SURVEY ITEM/DESCRIPTION	Coordinate	Gross cpm	Net cpm(1)	dpm/100 cm ² (2)	Max cpm	Max Net cpm	Max dpm/100cm ²	Smear Req'd (3)
7-26	Hallway - Black Tile Edge		387	12	43				N
7-27	Hallway - Black Tile Edge		411	36	129				N
7-28	E57 Black/Beige Tile		465	90	321				Y
7-29	E57 Black/Beige Tile		499	124	443				Y
7-30	E57 Plaster Wall		314	-11	-39				N
7-31	Plaster Wall (in Room)		259	-66	-236				N
7-32	E29 Threshold (LHS) (Black/reen Tile)		1546	1171	4182				Y
7-33	E23 Threshold (Black/Green Tile)		3176	2801	10004				Y
7-34	E27 Threshold (Blakck/Green Tile)		348	-27	-96				N
7-35	E21 Threshold (black/Beige Tiel)		511	136	486				Y
7-36	E21 Floor (Green Tile)		342	-33	-118				N
7-37	E21 Door Frame (Plaster)		371	46	164				N
7-38	Tall west of E-31 (black/beige tile)		468	93	332				Y
7-39	Tile inside cage (red/beige) across E31		395	20	71				N
7-40	Wall (base cove) LHS Between 25/27		487	112	400				Y
7-41	Wall Tile LHS Between 25/27		876	-49	-175				N
7-42	E73 Floor Drain (Painted Concrete)		422	-103	-368				N
7-43	E73 Closet Concrete Floor		402	-123	-439				N
7-44	E73 Wall Cinder Block		494	19	68				N
7-45	E73 Cleanouts Concrete Floor		349	-176	-629				N
7-46	E73 Painted Concrete Floor		420	-55	-196				N
7-47	E73 Painted Cinder block Wall		413	-62	-221				N
7-48	South of Elevator Wall Tile		922	-3	-11				N
7-49	Men's Room RHS Threshold Blk/Small Blue tile		582	207	739				Y
7-50	Ladies Room RHS Wall Tiles		878	-47	-168				N
(1) Net cpm is calculated as Gross cpm - Background cpm (2) dpm/100 cm ² is calculated as Net cpm/E (cpm/dpm)*PF Note: PF for Ludlum 44-116 PF=1 (3) If total dpm/100 cm ² is >200 then smear is required Surveyor's Remarks:									

ATTACHMENT 2
REMOVABLE BETA CONTAMINATION SURVEY FORM

Location: SU007		Purpose:		Date: 1/23/99			
REMOVABLE BETA CONTAMINATION SURVEY INFORMATION Counter Model #: <u>43-10-1</u> Serial #: <u>141392</u> Meter Model #: <u>2929</u> Serial #: <u>137620</u> Efficiency (E): <u>0.46</u> cpm/dpm Isotope: <u>SY90</u> Background:(B) <u>40</u> cpm Count Time (t) <u>1</u> min							
#	SURVEY ITEM/DESCRIPTION	Coordinate	Total Counts	Net cpm(1)	dpm/ 100cm ² (2)	Max cpm	Exceeds Release? (3)
7-1	at E73 Door (red tile)		46	6	13		N
7-2	at E69 Door (red tile)		47	7	15		N
7-3	at SW Corner by E-1 (red/black tile)		40	0	0		N
7-4	at threshold (LHS) by E-5 (old tile)		43	3	7		N
7-5	Outside E-15 (RHS) old tile		38	-2	-4		N
7-6	7' in RHS from E-5 - old tile		43	3	7		N
7-7	Threshold - womens toilet RHS (blk /cer tile		44	4	9		N
7-8	Across from E-19@ tile color change (red)		40	0	0		N
7-9	Threshold of E-23 (green/black tile)		50	10	22		N
7-10	Carpenter Shop E-23 - green tile		42	2	4		N
7-11	Lower Wall cove base E-23		45	5	11		N
7-12	Lower Wall under radiator (tile) E-9		38	-2	-4		N
7-13	Lower Wall E-13 (plaster)		44	4	9		N
7-14	Lower Wall across from E-21 (cove base)		39	-1	-2		N
7-15	Middle Wall across from E21 (tiled)		40	0	0		N
7-16	E25 Threshold (RHS) Black Tile		46	6	13		N
7-17	E25 Inside (Black Tile/Grey Tile)		55	15	33		N
7-18	Threshold E25A (black tile)		50	10	22		N
7-19	Threshold at Rollup Door LHS (blk/wh tile)		34	-6	-13		N
7-20	Mid Wall (tile)		52	12	26		N
7-21	Threshold (beige/Black tile)		46	6	13		N
7-22	Green Tile Floor		49	9	20		N
7-23	Mid Wall (plaster)		33	-7	-15		N
7-24	Inside Room (Blk tile)		35	-5	-11		N
7-25	Outside at black tile edge		37	-3	-7		N
(1) Net cpm is calculated as (Gross counts/count time) - Background cpm (2) dpm/100 cm ² is calculated as Net cpm/E (cpm/dpm) (3) If total dpm/100 cm ² is >200 then item is not acceptable for release							
Surveyor's Remarks:							

ATTACHMENT 2
REMOVABLE BETA CONTAMINATION SURVEY FORM

Location: SU007		Purpose:		Date: 1/23/99		
REMOVABLE BETA CONTAMINATION SURVEY INFORMATION Counter Model #: <u>43-10-1</u> Serial #: <u>141392</u> Meter Model #: <u>2929</u> Serial #: <u>137620</u> Efficiency (E): <u>0.46</u> cpm/dpm Isotope: <u>SY90</u> Background:(B) <u>40</u> cpm Count Time (t) <u>1</u> min						
#	SURVEY ITEM/DESCRIPTION	Coordinate	Total Counts	Net cpm(1)	dpm/ 100cm ² (2)	Exceeds Max cpm Release? (3)
7-26	Hallway - Black Tile Edge		40	0	0	N
7-27	Hallway - Black Tile Edge		45	5	11	N
7-28	E57 Black/Beige Tile		35	-5	-11	N
7-29	E57 Black/Beige Tile		55	15	33	N
7-30	E57 Plaster Wall		45	5	11	N
7-31	Plaster Wall (in Room)		30	-10	-22	N
7-32	E29 Threshold (LHS) (Black/reen Tile)		75	35	76	N
7-33	E23 Threshold (Black/Green Tile)		50	10	22	N
7-34	E27 Threshold (Black/Green Tile)		30	-10	-22	N
7-35	E21 Threshold (black/Beige Tiel)		60	20	43	N
7-36	E21 Floor (Green Tile)		35	-5	-11	N
7-37	E21 Door Frame (Plaster)		35	-5	-11	N
7-38	Tall west of E-31 (black/beige tile)		45	5	11	N
7-39	Tile inside cage (red/beige) across E31		55	15	33	N
7-40	Wall (base cove) LHS Between 25/27		40	0	0	N
7-41	Wall Tile LHS Between 25/27		60	20	43	N
7-42	E73 Floor Drain (Painted Concrete)		60	20	43	N
7-43	E73 Closet Concrete Floor		55	15	33	N
7-44	E73 Wall Cinder Block		35	-5	-11	N
7-45	E73 Cleanouts Concrete Floor		35	-5	-11	N
7-46	E73 Painted Concrete Floor		50	10	22	N
7-47	E73 Painted Cinder block Wall		35	-5	-11	N
7-48	South of Elevator Wall Tile		50	10	22	N
7-49	Men's Room RHS Threshold Blk/Small Blue tile		40	0	0	N
7-50	Ladies Room RHS Wall Tiles		40	0	0	N
(1) Net cpm is calculated as (Gross counts/count time) - Background cpm (2) dpm/100 cm ² is calculated as Net cpm/E (cpm/dpm) (3) If total dpm/100 cm ² is >200 then item is not acceptable for release						
Surveyor's Remarks:						

ATTACHMENT 2
TOTAL/MAXIMUM BETA CONTAMINATION SURVEY FORM

Location: SU008		Purpose:			Date: 1/23/99				
BETA CONTAMINATION SURVEY INFORMATION Probe Model #: <u>44-116</u> Serial #: <u>142893</u> Meter Model #: <u>2221</u> Serial #: <u>149938</u> Efficiency (E): <u>0.28</u> cpm/dpm Isotope: <u>SY90</u> Background (B) <u>varies (see below)</u> cpm									
#	SURVEY ITEM/DESCRIPTION	Coordinate	Gross cpm	Net cpm(1)	dpm/100 cm ² (2)	Max cpm	Max Net cpm	Max dpm/ 100cm ²	Smear Req'd (3)
8-1	machine Room Crack		568	43	154				N
8-2	machine Room Crack		478	-47	-168				N
8-3	machine Room Hole		420	-105	-375				N
8-4	machine Room Corner Crevice		499	-26	-93				N
8-5	machine Room on crack behind round wall		486	-39	-139				N
8-6	machine Room near door on round wall		463	-62	-221				N
8-7	machine Room adjacent to ladder		499	-26	-93				N
8-8	machine Room - adjacent to conduits		514	-11	-39				N
8-9	machine Room - adjacent to electrical junction box		521	-4	-14				N
8-10	Corner crack in open area		503	-22	-79				N
8-11	Landing at closet		456	81	289				Y
8-12	Floor landing crack by machine room door		393	18	64				N
8-13	unassigned Space - at door from SW		409	-116	-414				N
8-14	unassigned Space - floor crack		413	-112	-400				N
8-15	unassigned Space - floor		422	-103	-368				N
8-16	unassigned Space - at mastic groove		390	-135	-482				N
8-17	unassigned Space - at mastic groove		354	-171	-611				N
8-18	unassigned Space - at mastic groove		405	-120	-429				N
8-19	unassigned Space - at mastic crack/groove		488	-37	-132				N
8-20	unassigned Space - at broken concrete		456	-69	-246				N
8-21	unassigned Space - cinder block		460	-15	-54				N
8-22	Plaster Wall - landing		460	135	482				Y
8-23	Machine Room Cinder Block wall		530	55	196				N
8-24	Machine Room Cinder Block wall		600	75	268				Y
8-25	unassigned Space - Cinder Block Wall		450	-75	-268				N
8-26	Three Roof Vents **		100	50	172				N
8-27	Air Handler on Roof **		110	60	207				Y
(1) Net cpm is calculated as Gross cpm - Background cpm (2) dpm/100 cm ² is calculated as Net cpm/E (cpm/dpm)*PF Note: PF for Ludlum 44-116 PF=1 (3) If total dpm/100 cm ² is >200 then smear is required									
Surveyor's Remarks: <u>Bkgds: concrete 525, plaster 325, cinder block 475 vinyl tiles 375</u> ** Taken with Ratemeter 102839 and probe 112967, Bkgd 50, Eff. 0.29									

**ATTACHMENT 2
REMOVABLE BETA CONTAMINATION SURVEY FORM**

Location: SU008		Purpose:		Date: 1/23/99		
REMOVABLE BETA CONTAMINATION SURVEY INFORMATION Counter Model #: <u>43-10-1</u> Serial #: <u>141392</u> Meter Model #: <u>2929</u> Serial #: <u>137620</u> Efficiency (E): <u>0.46</u> cpm/dpm Isotope: <u>SY90</u> Background:(B) <u>40</u> cpm Count Time (t) <u>1</u> min						
#	SURVEY ITEM/DESCRIPTION	Coordinate	Total Counts	Net cpm(1)	dpm/ 100cm ² (2)	Exceeds Max cpm Release? (3)
8-1	machine Room Crack		29	-11	-24	N
8-2	machine Room Crack		48	8	17	N
8-3	machine Room Hole		47	7	15	N
8-4	machine Room Corner Crevice		54	14	30	N
8-5	machine Room on crack behind round wall		55	15	33	N
8-6	machine Room near door on round wall		37	-3	-7	N
8-7	machine Room adjacent to ladder		45	5	11	N
8-8	machine Room - adjacent to conduits		51	11	24	N
8-9	machine Room - adjacent to electrical junction box		43	3	7	N
8-10	Corner crack in open area		50	10	22	N
8-11	Landing at closet		46	6	13	N
8-12	Floor landing crack by machine room door		45	5	11	N
8-13	unassigned Space - at door from SW		47	7	15	N
8-14	unassigned Space - floor crack		46	6	13	N
8-15	unassigned Space - floor		46	6	13	N
8-16	unassigned Space - at mastic groove		43	3	7	N
8-17	unassigned Space - at mastic groove		41	1	2	N
8-18	unassigned Space - at mastic groove		51	11	24	N
8-19	unassigned Space - at mastic crack/groove		37	-3	-7	N
8-20	unassigned Space - at broken concrete		57	17	37	N
8-21	unassigned Space - cinder block		43	3	7	N
8-22	Plaster Wall - landing		36	-4	-9	N
8-23	Machine Room Cinder Block wall		42	2	4	N
8-24	Machine Room Cinder Block wall		58	18	39	N
8-25	unassigned Space - Cinder Block Wall		36	-4	-9	N
8-26	Three Roof Vents **		75	35	76	N
8-27	Air Handler on Roof **		50	10	22	N
(1) Net cpm is calculated as (Gross counts/count time) - Background cpm (2) dpm/100 cm ² is calculated as Net cpm/E (cpm/dpm) (3) If total dpm/100 cm ² is >200 then item is not acceptable for release						
Surveyor's Remarks:						

