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Livermore Site

Background Values of Gross Alpha and Gross Beta in Soil for Lawrence Livermore National Laboratory

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Introduction

Lawrence Livermore National Laboratory (LLNL) maintains a continuing program for the evaluation of soil prior to construction activities. When soil is removed, it must be evaluated for possible contamination with radioactive materials before it can be reused or properly sent for disposal. To make an appropriate decision about whether or not radioactive contamination is present in specific soil samples, the natural background concentration of radiation must be characterized.

In mid-1991, an evaluation of background radioactivity in soil was conducted based on the existing analytical results for soil samples in the Environmental Protection Department (EPD) database, which was comprised mostly of samples collected for the Environmental Restoration Division. The purpose of the evaluation was to estimate the background values of gross alpha, gross beta and tritium. At the time, there were 184 samples identified in the database from uncontaminated areas; the statistics calculated for these data are shown in Table 1.

Table 1. Statistics for gross alpha and gross beta in soil developed in 1991.

| | Average | Standard Deviation | Average plus Two Standard Deviations |
|-------------|-----------|--------------------|--------------------------------------|
| Gross alpha | 5.5 pCi/g | 4.6 pCi/g | 15 pCi/g |
| Gross beta | 14 pCi/g | 5.8 pCi/g | 25 pCi/g |

The average plus two standard deviations was used for gross alpha and gross beta to represent background. That is, 15 pCi/g gross alpha and 25 pCi/g gross beta were determined to be the level for unrestricted use or disposal of soil.

In the years since 1991, LLNL has collected numerous additional soil samples from uncontaminated areas, and the application of sophisticated statistical methods for determining background values has become more routine. This document revisits the calculation of background for gross alpha and gross beta. The work consisted of two efforts: one to reconstruct the information used in 1991 and conduct calculations that would meet current standards, and the second, to use the larger set of data that have been acquired in the intervening years to update the background estimate.

Reconstruction of 1991 Calculation

A query of the current EPD database of all soils data having gross alpha and gross beta analytical results was conducted. To get to a reasonable data set to represent what would have been available for the 1991 calculation, all data from locations sampled after June 30, 1991, were excluded. This date was chosen to allow time for the analytical results to be returned from the analytical laboratory, for a person to calculate the statistics, and for the results to be approved and authorized for use. In addition, all QA samples, duplicate samples, tank samples, and

samples from depths greater than 20 feet were excluded, even if their date was June 30, 1991, or before. The resulting data set consisted of 185 samples from both the Livermore site and Site 300. Four of these 185 samples were excluded because they were obviously either outliers or from contaminated areas. The resulting statistics for these 181 samples are shown in Table 2. The data used for the reconstruction are provided in Appendix A.

Table 2. Statistics for gross alpha and gross beta in soil reconstructed for mid-1991.

| | Mean | Standard Deviation | Mean plus Two SD | 95th UCL of 95th %ile |
|-------------|------------|--------------------|---------------------|-----------------------|
| Gross alpha | 7.43 pCi/g | 4.72 pCi/g | 16.9 pCi/g | 17 pCi/g |
| Gross beta | 14.4 pCi/g | 5.15 pCi/g | 24.7 pCi/g | 23 pCi/g |

This table includes the mean (average) and the standard deviation (SD) of the 181 samples to provide a comparison to the 1991 estimate. It also provides the result of the calculation of the mean plus two standard deviations and the nonparametric 95th upper confidence limit (UCL) of the 95th percentile. The nonparametric UCL is the rank, r , of a set of numbers, calculated according to Eq. 1 (U.S EPA, 2007), where n is the number of results, p is the percentile of interest, and $z_{(1-\alpha)}$ is the upper $(1 - \alpha)$ percentile of a standard normal distribution.

$$r = np + z_{(1-\alpha)}\sqrt{np(1-p)} + 0.5 \quad \text{Eq. 1, or}$$

$$r = n * 0.95 + 1.645 * \sqrt{n * 0.95 * 0.05} + 0.5$$

The 95th UCL of the 95th percentile has been recommended by the U.S. EPA as an appropriate statistic to represent background for the comparison of a single analytical result for the purpose of determining if the sample is within the range of background values (U.S. EPA, 1989). This quantity represents a value that has 95% confidence that it will not be exceeded 95% of the time. The UCL calculated here used nonparametric statistical equations because the data were not normally or lognormally distributed. Whether the background value was determined by the mean plus two standard deviations or the 95th UCL of the 95th percentile, the selection of 15 pCi/g for gross alpha and 25 pCi/g for gross beta, was not unreasonable based on the data set available in 1991.

New Evaluation of Soil Data

Soil samples specifically identified in the EPD database as pre-construction soil samples were collected in the years 1995 through 2006. During this time, more than 600 soil samples were collected in areas known or reasonably believed to be free from contamination. These samples were collected at varying depths, from the surface to many feet deep, and from both the Livermore site and Site 300. The gross alpha and beta results for these samples (excluding likely areas of contamination, duplicates, reanalysis and questionable results due to analytical issues) were determined to not be normally or lognormally distributed and were used to calculate the nonparametric 95th UCL of the 95th percentile. The statistics are provided in Table 3. The data supporting these calculations are provided in Appendix B.

Table 3. Statistics for gross alpha and gross beta in soil samples from uncontaminated areas.

| | N | Mean | Standard Deviation | Mean plus Two SD | 95th UCL of 95th %ile |
|-----------------------|-----|-----------|--------------------|---------------------|-----------------------|
| Livermore site | | | | | |
| Gross alpha | 475 | 2.7 pCi/g | 1.56 pCi/g | 5.8 pCi/g | 6.5 pCi/g |
| Gross beta | 475 | 3.6 pCi/g | 3.2 pCi/g | 10.0 pCi/g | 11 pCi/g |
| Site 300 | | | | | |
| Gross alpha | 86 | 5.1 pCi/g | 2.9 pCi/g | 10.9 pCi/g | 11.4 pCi/g |
| Gross beta | 86 | 5.8 pCi/g | 4.6 pCi/g | 15.0 pCi/g | 21 pCi/g |

The Livermore site and Site 300 data were compared using the Wilcoxon nonparametric test, with the result that the data from Site 300 are statistically significantly different than the data for the Livermore site. In addition, the data support lower estimates of background for both the Livermore site and Site 300 than were calculated in 1991, although the Site 300 background estimates are relatively closer to the 1991 estimates. The data from 1995 through 2006 were also evaluated for trends with time, but no trends were found.

Conclusions

Because LLNL has acquired significantly more data than it had in 1991 when the initial determination of gross alpha and gross beta were made, it is recommended that LLNL use the background values presented in Table 4, which identifies that separate background values be used as screening limits for the Livermore site and for Site 300. It is also recommended that a slightly lower value than the calculated 95th UCL of the 95th percentile be used as a screening limit for gross alpha at Site 300 because the calculated 95th UCL of the 95th percentile was only represented by one value in the ranked data sets.

This determination of background is consistent with guidance provided in the *Multi-Agency Radiation Survey and Site Investigation Manual (MARSSIM)*, which states: “The *background reference area* is a geographical area from which representative reference measurements are performed for comparison with measurements performed in specific survey units. The background reference area is defined as an area that has similar physical, chemical, radiological, and biological characteristics as the survey unit(s) being investigated but has not been contaminated by site activities (*i.e.*, non-impacted).” (U.S. EPA, 2000, p 2-6; see also pp. 4-13, *et seq.*). The samples used in this background determination are from areas of similar characteristics that have not been contaminated by site activities.

Table 4. Recommended screening limits for gross alpha and gross beta based on background values for soil at the Livermore site and Site 300.

| | Recommended screening limit |
|-----------------------|--------------------------------|
| Livermore site | |
| Gross alpha | 6.5 pCi/g |
| Gross beta | 11 pCi/g |
| Site 300 | |
| Gross alpha | 11 pCi/g |
| Gross beta | 21 pCi/g |

References

U.S. Environmental Protection Agency (EPA) (1989), *Statistical Analysis of Ground-water Monitoring Data at RCRA Facilities*, Interim Final Guidance. Washington, DC, Office of Solid Waste.

U.S. Environmental Protection Agency (EPA) (2000), *Multi-Agency Radiation Survey and Site Investigation Manual*, Washington, DC, EPA 402-R-97-016, Rev. 1, U. S. Nuclear Regulatory Commission, NUREG-1575, Rev. 1, U. S. Department of Energy, DOE/EH-0624, Rev. 1.

U.S. Environmental Protection Agency (EPA) (2007), *ProUCL Version 4.0 Technical Guide*, Washington, DC, Office of Research and Development, EPA/600/R-07/041.

| location identifier | depth | sampled | description | < | result | units |
|---------------------|-------|----------|-------------|---|--------|-------|
| GROSS ALPHA | | | | | | |
| SIB-WPA-135 | 5.5 | 6/7/90 | Gross alpha | | 0.7 | pCi/g |
| SIB-WPA-135 | 10.5 | 6/7/90 | Gross alpha | | 0.7 | pCi/g |
| SIB-WPA-136 | 10.5 | 6/8/90 | Gross alpha | | 0.7 | pCi/g |
| SIB-WPA-138 | 10.5 | 6/8/90 | Gross alpha | | 0.7 | pCi/g |
| B-SAS-011 | 0.5 | 2/7/89 | Gross alpha | < | 1 | pCi/g |
| SAP-001 | 0.5 | 2/7/89 | Gross alpha | < | 1 | pCi/g |
| SIB-321-001 | 6 | 5/30/89 | Gross alpha | | 1 | pCi/g |
| SIB-321-001 | 16 | 5/30/89 | Gross alpha | | 1 | pCi/g |
| SIB-WPA-138 | 5.5 | 6/8/90 | Gross alpha | | 1 | pCi/g |
| U241-021 | 10.5 | 5/30/89 | Gross alpha | < | 1 | pCi/g |
| SIB-WPA-134 | 5.3 | 6/7/90 | Gross alpha | | 1.1 | pCi/g |
| SIB-WPA-134 | 10.3 | 6/7/90 | Gross alpha | | 1.1 | pCi/g |
| SIB-WPA-137 | 10.5 | 6/8/90 | Gross alpha | | 1.2 | pCi/g |
| SIB-WPA-136 | 5.5 | 6/8/90 | Gross alpha | | 1.3 | pCi/g |
| SIB-WPA-137 | 5.3 | 6/8/90 | Gross alpha | | 1.5 | pCi/g |
| B-593 | 5.5 | 1/27/89 | Gross alpha | < | 2 | pCi/g |
| B-SAS-011 | 0.5 | 2/7/89 | Gross alpha | < | 2 | pCi/g |
| SIB-321-002 | 10.8 | 5/31/89 | Gross alpha | < | 2 | pCi/g |
| SIB-514-005 | 6.3 | 6/15/89 | Gross alpha | < | 2 | pCi/g |
| SIB-514-005 | 10.5 | 6/15/89 | Gross alpha | < | 2 | pCi/g |
| SIB-514-005 | 15.5 | 6/15/89 | Gross alpha | | 2 | pCi/g |
| SIB-CR-022 | 10.5 | 2/13/90 | Gross alpha | | 2 | pCi/g |
| SIB-CR-026 | 5.5 | 2/13/90 | Gross alpha | | 2 | pCi/g |
| SIB-ETS-003 | 10.3 | 5/8/89 | Gross alpha | < | 2 | pCi/g |
| SSD-011 | 0.5 | 2/15/89 | Gross alpha | | 2 | pCi/g |
| SSD-014 | 0.5 | 2/15/89 | Gross alpha | < | 2 | pCi/g |
| U161-UPL-NW1 | 2 | 11/8/89 | Gross alpha | | 2 | pCi/g |
| U401-ES123 | 1 | 4/3/89 | Gross alpha | < | 2 | pCi/g |
| SAP-001 | 0.5 | 2/7/89 | Gross alpha | < | 3 | pCi/g |
| SAP-001 | 0.5 | 2/7/89 | Gross alpha | < | 3 | pCi/g |
| SIB-321-001 | 11 | 5/30/89 | Gross alpha | | 3 | pCi/g |
| SIB-321-002 | 5.8 | 5/31/89 | Gross alpha | | 3 | pCi/g |
| SIB-514-002 | 6.3 | 6/7/89 | Gross alpha | < | 3 | pCi/g |
| SIB-CR-024 | 5.5 | 2/13/90 | Gross alpha | | 3 | pCi/g |
| SIB-CR-027 | 9.5 | 2/13/90 | Gross alpha | | 3 | pCi/g |
| SIB-WPA-001 | 9.8 | 12/22/89 | Gross alpha | | 3 | pCi/g |
| SSD-001 | 0.5 | 2/7/89 | Gross alpha | < | 3 | pCi/g |
| SSD-008 | 0.5 | 2/15/89 | Gross alpha | < | 3 | pCi/g |
| SSD-009 | 0.5 | 2/15/89 | Gross alpha | < | 3 | pCi/g |
| SSD-010 | 0.5 | 2/15/89 | Gross alpha | < | 3 | pCi/g |
| SSS-008 | 0.5 | 4/12/89 | Gross alpha | < | 3 | pCi/g |
| SSS-AM-004 | 4 | 4/17/91 | Gross alpha | | 3 | pCi/g |
| U161-UPL-NW1 | 3 | 11/8/89 | Gross alpha | < | 3 | pCi/g |
| U241-021 | 15.8 | 5/30/89 | Gross alpha | < | 3 | pCi/g |
| 406D-003 | 0 | 10/22/90 | Gross alpha | | 4 | pCi/g |
| B-560 | 7.5 | 1/26/89 | Gross alpha | | 4 | pCi/g |

