

**Pennsylvania DEP Bureau of Radiation Protection
Facility Survey Summary Sheet**

Facility/Site:

Westinghouse Forest Hills

Date:

1/15/2000

Contact Person:

Todd Brautigam

Phone #:

(724) 733-3000

Equipment: Ludlum 2221 with 44-10 NaI detector; Bicon Micro Analyst

Performed gamma survey and sampling of A Bldg. Line A pipe trench and J Bldg. exterior pipe trench. Background was ~ 7.5 kC/min and 10 to 12 μ R/hr. No readings greater than background in either of these areas. Collected samples # 5510023 and # 5510024. See attached results.

Name:

Steve Bostjancic

Signature:



Date:

1/15/2000

Sample ID: 5510 023 01/05/2000

Status: COMPLETED

Collector: Steven A Bostjancic

Collected: 01/05/2000 10:30:00 AM

County: NOT INDICATED

State:

Municipality: NOT INDICATED

Location: NOT INDICATED Line A 39 meter south

Reason: Routine Sampling

Laboratory Sample ID: R2000000542

COMPLETED

Suite: RAD65

Matrix: Soil

A sample value is an observed reading of a sample's radioactivity on a given date and time.

The Lowest Level of Detection (LLD) is the minimum sample value that can be detected with 95% confidence.

The Counting Error (CE) is a factor that when added to and subtracted from a sample value, defines a range that will with 95% confidence encompass the actual sample value.

| Test | 95% LLD | Sample Value | 95% CE |
|----------|-----------|------------------|----------|
| BA 140** | 1070 | 0.0000 PCI/KG | 0 |
| BE 7** | 142 | 0.0000 PCI/KG | 0 |
| CO 58** | 14 | 0.0000 PCI/KG | 0 |
| CO 60** | 9 | 0.0000 PCI/KG | 0 |
| CS 134** | 8 | 0.0000 PCI/KG | 0 |
| CS 137** | 8 | 6.0000 PCI/KG | 6 |
| FE 59** | 47 | 0.0000 PCI/KG | 0 |
| I 131 | 0 | 0.0000 PCI/KG | 0 |
| LA 140 | 0 | 0.0000 PCI/KG | 0 |
| MN 54** | 9 | 0.0000 PCI/KG | 0 |
| NB 95** | 35 | 0.0000 PCI/KG | 0 |
| PU 238** | 89.7203 | 0.0000 PCI/KG | 0 |
| PU 239** | 135.0839 | 0.0000 PCI/KG | 0 |
| TH 228 | 0 | 0.0000 PCI/KG | 0 |
| TH 230** | 1666.212 | 1269.2127 PCI/KG | 634.4088 |
| TH 232** | 1771.2885 | 1565.8759 PCI/KG | 700.3779 |
| U 234 | 343.6558 | 1498.8363 PCI/KG | 157.5246 |
| U 235** | 59.5658 | 15.6904 PCI/KG | 18.1163 |
| U 238 | 336.5042 | 1358.8144 PCI/KG | 145.1033 |
| ZN 65** | 23 | 0.0000 PCI/KG | 0 |
| ZR 95** | 30 | 0.0000 PCI/KG | 0 |

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Sample ID: 5510 023 01/05/2000

Status: COMPLETED

Collector: Steven A Bostjancic

Collected: 01/05/2000 10:30:00 AM

County: NOT INDICATED

State:

Municipality: NOT INDICATED

Location: NOT INDICATED

Reason: Routine Sampling

Laboratory Sample ID: R2000000543

COMPLETED

Suite: RAD92

Matrix: Soil

A sample value is an observed reading of a sample's radioactivity on a given date and time.

The Lowest Level of Detection (LLD) is the minimum sample value that can be detected with 95% confidence.