ATTACHMENT 2
TOTAL/MAXIMUM BETA CONTAMINATION SURVEY FORM

Location: SU009 - Incinerator			Purpose:			Date: 1/25/99			
BETA CONTAMINATION SURVEY INFORMATION Probe Model #: 44-116 Serial #: 131321 Meter Model #: 2221 Serial #: 108846 Efficiency (E): 0.28 cpm/dpm Isotope: SY90 Background (B) varies (see below) cpm									
#	SURVEY ITEM/DESCRIPTION	Coordinate	Gross cpm	Net cpm(1)	dpm/100 cm ² (2)	Max cpm	Max Net cpm	Max dpm/100cm ²	Smear Req'd (3)
9-1	Left Ash Bin		850	540	1929				Y
9-2	Right Ash Bin		790	480	1714				Y
9-3	Floor		505	105	375				Y
9-4	Drain Head		350	40	143				N
9-5	Back Floor		325	-75	-268				N
9-6	Stairs		475	75	268				Y
9-7	Air Handler		500	190	679				Y
9-8	Upper Floor		600	200	714				Y
9-9	Inside Scrubber		375	65	232				Y
9-10	Floor By Bags		400	0	0				N
9-11	Lower Wall		400	0	0				N
9-12	Floor Behind Scrubber		530	130	464				Y
9-13	Floor Under Scrubber		540	140	500				Y
9-14	Back Floor		340	-60	-214				N
9-15	Back Doorway Floor		340	-60	-214				N
9-16	Back Wall - Brick		620	70	250				Y
9-17	Wall behind Scrubber (Brick)		465	-95	-339				N
9-18	Floor behind Coal Storage		530	130	464				Y
9-19	Concrete Floor (Middle)		530	130	464				Y
9-20	Brick Wall behind Coal Storage		600	50	179				N
9-21	Top Of Incinerator		450	140	500				Y
9-22	Upper Wall behind Incinerator		300	10	36				N
9-23	Pump Stand to Scrubber		430	120	429				Y
9-24	Upper Scrubber		340	30	107				N
9-25	Upper Coal Storage		460	150	536				Y
(1) Net cpm is calculated as Gross cpm - Background cpm (2) dpm/100 cm ² is calculated as Net cpm/E (cpm/dpm)*PF Note: PF for Ludlum 44-116 PF=1 (3) If total dpm/100 cm ² is >200 then smear is required									
Surveyor's Remarks: Backgrounds: Plaster 290, Concrete 400, Metals 310, Cinder Block 475									

ATTACHMENT 2
REMOVABLE BETA CONTAMINATION SURVEY FORM

Location: SU009 - Incinerator			Purpose:		Date: 1/25/99		
REMOVABLE BETA CONTAMINATION SURVEY INFORMATION Counter Model #: 43-10-1 Serial #: 141392 Meter Model #: 2929 Serial #: 137620 Efficiency (E): 0.46 cpm/dpm Isotope: SY90 Background:(B) 50 cpm Count Time (t) 1 min							
#	SURVEY ITEM/DESCRIPTION	Coordinate	Total Counts	Net cpm(1)	dpm/ 100cm ² (2)	Max cpm	Exceeds Release? (3)
9-1	Left Ash Bin		50	0	0		N
9-2	Right Ash Bin		50	0	0		N
9-3	Floor		65	15	33		N
9-4	Drain Head		60	10	22		N
9-5	Back Floor		60	10	22		N
9-6	Stairs		60	10	22		N
9-7	Air Handler		40	-10	-22		N
9-8	Upper Floor		45	-5	-11		N
9-9	Inside Scrubber		55	5	11		N
9-10	Floor By Bags		55	5	11		N
9-11	Lower Wall		70	20	43		N
9-12	Floor Behind Scrubber		50	0	0		N
9-13	Floor Under Scrubber		60	10	22		N
9-14	Back Floor		55	5	11		N
9-15	Back Doorway Floor		55	5	11		N
9-16	Back Wall - Brick		55	5	11		N
9-17	Wall behind Scrubber (Brick)		50	0	0		N
9-18	Floor behind Coal Storage		50	0	0		N
9-19	Concrete Floor (Middle)		50	0	0		N
9-20	Brick Wall behind Coal Storage		45	-5	-11		N
9-21	Top Of Incinerator		70	20	43		N
9-22	Upper Wall behind Incinerator		60	10	22		N
9-23	Pump Stand to Scrubber		70	20	43		N
9-24	Upper Scrubber		60	10	22		N
9-25	Upper Coal Storage		45	-5	-11		N
(1) Net cpm is calculated as (Gross counts/count time) - Background cpm (2) dpm/100 cm ² is calculated as Net cpm/E (cpm/dpm) (3) If total dpm/100 cm ² is >200 then item is not acceptable for release Surveyor's Remarks:							

ATTACHMENT 2

TOTAL/MAXIMUM BETA CONTAMINATION SURVEY FORM

[illegible]

ATTACHMENT 2
REMOVABLE BETA CONTAMINATION SURVEY FORM

[illegible]

ATTACHMENT 2
TOTAL/MAXIMUM BETA CONTAMINATION SURVEY FORM

[illegible]

ATTACHMENT 2
REMOVABLE BETA CONTAMINATION SURVEY FORM

[illegible]

ATTACHMENT 2
TOTAL/MAXIMUM BETA CONTAMINATION SURVEY FORM

EFFICIENCY SUMMARY

Analyzed By: Analyzed By: M. Clune Date: 1/14/1999
 Source: SY90 Source: SY90 (92SR320), 134, 200 DPM, corrected for time elapsed to 114816

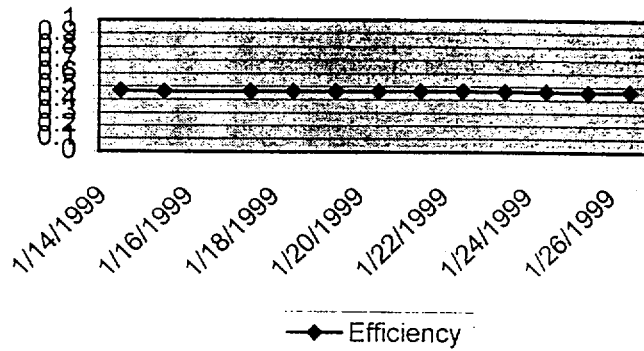
Date	Probe	Meter	Background (CPM)	Source Activity (DPM)	Function Count (CPM)	Efficiency <u>CPM</u> DPM	MDC <u>DPM</u> 100CM
1/14/1999	138385 kV AC	123806 0.6	72 time 1	114816	53914 time 1	0.4689416	90.59
1/15/1999	141392 kV AC	137620 0.6	57 time 1	114816	53061 time 1	0.461643	82.59
1/17/1999	141392 kV AC	137620 0.6	43 time 1	114816	53196 time 1	0.4629407	72.39
1/18/1999	141392 kV AC	137620 0.6	48 time 1	114816	53145 time 1	0.462453	76.19
1/19/1999	141392 kV AC	137620 0.6	470 time 10	114816	53641 time 10	0.4630975	69.53
1/20/1999	141392 kV AC	137620 0.6	432 time 10	114816	532450 time 10	0.4633657	66.65
1/21/1999	141392 kV AC	137620 0.6	308 time 10	114816	533442 time 10	0.4643377	56.26
1/22/1999	141392 kV AC	137620 0.6	466 time 10	114816	533742 time 10	0.4644614	69.03
1/23/1999	141392 kV AC	137620 0.6	476 time 10	114816	532799 time 10	0.4636314	69.88
1/24/1999	141392 kV AC	137620 0.6	478 time 10	114816	532496 time 10	0.4633657	70.07
1/25/1999	141392 kV AC	137620 0.6	50 time 1	114816	52635 time 1	0.4579937	78.39
1/26/1999	141392 kV AC	137620 0.6	400 time 1	114816	53560 time 1	0.4630017	207.46

Approval Signature: _____

Date: _____

EFFICIENCY SUMMARY

141392/137620



Date	Efficiency
1/14/1999	0.4689416
1/15/1999	0.461643
1/17/1999	0.4629407
1/18/1999	0.462453
1/19/1999	0.4630975
1/20/1999	0.4633657
1/21/1999	0.4643377
1/22/1999	0.4644614
1/23/1999	0.4636314
1/24/1999	0.4633657
1/25/1999	0.4579937
1/26/1999	0.4630017

ATTACHMENT 2
TOTAL/MAXIMUM BETA CONTAMINATION SURVEY FORM

ATTACHMENT 2
REMOVABLE BETA CONTAMINATION SURVEY FORM

[illegible]

ATTACHMENT 2
TOTAL/MAXIMUM BETA CONTAMINATION SURVEY FORM

[illegible]

ATTACHMENT 2
REMOVABLE BETA CONTAMINATION SURVEY FORM

ATTACHMENT 2

TOTAL/MAXIMUM BETA CONTAMINATION SURVEY FORM

ATTACHMENT 2
REMOVABLE BETA CONTAMINATION SURVEY FORM

[illegible]

ATTACHMENT 2
REMOVABLE BETA CONTAMINATION SURVEY FORM

ATTACHMENT 2

REMOVABLE BETA CONTAMINATION SURVEY FORM

[illegible]

ATTACHMENT 2

TOTAL/MAXIMUM BETA CONTAMINATION SURVEY FORM

[illegible]

ATTACHMENT 2
REMOVABLE BETA CONTAMINATION SURVEY FORM

[illegible]

APPENDIX F

CONCRETE CORE/SOIL SAMPLING RESULTS

Bkg = 70

Eff= .22

ST ALBANS VA ECC CONCRETE CORING

	Sample Number	Location	Details/Coordinates	Approx. Depth	Reading (Top) (gross cpm)	Top (net cpm)	cpm/ 100cm	Reading (Bottom)	Bottom (net cpm)	cpm/ 100cm	Lab Results (pCi/g)	Lab Error
Core 1	C1-1A	Isotope Storage Area	Measure Hot Spot - Location was as close as possible to hot spot with drilling equipment	0-3"	200	130	590	100	30	136	0.16	0.31
	C1-1A (dup)			0-3"	200	130	590	100	30	136	1.18	0.38
	C1-1B			3-6"	100	30	136	100	30	136	N/A	N/A
	C1-1C			6-8"	120	50	227	-			N/A	N/A
	C1-1D			8-10"	80	10	45	-			N/A	N/A
	C1-1E			soil 0-6"	100	30	136				0.24	0.25
	C1-1F			soil 6-12"	80	10	45				-0.17	0.24
Core 2	C1-2A	High Level Lab	Measure Hot Spot - in front of fume hood	0-2"	1200	1130	5136	80	10	45	14.96	1.06
	C1-2B (dup)			2-3"	80	10	45				6.66	0.72
	C1-2B			2-3"	80	10	45				1.56	0.43
	C1-2C			3-5"	80	10	45				0	0.33
	C1-2D			5-8"	70	0	0				N/A	N/A
	C1-2E			8-10"	80	10	45				N/A	N/A
	C1-2F			soil 0-6"	60	-10	-45				-0.17	0.28
	C1-2G			soil 6-12"	80	10	45				-0.21	0.31
	C1-2G (dup)			soil 6-12"	80	10	45				-0.02	0.27
Core 3	C2-1A	Ejector Pit	Floor	0-3.5"	150	80	363	80	10	45	10.49	0.89
	C2-1B			3.5-5"	100	30	136	100	30	136	0.31	0.26
	C2-1C			5-5.5"	50	-20	-91	50	-20	91	N/A	N/A
	C2-1D			5.5-7"	100	30	136	50	-20	91	N/A	N/A
	C2-1E			7-8.5"	60	-10	-45	60	-10	-45	N/A	N/A
	C2-1F			8.5-10"	60	-10	45	60	-10	45	N/A	N/A
Core 4	C2-2A	Ejector Pit	18" from floor	0-1"	80	10	45				6.05	0.72
	C2-2B			1-4"	60	-10	-45				15.76	0.99

	Sample Number	Location	Details/Coordinates	Approx. Depth	Reading (Top) (gross cpm)	Top (net cpm)	cpm/ 100cm	Reading (Bottom)	Bottom (net cpm)	cpm/ 100cm	Lab Results (pCi/g)	Lab Error
	C2-2C			4-8"	50	-20	-91				-0.04	0.27
Core 5	C5-1A	South Corridor	Measure Hot Spot (10 m from N wall, 2.5m from W. wall)	0-3"	280	210	955	60	-10	-45	34.27	1.60
	C5-1B			3-3.5	40	-30	-136	40	-30	-136	-0.20	0.34
	C5-1C			3.5-5	85	15	68	-			N/A	N/A
	C5-1D			soil 0-6"	40	-30	-136				N/A	N/A
	C5-1E			soil 6-12"	20	-50	91				N/A	N/A
Core 6	C5-2A	Fresh Air Room	Measure Hot Spot (2.1m from W wall, .6m from N wall)	0-2.5"	400	330	1500	50	-20	-91	11.21	1.20
	C5-2B			2.5-4"	40	-30	-136	40	-30	-136	0.21	0.28
	C5-2C			4-4.5	30	-40	182	30	-40	-182	N/A	N/A
	C5-2D			5-bottom	80	10	45				N/A	N/A
	C5-2E			soil 0-6"	100	30	136				0.29	0.28
	C5-2F			soil 6-12"	50	-20	91				-0.33	0.22