| location identifier | depth | sampled | description | < | result | units |
|---------------------|-------|----------|-------------|---|--------|-------|
| B-561 | 7.3 | 2/14/89 | Gross alpha | < | 4 | pCi/g |
| B-594 | 11 | 2/17/89 | Gross alpha | < | 4 | pCi/g |
| SIB-ETS-004 | 10.8 | 5/10/89 | Gross alpha | < | 4 | pCi/g |
| SIB-WPA-001 | 4.8 | 12/22/89 | Gross alpha | | 4 | pCi/g |
| SIB-WPA-014 | 9.5 | 12/22/89 | Gross alpha | | 4 | pCi/g |
| SSD-012 | 0.5 | 2/15/89 | Gross alpha | < | 4 | pCi/g |
| SSS-002 | 0.5 | 4/12/89 | Gross alpha | < | 4 | pCi/g |
| U322-R1U1-S | 10.1 | 11/7/89 | Gross alpha | | 4 | pCi/g |
| 406-ES-04 | 0 | 5/23/91 | Gross alpha | | 5 | pCi/g |
| 833-07 | 10.5 | 1/16/91 | Gross alpha | | 5 | pCi/g |
| B-464 | 11.8 | 9/20/88 | Gross alpha | | 5 | pCi/g |
| B-484 | 11.8 | 9/20/88 | Gross alpha | | 5 | pCi/g |
| B-502 | 7 | 10/17/88 | Gross alpha | < | 5 | pCi/g |
| B-594 | 4.5 | 2/17/89 | Gross alpha | < | 5 | pCi/g |
| SIB-514-002 | 10.5 | 6/7/89 | Gross alpha | < | 5 | pCi/g |
| SIB-CR-027 | 5.5 | 2/13/90 | Gross alpha | | 5 | pCi/g |
| SIB-CR-047 | 5.5 | 3/1/90 | Gross alpha | | 5 | pCi/g |
| SSS-010 | 0.5 | 4/12/89 | Gross alpha | | 5 | pCi/g |
| TFA-RB-B2 | 0 | 12/22/89 | Gross alpha | | 5 | pCi/g |
| TCO1 | 0.5 | 5/4/91 | Gross alpha | < | 5.4 | pCi/g |
| TCO2 | 0.5 | 5/4/91 | Gross alpha | < | 5.4 | pCi/g |
| TCO3 | 0.7 | 5/4/91 | Gross alpha | < | 5.4 | pCi/g |
| 241B-001 | 0 | 5/29/91 | Gross alpha | | 6 | pCi/g |
| 406D-001 | 0 | 10/22/90 | Gross alpha | | 6 | pCi/g |
| 833-08 | 11.5 | 1/23/91 | Gross alpha | | 6 | pCi/g |
| B-502 | 19.3 | 10/18/88 | Gross alpha | < | 6 | pCi/g |
| B-570 | 14.3 | 5/22/89 | Gross alpha | < | 6 | pCi/g |
| SIB-321-002 | 15.3 | 5/31/89 | Gross alpha | | 6 | pCi/g |
| SIB-CR-024 | 9.5 | 2/13/90 | Gross alpha | | 6 | pCi/g |
| SIB-ETS-002 | 11.3 | 5/8/89 | Gross alpha | | 6 | pCi/g |
| SIB-WPA-002 | 4.5 | 12/22/89 | Gross alpha | | 6 | pCi/g |
| SIB-WPA-014 | 4.5 | 12/22/89 | Gross alpha | | 6 | pCi/g |
| SSD-013 | 0.5 | 2/15/89 | Gross alpha | | 6 | pCi/g |
| SSS-007 | 0.5 | 4/12/89 | Gross alpha | < | 6 | pCi/g |
| SSS-DRB-006 | 0 | 4/1/91 | Gross alpha | | 6 | pCi/g |
| TFA-RB-B1 | 0.3 | 12/22/89 | Gross alpha | | 6 | pCi/g |
| TFA-RB-B5 | 0.3 | 12/22/89 | Gross alpha | | 6 | pCi/g |
| 406D-002 | 0 | 10/22/90 | Gross alpha | | 7 | pCi/g |
| SIB-WPA-002 | 9.5 | 12/22/89 | Gross alpha | | 7 | pCi/g |
| SIB-WPA-003 | 4.5 | 12/22/89 | Gross alpha | | 7 | pCi/g |
| SIB-WPA-003 | 9.5 | 12/22/89 | Gross alpha | | 7 | pCi/g |
| SIB-WPA-010 | 5 | 12/21/89 | Gross alpha | | 7 | pCi/g |
| SIB-WPA-012 | 4.5 | 12/21/89 | Gross alpha | | 7 | pCi/g |
| SIB-WPA-015 | 4.5 | 12/22/89 | Gross alpha | | 7 | pCi/g |
| SIB-WPA-015 | 9.5 | 12/22/89 | Gross alpha | | 7 | pCi/g |
| SIB-WPA-015 | 9.8 | 12/22/89 | Gross alpha | | 7 | pCi/g |
| SSS-005 | 0.5 | 4/12/89 | Gross alpha | | 7 | pCi/g |
| SSS-009 | 0.5 | 4/12/89 | Gross alpha | | 7 | pCi/g |

| location identifier | depth | sampled | description | < | result | units |
|---------------------|-------|----------|-------------|---|--------|-------|
| SSS-DRB-008 | 0 | 4/1/91 | Gross alpha | | 7 | pCi/g |
| TFA-RB-B2 | 1 | 12/15/88 | Gross alpha | | 7 | pCi/g |
| TFA-RB-B7 | 0.3 | 12/15/88 | Gross alpha | | 7 | pCi/g |
| U161-BAC-NW1 | 1 | 11/8/89 | Gross alpha | | 7 | pCi/g |
| B-461 | 10.5 | 8/9/88 | Gross alpha | | 8 | pCi/g |
| B-561 | 11.5 | 2/14/89 | Gross alpha | < | 8 | pCi/g |
| B-607 | 5 | 9/1/89 | Gross alpha | | 8 | pCi/g |
| SIB-624-001 | 2.5 | 6/26/91 | Gross alpha | | 8 | pCi/g |
| SIB-624-001 | 19.7 | 6/27/91 | Gross alpha | | 8 | pCi/g |
| SIB-CR-022 | 5.5 | 2/13/90 | Gross alpha | | 8 | pCi/g |
| SIB-CR-026 | 9.5 | 2/13/90 | Gross alpha | | 8 | pCi/g |
| SIB-WPA-002 | 9.8 | 12/22/89 | Gross alpha | | 8 | pCi/g |
| SIB-WPA-006 | 4.8 | 12/21/89 | Gross alpha | | 8 | pCi/g |
| SIB-WPA-006 | 10.3 | 12/21/89 | Gross alpha | | 8 | pCi/g |
| SIB-WPA-012 | 9.5 | 12/21/89 | Gross alpha | | 8 | pCi/g |
| SIB-WPA-014 | 4.8 | 12/22/89 | Gross alpha | | 8 | pCi/g |
| SSS-DRB-007 | 0 | 4/1/91 | Gross alpha | | 8 | pCi/g |
| 833-06 | 5 | 1/10/91 | Gross alpha | | 9 | pCi/g |
| 833-07 | 6 | 1/16/91 | Gross alpha | | 9 | pCi/g |
| 833-09 | 20 | 1/31/91 | Gross alpha | | 9 | pCi/g |
| B-565 | 14.5 | 4/3/89 | Gross alpha | < | 9 | pCi/g |
| SIB-CR-047 | 9.5 | 3/1/90 | Gross alpha | | 9 | pCi/g |
| SIB-WPA-007 | 5.3 | 12/21/89 | Gross alpha | | 9 | pCi/g |
| SIB-WPA-014 | 9.5 | 12/22/89 | Gross alpha | | 9 | pCi/g |
| SSS-003 | 0.5 | 4/12/89 | Gross alpha | < | 9 | pCi/g |
| SSS-DRB-001 | 0 | 4/1/91 | Gross alpha | | 9 | pCi/g |
| SSS-DRB-003 | 0 | 4/1/91 | Gross alpha | | 9 | pCi/g |
| TFA-RB-B1 | 0.3 | 12/15/88 | Gross alpha | | 9 | pCi/g |
| TFA-RB-B3 | 0.3 | 12/22/89 | Gross alpha | | 9 | pCi/g |
| TFA-RB-B4 | 1 | 12/15/88 | Gross alpha | | 9 | pCi/g |
| TFA-RB-B8 | 1 | 12/15/88 | Gross alpha | | 9 | pCi/g |
| U241-021 | 5.3 | 5/30/89 | Gross alpha | < | 9 | pCi/g |
| U321-RT-06 | 0 | 6/23/89 | Gross alpha | | 9 | pCi/g |
| 406-ES-03 | 0 | 5/23/91 | Gross alpha | | 10 | pCi/g |
| 833-11 | 10.5 | 2/5/91 | Gross alpha | | 10 | pCi/g |
| 835-01 | 11 | 1/29/91 | Gross alpha | | 10 | pCi/g |
| B-593 | 11 | 1/27/89 | Gross alpha | < | 10 | pCi/g |
| B-611 | 10.8 | 3/26/90 | Gross alpha | | 10 | pCi/g |
| B-SAS-011 | 0.5 | 2/7/89 | Gross alpha | < | 10 | pCi/g |
| SIB-CR-060 | 5.5 | 2/22/90 | Gross alpha | | 10 | pCi/g |
| SIB-SD-001 | 0.8 | 4/3/91 | Gross alpha | | 10 | pCi/g |
| SIB-SD-005 | 0.8 | 4/3/91 | Gross alpha | | 10 | pCi/g |
| SIB-WPA-004 | 4.5 | 12/22/89 | Gross alpha | | 10 | pCi/g |
| SIB-WPA-010 | 9.5 | 12/21/89 | Gross alpha | | 10 | pCi/g |
| SSS-DRB-002 | 0 | 4/1/91 | Gross alpha | | 10 | pCi/g |
| SSS-DRB-004 | 0 | 4/1/91 | Gross alpha | | 10 | pCi/g |
| SSS-DRB-005 | 0 | 4/1/91 | Gross alpha | | 10 | pCi/g |
| TFA-RB-B7 | 0.3 | 12/22/89 | Gross alpha | | 10 | pCi/g |