The Counting Error (CE) is a factor that when added to and subtracted from a sample value, defines a range that will with 95% confidence encompass the actual sample value.

| Test | 95% LLD | Sample Value | 95% CE |
|--------|----------|------------------|----------|
| RA 226 | 34.9134 | 1287.7679 PCI/KG | 84.1916 |
| RA 228 | 438.3841 | 1792.6305 PCI/KG | 330.0497 |

** - This symbol indicates the reported sample value is lower than its corresponding lowest limit of detection.

Sample ID: 5510 024 01/05/2000

Status: COMPLETED

Collector: Steven A Bostjancic

Collected: 01/05/2000 10:40:00 AM

County: NOT INDICATED

State:

Municipality: NOT INDICATED

Location: NOT INDICATED Exterior J bldg 8.6 m south

Reason: Routine Sampling

Laboratory Sample ID: R2000000544

COMPLETED

Suite: RAD65

Matrix: Soil

A sample value is an observed reading of a sample's radioactivity on a given date and time.

The Lowest Level of Detection (LLD) is the minimum sample value that can be detected with 95% confidence.

The Counting Error (CE) is a factor that when added to and subtracted from a sample value, defines a range that will with 95% confidence encompass the actual sample value.

| Test | 95% LLD | Sample Value | 95% CE |
|----------|-----------|------------------|----------|
| BA 140** | 939 | 0.0000 PCI/KG | 0 |
| BE 7** | 126 | 0.0000 PCI/KG | 0 |
| CO 58** | 12 | 0.0000 PCI/KG | 0 |
| CO 60** | 8 | 0.0000 PCI/KG | 0 |
| CS 134** | 7 | 0.0000 PCI/KG | 0 |
| CS 137 | 7 | 22.0000 PCI/KG | 6 |
| FE 59** | 39 | 0.0000 PCI/KG | 0 |
| I 131 | 0 | 0.0000 PCI/KG | 0 |
| LA 140 | 0 | 0.0000 PCI/KG | 0 |
| MN 54** | 9 | 0.0000 PCI/KG | 0 |
| NB 95** | 31 | 0.0000 PCI/KG | 0 |
| PU 238** | 95.1071 | 0.0000 PCI/KG | 0 |
| PU 239** | 111.4882 | 0.0000 PCI/KG | 0 |
| TH 228 | 1291.808 | 2361.3048 PCI/KG | 658.9222 |
| TH 230 | 1064.8904 | 1143.4003 PCI/KG | 440.0158 |
| TH 232 | 1168.6356 | 2130.9825 PCI/KG | 596.8353 |
| U 234 | 397.4287 | 1219.8628 PCI/KG | 169.5155 |
| U 235** | 91.5708 | 29.7666 PCI/KG | 29.7666 |
| U 238 | 369.0409 | 1366.3977 PCI/KG | 173.5709 |
| ZN 65** | 19 | 0.0000 PCI/KG | 0 |
| ZR 95** | 26 | 0.0000 PCI/KG | 0 |

06/02/2000 12:06:19 AM

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Radiation Protection

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Sample ID: 5510 024 01/05/2000

Status: COMPLETED

Collector: Steven A Bostjancic

Collected: 01/05/2000 10:40:00 AM

County: NOT INDICATED

State:

Municipality: NOT INDICATED

Location: NOT INDICATED Exterior J bldg 8.6 m south

Reason: Routine Sampling

Laboratory Sample ID: R2000000545

COMPLETED

Suite: RAD92

Matrix: Soil

A sample value is an observed reading of a sample's radioactivity on a given date and time.

The Lowest Level of Detection (LLD) is the minimum sample value that can be detected with 95% confidence.

The Counting Error (CE) is a factor that when added to and subtracted from a sample value, defines a range that will with 95% confidence encompass the actual sample value.

| Test | 95% LLD | Sample Value | 95% CE |
|--------|----------|------------------|----------|
| RA 226 | 18.0315 | 1476.1243 PCI/KG | 88.7288 |
| RA 228 | 409.6363 | 1972.3295 PCI/KG | 320.4002 |

** - This symbol indicates the reported sample value is lower than its corresponding lowest limit of detection.