N/A = Not Analyzed

APPENDIX G

QUALITY CONTROL SAMPLES

Lab ID	Client ID	Sample Date	Receipt Date	Analysis Date	Batch ID	Analyte	Method	Result	Error	MDA	Units
Rad Lab											
99-01194-04	1-1	1/24/99	1/27/99	2/2/99	9901194	Carbon-14	EPA 906 0 Modified	38.14	35.37	57.62	dpm/100cm ²
99-01194-05	1-1 QC	1/25/99	1/27/99	2/2/99	9901194	Carbon-14	EPA 906 0 Modified	93.93	43.53	64.27	dpm/100cm ²
99-01194-09	1-5	1/24/99	1/27/99	2/2/99	9901194	Carbon-14	EPA 906 0 Modified	63.70	28.66	43.58	dpm/100cm ²
99-01194-10	1-5 QC	1/25/99	1/27/99	2/2/99	9901194	Carbon-14	EPA 906 0 Modified	207.40	35.40	40.00	dpm/100cm ²
99-01194-13	1-8	1/24/99	1/27/99	2/2/99	9901194	Carbon-14	EPA 906 0 Modified	-2.28	24.61	41.39	dpm/100cm ²
99-01194-14	1-8 QC	1/25/99	1/27/99	2/2/99	9901194	Carbon-14	EPA 906 0 Modified	107.33	31.51	41.85	dpm/100cm ²
99-01194-19	1-13	1/24/99	1/27/99	2/2/99	9901194	Carbon-14	EPA 906 0 Modified	3544.19	154.91	101.52	dpm/100cm ²
99-01194-20	1-13 QC	1/25/99	1/27/99	2/2/99	9901194	Carbon-14	EPA 906 0 Modified	5000.56	196.55	135.42	dpm/100cm ²
99-01195-17	1-27	1/24/99	1/27/99	2/4/99	9901195	Carbon-14	EPA 906 0 Modified	149.24	28.78	38.23	dpm/100cm ²
99-01195-18	1-27 QC	1/25/99	1/27/99	2/4/99	9901195	Carbon-14	EPA 906 0 Modified	110.35	28.37	38.53	dpm/100cm ²

Lab ID	Client ID	Sample Date	Receipt Date	Analysis Date	Batch ID	Analyte	Method	Result	Error	MDA	Units
Ejector Pit											
99-01196-17	2-13	1/24/99	1/27/99	2/4/99	9901196	Carbon-14	EPA 906 0 Modified	-1.50	15.48	24.90	dpm/100cm ²
99-01196-18	2-13 QC	1/26/99	1/27/99	2/4/99	9901196	Carbon-14	EPA 906 0 Modified	6.81	15.63	25.14	dpm/100cm ²
99-01196-19	2-14	1/24/99	1/27/99	2/4/99	9901196	Carbon-14	EPA 906 0 Modified	-1.48	16.70	24.54	dpm/100cm ²
99-01196-20	2-14 QC	1/26/99	1/27/99	2/4/99	9901196	Carbon-14	EPA 906 0 Modified	-5.98	14.94	24.83	dpm/100cm ²
Mens' Room											
99-01197-05	3-2	1/25/99	1/27/99	2/6/99	9901197	Carbon-14	EPA 906 0 Modified	-8.03	34.92	55.05	dpm/100cm ²
99-01197-06	3-2 QC	1/25/99	1/27/99	2/6/99	9901197	Carbon-14	EPA 906 0 Modified	34.75	54.20	91.60	dpm/100cm ²
99-01197-07	3-3	1/25/99	1/27/99	2/6/99	9901197	Carbon-14	EPA 906 0 Modified	1.47	30.36	50.39	dpm/100cm ²
99-01197-08	3-3 QC	1/25/99	1/27/99	2/6/99	9901197	Carbon-14	EPA 906 0 Modified	-7.73	34.00	52.96	dpm/100cm ²

Lab ID	Client ID	Sample Date	Receipt Date	Analysis Date	Batch ID	Analyte	Method	Result	Error	MDA	Units
Tunnel											
99-01198-08	5-2	1/23/99	1/27/99	2/6/99	9901198	Carbon-14	EPA 906 0 Modified	-4.72	32.36	53.40	dpm/100cm ²
99-01198-09	5-2 QC	1/26/99	1/27/99	2/6/99	9901198	Carbon-14	EPA 906 0 Modified	-6.69	36.38	56.77	dpm/100cm ²
99-01198-11	5-4	1/23/99	1/27/99	2/6/99	9901198	Carbon-14	EPA 906 0 Modified	-29.37	38.00	58.60	dpm/100cm ²
99-01198-12	5-4 QC	1/26/99	1/27/99	2/6/99	9901198	Carbon-14	EPA 906 0 Modified	-22.55	41.18	63.76	dpm/100cm ²
99-01198-16	5-8	1/23/99	1/27/99	2/6/99	9901198	Carbon-14	EPA 906 0 Modified	-1.76	36.20	59.73	dpm/100cm ²
99-01198-17	5-8 QC	1/26/99	1/27/99	2/6/99	9901198	Carbon-14	EPA 906 0 Modified	25.53	41.46	66.62	dpm/100cm ²
99-01198-19	5-10	1/23/99	1/27/99	2/6/99	9901198	Carbon-14	EPA 906 0 Modified	-3.50	37.13	59.41	dpm/100cm ²
99-01198-20	5-10 QC	1/26/99	1/27/99	2/6/99	9901198	Carbon-14	EPA 906 0 Modified	8.19	34.43	55.56	dpm/100cm ²
99-01199-06	5-13	1/23/99	1/27/99	2/8/99	9901199	Carbon-14	EPA 906 0 Modified	-28.28	29.27	45.77	dpm/100cm ²
99-01199-07	5-13 QC	1/26/99	1/27/99	2/8/99	9901199	Carbon-14	EPA 906 0 Modified	14.86	41.19	66.14	dpm/100cm ²
99-01199-12	5-18	1/24/99	1/27/99	2/8/99	9901199	Carbon-14	EPA 906 0 Modified	15.20	31.11	54.14	dpm/100cm ²
99-01199-13	5-18 QC	1/26/99	1/27/99	2/8/99	9901199	Carbon-14	EPA 906 0 Modified	-21.06	25.63	41.66	dpm/100cm ²

Lab ID	Client ID	Sample Date	Receipt Date	Analysis Date	Batch ID	Analyte	Method	Result	Error	MDA	Units
West Basement											
99-01200-08	6-12	1/23/99	1/27/99	2/11/99	9901200	Carbon-14	EPA 906 0 Modified	-31.82	33.60	58.72	dpm/100cm ²
99-01200-09	6-12 QC	1/26/99	1/27/99	2/11/99	9901200	Carbon-14	EPA 906 0 Modified	-37.92	36.77	61.22	dpm/100cm ²
Upstairs											
99-01207-10	8-26	1/26/99	1/27/99	2/13/99	9901207	Carbon-14	EPA 906 0 Modified	-1.56	35.07	57.18	dpm/100cm ²
99-01207-11	8-26 QC	1/26/99	1/27/99	2/13/99	9901207	Carbon-14	EPA 906 0 Modified	-21.39	33.48	55.90	dpm/100cm ²
99-01207-12	8-27	1/26/99	1/27/99	2/13/99	9901207	Carbon-14	EPA 906 0 Modified	-17.77	32.97	54.18	dpm/100cm ²
99-01207-13	8-27 QC	1/26/99	1/27/99	2/13/99	9901207	Carbon-14	EPA 906 0 Modified	-29.59	34.53	56.96	dpm/100cm ²

Lab ID	Client ID	Sample Date	Receipt Date	Analysis Date	Batch ID	Analyte	Method	Result	Error	MDA	Units
Incinerator											
99-01205-13	9-1	1/25/99	1/27/99	2/11/99	9901205	Carbon-14	EPA 906 0 Modified	1 71	37 26	61 05	dpm/100cm ²
99-01205-14	9-1 QC	1/26/99	1/27/99	2/11/99	9901205	Carbon-14	EPA 906 0 Modified	.6 71	47 62	79 65	dpm/100cm ²
99-01205-15	9-2	1/25/99	1/27/99	2/11/99	9901205	Carbon-14	EPA 906 0 Modified	-19 96	47 22	78 98	dpm/100cm ²
99-01205-16	9-2 QC	1/26/99	1/27/99	2/11/99	9901205	Carbon-14	EPA 906 0 Modified	-24 51	68 20	109 09	dpm/100cm ²
99-01206-07	9-10	1/25/99	1/27/99	2/13/99	9901206	Carbon-14	EPA 906 0 Modified	-16 45	26 36	48 64	dpm/100cm ²
99-01206-08	9-10 QC	1/26/99	1/27/99	2/13/99	9901206	Carbon-14	EPA 906 0 Modified	-55 60	40 12	71 25	dpm/100cm ²
99-01206-19	9-21	1/25/99	1/27/99	2/13/99	9901206	Carbon-14	EPA 906 0 Modified	-20 29	37 21	65 02	dpm/100cm ²
99-01206-20	9-21 QC	1/26/99	1/27/99	2/13/99	9901206	Carbon-14	EPA 906 0 Modified	-31 16	39 43	66 56	dpm/100cm ²
99-01207-04	9-22	1/25/99	1/27/99	2/13/99	9901207	Carbon-14	EPA 906 0 Modified	-43 35	82 28	132 17	dpm/100cm ²
99-01207-05	9-22 QC	1/26/99	1/27/99	2/13/99	9901207	Carbon-14	EPA 906 0 Modified	-16 22	39 64	65 91	dpm/100cm ²
99-01207-07	9-24	1/25/99	1/27/99	2/13/99	9901207	Carbon-14	EPA 906 0 Modified	-23 19	40 02	65 26	dpm/100cm ²
99-01207-08	9-24 QC	1/26/99	1/27/99	2/13/99	9901207	Carbon-14	EPA 906 0 Modified	-18 80	40 53	68 76	dpm/100cm ²



Roy F. Weston of New York, Inc.
Suite 112
1 Old Country Road
Carle Place, New York 11514-1807
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July 7, 2000

Mr. Randy Godfrey
Engineering Manager
U.S. Department of the Army
New England District, Corps of Engineers
696 Virginia Road
Concord, MA 01742-2751

Re: Contract No. DACA31-96-D-0006
St. Albans Veterans Administration Extended Care Facility, Queens, New York
DCN: VAHOSP-070700-AAAL
WESTON W.O. No.: 10971-219-201-0002
Final Decommissioning Plan

Dear Mr. Godfrey:

Roy F. Weston, Inc. (WESTON) is pleased to provide to you four (4) copies of the Final Decommissioning Plan (DP) for the St. Albans Veterans Administration Extended Care Center in Queens, New York. Please do not hesitate to contact me at (516) 873-3814 or Mike Madonia at (847) 918-4087 if you have any questions or comments on this document.

Very truly yours,

ROY F. WESTON, INC.