| location identifier | depth | sampled | description | < | result | units |
|---------------------|-------|----------|-------------|--------------------|--------|-------|
| TFA-RB-B8 | 1 | 12/22/89 | Gross alpha | | 10 | pCi/g |
| U161-UPL-NW1 | 1 | 11/8/89 | Gross alpha | | 10 | pCi/g |
| TCO2 | 3.8 | 5/4/91 | Gross alpha | | 10.9 | pCi/g |
| 835-02 | 10.8 | 1/30/91 | Gross alpha | | 11 | pCi/g |
| SIB-CR-060 | 9.5 | 2/22/90 | Gross alpha | | 11 | pCi/g |
| SIB-WPA-011 | 9.8 | 12/21/89 | Gross alpha | | 11 | pCi/g |
| SIB-WPA-013 | 4.8 | 12/22/89 | Gross alpha | | 11 | pCi/g |
| SSS-004 | 0.5 | 4/12/89 | Gross alpha | < | 11 | pCi/g |
| TFA-RB-B4 | 1 | 12/22/89 | Gross alpha | | 11 | pCi/g |
| 833-09 | 11.3 | 1/31/91 | Gross alpha | | 12 | pCi/g |
| SIB-CR-066 | 9.5 | 2/22/90 | Gross alpha | | 12 | pCi/g |
| SIB-SD-003 | 1 | 4/4/91 | Gross alpha | | 12 | pCi/g |
| TFA-RB-B5 | 0.3 | 12/15/88 | Gross alpha | | 12 | pCi/g |
| TFA-RB-B6 | 1 | 12/15/88 | Gross alpha | | 12 | pCi/g |
| TCO2 | 3.7 | 5/4/91 | Gross alpha | | 12.2 | pCi/g |
| SIB-CR-029 | 5 | 2/14/90 | Gross alpha | | 13 | pCi/g |
| SIB-CR-029 | 10 | 1/12/90 | Gross alpha | | 13 | pCi/g |
| SIB-SD-002 | 0.8 | 4/3/91 | Gross alpha | | 13 | pCi/g |
| SIB-WPA-004 | 9.5 | 12/22/89 | Gross alpha | | 13 | pCi/g |
| SIB-WPA-005 | 5 | 12/21/89 | Gross alpha | | 13 | pCi/g |
| SIB-WPA-005 | 9.5 | 12/21/89 | Gross alpha | | 13 | pCi/g |
| SIB-WPA-013 | 9.5 | 12/22/89 | Gross alpha | | 13 | pCi/g |
| SSS-006 | 0.5 | 4/12/89 | Gross alpha | < | 13 | pCi/g |
| B-562 | 12.5 | 2/27/89 | Gross alpha | < | 14 | pCi/g |
| SSS-001 | 0.5 | 4/12/89 | Gross alpha | < | 14 | pCi/g |
| 833-06 | 10 | 1/10/91 | Gross alpha | | 15 | pCi/g |
| SIB-624-001 | 10.5 | 6/27/91 | Gross alpha | | 15 | pCi/g |
| SIB-624-001 | 15 | 6/27/91 | Gross alpha | | 15 | pCi/g |
| SIB-SD-004 | 0.8 | 4/3/91 | Gross alpha | | 15 | pCi/g |
| TFA-RB-B3 | 0.3 | 12/15/88 | Gross alpha | | 15 | pCi/g |
| TFA-RB-B6 | 1 | 12/22/89 | Gross alpha | | 15 | pCi/g |
| U321-RT-05 | 0 | 6/23/89 | Gross alpha | | 15 | pCi/g |
| SIB-WPA-011 | 5.3 | 12/21/89 | Gross alpha | | 16 | pCi/g |
| 833-08 | 6 | 1/22/91 | Gross alpha | | 17 | pCi/g |
| SIB-SD-006 | 0.8 | 4/3/91 | Gross alpha | | 17 | pCi/g |
| SIB-WPA-007 | 9.8 | 12/21/89 | Gross alpha | | 20 | pCi/g |
| SIB-CR-066 | 5.5 | 2/22/90 | Gross alpha | | 22 | pCi/g |
| SIB-CR-063 | 5.5 | 2/22/90 | Gross alpha | | 26 | pCi/g |
| SIB-CR-063 | 9.5 | 2/22/90 | Gross alpha | | 27 | pCi/g |
| | | | | N | 181 | |
| | | | | mean | 7.43 | |
| | | | | stdev | 4.72 | |
| | | | | mean plus 2 SD | 16.9 | |
| | | | | 95%ile | 15 | |
| | | | | 95th utl rank | 177.3 | |
| | | | | 95th ucl of 95%ile | 17.0 | |

| location identifier | depth | sampled | description | < | result | units |
|---------------------|-------|----------|-------------|---|--------|-------|
| GROSS BETA | | | | | | |
| SIB-WPA-135 | 10.5 | 6/7/90 | Gross beta | | 3.5 | pCi/g |
| SAP-001 | 0.5 | 2/7/89 | Gross beta | < | 4 | pCi/g |
| SAP-001 | 0.5 | 2/7/89 | Gross beta | | 4 | pCi/g |
| SIB-CR-026 | 5.5 | 2/13/90 | Gross beta | | 4 | pCi/g |
| SIB-CR-027 | 5.5 | 2/13/90 | Gross beta | | 4 | pCi/g |
| U161-UPL-NW1 | 3 | 11/8/89 | Gross beta | | 4 | pCi/g |
| B-594 | 4.5 | 2/17/89 | Gross beta | | 5 | pCi/g |
| SIB-CR-027 | 9.5 | 2/13/90 | Gross beta | | 5 | pCi/g |
| SSD-009 | 0.5 | 2/15/89 | Gross beta | | 5 | pCi/g |
| SIB-WPA-137 | 10.5 | 6/8/90 | Gross beta | | 5.6 | pCi/g |
| SIB-WPA-134 | 5.3 | 6/7/90 | Gross beta | | 5.9 | pCi/g |
| B-SAS-011 | 0.5 | 2/7/89 | Gross beta | | 6 | pCi/g |
| SIB-321-002 | 10.8 | 5/31/89 | Gross beta | | 6 | pCi/g |
| SIB-CR-026 | 9.5 | 2/13/90 | Gross beta | | 6 | pCi/g |
| SIB-WPA-135 | 5.5 | 6/7/90 | Gross beta | | 6.1 | pCi/g |
| SIB-WPA-138 | 10.5 | 6/8/90 | Gross beta | | 6.4 | pCi/g |
| SIB-WPA-136 | 10.5 | 6/8/90 | Gross beta | | 6.9 | pCi/g |
| SIB-CR-024 | 5.5 | 2/13/90 | Gross beta | | 7 | pCi/g |
| SIB-CR-024 | 9.5 | 2/13/90 | Gross beta | | 7 | pCi/g |
| SIB-WPA-015 | 9.5 | 12/22/89 | Gross beta | | 7 | pCi/g |
| SIB-WPA-134 | 10.3 | 6/7/90 | Gross beta | | 7 | pCi/g |
| SSD-014 | 0.5 | 2/15/89 | Gross beta | | 7 | pCi/g |
| SSS-008 | 0.5 | 4/12/89 | Gross beta | | 7 | pCi/g |
| SIB-WPA-138 | 5.5 | 6/8/90 | Gross beta | | 7.2 | pCi/g |
| SIB-WPA-136 | 5.5 | 6/8/90 | Gross beta | | 7.5 | pCi/g |
| SIB-WPA-137 | 5.3 | 6/8/90 | Gross beta | | 7.6 | pCi/g |
| 833-07 | 10.5 | 1/16/91 | Gross beta | | 8 | pCi/g |
| SIB-CR-022 | 5.5 | 2/13/90 | Gross beta | | 8 | pCi/g |
| SIB-WPA-015 | 9.8 | 12/22/89 | Gross beta | | 8 | pCi/g |
| B-SAS-011 | 0.5 | 2/7/89 | Gross beta | | 9 | pCi/g |
| SIB-CR-022 | 10.5 | 2/13/90 | Gross beta | | 9 | pCi/g |
| SSD-012 | 0.5 | 2/15/89 | Gross beta | < | 9 | pCi/g |
| SSS-DRB-003 | 0 | 4/1/91 | Gross beta | | 9 | pCi/g |
| B-562 | 12.5 | 2/27/89 | Gross beta | < | 10 | pCi/g |
| B-593 | 5.5 | 1/27/89 | Gross beta | | 10 | pCi/g |
| B-594 | 11 | 2/17/89 | Gross beta | | 10 | pCi/g |
| SIB-WPA-006 | 10.3 | 12/21/89 | Gross beta | | 10 | pCi/g |
| SSS-DRB-004 | 0 | 4/1/91 | Gross beta | | 10 | pCi/g |
| B-593 | 11 | 1/27/89 | Gross beta | | 11 | pCi/g |
| SIB-321-002 | 15.3 | 5/31/89 | Gross beta | | 11 | pCi/g |
| SIB-514-002 | 6.3 | 6/7/89 | Gross beta | < | 11 | pCi/g |
| SIB-WPA-001 | 9.8 | 12/22/89 | Gross beta | | 11 | pCi/g |
| SIB-WPA-002 | 9.5 | 12/22/89 | Gross beta | | 11 | pCi/g |
| SIB-WPA-012 | 9.5 | 12/21/89 | Gross beta | | 11 | pCi/g |
| SIB-WPA-014 | 9.5 | 12/22/89 | Gross beta | | 11 | pCi/g |