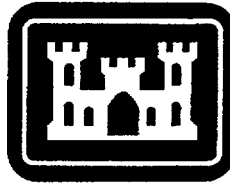

John Rhyner, P.E.
Project Manager

Enc.

cc: H. Honerlah, USACE
M. Madonia, WESTON
DCN Files

NMSS/RGN MATERIALS-002
127749





U.S. Army Corps of Engineers

**New England District
Concord, Massachusetts**

**TECHNICAL SUPPORT SERVICES
ST. ALBANS VETERANS ADMINISTRATION EXTENDED CARE CENTER
QUEENS, NEW YORK**

Contract No. DACA31-D-0006

FINAL DECOMMISSIONING PLAN

**Task Order No. 19
DCN: VAHOSP-070700-AAAL**

7 July 2000

**FINAL DECOMMISSIONING PLAN
ST. ALBANS VETERANS ADMINISTRATION EXTENDED CARE CENTER
QUEENS, NEW YORK**

Contract No. DACA31-96-D-0006
Task Order No. 19
DCN: VAHOSP-070700-AACL

Prepared for:

**U.S. ARMY CORPS OF ENGINEERS
NORTH ATLANTIC DIVISION
NEW ENGLAND DISTRICT**
696 Virginia Road
Concord, Massachusetts 01742-2751

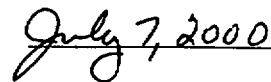
Prepared by:

Roy F. Weston, Inc.
1 Old Country Road
Carle Place, New York 11514

John Rhyner, Project Manager



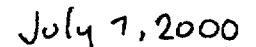
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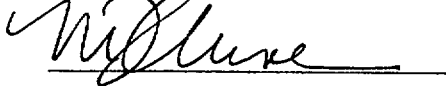
Michael Madonia, QA Representative



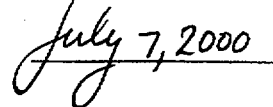
Date



Marianne Glune, Lead Author



Date



6 July 2000

W.O. No. 10971-219-201-0002

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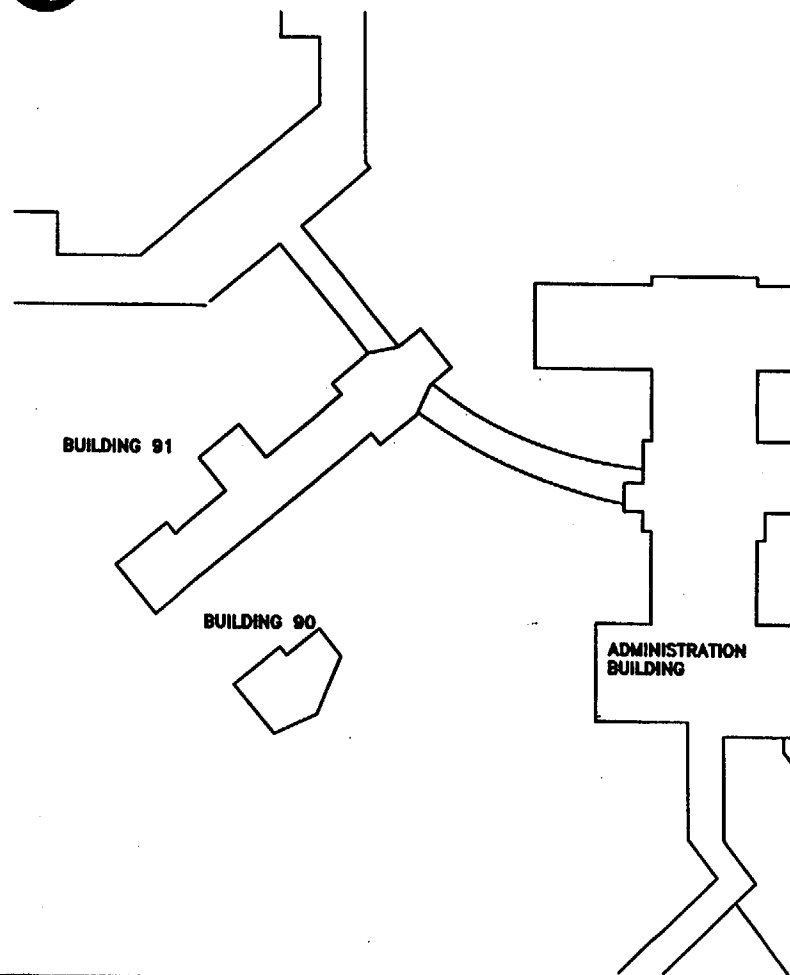
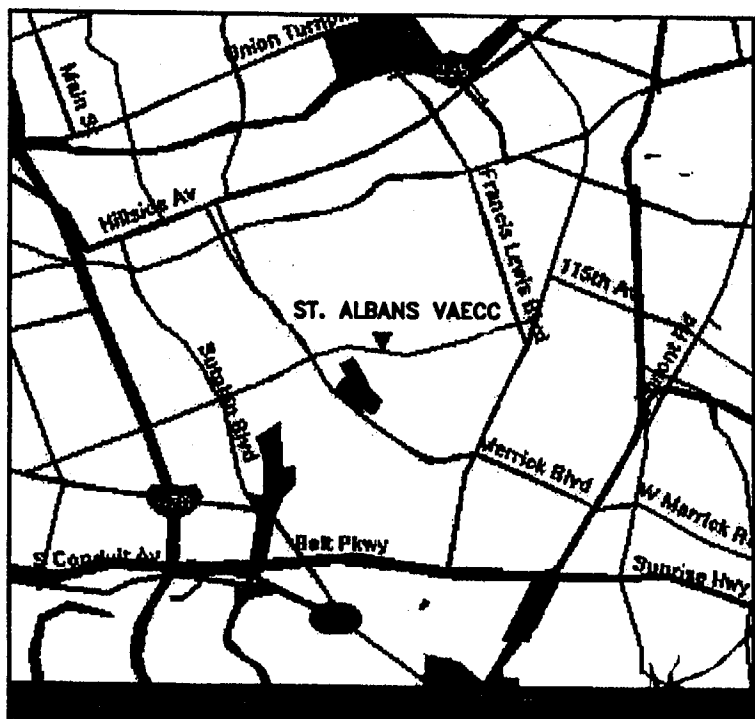
1.0 BACKGROUND INFORMATION

Roy F. Weston, Inc. (WESTON®) has prepared, on behalf of the U.S. Army Corps of Engineers (USACE) North Atlantic Division, New England District (CENAE), this Final Decommissioning Plan (DP) for the St. Albans Veterans Administration Extended Care Center (VAECC), in Queens, New York under contract DACA31-96-D-0006. The U.S. Veterans Administration (VA) currently maintains a U.S. Nuclear Regulatory Commission (NRC) "Possession Only" Byproduct Materials License No. 31-02892-06, Docket 030-34751, Control. No.125705. The license was issued in July 1998 for residual strontium-90 (Sr-90) contamination resulting from laboratory research performed in the early 1960s. Conditions of the license require that several areas of the VAECC be secured from routine access and placed under radiological control due to elevated levels of Sr-90 surface contamination and bulk material concentration. This DP provides a framework to proceed with the license requirement for decontamination and decommissioning (D&D) of the facility.

1.1 Site Description

The VAECC is located on 55 acres at 179th Street and Linden Boulevard, in Queens, New York. The VAECC consists of 15 buildings encompassing approximately 700,000 square feet (ft²) of the property. The facility employs approximately 500 employees whose work locations are spread throughout the 15 buildings. The facility currently performs extended care services, outpatient services, and a consolidated laundry service. The regional site location is shown in Figure 1-1.

Survey units have been assigned to portions of Buildings 64, 90, and 91 at the VAECC. Building 64 serves as the facility boiler plant, and also houses an inactive incinerator. Building 90 consists of two levels, ground and basement, that have historically housed the majority of the nuclear medicine-related operations at the facility. The basement level of Building 90 was formerly used (until recently) for file storage (uncontrolled access areas only), and includes restricted access areas consisting of a former nuclear medicine laboratory, ejector pit, and bathrooms. The basement level of Building 91 contains the speech pathology department, audiology department, waiting rooms, and a variety of maintenance shops that are currently used by the VAECC. Figure 1-1 also presents the relative locations of Buildings 90 and 91 at the VAECC site.



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DRAWN BY: WILLIAM CLINE
CHECK BY: WILLIAM CLINE
APPROVED BY: _____

U.S. ARMY CORPS OF ENGINEERS
ST. ALBANS VETERANS ADMINISTRATION EXTENDED CARE CENTER

SITE VICINITY MAP
AND SITE MAP
FIGURE 1-1

1

DATE (SITE MAP) 1" = 400' 12/7/49

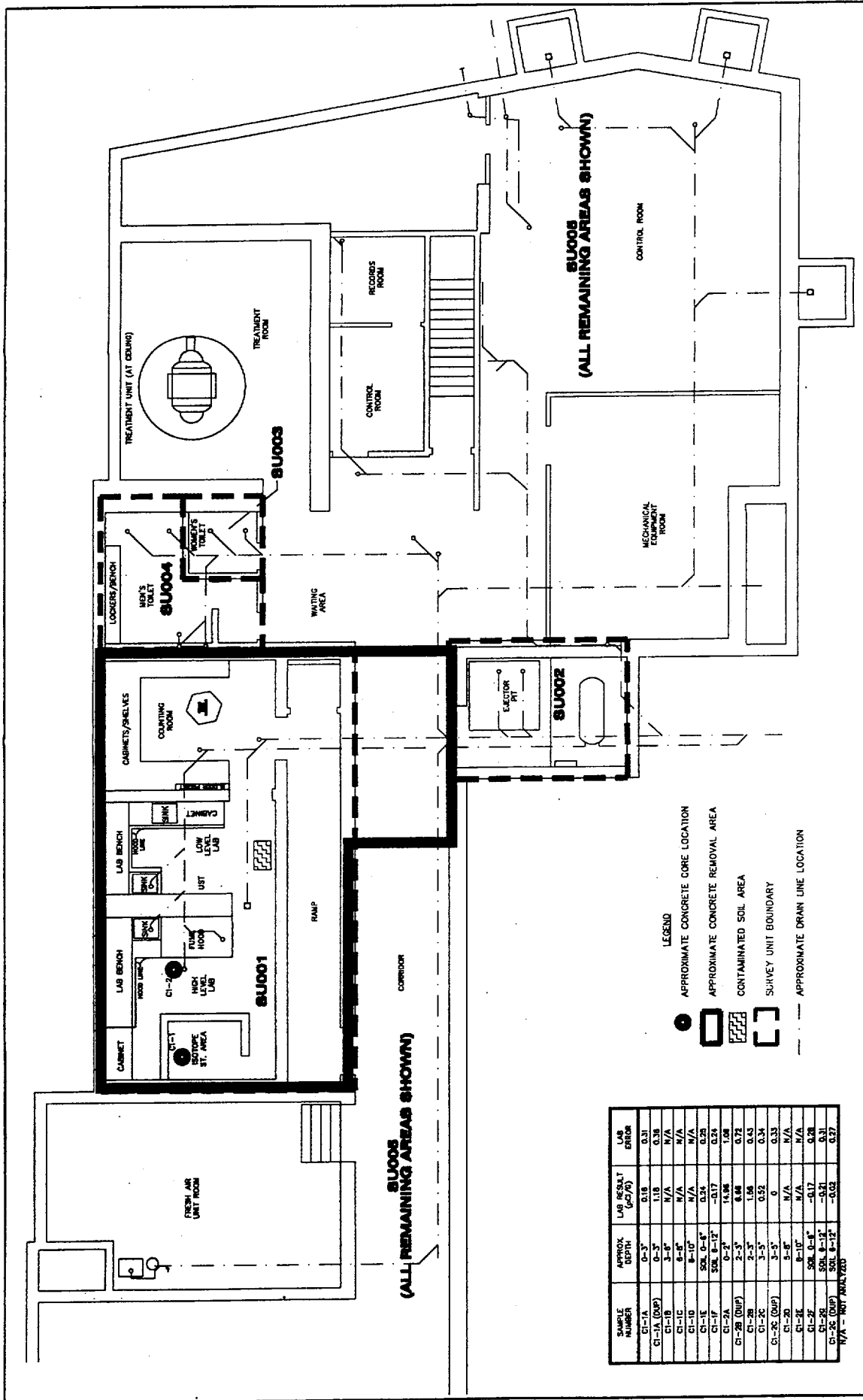
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1.2 Survey Unit Descriptions

A total of nine survey units have been assigned to portions of the buildings as previously described. Figure 1-2 illustrates the relative location of survey units (SU) 001 through 005 at the basement level of Building 90, while Figure 1-3 shows SU 008 located at the ground level of Building 90. Figure 1-4 illustrates the relationship of the Building 91 basement level SU 006 and SU 007 to those contained in the adjacent Building 90. SU 009 and Building 64 are not pictured.

Periodic characterization and decontamination efforts have been performed from 1992 to the present and have added significant knowledge as to the nature and extent of contamination. In some cases, enough data has been collected to support the requirements of a final status survey (FSS) as described in the *Multi-Agency Radiological Site Survey Implementation Manual (MARSSIM)* – NUREG 1575 (NRC 1997). The processing of survey unit data to FSS format is included as a subtask under preparation of a final report following D&D. Radiological survey data for survey units 003, 005, 006, 007, 008 and 009 have been processed to final status survey format WESTON (1999c). A draft FSS report for these six units will be provided to the Remedial Action Contractor (RAC). The RAC may use this as a template for the final NRC submittal at the close of decontamination activities for all survey units. Survey units 001, 002, and 004 contain extensive contamination that will require remediation followed by a comprehensive FSS. The remedial action contractor (RAC) responsible for D&D in and around these three survey units will be responsible for processing the survey unit data for FSS format.

Per WESTON (1999), decontamination operations will be restricted to the contents and surfaces of SU 001 and SU 004. The contents of SU 002 (ejector pit), which include feed piping, hold-up tank and pressurizer, also shall be removed and disposed as radioactive waste. Based on previous characterization efforts, supplemental tritium surveys and small-scale decontamination activities, data demonstrate that SU's 003, 005, 006, 007, 008 and 009 meet the derived concentration guidelines (DCGLs) and requirements for FSS. Table 1-1 presents the status of each survey unit.