| location identifier | depth | sampled | description | < | result | units |
|---------------------|-------|----------|-------------|---|--------|-------|
| SSS-AM-004 | 4 | 4/17/91 | Gross beta | | 11 | pCi/g |
| SSS-DRB-006 | 0 | 4/1/91 | Gross beta | | 11 | pCi/g |
| SSS-DRB-008 | 0 | 4/1/91 | Gross beta | | 11 | pCi/g |
| 833-07 | 6 | 1/16/91 | Gross beta | | 12 | pCi/g |
| SIB-CR-047 | 5.5 | 3/1/90 | Gross beta | | 12 | pCi/g |
| SIB-ETS-004 | 10.8 | 5/10/89 | Gross beta | | 12 | pCi/g |
| SIB-WPA-001 | 4.8 | 12/22/89 | Gross beta | | 12 | pCi/g |
| SIB-WPA-004 | 4.5 | 12/22/89 | Gross beta | | 12 | pCi/g |
| SIB-WPA-015 | 4.5 | 12/22/89 | Gross beta | | 12 | pCi/g |
| SSS-DRB-001 | 0 | 4/1/91 | Gross beta | | 12 | pCi/g |
| SSS-DRB-007 | 0 | 4/1/91 | Gross beta | | 12 | pCi/g |
| 241B-001 | 0 | 5/29/91 | Gross beta | | 13 | pCi/g |
| 833-08 | 6 | 1/22/91 | Gross beta | | 13 | pCi/g |
| 833-09 | 20 | 1/31/91 | Gross beta | | 13 | pCi/g |
| B-461 | 10.5 | 8/9/88 | Gross beta | | 13 | pCi/g |
| B-560 | 7.5 | 1/26/89 | Gross beta | | 13 | pCi/g |
| SIB-CR-047 | 9.5 | 3/1/90 | Gross beta | | 13 | pCi/g |
| SIB-WPA-002 | 4.5 | 12/22/89 | Gross beta | | 13 | pCi/g |
| SIB-WPA-002 | 9.8 | 12/22/89 | Gross beta | | 13 | pCi/g |
| SIB-WPA-003 | 4.5 | 12/22/89 | Gross beta | | 13 | pCi/g |
| SIB-WPA-010 | 9.5 | 12/21/89 | Gross beta | | 13 | pCi/g |
| SIB-WPA-014 | 4.5 | 12/22/89 | Gross beta | | 13 | pCi/g |
| SIB-WPA-014 | 9.5 | 12/22/89 | Gross beta | | 13 | pCi/g |
| SSS-DRB-002 | 0 | 4/1/91 | Gross beta | | 13 | pCi/g |
| SSS-DRB-005 | 0 | 4/1/91 | Gross beta | | 13 | pCi/g |
| U322-R1U1-S | 10.1 | 11/7/89 | Gross beta | | 13 | pCi/g |
| 406D-002 | 0 | 10/22/90 | Gross beta | | 14 | pCi/g |
| 406-ES-04 | 0 | 5/23/91 | Gross beta | | 14 | pCi/g |
| SIB-514-005 | 6.3 | 6/15/89 | Gross beta | | 14 | pCi/g |
| SIB-514-005 | 10.5 | 6/15/89 | Gross beta | | 14 | pCi/g |
| SIB-624-001 | 10.5 | 6/27/91 | Gross beta | | 14 | pCi/g |
| SIB-SD-001 | 0.8 | 4/3/91 | Gross beta | | 14 | pCi/g |
| SIB-SD-006 | 0.8 | 4/3/91 | Gross beta | | 14 | pCi/g |
| SIB-WPA-003 | 9.5 | 12/22/89 | Gross beta | | 14 | pCi/g |
| SIB-WPA-004 | 9.5 | 12/22/89 | Gross beta | | 14 | pCi/g |
| SIB-WPA-005 | 5 | 12/21/89 | Gross beta | | 14 | pCi/g |
| SIB-WPA-006 | 4.8 | 12/21/89 | Gross beta | | 14 | pCi/g |
| SIB-WPA-007 | 5.3 | 12/21/89 | Gross beta | | 14 | pCi/g |
| SIB-WPA-012 | 4.5 | 12/21/89 | Gross beta | | 14 | pCi/g |
| SIB-WPA-013 | 4.8 | 12/22/89 | Gross beta | | 14 | pCi/g |
| SSD-011 | 0.5 | 2/15/89 | Gross beta | | 14 | pCi/g |
| U321-RT-06 | 0 | 6/23/89 | Gross beta | | 14 | pCi/g |
| 406-ES-03 | 0 | 5/23/91 | Gross beta | | 15 | pCi/g |
| 833-06 | 10 | 1/10/91 | Gross beta | | 15 | pCi/g |
| 833-08 | 11.5 | 1/23/91 | Gross beta | | 15 | pCi/g |
| 833-11 | 10.5 | 2/5/91 | Gross beta | | 15 | pCi/g |
| B-464 | 11.8 | 9/20/88 | Gross beta | | 15 | pCi/g |
| B-484 | 11.8 | 9/20/88 | Gross beta | | 15 | pCi/g |

| location identifier | depth | sampled | description | < | result | units |
|---------------------|-------|----------|-------------|---|--------|-------|
| SIB-321-001 | 6 | 5/30/89 | Gross beta | | 15 | pCi/g |
| SIB-514-002 | 10.5 | 6/7/89 | Gross beta | | 15 | pCi/g |
| SIB-CR-029 | 10 | 1/12/90 | Gross beta | | 15 | pCi/g |
| SIB-CR-060 | 9.5 | 2/22/90 | Gross beta | | 15 | pCi/g |
| SIB-SD-002 | 0.8 | 4/3/91 | Gross beta | | 15 | pCi/g |
| SIB-SD-004 | 0.8 | 4/3/91 | Gross beta | | 15 | pCi/g |
| SIB-WPA-005 | 9.5 | 12/21/89 | Gross beta | | 15 | pCi/g |
| SIB-WPA-014 | 4.8 | 12/22/89 | Gross beta | | 15 | pCi/g |
| SSD-013 | 0.5 | 2/15/89 | Gross beta | | 15 | pCi/g |
| TFA-RB-B7 | 0.3 | 12/15/88 | Gross beta | | 15 | pCi/g |
| U241-021 | 15.8 | 5/30/89 | Gross beta | | 15 | pCi/g |
| 406D-001 | 0 | 10/22/90 | Gross beta | | 16 | pCi/g |
| 406D-003 | 0 | 10/22/90 | Gross beta | | 16 | pCi/g |
| 833-09 | 11.3 | 1/31/91 | Gross beta | | 16 | pCi/g |
| B-607 | 5 | 9/1/89 | Gross beta | | 16 | pCi/g |
| SIB-514-005 | 15.5 | 6/15/89 | Gross beta | | 16 | pCi/g |
| SIB-CR-029 | 5 | 2/14/90 | Gross beta | | 16 | pCi/g |
| SIB-ETS-002 | 11.3 | 5/8/89 | Gross beta | | 16 | pCi/g |
| SIB-WPA-007 | 9.8 | 12/21/89 | Gross beta | | 16 | pCi/g |
| SIB-WPA-010 | 5 | 12/21/89 | Gross beta | | 16 | pCi/g |
| SIB-WPA-013 | 9.5 | 12/22/89 | Gross beta | | 16 | pCi/g |
| TFA-RB-B5 | 0.3 | 12/22/89 | Gross beta | | 16 | pCi/g |
| TFA-RB-B6 | 1 | 12/15/88 | Gross beta | | 16 | pCi/g |
| TFA-RB-B6 | 1 | 12/22/89 | Gross beta | | 16 | pCi/g |
| TFA-RB-B8 | 1 | 12/15/88 | Gross beta | | 16 | pCi/g |
| U161-BAC-NW1 | 1 | 11/8/89 | Gross beta | | 16 | pCi/g |
| 835-01 | 11 | 1/29/91 | Gross beta | | 17 | pCi/g |
| SIB-321-002 | 5.8 | 5/31/89 | Gross beta | | 17 | pCi/g |
| SIB-624-001 | 15 | 6/27/91 | Gross beta | | 17 | pCi/g |
| SIB-CR-066 | 5.5 | 2/22/90 | Gross beta | | 17 | pCi/g |
| SIB-CR-066 | 9.5 | 2/22/90 | Gross beta | | 17 | pCi/g |
| SIB-SD-005 | 0.8 | 4/3/91 | Gross beta | | 17 | pCi/g |
| SSD-008 | 0.5 | 2/15/89 | Gross beta | | 17 | pCi/g |
| SSS-002 | 0.5 | 4/12/89 | Gross beta | | 17 | pCi/g |
| TFA-RB-B2 | 0 | 12/22/89 | Gross beta | | 17 | pCi/g |
| TFA-RB-B7 | 0.3 | 12/22/89 | Gross beta | | 17 | pCi/g |
| U401-ES123 | 1 | 4/3/89 | Gross beta | | 17 | pCi/g |
| B-502 | 7 | 10/17/88 | Gross beta | | 18 | pCi/g |
| SIB-CR-063 | 9.5 | 2/22/90 | Gross beta | | 18 | pCi/g |
| SSD-001 | 0.5 | 2/7/89 | Gross beta | | 18 | pCi/g |
| SSS-010 | 0.5 | 4/12/89 | Gross beta | | 18 | pCi/g |
| TFA-RB-B1 | 0.3 | 12/15/88 | Gross beta | | 18 | pCi/g |
| TFA-RB-B3 | 0.3 | 12/15/88 | Gross beta | | 18 | pCi/g |
| TFA-RB-B4 | 1 | 12/22/89 | Gross beta | | 18 | pCi/g |
| 833-06 | 5 | 1/10/91 | Gross beta | | 19 | pCi/g |
| 835-02 | 10.8 | 1/30/91 | Gross beta | | 19 | pCi/g |
| B-565 | 14.5 | 4/3/89 | Gross beta | | 19 | pCi/g |
| B-611 | 10.8 | 3/26/90 | Gross beta | | 19 | pCi/g |

| location identifier | depth | sampled | description | < | result | units |
|---------------------|-------|----------|-------------|--------------------|--------|-------|
| SIB-321-001 | 16 | 5/30/89 | Gross beta | | 19 | pCi/g |
| SIB-624-001 | 2.5 | 6/26/91 | Gross beta | | 19 | pCi/g |
| SIB-CR-060 | 5.5 | 2/22/90 | Gross beta | | 19 | pCi/g |
| SIB-SD-003 | 1 | 4/4/91 | Gross beta | | 19 | pCi/g |
| SIB-WPA-011 | 5.3 | 12/21/89 | Gross beta | | 19 | pCi/g |
| SSS-003 | 0.5 | 4/12/89 | Gross beta | | 19 | pCi/g |
| SSS-004 | 0.5 | 4/12/89 | Gross beta | | 19 | pCi/g |
| TCO1 | 0.5 | 5/4/91 | Gross beta | < | 19 | pCi/g |
| TCO2 | 0.5 | 5/4/91 | Gross beta | < | 19 | pCi/g |
| TCO2 | 3.7 | 5/4/91 | Gross beta | < | 19 | pCi/g |
| TCO2 | 3.8 | 5/4/91 | Gross beta | < | 19 | pCi/g |
| TFA-RB-B5 | 0.3 | 12/15/88 | Gross beta | | 19 | pCi/g |
| TFA-RB-B8 | 1 | 12/22/89 | Gross beta | | 19 | pCi/g |
| U161-UPL-NW1 | 1 | 11/8/89 | Gross beta | | 19 | pCi/g |
| U241-021 | 5.3 | 5/30/89 | Gross beta | | 19 | pCi/g |
| B-561 | 7.3 | 2/14/89 | Gross beta | | 20 | pCi/g |
| SIB-624-001 | 19.7 | 6/27/91 | Gross beta | | 20 | pCi/g |
| SIB-WPA-011 | 9.8 | 12/21/89 | Gross beta | | 20 | pCi/g |
| SSD-010 | 0.5 | 2/15/89 | Gross beta | | 20 | pCi/g |
| SSS-006 | 0.5 | 4/12/89 | Gross beta | | 20 | pCi/g |
| TFA-RB-B1 | 0.3 | 12/22/89 | Gross beta | | 20 | pCi/g |
| U161-UPL-NW1 | 2 | 11/8/89 | Gross beta | | 20 | pCi/g |
| B-561 | 11.5 | 2/14/89 | Gross beta | | 21 | pCi/g |
| SIB-CR-063 | 5.5 | 2/22/90 | Gross beta | | 21 | pCi/g |
| SIB-ETS-003 | 10.3 | 5/8/89 | Gross beta | | 21 | pCi/g |
| SSS-001 | 0.5 | 4/12/89 | Gross beta | | 21 | pCi/g |
| TFA-RB-B2 | 1 | 12/15/88 | Gross beta | | 21 | pCi/g |
| B-502 | 19.3 | 10/18/88 | Gross beta | | 22 | pCi/g |
| B-SAS-011 | 0.5 | 2/7/89 | Gross beta | | 22 | pCi/g |
| SIB-321-001 | 11 | 5/30/89 | Gross beta | | 22 | pCi/g |
| SSS-005 | 0.5 | 4/12/89 | Gross beta | | 22 | pCi/g |
| TCO3 | 0.7 | 5/4/91 | Gross beta | | 22 | pCi/g |
| TFA-RB-B3 | 0.3 | 12/22/89 | Gross beta | | 22 | pCi/g |
| TFA-RB-B4 | 1 | 12/15/88 | Gross beta | | 22 | pCi/g |
| U321-RT-05 | 0 | 6/23/89 | Gross beta | | 22 | pCi/g |
| B-570 | 14.3 | 5/22/89 | Gross beta | | 23 | pCi/g |
| SSS-007 | 0.5 | 4/12/89 | Gross beta | | 25 | pCi/g |
| SSS-009 | 0.5 | 4/12/89 | Gross beta | | 26 | pCi/g |
| U241-021 | 10.5 | 5/30/89 | Gross beta | | 27 | pCi/g |
| SAP-001 | 0.5 | 2/7/89 | Gross beta | | 32 | pCi/g |
| | | | | N | 181 | |
| | | | | mean | 14.4 | |
| | | | | stdev | 5.15 | |
| | | | | mean plus 2 SD | 24.7 | |
| | | | | 95%ile | 22 | |
| | | | | 95th utl rank | 177.3 | |
| | | | | 95th ucl of 95%ile | 22.0 | |

| location identifier | depth | sampled | description | < value | units |
|----------------------------|-------|----------|-------------|----------|-------|
| LIVERMORE SITE GROSS ALPHA | | | | | |
| PC-B292-001 | 2 | 7/21/97 | Gross alpha | < -0.93 | pCi/g |
| PC-B315-001 | 0 | 4/23/96 | Gross alpha | < -0.486 | pCi/g |
| PC-B232-002 | 1.5 | 3/29/96 | Gross alpha | < 0.0005 | pCi/g |
| PC-B481-004 | 2 | 6/10/96 | Gross alpha | < 0.0816 | pCi/g |
| PC-B171-002 | 3 | 4/26/05 | Gross alpha | < 0.14 | pCi/g |
| PC-B321-006 | 1 | 1/30/97 | Gross alpha | < 0.14 | pCi/g |
| PC-NIF-001 | 12 | 8/26/96 | Gross alpha | < 0.288 | pCi/g |
| PC-T2475-001 | 3 | 4/15/02 | Gross alpha | < 0.29 | pCi/g |
| PC-B321-035 | 1 | 11/4/97 | Gross alpha | < 0.3 | pCi/g |
| PC-B153-008 | 4 | 8/24/05 | Gross alpha | < 0.33 | pCi/g |
| PC-B292-002 | 1 | 7/21/97 | Gross alpha | < 0.34 | pCi/g |
| PC-B151-002 | 1 | 10/13/04 | Gross alpha | < 0.44 | pCi/g |
| PC-B222-013 | 2 | 9/20/04 | Gross alpha | < 0.47 | pCi/g |
| PC-B222-015 | 2 | 9/20/04 | Gross alpha | < 0.47 | pCi/g |
| PC-B222-009 | 2 | 9/20/04 | Gross alpha | < 0.51 | pCi/g |
| PC-B512-005 | 4 | 7/24/03 | Gross alpha | < 0.52 | pCi/g |
| PC-B131-011 | 1 | 12/1/03 | Gross alpha | < 0.54 | pCi/g |
| PC-B222-004 | 1.5 | 12/22/03 | Gross alpha | < 0.58 | pCi/g |
| PC-B412-002 | 0.5 | 9/6/05 | Gross alpha | < 0.66 | pCi/g |
| PC-B325-011 | 5 | 11/9/04 | Gross alpha | < 0.69 | pCi/g |
| PC-B445-005 | 1 | 10/9/06 | Gross alpha | < 0.69 | pCi/g |
| PC-B222-014 | 2 | 9/20/04 | Gross alpha | < 0.74 | pCi/g |
| PC-B321-017 | 6 | 4/19/05 | Gross alpha | < 0.76 | pCi/g |
| PC-B332-049 | 0 | 9/9/99 | Gross alpha | < 0.79 | pCi/g |
| PC-B445-007 | 1 | 10/9/06 | Gross alpha | < 0.8 | pCi/g |
| PC-B623-002 | 14 | 5/1/06 | Gross alpha | < 0.81 | pCi/g |
| PC-B177-001 | 1 | 3/9/98 | Gross alpha | < 0.83 | pCi/g |
| PC-B174-001 | 1.5 | 2/18/97 | Gross alpha | < 0.85 | pCi/g |
| PC-T6498-010 | 3 | 11/10/05 | Gross alpha | < 0.86 | pCi/g |
| PC-T3520-002 | 0 | 1/3/00 | Gross alpha | < 0.89 | pCi/g |
| PC-B321C-019 | 25 | 10/13/05 | Gross alpha | < 0.92 | pCi/g |
| PC-B445-002 | 1 | 10/9/06 | Gross alpha | < 0.95 | pCi/g |
| PC-B212-016 | 4 | 1/24/06 | Gross alpha | < 1 | pCi/g |
| PC-B314-001 | 0.5 | 4/1/99 | Gross alpha | < 1 | pCi/g |
| PC-B551-004 | 1 | 7/16/99 | Gross alpha | < 1 | pCi/g |
| PC-NIF-004 | 12 | 8/26/96 | Gross alpha | < 1.05 | pCi/g |
| PC-ASW-002 | 14 | 1/22/04 | Gross alpha | < 1.1 | pCi/g |
| PC-B222-008 | 1.5 | 12/22/03 | Gross alpha | < 1.1 | pCi/g |
| PC-B321C-020 | 25 | 10/13/05 | Gross alpha | < 1.1 | pCi/g |
| PC-B321C-021 | 0 | 10/20/05 | Gross alpha | < 1.1 | pCi/g |
| PC-B445-004 | 1 | 10/9/06 | Gross alpha | < 1.1 | pCi/g |
| PC-T1478-001 | 0.5 | 7/22/03 | Gross alpha | < 1.1 | pCi/g |
| PC-B321-001 | 1 | 8/6/96 | Gross alpha | < 1.15 | pCi/g |
| PC-B171-004 | 1 | 9/19/05 | Gross alpha | < 1.2 | pCi/g |
| PC-B321-021 | 2 | 9/20/05 | Gross alpha | < 1.2 | pCi/g |
| PC-B424-005 | 8 | 4/18/00 | Gross alpha | < 1.2 | pCi/g |
| PC-B431-016 | 1.5 | 7/6/05 | Gross alpha | < 1.2 | pCi/g |

| location identifier | depth | sampled | description | < value | units |
|---------------------|-------|----------|-------------|---------|------------|
| PC-B611-002 | 0.5 | 7/26/00 | Gross alpha | < | 1.2 pCi/g |
| PC-NIF-003 | 12 | 8/26/96 | Gross alpha | < | 1.2 pCi/g |
| PC-T1888-001 | 1.5 | 10/1/01 | Gross alpha | < | 1.2 pCi/g |
| PC-NIF-010 | 12 | 8/26/96 | Gross alpha | < | 1.24 pCi/g |
| PC-B212-015 | 4 | 12/16/05 | Gross alpha | < | 1.3 pCi/g |
| PC-B431-012 | 1 | 1/22/01 | Gross alpha | | 1.3 pCi/g |
| PC-B445-003 | 1 | 10/9/06 | Gross alpha | < | 1.3 pCi/g |
| PC-B445-006 | 1 | 10/9/06 | Gross alpha | | 1.3 pCi/g |
| PC-B125-001 | 0 | 1/13/99 | Gross alpha | < | 1.4 pCi/g |
| PC-B194-001 | 0 | 4/10/95 | Gross alpha | < | 1.4 pCi/g |
| PC-B212-013 | 0 | 12/2/97 | Gross alpha | < | 1.4 pCi/g |
| PC-B232-004 | 5 | 6/28/05 | Gross alpha | | 1.4 pCi/g |
| PC-B232-008 | 1 | 10/5/05 | Gross alpha | < | 1.4 pCi/g |
| PC-B623-001 | 7 | 5/1/06 | Gross alpha | | 1.4 pCi/g |
| PC-T6498-002 | 0.5 | 6/21/04 | Gross alpha | < | 1.4 pCi/g |
| PC-T6498-007 | 3 | 11/10/05 | Gross alpha | < | 1.4 pCi/g |
| PC-TFE-007 | 3 | 7/7/05 | Gross alpha | < | 1.4 pCi/g |
| PC-TF518-002 | 0 | 2/15/96 | Gross alpha | < | 1.44 pCi/g |
| PC-B232-003 | 1.5 | 3/29/96 | Gross alpha | | 1.48 pCi/g |
| PC-B212-014 | 4 | 11/28/05 | Gross alpha | < | 1.5 pCi/g |
| PC-B212-017 | 3 | 3/1/06 | Gross alpha | < | 1.5 pCi/g |
| PC-B231-026 | 3 | 12/17/04 | Gross alpha | < | 1.5 pCi/g |
| PC-B321-020 | 5 | 9/20/05 | Gross alpha | < | 1.5 pCi/g |
| PC-B325-010 | 5 | 11/9/04 | Gross alpha | < | 1.5 pCi/g |
| PC-B368-001 | 3 | 2/13/04 | Gross alpha | < | 1.5 pCi/g |
| PC-B431-008 | 2 | 4/26/95 | Gross alpha | < | 1.5 pCi/g |
| PC-B514-007 | 2 | 2/7/06 | Gross alpha | < | 1.5 pCi/g |
| PC-B551-005 | 1 | 7/16/99 | Gross alpha | | 1.5 pCi/g |
| PC-DWTF-116 | 8 | 7/20/95 | Gross alpha | < | 1.5 pCi/g |
| PC-T1739-001 | 3 | 3/30/06 | Gross alpha | < | 1.5 pCi/g |
| PC-NIF-008 | 12 | 8/26/96 | Gross alpha | < | 1.51 pCi/g |
| PC-B216-001 | 0 | 3/8/96 | Gross alpha | < | 1.54 pCi/g |
| PC-NIF-009 | 12 | 8/26/96 | Gross alpha | < | 1.57 pCi/g |
| PC-B131-013 | 3 | 5/26/06 | Gross alpha | < | 1.6 pCi/g |
| PC-B171-001 | 3 | 4/26/05 | Gross alpha | < | 1.6 pCi/g |
| PC-B171-005 | 1 | 9/19/05 | Gross alpha | < | 1.6 pCi/g |
| PC-B171-006 | 1 | 9/19/05 | Gross alpha | < | 1.6 pCi/g |
| PC-B178-001 | 3 | 6/12/06 | Gross alpha | < | 1.6 pCi/g |
| PC-B198-001 | 1 | 2/11/97 | Gross alpha | < | 1.6 pCi/g |
| PC-B254-001 | 1 | 2/27/95 | Gross alpha | < | 1.6 pCi/g |
| PC-B254-003 | 1 | 2/27/95 | Gross alpha | | 1.6 pCi/g |
| PC-B404-003 | 2 | 2/16/95 | Gross alpha | < | 1.6 pCi/g |
| PC-B443-001 | 0 | 7/10/97 | Gross alpha | < | 1.6 pCi/g |
| PC-B445-001 | 0 | 3/25/98 | Gross alpha | < | 1.6 pCi/g |
| PC-B511-008 | 4 | 2/21/06 | Gross alpha | < | 1.6 pCi/g |
| PC-DWTF-126 | 1 | 7/20/95 | Gross alpha | < | 1.6 pCi/g |
| PC-DWTF-127 | 1 | 7/20/95 | Gross alpha | < | 1.6 pCi/g |
| PC-DWTF-128 | 0 | 7/20/95 | Gross alpha | < | 1.6 pCi/g |
| PC-ERD-002 | 0 | 8/7/95 | Gross alpha | < | 1.6 pCi/g |