DESIGN BY: <u>GENE AMOS/MARIANNE CLINE</u> DRAWN BY: <u>MICHAEL MADONIA</u> APPROVED BY: _____		U.S. ARMY CORPS OF ENGINEERS ST. ALBANS VETERANS ADMINISTRATION EXTENDED CARE CENTER		BUILDING 90 BASEMENT LEVEL FIGURE 1-2		1	
WESTON MANAGERS ROY F. WESTON OF NEW YORK, INC.		CORRECTOR'S SIGN: _____		NOT TO SCALE 1/8" = 1'-0"		12/7/99	



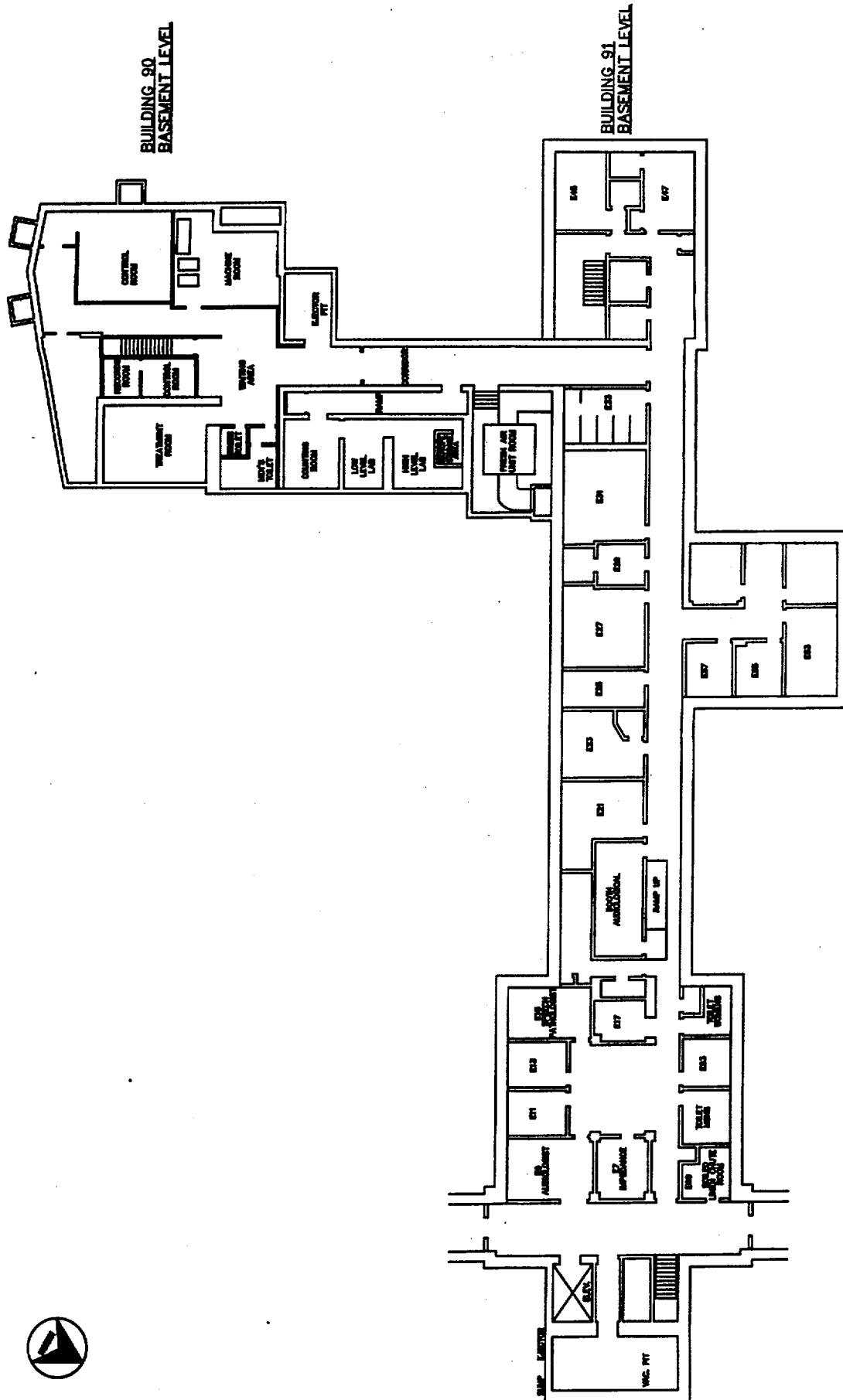
CONCRETE WALK

MACHINE ROOM

UNASSIGNED SPACE

**U.S. ARMY CORPS OF ENGINEERS
ST. LOUIS VETERANS ADMINISTRATION DISTRICT OFFICE**

08-5659



U.S. ARMY CORPS OF ENGINEERS ST. ALBANS VETERANS ADMINISTRATION EXTENDED CARE CENTER		BUILDINGS 90 AND 91 BASEMENT LEVEL FIGURE 1-4		1
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Table 1-1 Current Survey Unit Status and Decontamination Requirements

Survey Unit #	Level of Decontamination Effort	Final Status Survey Required?	Comments
001 – Nuclear Medicine Labs	Major	Yes – following decontamination	
002 – Ejector Pit	Moderate	Yes – following removal of internals	
003 – Women's Toilet	None	Supplemental tritium sampling completed	Data formatted to final status survey report
004 – Men's Toilet	Moderate	Yes – following decontamination	
005 – Lower Level Building 90	None	No – area has been subject to test decontamination	Data formatted to final status survey report
006 – Building 91 Basement: Maintenance Areas	None	No – area has been subject to test decontamination	Data formatted to final status survey report
007 – Building 91 Basement: Laboratory and Maintenance Areas	None	No – area has been subject to test decontamination	Data formatted to final status survey report
008 – Building 90 Ground Level	None	No	Data formatted to final status survey report
009 – Incinerator	None	Supplemental tritium sampling completed	Data formatted to final status survey report

2.0 DESCRIPTION OF PLANNED DECOMMISSIONING ACTIVITIES

2.1 Decommissioning Objective, Activities, Tasks, and Schedules

2.1.1 Decommissioning Objective

The decommissioning objectives for activities at the VAECC are to ensure that all cleanup criteria or DCGLs are achieved and that exposures to occupational workers and the public are maintained as low as reasonably achievable (ALARA). The future use of the areas within Building 90 of the VAECC is uncertain. Upon successful remediation, the areas will be restored to a structural stability ensuring physical safety to all workers that must enter or be adjacent to the decontaminated areas.

2.1.2 Description of Activities and Tasks

Activities to be conducted as part of the radiological remediation of the designated survey units at the VAECC will consist of five primary tasks. These tasks include creation of planning documentation, field mobilization, facility D&D, final status survey and demobilization, and final report preparation.

Task 1 - Planning Documentation

Primary planning documentation which will be generated prior to commencement of any field remediation activities will include a Quality Assurance Program Plan (QAPP), Health and Safety Plan (HASP), and Radiological Protection Program (RPP). Descriptions of the planning documents are discussed below. The contents of the RPP are described in detail in Section 3.3 of this DP.

The QAPP will be included as a section of the Work Plan and will include quality assurance and quality control objectives associated with data collection for the project. Specific information that will be included in the QAPP will be; sampling procedures, laboratory and field analytical

procedures, calibration procedures, sample custody, internal QC checks and corrective action plans.

The HASP will contain descriptions of safety risks associated with each of the tasks that will be performed as part of the remediation at the St. Albans facility. These descriptions will include the roles and responsibilities of each individual working on specific tasks with respect to safety. Personal protective equipment required, decontamination procedures, air monitoring, work zone delineation, and engineering controls for tasks will also be established in the HASP. Possible incident contingencies will be evaluated and responses outlined in the HASP as well.

Task 2 - Mobilization

The first phase of activity that will be conducted at the facility will involve mobilization activities and will include the following tasks:

- Establish a method of removal of contaminated materials from the basement. Two suggested methods are as follows.
 - Radioactive waste removed from the controlled zone is containerized at the buffer zone. Containers are sealed and a surface contamination survey is performed before release to non-controlled areas. Containers would need to be small which may not be as efficient for waste disposal.
 - Another approach would be to construct a lift or similar transfer system to raise materials through the 1,000 kVp Treatment Room that is open above to the ground floor. This area would need to be covered in polyethylene sheeting to prevent extensive spread of contamination during removal operations. This method of removal of contaminated materials is suggested because it avoids the transfer of waste through continuously occupied spaces. It should be noted that any pathway used for contaminated material removal will require re-survey following completion of removal activities, regardless of results of previous surveys.

Establish a grade-level location where materials being removed from the basement can be surveyed and segregated. This would involve establishing a radiological control zone on the ground floor level and covering all surfaces with polyethylene sheeting to prevent the spread of contamination. Additionally this area would need to be protected from the elements. Temporary buildings are available which would suit this purpose and could be assembled in the building courtyard. Contaminated items can be placed directly in larger shipping containers to provide efficient waste disposal.

- Establish a decontamination line for remediation workers to doff personal protective equipment, screen themselves for contamination and decontaminate themselves as necessary to prevent the spread of contamination outside of existing areas.

Task 3 – Facility D&D

Each contaminated unit at the site will require several D&D tasks to achieve project objectives. Primary objective of the removal activities will be: minimizing the spread of contamination to other areas, minimizing the volume of contaminated waste to be disposed of, minimizing the exposure to workers, and minimizing the amount of residual radioactive materials left in place at the site.

Following completion of the mobilization activities described above, remedial activities would commence. These activities will include the following tasks. A final status survey is performed by the RAC after the completion of the tasks and before demobilization.

- **SU 004 Remedial Activities**
 1. Remove all internal contents from SU 004. SU 004 contains materials such as toilet partitions that can be easily disassembled and removed.

2. Remove contaminated tile from SU 004. Following removal of internal contents of SU 004, the floor tile will be removed from the floor and placed into sealable containers. This activity will be done in a manner that minimizes the breaking of tiles and generation of airborne particulates to avoid spread of contamination.
3. Remove contaminated concrete from SU 004. It is anticipated that surface contamination may be present on the concrete under the floor tile in some locations of SU 004. Removal of this contamination will be accomplished using scarification or similar methods. Dust generation will be controlled using a vacuum and HEPA filtration system.

- SU 001 and SU 002 Remedial Activities

1. Remove loose debris from SU 001. Some loose equipment, glassware, chairs, miscellaneous debris, and two drums of tiles from the nuclear medicine laboratories are still present in SU 001. These materials will be removed prior to further work being conducted in this area in order to clear space for other removal activities.
2. Assess the hazard potential of residual floor tile mastic in nuclear medicine laboratories. Asbestos-containing floor tiles have been removed in this area exposing the underlying mastic. This material should be analyzed and appropriate abatement actions should be taken if the mastic is found to be an asbestos-containing material (ACM).
3. Apply a fixative to the floors of SU 001. Previous attempts at removing contamination on concrete surfaces in this area by scarification have produced large amounts of contaminated dust in laboratory areas. A fixing compound will be applied to these dusts to prevent them from causing an airborne contamination hazard and to prevent them from causing spread of contamination to other areas during remediation activities.

4. Remove contaminated appliances and furniture from the laboratory and counting rooms of SU 001. Items such as laboratory benches, shelves and fume hoods will be disassembled to the extent practicable and removed via the previously established route. After removal to the surface level structure, all surfaces of the removed items will be surveyed and materials will be segregated accordingly.
5. Remove remaining ductwork in SU 001. Most of the ductwork servicing SU 001 has previously been removed; however, some smaller sections are still present in the walls. This ductwork will be removed, screened and decontaminated or disposed of, as necessary.
6. Remove interior, non-load bearing walls from SU 001. Many of the walls in SU 001 are not load bearing and may be sectioned and removed for screening and decontamination or disposal, as necessary.
7. Cut floor slab in radiation therapy rooms. Contamination has penetrated up to two inches into the floor in this area making decontamination techniques such as scarification impractical. Therefore, the floor slab will need to be removed. This will be done by sectioning the slab with a concrete saw or similar method, and drilling holes where anchor bolts could be attached to individual sections for lifting. A HEPA filtration system can be used to control airborne dust hazards.
8. Remove hardware from SU 002. SU 002 contains a 50-100 gallon hold-up tank, pressurizer and feed lines to and from the ejector pit. This hardware will be disconnected, removed, screened and decontaminated or disposed of, as appropriate.

9. Remove sections of concrete floor slab from nuclear medicine laboratory. Sections of the floor will be removed and lifted from attached anchor bolts to the survey area by the previously established route.
10. Remove drain lines in nuclear medicine laboratory in SU 001. With the floor slab removed, the drain lines for the nuclear medicine laboratory can be accessed. Drain lines will be sectioned, capped, and moved to the above ground screening area, where detailed examination of contamination deposition can be performed. Attempts should be made to section the drain line so that more extensively contaminated sections such as elbows, unions, and cleanouts can be segregated from less contaminated sections, to minimize contaminated waste volumes generated.
11. Remove tile from ramp of SU 001. The tile on the ramp in SU 001 is suspected to be asbestos-containing and should be handled and disposed of according to prescribed methods for ACM and radioactive materials. Tile removal operations may be combined with other asbestos removal and handling operations.
12. Perform surface scarification of exposed concrete of ramp in SU 001. Some surface contamination may be present on the underlying concrete of the SU 001 ramp. Surface scarification techniques will be employed to remove any areas of surface contamination identified on the concrete.
13. Remove drain lines under ramp in SU 001 and under tunnel in SU 005 (note these lines lead to the ejector pit – SU 002). Characterize drain line under restroom floor in SU 004 after removal of floor and remove line if appropriate. Determine whether drain line in SU 003 needs to be characterized and removed. Access to underlying soil will be created by cutting the floor slabs above drains lines with a concrete saw or similar technique. With the floor slab removed, the drain lines from the nuclear medicine laboratory to the ejector pit can be accessed. Drain lines will be

sectioned, capped, and immediately placed in waste containers or moved to the above ground screening area, where detailed examination of contamination deposition can be performed. As in the case of other drain lines, attempts should be made to section the drain line so that more extensively contaminated sections such as elbows, unions, and cleanouts can be segregated from less contaminated sections to minimize contaminated waste volumes generated.

14. Backfill removed drain line trenches. Following completion of the final status survey, clean fill material will be placed in the trenches and compacted to engineered design specifications, and the floor slabs replaced.
15. Backfill nuclear medicine laboratory. Following completion of the final status survey, the void space created by the removal of the nuclear medicine laboratory will be backfilled and compacted to engineered design specifications, and the finish ground level brought to specifications as provided.

Task 4 – Final Status Survey and Demobilization

A final status survey is performed (see section 4.0) before demobilization to ensure all areas are adequately remediated. Demobilization is anticipated to occur after the completion of all remediation and include removal of heavy equipment and support facilities. Prior to release, all equipment that has been used in radiological control areas (RCA) will be surveyed and decontaminated as necessary to demonstrate compliance with the surface contamination criteria shown in Table 2-1.

Task 5 - Final Report

The final report will contain detailed descriptions of the site condition prior to D&D operations, all activities performed as part of the removal and decontamination operations, major deviations from the work plan that were necessary to complete the work, and conditions at the site following remediation activities. A final status survey report is performed by the RAC to include the draft final status survey report performed by WESTON for survey units 003 and 005 through 009. The final status survey report is presented as an attachment to the final report.

2.1.3 Cleanup Levels

WESTON (1999a) and its addendum WESTON (1999b) presented the rationale for modified DCGLs for building surfaces and soils, and recommended that the tritium and strontium-90 generic screening levels as presented in NRC (1998a) be applied as surface contamination DCGLs for building surfaces left in place at the VAECC. Concrete and other building surfaces are subject to the building surface contamination DCGL of 8700 dpm/100 cm² for Sr-90. Investigations of the presence and extent of tritium contamination (WESTON 1999) indicated that little or no tritium contamination is present in VAECC survey units and that tritium surface contamination levels do not approach the acceptable DCGL of 1.2×10^8 dpm/100 cm². A tritium survey for FSS is not necessary unless unidentified tritium sources are encountered during D&D.

Based on pathway analyses performed, a strontium-90 soil DCGL of 11 pCi/g will be applied (WESTON 2000). Volumetric contamination is not expected to exist in other bulk material. Equipment and material released from an RCA will be subject to the traditional surface contamination requirements of NRC (1998b). In all cases, D&D efforts will be performed to reduce surface contamination levels as well as soil and concrete concentration to as low as reasonably achievable (ALARA). Table 2-1 summarizes all DCGLs for the D&D operations.

Table 2-1 DCGLs to be Applied at the VAECC

Isotope	Equipment and Material Release DCGL Total (dpm/100cm ²)	Equipment and Material Release DCGL Removable (dpm/100cm ²)	Equipment and Material Release DCGL Maximum (dpm/100cm ²)	Building Surface Contamination DCGL ¹ (dpm/100cm ²)	Soil and Concrete Contamination Limit (pCi/g)
Tritium	--	1000	--	1.2×10^5	--
Sr-90	1000	200	3000	8.7×10^3	11

¹ Removable contamination levels not to exceed 10% of value.

Application of these DCGLs indicate that significant D&D activities will be required in Survey Units 001 and 004. Limited D&D is anticipated in Survey Unit 002.

2.1.4 Procedures

Standard operating procedures will be utilized for radiological survey and protection, construction safety, and occupational health and safety. Radiological survey and protection procedures are included in the Radiological Protection Program described in Section 3.3.

2.1.5 Schedules

The proposed D&D project schedule is shown in Figure 2-1. Five tasks including planning, mobilization, remediation, final status survey and demobilization, and final report preparation are shown with a start date of 15 May 2000 and a completion date of 31 October 2000.

2.2 Decommissioning Organization and Responsibilities

D&D operations will be administered and managed through the U.S. Army Corps of Engineers North Atlantic Division, New York District (CENAN) and its RAC. The CENAN Project Manager (PM) will facilitate communication with the designated NRC PM, manage the preparation of all planning documents, and facilitate the D&D operation. Compliance with this DP and the VAECC license will be managed by the VA Radiation Safety Officer (RSO), who may designate a qualified field RSO from the RAC to oversee field operations. An organization chart for D&D operations is shown in Figure 2-2.

Figure 2-1 Proposed VAECC Decommissioning Project Schedule

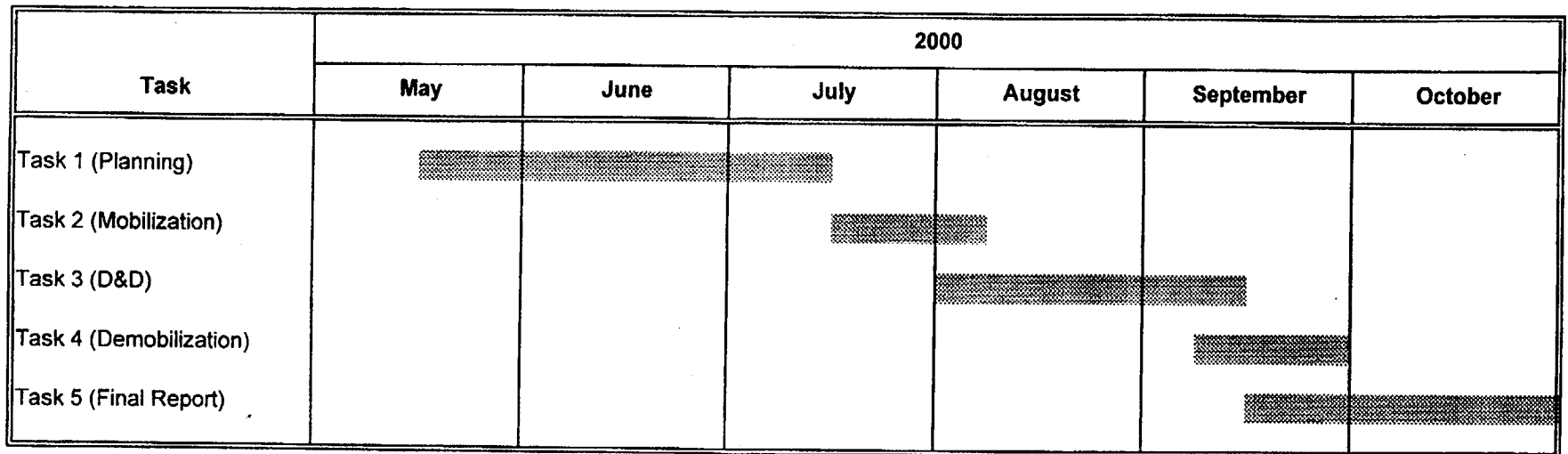
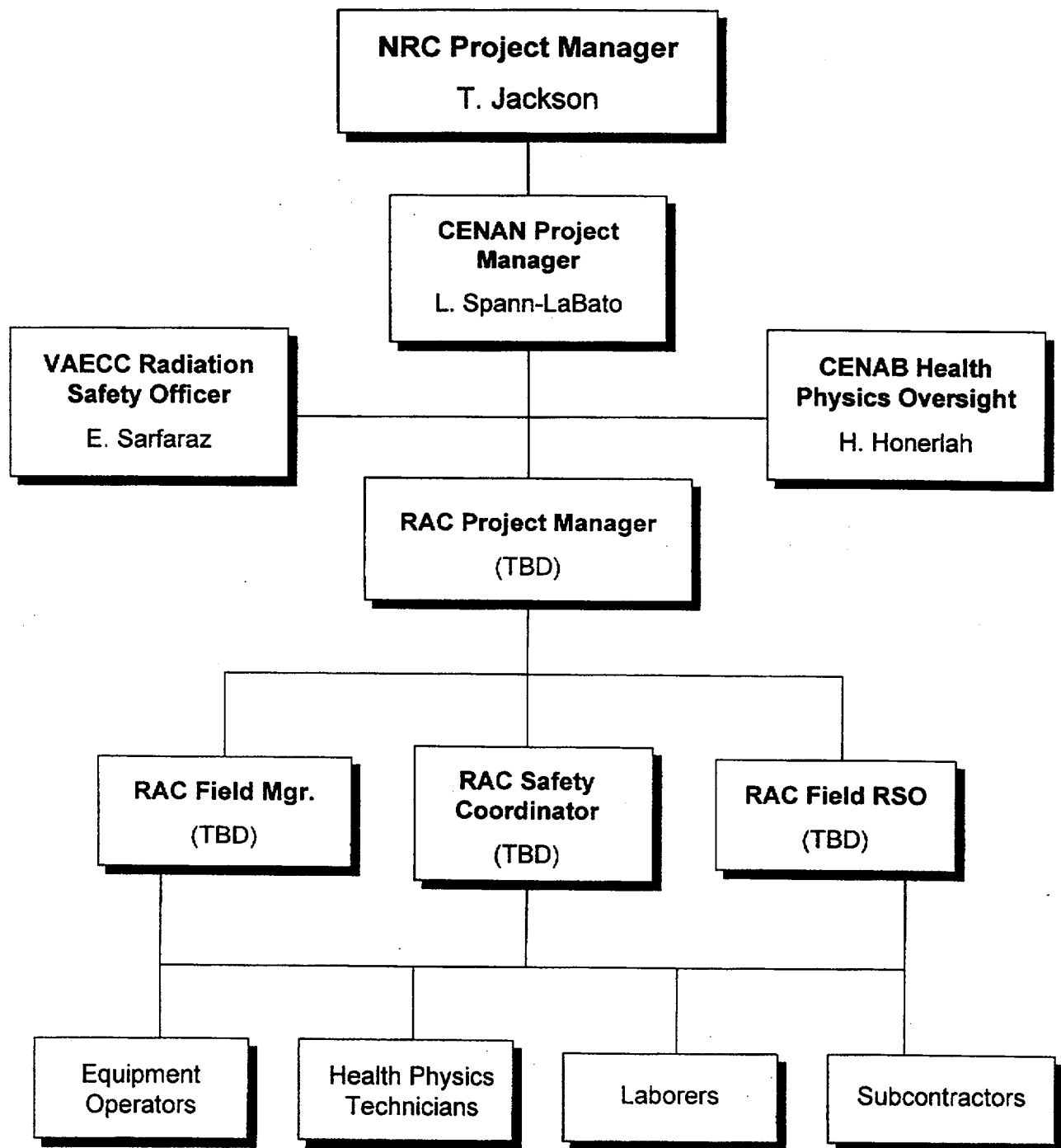


Figure 2-2 VAECC Decommissioning Project Organization Chart



2.3 Training

All occupational workers (including contractors and vendors) performing remediation activities will receive a training course in the fundamentals of radiation and radiation protection, and site-specific radiological hazards. Site specific topics for personnel entering an RCA will include site description and background, contaminant characterization, action levels and instrumentation, personal protective equipment (PPE) selection, radiation work permit implementation, dosimetry, personnel and equipment exit from an RCA, decontamination of workers and equipment, respiratory protection, pregnant workers, ALARA policy and emergency procedures. Occupational worker training for Veterans Hospital staff will be provided by USACE. The RAC shall provide trained workers. Training documentation will be maintained by the RAC for all personnel.

Prior to participating in site activities, occupational workers will obtain medical clearance per 29 CFR 1910.120 and 10 CFR 20.1703.

2.4 Contractor Assistance

The CENAN RAC, Stone & Webster, will manage all D&D operations. In the execution of D&D operations, the RAC may utilize a variety of subcontractors for specialty tasks such as construction/demolition, health physics, and waste transportation and processing. The actions of all RAC subcontractors will be managed to be consistent with the requirements of this DP and related documents.

3.0 DESCRIPTION OF METHODS USED FOR PROTECTION OF OCCUPATIONAL AND PUBLIC HEALTH AND SAFETY

3.1 Facility Radiological History Information

The VAECC was operated as a Naval Hospital prior to its acquisition by the VA in 1976. The Naval Hospital provided nuclear medicine services under several NRC licenses. NRC-licensed activities ended with the termination of NRC License #31-0007606 on 31 December 1973. In 1976 St. Albans VAECC was transferred from the Navy to the VA. The VA did not hold a radioactive materials license at St. Albans VAECC. In May 1992, the USACE performed a review of former U.S. Department of Defense (DOD) sites that had handled radioactive materials. While performing follow-on field surveys, the USACE and its contractors identified areas of elevated radiological contamination. In August 1992, Teledyne Isotopes partially remediated the VAECC and recommended an expanded survey and decontamination of other rooms. In September 1997, Ogden Environmental and Energy Services, Inc. (Ogden) surveyed the nuclear medicine labs and ejector pit located adjacent to tunnel 45 and identified radioactive contamination in excess of NRC release criteria (Ogden/NAE 1998). The Ogden report concluded that the scope of the survey needed to be expanded.