| location identifier | depth | sampled | description | < value | units |
|---------------------|-------|----------|-------------|---------|------------|
| PC-T1888-001 | 1.5 | 10/1/01 | Gross alpha | < | 1.6 pCi/g |
| PC-B231-022 | 2 | 5/14/96 | Gross alpha | | 1.64 pCi/g |
| PC-B218-001 | 0 | 11/22/96 | Gross alpha | < | 1.65 pCi/g |
| PC-ASW-002 | 7 | 1/22/04 | Gross alpha | < | 1.7 pCi/g |
| PC-B132-034 | 2 | 5/29/97 | Gross alpha | < | 1.7 pCi/g |
| PC-B222-006 | 1.5 | 12/22/03 | Gross alpha | < | 1.7 pCi/g |
| PC-B222-011 | 2 | 9/20/04 | Gross alpha | < | 1.7 pCi/g |
| PC-B251-001 | 2 | 4/29/02 | Gross alpha | | 1.7 pCi/g |
| PC-B254-002 | 1 | 2/27/95 | Gross alpha | < | 1.7 pCi/g |
| PC-B332-030 | 0 | 5/19/95 | Gross alpha | < | 1.7 pCi/g |
| PC-B404-004 | 2 | 2/16/95 | Gross alpha | < | 1.7 pCi/g |
| PC-B431-013 | 0.5 | 7/6/05 | Gross alpha | < | 1.7 pCi/g |
| PC-B512-006 | 4 | 2/21/06 | Gross alpha | < | 1.7 pCi/g |
| PC-B551-008 | 4 | 7/13/99 | Gross alpha | | 1.7 pCi/g |
| PC-DWTF-120 | 10 | 7/20/95 | Gross alpha | < | 1.7 pCi/g |
| PC-TFC-001 | 0 | 5/23/95 | Gross alpha | < | 1.7 pCi/g |
| PC-NIF-013 | 12 | 8/26/96 | Gross alpha | < | 1.71 pCi/g |
| PC-B381-001 | 0 | 5/3/96 | Gross alpha | < | 1.77 pCi/g |
| PC-6425-011 | 0 | 4/26/95 | Gross alpha | < | 1.8 pCi/g |
| PC-B298-006 | 3 | 11/20/97 | Gross alpha | | 1.8 pCi/g |
| PC-B323-005 | 0 | 7/10/97 | Gross alpha | < | 1.8 pCi/g |
| PC-B332-031 | 0 | 5/19/95 | Gross alpha | | 1.8 pCi/g |
| PC-B361-014 | 1 | 2/24/97 | Gross alpha | < | 1.8 pCi/g |
| PC-B404-001 | 0.5 | 2/16/95 | Gross alpha | | 1.8 pCi/g |
| PC-B419-004 | 4 | 2/21/06 | Gross alpha | < | 1.8 pCi/g |
| PC-B431-009 | 2 | 4/26/95 | Gross alpha | < | 1.8 pCi/g |
| PC-B514-004 | 4 | 8/11/04 | Gross alpha | < | 1.8 pCi/g |
| PC-B697-002 | 1 | 9/7/04 | Gross alpha | < | 1.8 pCi/g |
| PC-DWTF-117 | 10 | 7/20/95 | Gross alpha | < | 1.8 pCi/g |
| PC-B219-001 | 1 | 6/3/98 | Gross alpha | | 1.9 pCi/g |
| PC-B231-011 | 0 | 6/22/95 | Gross alpha | < | 1.9 pCi/g |
| PC-B241-004 | 2 | 5/31/95 | Gross alpha | | 1.9 pCi/g |
| PC-B298-003 | 3 | 11/20/97 | Gross alpha | | 1.9 pCi/g |
| PC-B321-014 | 2 | 6/18/04 | Gross alpha | < | 1.9 pCi/g |
| PC-B332-025 | 2 | 5/15/95 | Gross alpha | | 1.9 pCi/g |
| PC-B332-026 | 2 | 5/15/95 | Gross alpha | < | 1.9 pCi/g |
| PC-B431-010 | 0 | 7/10/97 | Gross alpha | | 1.9 pCi/g |
| PC-B438-005 | 6 | 5/8/01 | Gross alpha | | 1.9 pCi/g |
| PC-DWTF-115 | 5 | 7/20/95 | Gross alpha | < | 1.9 pCi/g |
| PC-DWTF-125 | 1 | 7/20/95 | Gross alpha | < | 1.9 pCi/g |
| PC-T2685-001 | 1.5 | 9/12/01 | Gross alpha | | 1.9 pCi/g |
| PC-B231-021 | 2 | 5/14/96 | Gross alpha | | 1.91 pCi/g |
| PC-T2775-001 | 0 | 3/20/96 | Gross alpha | | 1.97 pCi/g |
| PC-B323-001 | 0 | 1/21/96 | Gross alpha | | 1.98 pCi/g |
| PC-B132-035 | 1 | 7/1/97 | Gross alpha | < | 2 pCi/g |
| PC-B140-012 | 4 | 8/28/01 | Gross alpha | | 2 pCi/g |
| PC-B141-002 | 4 | 4/26/95 | Gross alpha | < | 2 pCi/g |
| PC-B222-007 | 1.5 | 12/22/03 | Gross alpha | < | 2 pCi/g |
| PC-B232-006 | 1 | 10/5/05 | Gross alpha | < | 2 pCi/g |

| location identifier | depth | sampled | description | < | value | units |
|---------------------|-------|----------|-------------|---|-------|-------|
| PC-B255-001 | 0 | 8/31/99 | Gross alpha | | 2 | pCi/g |
| PC-B412-005 | 0.5 | 10/3/05 | Gross alpha | < | 2 | pCi/g |
| PC-B451-001 | 6 | 1/27/98 | Gross alpha | | 2 | pCi/g |
| PC-B543-001 | 0 | 2/24/99 | Gross alpha | | 2 | pCi/g |
| PC-DWTF-120 | 10 | 7/20/95 | Gross alpha | | 2 | pCi/g |
| PC-NIF-012 | 12 | 8/26/96 | Gross alpha | < | 2 | pCi/g |
| PC-B233-001 | 0 | 8/7/96 | Gross alpha | < | 2.02 | pCi/g |
| PC-B117-004 | 1 | 7/26/00 | Gross alpha | | 2.1 | pCi/g |
| PC-B222-005 | 1.5 | 12/22/03 | Gross alpha | < | 2.1 | pCi/g |
| PC-B231-021 | 0 | 11/14/95 | Gross alpha | < | 2.1 | pCi/g |
| PC-B243-002 | 0 | 4/24/95 | Gross alpha | < | 2.1 | pCi/g |
| PC-B298-005 | 3 | 11/20/97 | Gross alpha | | 2.1 | pCi/g |
| PC-B298-008 | 1 | 11/25/97 | Gross alpha | | 2.1 | pCi/g |
| PC-B514-005 | 3 | 7/7/05 | Gross alpha | < | 2.1 | pCi/g |
| PC-B592-003 | 6 | 2/5/99 | Gross alpha | | 2.1 | pCi/g |
| PC-B622-002 | 7 | 11/20/06 | Gross alpha | < | 2.1 | pCi/g |
| PC-NIF-104 | 6 | 2/12/97 | Gross alpha | | 2.1 | pCi/g |
| PC-4182-001 | 0 | 11/21/97 | Gross alpha | | 2.2 | pCi/g |
| PC-B140-018 | 3 | 8/29/01 | Gross alpha | | 2.2 | pCi/g |
| PC-B232-007 | 1 | 10/5/05 | Gross alpha | < | 2.2 | pCi/g |
| PC-B241-003 | 4 | 5/31/95 | Gross alpha | | 2.2 | pCi/g |
| PC-B298-010 | 1 | 11/25/97 | Gross alpha | | 2.2 | pCi/g |
| PC-B332-057 | 1 | 5/16/06 | Gross alpha | < | 2.2 | pCi/g |
| PC-B451-002 | 2 | 1/27/98 | Gross alpha | | 2.2 | pCi/g |
| PC-B551-002 | 1 | 7/13/99 | Gross alpha | | 2.2 | pCi/g |
| PC-B592-005 | 0 | 8/9/99 | Gross alpha | | 2.2 | pCi/g |
| PC-B612-014 | 3 | 1/8/98 | Gross alpha | | 2.2 | pCi/g |
| PC-B697-001 | 1 | 9/7/04 | Gross alpha | < | 2.2 | pCi/g |
| PC-T5977-001 | 4 | 11/21/95 | Gross alpha | < | 2.2 | pCi/g |
| PC-B151-003 | 1 | 10/13/04 | Gross alpha | < | 2.3 | pCi/g |
| PC-B191-005 | 1 | 4/29/02 | Gross alpha | | 2.3 | pCi/g |
| PC-B231-019 | 0 | 11/14/95 | Gross alpha | < | 2.3 | pCi/g |
| PC-B233-002 | 1 | 3/6/97 | Gross alpha | | 2.3 | pCi/g |
| PC-B319-001 | 4 | 9/9/03 | Gross alpha | < | 2.3 | pCi/g |
| PC-B321-008 | 3 | 7/2/02 | Gross alpha | < | 2.3 | pCi/g |
| PC-B332-028 | 2 | 5/15/95 | Gross alpha | | 2.3 | pCi/g |
| PC-B368-003 | 3 | 2/13/04 | Gross alpha | < | 2.3 | pCi/g |
| PC-B511-005 | 2 | 11/17/03 | Gross alpha | < | 2.3 | pCi/g |
| PC-B691-003 | 1 | 10/16/97 | Gross alpha | | 2.3 | pCi/g |
| PC-T1629-001 | 1.5 | 9/25/01 | Gross alpha | | 2.3 | pCi/g |
| PC-T6179-001 | 1 | 12/11/98 | Gross alpha | | 2.3 | pCi/g |
| PC-WGTC-002 | 1 | 3/7/05 | Gross alpha | < | 2.3 | pCi/g |
| PC-NIF-014 | 12 | 8/26/96 | Gross alpha | < | 2.35 | pCi/g |
| PC-B511-001 | 2 | 6/25/96 | Gross alpha | < | 2.37 | pCi/g |
| PC-B140-002 | 5.5 | 8/28/01 | Gross alpha | | 2.4 | pCi/g |
| PC-B194-006 | 4 | 8/1/00 | Gross alpha | | 2.4 | pCi/g |
| PC-B211-004 | 2 | 10/9/97 | Gross alpha | | 2.4 | pCi/g |
| PC-B231-009 | 0 | 6/22/95 | Gross alpha | | 2.4 | pCi/g |
| PC-B231-013 | 0 | 10/25/95 | Gross alpha | < | 2.4 | pCi/g |

| location identifier | depth | sampled | description | < | value | units |
|---------------------|-------|----------|-------------|---|-------|-------|
| PC-B321-006 | 1 | 3/6/97 | Gross alpha | | 2.4 | pCi/g |
| PC-B332-042 | 0 | 12/11/95 | Gross alpha | | 2.4 | pCi/g |
| PC-B412-004 | 0.5 | 9/6/05 | Gross alpha | < | 2.4 | pCi/g |
| PC-B418-006 | 4 | 2/21/06 | Gross alpha | < | 2.4 | pCi/g |
| PC-T3427-001 | 0 | 7/30/98 | Gross alpha | | 2.4 | pCi/g |
| PC-T5904-001 | 1 | 12/16/97 | Gross alpha | | 2.4 | pCi/g |
| PC-TFD-010 | 0 | 5/10/99 | Gross alpha | | 2.4 | pCi/g |
| PC-B111-003 | 1 | 7/29/98 | Gross alpha | | 2.5 | pCi/g |
| PC-B140-001 | 5.5 | 8/28/01 | Gross alpha | | 2.5 | pCi/g |
| PC-B140-004 | 5.5 | 8/28/01 | Gross alpha | | 2.5 | pCi/g |
| PC-B154-001 | 5 | 12/18/00 | Gross alpha | | 2.5 | pCi/g |
| PC-B231-016 | 0 | 10/25/95 | Gross alpha | < | 2.5 | pCi/g |
| PC-B235-002 | 1 | 5/3/99 | Gross alpha | | 2.5 | pCi/g |
| PC-B312-001 | 0 | 2/19/98 | Gross alpha | | 2.5 | pCi/g |
| PC-B439-002 | 0 | 3/30/99 | Gross alpha | | 2.5 | pCi/g |
| PC-B511-004 | 3 | 2/28/01 | Gross alpha | | 2.5 | pCi/g |
| PC-M&O-001 | 5 | 8/23/99 | Gross alpha | | 2.5 | pCi/g |
| PC-NIF-006 | 12 | 8/26/96 | Gross alpha | | 2.53 | pCi/g |
| PC-NIF-014 | 12 | 8/26/96 | Gross alpha | | 2.59 | pCi/g |
| PC-4298-001 | 0 | 7/10/97 | Gross alpha | | 2.6 | pCi/g |
| PC-B232-004 | 5 | 6/28/05 | Gross alpha | < | 2.6 | pCi/g |
| PC-B404-002 | 2 | 2/16/95 | Gross alpha | | 2.6 | pCi/g |
| PC-DWTF-121 | 10 | 7/20/95 | Gross alpha | | 2.6 | pCi/g |
| PC-W404-001 | 0.5 | 6/28/06 | Gross alpha | < | 2.6 | pCi/g |
| PC-B622-001 | 0 | 5/29/96 | Gross alpha | < | 2.64 | pCi/g |
| PC-NIF-007 | 12 | 8/26/96 | Gross alpha | | 2.65 | pCi/g |
| PC-B123-001 | 2 | 3/6/98 | Gross alpha | | 2.7 | pCi/g |
| PC-B153-007 | 3 | 4/8/03 | Gross alpha | | 2.7 | pCi/g |
| PC-B154-002 | 5 | 12/18/00 | Gross alpha | | 2.7 | pCi/g |
| PC-B169-100 | 0 | 2/24/95 | Gross alpha | | 2.7 | pCi/g |
| PC-B194-007 | 1 | 1/19/01 | Gross alpha | | 2.7 | pCi/g |
| PC-B231-026 | 3 | 12/17/04 | Gross alpha | < | 2.7 | pCi/g |
| PC-B256-001 | 0 | 10/2/97 | Gross alpha | | 2.7 | pCi/g |
| PC-B321-010 | 4.5 | 2/27/03 | Gross alpha | < | 2.7 | pCi/g |
| PC-B332-043 | 0 | 12/11/95 | Gross alpha | | 2.7 | pCi/g |
| PC-B368-002 | 3 | 2/13/04 | Gross alpha | < | 2.7 | pCi/g |
| PC-B412-003 | 0.5 | 9/6/05 | Gross alpha | < | 2.7 | pCi/g |
| PC-B419-005 | 4 | 2/21/06 | Gross alpha | < | 2.7 | pCi/g |
| PC-B551-003 | 1 | 7/13/99 | Gross alpha | | 2.7 | pCi/g |
| PC-B551-007 | 1 | 7/16/99 | Gross alpha | | 2.7 | pCi/g |
| PC-T3527-001 | 3 | 9/20/06 | Gross alpha | | 2.7 | pCi/g |
| PC-T6498-004 | 0.5 | 6/21/04 | Gross alpha | < | 2.7 | pCi/g |
| PC-T6498-011 | 3 | 11/10/05 | Gross alpha | < | 2.7 | pCi/g |
| PC-B140-005 | 5.5 | 8/28/01 | Gross alpha | | 2.8 | pCi/g |
| PC-B140-011 | 4 | 8/28/01 | Gross alpha | | 2.8 | pCi/g |
| PC-B222-016 | 2 | 9/27/04 | Gross alpha | < | 2.8 | pCi/g |
| PC-B232-005 | 1.5 | 10/5/05 | Gross alpha | < | 2.8 | pCi/g |
| PC-B239-001 | 1 | 9/18/97 | Gross alpha | | 2.8 | pCi/g |
| PC-B253-001 | 3.5 | 9/28/05 | Gross alpha | < | 2.8 | pCi/g |

| location identifier | depth | sampled | description | < | value | units |
|---------------------|-------|----------|-------------|---|-------|-------|
| PC-B282-002 | 4 | 11/21/06 | Gross alpha | < | 2.8 | pCi/g |
| PC-B292-010 | 0.5 | 10/20/99 | Gross alpha | | 2.8 | pCi/g |
| PC-B298-012 | 1 | 11/25/97 | Gross alpha | | 2.8 | pCi/g |
| PC-B332-046 | 0 | 9/10/98 | Gross alpha | | 2.8 | pCi/g |
| PC-B332-052 | 0 | 2/14/00 | Gross alpha | | 2.8 | pCi/g |
| PC-B412-006 | 0.5 | 9/6/05 | Gross alpha | < | 2.8 | pCi/g |
| PC-B431-011 | 1 | 2/19/99 | Gross alpha | | 2.8 | pCi/g |
| PC-B515-001 | 0 | 4/28/99 | Gross alpha | | 2.8 | pCi/g |
| PC-B611-001 | 1 | 2/9/98 | Gross alpha | | 2.8 | pCi/g |
| PC-DWTF-125 | 0 | 7/20/95 | Gross alpha | | 2.8 | pCi/g |
| PC-T3520-001 | 1 | 7/13/99 | Gross alpha | | 2.8 | pCi/g |
| PC-TF518-003 | 0 | 10/30/97 | Gross alpha | | 2.8 | pCi/g |
| PC-B216-002 | 0 | 3/8/96 | Gross alpha | | 2.88 | pCi/g |
| PC-B361-015 | 2 | 7/23/03 | Gross alpha | | 2.9 | pCi/g |
| PC-B438-001 | 0 | 7/28/99 | Gross alpha | | 2.9 | pCi/g |
| PC-T4725-002 | 5 | 4/17/03 | Gross alpha | | 2.9 | pCi/g |
| PC-DWTF-102 | 0 | 7/13/95 | Gross alpha | | 2.95 | pCi/g |
| PC-DWTF-111 | 1 | 7/20/95 | Gross alpha | | 2.95 | pCi/g |
| PC-B140-008 | 4 | 8/28/01 | Gross alpha | | 3 | pCi/g |
| PC-B140-010 | 4 | 8/28/01 | Gross alpha | | 3 | pCi/g |
| PC-B140-014 | 2.5 | 8/29/01 | Gross alpha | | 3 | pCi/g |
| PC-B140-020 | 3 | 8/29/01 | Gross alpha | | 3 | pCi/g |
| PC-B194-002 | 0 | 4/10/95 | Gross alpha | | 3 | pCi/g |
| PC-B231-025 | 3 | 12/17/04 | Gross alpha | < | 3 | pCi/g |
| PC-B261-002 | 5 | 11/21/05 | Gross alpha | < | 3 | pCi/g |
| PC-B298-007 | 1 | 11/25/97 | Gross alpha | | 3 | pCi/g |
| PC-B298-009 | 1 | 11/25/97 | Gross alpha | | 3 | pCi/g |
| PC-B332-045 | 0 | 7/10/97 | Gross alpha | | 3 | pCi/g |
| PC-B364-002 | 1 | 10/12/98 | Gross alpha | | 3 | pCi/g |
| PC-DWTF-118 | 10 | 7/20/95 | Gross alpha | | 3 | pCi/g |
| PC-T2629-004 | 1 | 10/14/03 | Gross alpha | | 3 | pCi/g |
| PC-DWTF-113 | 1 | 7/20/95 | Gross alpha | | 3.02 | pCi/g |
| PC-B140-013 | 2.5 | 8/28/01 | Gross alpha | | 3.1 | pCi/g |
| PC-B178-002 | 3 | 6/12/06 | Gross alpha | | 3.1 | pCi/g |
| PC-B235-001 | 1 | 5/3/99 | Gross alpha | | 3.1 | pCi/g |
| PC-B239-001 | 0 | 8/6/97 | Gross alpha | | 3.1 | pCi/g |
| PC-B243-003 | 2 | 7/22/03 | Gross alpha | | 3.1 | pCi/g |
| PC-B256-005 | 0.5 | 4/15/05 | Gross alpha | < | 3.1 | pCi/g |
| PC-B391-009 | 6 | 5/8/01 | Gross alpha | | 3.1 | pCi/g |
| PC-B512-004 | 0.5 | 10/26/99 | Gross alpha | | 3.1 | pCi/g |
| PC-B691-004 | 0 | 8/9/99 | Gross alpha | | 3.1 | pCi/g |
| PC-T5475-005 | 4 | 1/9/06 | Gross alpha | | 3.1 | pCi/g |
| PC-T5625-001 | 1 | 11/12/98 | Gross alpha | | 3.1 | pCi/g |
| PC-T6925-001 | 2 | 8/5/97 | Gross alpha | | 3.1 | pCi/g |
| PC-DWTF-107 | 0 | 7/17/95 | Gross alpha | | 3.11 | pCi/g |
| PC-B514-003 | 2 | 6/27/96 | Gross alpha | < | 3.12 | pCi/g |
| PC-DWTF-110 | 0 | 7/17/95 | Gross alpha | | 3.12 | pCi/g |
| PC-DWTF-111 | 6 | 7/20/95 | Gross alpha | | 3.14 | pCi/g |
| PC-EPSRU-303 | 2 | 7/12/96 | Gross alpha | | 3.15 | pCi/g |