WESTON performed a supplemental radiological characterization at the VAECC from January-February 1999. The characterization survey focused on areas adjacent to the nuclear medicine laboratories and ejector pits, with the intent to gather data adequate to support a final status survey (FSS) where possible. Several isolated hot spots of up to 20,000 dpm/100 cm² (fixed contamination only) were noted in SU 005, 006 and 007. These spots appeared to be the result of foot transfer from the laboratories and were later decontaminated using physical methods. A final surface contamination survey was performed on the areas after decontamination. The objective of this activity was to limit future decontamination to SU 001, 002 and 004. Table 3-1 presents the range of and average Sr-90 surface contamination levels of survey units requiring remediation or supplemental sampling as presented in WESTON (1999).

Table 3-1. Sr-90 Surface Contamination Levels in Survey Units Requiring Remediation

Survey Unit	Description	Total Beta-Gamma		Removable Beta-Gamma	
		Range	Average	Range	Average
		(dpm/100 cm ²)		(dpm/100 cm ²)	
001	Nuclear Medicine Lab	-250 to 2.8 E6	1.1 E5	-4 to 2.7 E3	2.7E2
002	Ejector Pit	67 to 7.5 E3	3.2 E3	11 to 76	36
004	Men's Toilet	-67 to 1.5 E5	3.0 E4	-4 to 83	36

A concrete slab and underlying soil sampling program was instituted in SU 001 and 002. Sampling results indicated Sr-90 contamination exceeding the DCGLs at depths up to two inches in the concrete slab of SU 001. The only soil contamination levels exceeding the DCGL were noted in the vicinity of the cleanouts/floor drain system serving SU 001. Soil concentrations as high as 2,054 picoCuries per gram (pCi/g) were noted.

3.2 Ensuring that Occupation Radiation Exposures Are As Low As Reasonably Achievable (ALARA)

The intent of the Radiation Safety Program is to ensure that occupational radiation exposures are maintained to ALARA. Implementation will be facilitated through USACE/CENAN/VAECC interaction with the site RSO. USACE utilizes a three-tiered approach for its projects in accordance with USACE ER 385-1-80. The program includes a written VAECC policy, qualified personnel, periodic audits, radiation protection training and appropriate monitoring equipment, and adequate supplies and manpower for radiation protection. During D&D operations, the RSO shall facilitate a meeting of the ALARA committee at a minimum of once per month or in emergency situations. The ALARA Committee shall consist of the RSO, the CENAN PM, the USACE HP and the RAC PM. Site specific dose limits will be established by the ALARA committee. The purpose of the meeting is to identify improved means to reduce worker and public exposures to ALARA and ensure dose limits are not approached or exceeded. Meeting minutes will be documented and retained in the project files.

3.3 Radiation Protection Program

All site activities will be performed to the requirements of a Radiation Protection Program (RPP) administered by the site RSO and/or their designee. The RPP shall contain specifications to ensure that exposures to workers and the public are maintained ALARA. These specifications include environmental monitoring requirements, access control and posting, PPE requirements, radiological release and personnel monitoring, respiratory protection, decontamination, and emergency response. These RPP elements will be implemented through the use of SOPs that must be reviewed and understood by all personnel participating in D&D activities. Base procedures include, but are not limited to:

Environmental Monitoring – Describes the set up and use of particulate air samplers at the locations designated in Section 3.6. Also describes the use of portable/lapel sampling equipment when necessary. The procedure specifies the types of particulate air samplers, which may include Eberline RAS-1, MSA lapel, Staplex High Volume, or reasonable equivalents, and will provide a means to calculate the airborne Sr-90 concentration, uncertainty and measurement lower limit of detection (LLD).

Site Access Control and Posting – All RCAs will be posted per the requirements of 10 CFR 20.1902. Boundaries will be clearly marked and where feasible, physical barriers will be used to restrict inadvertent access. Changes in boundaries will occur at the discretion of the RSO and will be based on current radiological survey data. It is anticipated that all work areas in survey units 001, 002 and 004 will receive posting as contaminated areas. No "radiation area" postings are anticipated. Workers entering an RCA will be required to sign an access control log upon entry and exit. Appropriate contamination monitoring equipment will be maintained at each RAC access control location. All notices to workers as required in 10 CFR 19 will be posted in a conspicuous work area.

Issuance of Radiation Work Permits (RWP) – All work in RCAs will be controlled through the use of RWPs. RWPs will be issued and/or approved by the RSO or their designee, and will include a description of radiological conditions such as gamma and beta exposure rates, surface contamination levels and airborne radionuclide concentrations. The RWP will specify the

necessary personnel dosimetry and PPE required to enter the RCA, and work restrictions as applicable. Decontamination, release survey protocol, and emergency notification procedures to include estimates of internal committed effective dose equivalent (CEDE) and ALARA dose limit analysis also will be presented in the RWP.

Equipment Function Check and Maintenance – This procedure describes the daily preparation and troubleshooting of portable and laboratory counting equipment that may be used during D&D. Critical elements of the procedure include methods to perform background and efficiency checks, trend charting and chi-square distribution analyses, minimum detectable activity (MDA) calculation, and electronic adjustments. This procedure will be applicable to a wide variety of equipment including but not limited to gas-flow proportional detectors, Geiger-Mueller (GM) detectors, plastic scintillation detectors, phoswich smear counters, and ionization chambers. Table 3-2 illustrates equipment potentially used to support D&D activities. All equipment maintenance and use procedures will be consistent with the recommendations of the American National Standards Institute (ANSI) and American Society for Testing of Materials (ASTM) recommendations. Equipment application will be consistent with the methods described in *"Minimum Detectable Concentrations with Typical Radiation Survey Instruments for Various Contaminants and Field Conditions"*, Draft NUREG-1507 (NRC 1995). Radioactive check sources will be of activity consistent with the measurements to be performed. All sources will be NIST-traceable and maintained in a secure area.

Table 3-2. Example Radiological Survey Equipment to be Used to Support D&D Activities

Manufacturer	Model	Purpose	Estimated Sensitivity	Limitations
Ludlum	44-116/2221	Recordable Surface Contamination Measurements (beta-gamma)	500-1200 dpm/100 cm ²	Fragility
Ludlum	44-9/12	Informational Surface Contamination Measurements, Surface beta dose rates	3000-4000 dpm/100 cm ²	Poor sensitivity
Ludlum	44-68/2221 or 2350	Recordable Surface Contamination Measurements (beta-gamma)	500-1200 dpm/100 cm ²	Fragility, gas supply
Ludlum	19	Area Gamma Exposure Rates	N/A	Mode of calibration
Ludlum	43-10-1/2929	Removable Contamination Measurements/Gross Beta-Gamma Particulate Air Samples	100-200 dpm/100 cm ² (smear) 10 ⁻¹³ uCi/ml (air sample)	

Routine Radiological Surveys of Work and Support Areas – Work and support areas will be surveyed at a minimum frequency of once per week or more often based on changing radiological conditions. Surveys will be performed for total and removable contamination levels and beta/gamma dose rates, and documented on SOP forms/diagrams.

Respiratory Protection Program – A respiratory protection program will be implemented if airborne radionuclide concentrations exceed 10% of the Derived Air Concentration (DAC) for Sr-90 (assumed to be Class W – 2 E-9 uCi/ml). The respiratory protection program will be consistent with the requirements of 10 CFR 20, Subpart H and include a cleaning, testing, survey and maintenance component. Prior to initiation of the program, all participating workers will be subject to baseline bioassay analyses for Sr-90. Routine bioassay samples will be utilized in conjunction with the air sampling program to assess internal dose commitments. Should routine contamination surveys of respirators indicate contamination, the RSO may initiate nasal smear analyses for potentially exposed workers.

Internal and External Dose Recording Program – Each occupational worker will have their radiation doses recorded in accordance with 10 CFR 20, Subpart C. Where necessary, internal committed effective dose equivalent (CEDE) will be calculated based on air sample, bioassay, and work area stay time data. Committed dose equivalents (CDE) to target organs also will be calculated where necessary. External doses will be monitored through the use of thermoluminescent dosimeters (TLDs), and may include reporting components of total penetrating gamma (effective dose equivalent – EDE), penetrating beta, and beta skin dose. A final report will be issued to workers containing a summary total effective dose equivalent (TEDE) that is comprised of the CEDE and EDE components.

Personnel Decontamination – The implementation of RWP, access control and contamination reduction procedures will limit the potential for contamination of personnel leaving RCAs. In the event that detectable contamination is noted on personnel leaving the RCA, basic decontamination procedures using soap and water will be applied only under supervision of a person qualified in personnel decontamination procedures. All decontamination fluid and media will be retained and subject to appropriate disposition. Following decontamination, individuals will be subject to repeat surveys to ensure that the contamination has been removed. Repeated contamination events will be reviewed as a potential system failure, with appropriate corrective actions taken.

Emergency Procedure – The nature of contamination is such that limited doses would be expected even under the most severe emergency conditions. In all cases, workers will immediately be treated with regard to physical injuries after basic decontamination. The requirements for medical emergencies will be described in detail in the HASP.

3.4 Contractor Personnel

Contractor personnel participating in decommissioning activities will report to USACE/CENAN/VAECC management and will be subject to the conditions of NRC License No. 31-02892-06 and this decommissioning plan.

3.5 Radioactive Waste Management

Handling/Processing

Radioactive wastes generated from D&D at the VAECC are expected to include concrete, plywood, laboratory fixtures, drain lines, soil and other building materials. The estimated volume of radioactive waste requiring disposal is estimated at 1600 ft³. Treatment methods are directed at reducing the volume of material necessary for disposal and include abrasion, scarification, physical segregation and separation, and application of non-hazardous cleaning solutions. Materials that do not meet the applicable DCGLs for unrestricted release will be prepared for transportation and disposal at a licensed facility.

In an effort to reduce cross-contamination and the generation of additional radioactive waste, non-essential tools and machinery will not be allowed into an RCA. Likewise, removable contamination areas will be treated with fixing agents prior to major demolition activities.

Transportation

Based on the projected volume of radioactive waste, truck shipment of waste containers including B-25 boxes and 55-gallon type H drums or other appropriate, certified shipping containers will be utilized. The transportation program will be implemented in accordance with U.S. Department of Transportation (DOT) requirements for manifesting, labeling, contamination and radiation levels, and transport. Exclusive use vehicles will be employed.

Disposal

All radioactive waste will be shipped to a USACE-approved disposal facility. All waste profile and acceptance criteria will be ensured through sampling, processing and required documentation.

3.6 Effluent Releases and Monitoring

The primary effluents that are postulated from decommissioning activities include airborne particulates and decontamination liquids/solutions generated from dust suppression and cooling activities.

Airborne Effluents

Airborne effluents may be generated during construction/demolition activities. The highest potential for release is noted within SU 001. Prior to demolition activities in this survey unit, a fixative will be applied to the concrete floors to retain Sr-90-containing dusts. Particulates generated during concrete cutting and dismantlement will be controlled through the use of negative pressure containment when working in contaminated areas of SU 001 and SU 004. Ambient air will be filtered through two-stage HEPA filtration units. The excavation of soil underlying the SU 001 concrete slabs poses some minor potential for the resuspension of soil particulates. Where necessary, small quantities of water may be applied as a dust suppression measure.

Airborne radionuclide concentrations will be monitored at multiple locations about the VAECC. Locations will include the immediate work area, adjacent areas occupied by non-radiological worker VAECC staff, and the work area boundary at ground level outside of Building 90. Background stations may be placed indoors and outdoors at locations not impacted by D&D operations. The typical means of sampling will be gross-beta sampling of particulate air filters. All activity will conservatively be attributed to Sr-90. Samples will be archived and made available for radiochemical laboratory analyses as necessary. An administrative limit of 2 E-10 uCi/ml (10% of Derived Air Concentration of 2 E-9 uCi/ml) will be utilized as an action level for occupational workers to upgrade to respiratory protection.

Airborne effluent concentrations in unrestricted areas of the VAECC will be limited to less than 6 E-12 uCi/ml . The aforementioned sampling network will be used to assess airborne Sr-90 concentrations in unrestricted areas.

Liquid Effluents

Potentially contaminated liquids may be developed from the use of water-cooled concrete cutting equipment and decontamination washes. Liquid effluents will be retained in hold-up tanks and allowed to separate phases. The liquid phase will be sampled and analyzed for Sr-90 content prior to discharge to waterways or sewers per the concentration limits specified in 10 CFR 20, Appendix B Tables 2 and 3, respectively (5 E-7 and 5 E-6 uCi/ml). The sludge phase of any fluids will be solidified and disposed as radioactive waste as necessary.

4.0 FINAL STATUS SURVEYS

It is anticipated that an FSS will be performed in areas that have undergone remediation and/or have the potential to have been impacted by D&D operations.

4.1 Survey Areas Description

Survey areas fall into two categories: no remediation required and adequate data exist to support FSS; and substantial remediation to be followed by FSS. These designations are shown in Table 1-1.

Prior to the characterization summarized in WESTON (1999), all survey units were assigned a MARSSIM survey classification I, II, or III in S&W (1998). A survey classification was applied to floors and lower walls (<6') and upper walls and ceilings. Based on the classification, each survey received the following scanning percentage:

Class I – 100% for lower walls and floors; 25% for upper walls and ceilings,

Class II – 50% for lower walls and floors; 25% for upper walls and ceilings, and

Class III – 25-50% for all floor, wall and ceiling components in survey unit.

4.2 Survey Design

Category 1 – No Remediation Required and Adequate Data Exist to Support FSS

Category 1 includes SU 003, SU 005, SU 006, SU 007, SU 008, and SU 009. As part of the characterization described in WESTON (1999), these areas were subject to large-area surface contamination surveys performed with the SCM-SIMS™ and discrete total, maximum and removable contamination measurements. Under the original MARSSIM classification assigned in S&W (1998), all survey units were Class III, with the exception of SU 003 and SU 005, which had received a Class I assignment. Survey results identified several isolated “hot spots” in SU 005, SU 006 and SU 007. These hot spots were mostly restricted to doorway thresholds, and

were decontaminated using physical removal methods. Decontaminated areas were then resurveyed to demonstrate compliance with DCGLs. No hot spots were noted in SU 008.

Based on the measurement saturation obtained with the SCM-SIMS system in these six survey units, and the thorough follow-up survey performed following spot decontamination, it is anticipated that the data may be combined to create a FSS report demonstrating compliance with the surface contamination DCGLs. This activity will be undertaken independent of field D&D and survey activities. It should be noted that, due to the nature of the hot spots (door thresholds), the Class III areas were not reclassified. This action was taken because, in most cases, the Class III areas received far more survey coverage than required (approaching 100% of lower walls and floors).

Category 2 – Substantial Remediation Followed by FSS

SU 001, SU 002 and SU 004 are expected to require substantial D&D operations that will alter the existing building material configuration and radiological characteristics. Activities in SU 001 are expected to leave bare soil where the floor previously was located, and bare structural walls that have had all internal plywood covering removed. Core sampling indicates that any soil contamination will be localized to areas where floor drain systems have been routed. As all building surfaces and soils will have been remediated to substantially less than the DCGLs (after ALARA provisions have been incorporated), the anticipated standard deviation of the survey unit Sr-90 surface contamination levels and soil concentrations is anticipated to be extremely low in comparison to the DCGL and the lower bound of the gray region (LBGR).

In developing the LBGR and subsequent delta (between the DCGL and LBGR) as discussed in MARSSIM, it is evident that these parameters are large with respect to the anticipated sample population standard deviation for Sr-90. Using MARSSIM methods to calculate the required number of survey unit tritium smear samples will result in a Δ/σ (delta/standard deviation) value of much greater than 3 and a Sign p value of 1. Using formula 5-2 from NRC (1997) with type I and II error rates set at 0.05, the calculated number of samples for the sign test is 11 discrete samples from the exposed soil parcel and the wall and ceiling surfaces.

It should be noted that all building and soil surfaces in SU 001 will be subject to a 100% scan using gas-flow proportional counting equipment (or equivalent) and beta scintillators, respectively. The soil requirement is anticipated to be overly restrictive given the non-homogeneous nature of the excavated soil contamination and given the relatively small exposed soil surface area (300-400 ft²). It is recommended that three discrete soil samples be collected in SU 001 at the approximate location of the floor drain penetration in each laboratory room or locations of the highest measurement as determined by surface scanning the soil with beta scintillation detectors. Additionally, three random soil samples will be collected from the exposed soils of SU 001 and submitted for Sr-90 analyses. Some soil areas may be exposed in SU 005 while removing drain line sections. Should these soils appear to have been impacted, similar sampling protocol will be incorporated.

The surface survey protocol of 100% scan Class I and 11 discrete measurements will be applied to the surfaces of SU 002 and SU 004.

4.2.1 Survey Layout

The survey layout will be placed using a standard grid system following D&D activities. Grid lines will be placed with appropriate survey and marking equipment.

4.2.2 Radiological Monitoring Techniques

Surface Contamination Monitoring

Total surface contamination monitoring will be performed with gas-flow proportional counting or plastic scintillation-based detectors (or equivalent systems as appropriate) as described in Table 3-2. Removable contamination smears will be analyzed with similar systems that are configured for smear analyses.

Portable detectors will be utilized in either scanning or discrete measurement mode. The primary variable (that may be controlled) impacting the portable detector sensitivity during measurement of residual Sr-90 on surfaces is the scanning speed. A separate scanning speed will be established for the final survey of building surfaces versus the unrestricted release of items

from an RCA. The target detection sensitivity for scanning of building surfaces is 700-800 dpm/100 cm², while the target detection sensitivity for release of material from an RCA is 200-300 dpm/100 cm². Detector sensitivities will be calculated using the methods described in NRC (1995) and will incorporate detector background and efficiency at the time of survey. Given the removable contamination DCGLs for building surfaces and unrestricted release of items shown in Table 2-1, attainment of detection sensitivities of 870 dpm/100 cm² and 200 dpm/100 cm², respectively for these types of measurements will eliminate the requirement for removable contamination measurements. Where such measurements are required, the detection sensitivity will be controlled primarily through variation of counting time.

All raw and calculated surface contamination levels will be recorded electronically or on data forms associated with standard operating procedures.

Soil Parcel Survey and Sampling/Concrete Material Analyses

Section 5.5.2.4 of the MARSSIM describes methods for addressing survey/sampling of small, elevated areas of contamination. This discussion is applicable primarily to pure soil sampling efforts. The implementation of continuous recycle field surveys for total beta and/or gamma radiation over a survey unit will reduce or eliminate the need for special sampling patterns, as verification samples may be collected from biased areas of elevated count rate.

A Utah-certified analytical laboratory will perform Sr-90 analyses of soil and concrete. The analytical technique will be U.S. Environmental Protection Agency (EPA) 901.0 and the required detection sensitivity will be 7 pCi/g or approximately 65% of the DCGL. All samples will be logged, packaged and shipped according to QA/QC protocol. Note that the concrete must also pass surface release criteria.

4.2.3 Final Status Survey Reporting

Upon completion of field remediation activities, a final decommissioning report will be prepared. The report completion is dependent upon receipt of final laboratory data and disposal

verification. Upon receipt of this information, a final report discussing the following topical areas will be prepared:

- Survey Procedures.
- Instrumentation Used.
- Coordinate Systems.
- Findings – Residual Contamination/Hazardous Material.
- Results.
- Suggestions.
- QA/QC practices.

The final report will be prepared under the direction of the RAC Project Manager, and will be completed and submitted within 30 working days of receipt of all laboratory results and disposal certifications. The FSS package for all site survey units will be included as an attachment or appendix to the final decommissioning report. Variances from the prescribed DCGLs will be documented and compared to hot spot analysis criteria described in Section 5.3 of MARSSIM.

4.3 Quality Assurance and Control

Quality assurance and control will be ensured through adherence to data quality objectives (DQOs), standard operating procedures, and all requirements specified in the QAPP. Additional QA/QC requirements will include the collection of 20% duplicate discrete survey measurements for remediated survey units, and the collection of one duplicate bulk material sample (to be analyzed for Sr-90) for soil and concrete and each survey unit. The quality of radiological scan surveys performed in remediated survey units will be ensured through the calculation and recording of all parameters affecting the detection sensitivity. These parameters include detector background, scanning speed, and efficiency. Based on equipment preparation/function check procedures, variations of these parameters in excess of +/- 20% will be investigated.

5.0 FUNDING

Remediation activities will be funded through the Defense Environmental Restoration - Formerly Utilized Defense Sites (DERFUDS) Program. Administration will be facilitated through the USACE New York District.

6.0 PHYSICAL SECURITY PLAN AND MATERIAL CONTROL AND
ACCOUNTING PLAN PROVISIONS IN PLACE DURING
DECOMMISSIONING

All radioactive waste generated during D&D operations will be packaged for transport and disposal. These wastes will be stored in a locked, fenced area prior to shipment, and assigned tracking numbers as part of the waste manifest preparation procedure. Radioactive check sources will be logged and stored in locked containers at a designated equipment storage/maintenance area. The VAECC is a fenced facility with 24-hour security. As part of the security and accountability program, VAECC security personnel will routinely inspect the integrity of the waste storage area. Any theft or vandalism will be reported immediately to the RAC Project Manager and VAECC RSO.

7.0 REFERENCES

- NRC 1998a. Supplemental Information on the Implementation of the Final Rule on Radiological Criteria for License Termination. Federal Register Notice FR18NO98-121, November 21, 1998.
- NRC 1998b. Guidelines for the Decommissioning of Facilities and Equipment Prior to Release for Unrestricted Use or Termination of Byproduct, Source, or Special Nuclear Material Licenses. Policy and Guidance Directive FC83-23.
- NRC 1997. Multi-Agency Radiation Survey and Site Investigation Manual (MARSSIM). U.S. Nuclear Regulatory Commission Report NUREG-1575, December 1997.
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- Ogden/NAE 1998. Data Collection at Defense Environmental Restoration Program – Formerly Used Defense Sites (DERP-FUDS), St. Albans Extended Care Center, Queens, New York (DERP-FUDS Site C02NY0763). Report prepared for Northern Ecological Associates by Ogden Environmental Services, Inc.
- S&W 1998. Draft Final Work Plan for the Radiological Characterization Survey of the St. Albans Veterans Extended Care Center Queens, New York. Prepared for the Department of Army, New England District, Corps of Engineers by Stone and Webster Environmental Technology and Services, Boston, Massachusetts. September 1998.
- WESTON 2000. Justification for Strontium-90 Soil DCGL. WESTON report prepared under Task Order 19, Contract DACA31-96-D-0006. June 2000.
- WESTON 1999. Radiological Characterization Survey Report – St. Albans Veterans Administration Extended Care Center, Queens, New York. WESTON report prepared under Task Order 19, Contract DACA31-96-D-0006. April 1999.
- WESTON 1999a. Justification for Modified Derived Concentration Guidelines (DCGL). WESTON report prepared under Task Order 19, Contract DACA31-96-D-0006. June 1999.
- WESTON 1999b. Addendum to Justification for Modified Derived Concentration Guidelines for Strontium-90 Concentrations in Soil. WESTON report prepared under Task Order 19, Contract DACA31-96-D-0006. October 1999.
- WESTON 1999c. Draft Final Status Survey Report. WESTON report prepared under Task Order 19, Contract DACA31-96-D-0006. December 1999.

8.0 ABBREVIATIONS

Δ/σ	delta/standard deviation
ALARA	as low as reasonably achievable
ANSI	American National Standards Institute
ASTM	American Society for Testing of Materials
CDE	committed dose equivalent
CEDE	committed effective dose equivalent
CENAE	North Atlantic Division, New England District
CENAN	North Atlantic Division, New York District
CFR	Code of Federal Regulations
D&D	decontamination and decommissioning
DAC	Derived Air Concentration
DCGLs	derived concentration guidelines
DERFUDS	Defense Environmental Restoration Formerly Utilized Defense Sites
DOD	Department of Defense
DOT	U.S. Department of Transportation
DP	Decommissioning Plan
dpm/100cm ²	disintegrations per minute per 100 square centimeters
DQO	data quality objectives
EDE	effective dose equivalent
EPA	United States Environmental Protection Agency
FSS	final status survey
ft ²	square feet
ft ³	cubic feet
GM	Geiger-Mueller (detector)
HASP	Health and Safety Plan
HEPA	High Efficiency Particulate Air
LBGR	lower bound of the gray region
LLD	lower limit of detection
MARSSIM	Multi-Agency Radiological Site Survey Implementation Manual
MDA	minimum detectable activity
NRC	U.S. Nuclear Regulatory Commission
pCi/g	picoCuries per gram
PM	Project Manager
PPE	personnel protective equipment
QAPP	Quality Assurance Program Plan
QC	Quality Control
RAC	Remedial Action Contractor
RCA	radiological control areas
RPP	Radiological Protection Program
RSO	Radiation Safety Officer
RWP	Radiation Work Permits
SOPs	Standard Operating Practices
TEDE	total effective dose equivalent
TLD	thermoluminescent dosimeters

uCi/ml	microCuries/milliliter
SCM-SIMS™	Surface Contamination Monitor/Survey Information Management System
QA/QC	Quality Assurance/Quality Control
QAPP	Quality Assurance Project Plan
Sr-90	strontium-90
SU	survey unit
USACE	U.S. Army Corps of Engineers
VAECC	St. Albans Veterans Administration Extended Care Center
VA	U.S. Veterans Administration

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