| location identifier | depth | sampled | description | < | value | units |
|---------------------|-------|----------|-------------|---|-------|-------|
| PC-DWTF-104 | 6 | 7/13/95 | Gross alpha | | 3.17 | pCi/g |
| PC-B121-002 | 6 | 7/25/01 | Gross alpha | | 3.2 | pCi/g |
| PC-B140-003 | 5.5 | 8/28/01 | Gross alpha | | 3.2 | pCi/g |
| PC-B140-019 | 3 | 8/28/01 | Gross alpha | | 3.2 | pCi/g |
| PC-B256-002 | 0 | 10/2/97 | Gross alpha | | 3.2 | pCi/g |
| PC-B671-001 | 1 | 12/16/98 | Gross alpha | | 3.2 | pCi/g |
| PC-DWTF-122 | 6 | 7/20/95 | Gross alpha | < | 3.2 | pCi/g |
| PC-T4326-001 | 1.5 | 9/24/01 | Gross alpha | | 3.2 | pCi/g |
| PC-T5626-004 | 1 | 2/4/03 | Gross alpha | < | 3.2 | pCi/g |
| PC-T6675-001 | 1 | 4/17/01 | Gross alpha | | 3.2 | pCi/g |
| PC-WPD-001 | 2 | 7/11/00 | Gross alpha | | 3.2 | pCi/g |
| PC-EPSRU-305 | 2 | 7/12/96 | Gross alpha | < | 3.23 | pCi/g |
| PC-DWTF-124 | 1 | 7/17/95 | Gross alpha | | 3.24 | pCi/g |
| PC-ASW-001 | 14 | 1/22/04 | Gross alpha | < | 3.3 | pCi/g |
| PC-B140-007 | 5.5 | 8/28/01 | Gross alpha | | 3.3 | pCi/g |
| PC-B141-003 | 7 | 3/15/06 | Gross alpha | | 3.3 | pCi/g |
| PC-B435-019 | 3 | 12/17/04 | Gross alpha | | 3.3 | pCi/g |
| PC-B492-002 | 6 | 8/7/01 | Gross alpha | | 3.3 | pCi/g |
| PC-T1404-001 | 2 | 7/22/03 | Gross alpha | | 3.3 | pCi/g |
| PC-TFE-006 | 3 | 7/7/05 | Gross alpha | < | 3.3 | pCi/g |
| PC-DWTF-107 | 8 | 7/20/95 | Gross alpha | | 3.33 | pCi/g |
| PC-B140-009 | 4 | 8/29/01 | Gross alpha | | 3.4 | pCi/g |
| PC-B171-003 | 3 | 4/26/05 | Gross alpha | < | 3.4 | pCi/g |
| PC-B191-004 | 0 | 9/2/99 | Gross alpha | | 3.4 | pCi/g |
| PC-B343-001 | 4 | 10/15/02 | Gross alpha | < | 3.4 | pCi/g |
| PC-B391-007 | 1 | 10/23/97 | Gross alpha | | 3.4 | pCi/g |
| PC-B471-001 | 2 | 1/3/06 | Gross alpha | | 3.4 | pCi/g |
| PC-B612-015 | 1 | 7/16/98 | Gross alpha | | 3.4 | pCi/g |
| PC-T5475-002 | 1 | 9/22/00 | Gross alpha | | 3.4 | pCi/g |
| PC-B154-003 | 5 | 12/18/00 | Gross alpha | | 3.5 | pCi/g |
| PC-B211-002 | 4 | 10/9/97 | Gross alpha | | 3.5 | pCi/g |
| PC-B212-013 | 0 | 12/2/97 | Gross alpha | | 3.5 | pCi/g |
| PC-B228-001 | 0 | 6/18/98 | Gross alpha | | 3.5 | pCi/g |
| PC-B298-011 | 1 | 11/25/97 | Gross alpha | | 3.5 | pCi/g |
| PC-B325-009 | 4 | 9/27/99 | Gross alpha | | 3.5 | pCi/g |
| PC-B332-053 | 0 | 2/14/00 | Gross alpha | | 3.5 | pCi/g |
| PC-B481-007 | 6 | 7/3/03 | Gross alpha | | 3.5 | pCi/g |
| PC-DWTF-119 | 10 | 7/20/95 | Gross alpha | | 3.5 | pCi/g |
| PC-E7-001 | 3 | 9/4/97 | Gross alpha | | 3.5 | pCi/g |
| PC-WGTC-001 | 1 | 3/7/05 | Gross alpha | | 3.5 | pCi/g |
| PC-DWTF-101 | 0 | 7/13/95 | Gross alpha | | 3.56 | pCi/g |
| PC-DWTF-110 | 8 | 7/20/95 | Gross alpha | | 3.57 | pCi/g |
| PC-DWTF-106 | 0 | 7/13/95 | Gross alpha | | 3.58 | pCi/g |
| PC-B131-007 | 1 | 9/4/03 | Gross alpha | | 3.6 | pCi/g |
| PC-B131-008 | 1 | 9/4/03 | Gross alpha | | 3.6 | pCi/g |
| PC-B140-017 | 3 | 8/29/01 | Gross alpha | | 3.6 | pCi/g |
| PC-B211-001 | 2 | 10/9/97 | Gross alpha | | 3.6 | pCi/g |
| PC-B222-012 | 2 | 9/20/04 | Gross alpha | < | 3.6 | pCi/g |
| PC-B231-024 | 2 | 1/28/03 | Gross alpha | < | 3.6 | pCi/g |

| location identifier | depth | sampled | description | < | value | units |
|---------------------|-------|----------|-------------|---|-------|-------|
| PC-B239-003 | 8 | 1/22/01 | Gross alpha | | 3.6 | pCi/g |
| PC-B329-001 | 3 | 12/17/04 | Gross alpha | < | 3.6 | pCi/g |
| PC-B332-051 | 0 | 2/14/00 | Gross alpha | | 3.6 | pCi/g |
| PC-B419-014 | 3 | 4/16/02 | Gross alpha | | 3.6 | pCi/g |
| PC-B424-004 | 8 | 4/18/00 | Gross alpha | | 3.6 | pCi/g |
| PC-B592-002 | 3 | 2/5/99 | Gross alpha | | 3.6 | pCi/g |
| PC-B599-001 | 7 | 11/20/06 | Gross alpha | | 3.6 | pCi/g |
| PC-T4180-001 | 3 | 5/21/02 | Gross alpha | < | 3.6 | pCi/g |
| PC-DWTF-112 | 5 | 7/20/95 | Gross alpha | | 3.67 | pCi/g |
| PC-B113-001 | 0 | 8/7/97 | Gross alpha | | 3.7 | pCi/g |
| PC-B140-021 | 1.5 | 8/29/01 | Gross alpha | | 3.7 | pCi/g |
| PC-B314-002 | 1.5 | 10/15/01 | Gross alpha | | 3.7 | pCi/g |
| PC-B439-001 | 1 | 1/27/99 | Gross alpha | | 3.7 | pCi/g |
| PC-B599-001 | 7 | 11/20/06 | Gross alpha | | 3.7 | pCi/g |
| PC-T2684-001 | 3 | 4/22/02 | Gross alpha | | 3.7 | pCi/g |
| PC-T2787-001 | 1.5 | 9/17/01 | Gross alpha | | 3.7 | pCi/g |
| PC-DWTF-104 | 0 | 7/13/95 | Gross alpha | | 3.71 | pCi/g |
| PC-DWTF-108 | 0 | 7/17/95 | Gross alpha | | 3.75 | pCi/g |
| PC-DWTF-102 | 6 | 7/13/95 | Gross alpha | | 3.77 | pCi/g |
| PC-B298-004 | 3 | 11/20/97 | Gross alpha | | 3.8 | pCi/g |
| PC-B321-013 | 45 | 4/25/03 | Gross alpha | | 3.8 | pCi/g |
| PC-B419-003 | 4 | 2/21/06 | Gross alpha | | 3.8 | pCi/g |
| PC-B481-005 | 6 | 7/3/03 | Gross alpha | | 3.8 | pCi/g |
| PC-B514-008 | 2 | 2/7/06 | Gross alpha | | 3.8 | pCi/g |
| PC-T1886-001 | 0 | 8/8/00 | Gross alpha | | 3.8 | pCi/g |
| PC-T5626-005 | 1 | 2/4/03 | Gross alpha | | 3.8 | pCi/g |
| PC-DWTF-105 | 0 | 7/20/95 | Gross alpha | | 3.86 | pCi/g |
| PC-DWTF-112 | 0 | 7/17/95 | Gross alpha | | 3.86 | pCi/g |
| PC-B140-015 | 2.5 | 8/29/01 | Gross alpha | | 3.9 | pCi/g |
| PC-B298-003 | 1 | 10/20/97 | Gross alpha | | 3.9 | pCi/g |
| PC-B332-046 | 0 | 9/10/98 | Gross alpha | | 3.9 | pCi/g |
| PC-B332-050 | 0 | 2/14/00 | Gross alpha | | 3.9 | pCi/g |
| PC-B341-003 | 2 | 9/24/01 | Gross alpha | | 3.9 | pCi/g |
| PC-T5627-001 | 2 | 8/7/97 | Gross alpha | | 3.9 | pCi/g |
| PC-DWTF-105 | 0 | 7/20/95 | Gross alpha | | 3.95 | pCi/g |
| PC-4675-001 | 0 | 10/9/97 | Gross alpha | | 4 | pCi/g |
| PC-B140-016 | 2.5 | 8/29/01 | Gross alpha | | 4 | pCi/g |
| PC-B140-022 | 1.5 | 8/29/01 | Gross alpha | | 4 | pCi/g |
| PC-B211-003 | 2 | 10/9/97 | Gross alpha | | 4 | pCi/g |
| PC-B321-013 | 15 | 4/25/03 | Gross alpha | | 4 | pCi/g |
| PC-B391-008 | 1 | 10/23/97 | Gross alpha | | 4 | pCi/g |
| PC-B432-002 | 0 | 4/10/97 | Gross alpha | | 4 | pCi/g |
| PC-T6498-009 | 3 | 11/10/05 | Gross alpha | < | 4 | pCi/g |
| PC-DWTF-123 | 0 | 7/17/95 | Gross alpha | | 4.05 | pCi/g |
| PC-DWTF-123 | 1 | 7/17/95 | Gross alpha | | 4.05 | pCi/g |
| PC-DWTF-103 | 1 | 7/13/95 | Gross alpha | | 4.06 | pCi/g |
| PC-DWTF-103 | 0 | 7/13/95 | Gross alpha | | 4.07 | pCi/g |
| PC-B228-002 | 0 | 6/18/98 | Gross alpha | | 4.1 | pCi/g |
| PC-B321-013 | 30 | 4/25/03 | Gross alpha | | 4.1 | pCi/g |

| location identifier | depth | sampled | description | < | value | units |
|---------------------|-------|----------|-------------|---|-------|-------|
| PC-B415-013 | 1.5 | 9/10/01 | Gross alpha | | 4.1 | pCi/g |
| PC-B418-005 | 4 | 2/21/06 | Gross alpha | | 4.1 | pCi/g |
| PC-T1888-001 | 1.5 | 10/1/01 | Gross alpha | | 4.1 | pCi/g |
| PC-B222-010 | 2 | 9/20/04 | Gross alpha | < | 4.2 | pCi/g |
| PC-B256-003 | 8 | 12/14/99 | Gross alpha | | 4.2 | pCi/g |
| PC-B511-003 | 2 | 9/19/00 | Gross alpha | | 4.2 | pCi/g |
| PC-B543-002 | 1.5 | 10/23/01 | Gross alpha | | 4.2 | pCi/g |
| PC-B622-002 | 7 | 8/19/04 | Gross alpha | < | 4.2 | pCi/g |
| PC-B691-002 | 1 | 10/16/97 | Gross alpha | | 4.2 | pCi/g |
| PC-M&O-002 | 1 | 4/30/03 | Gross alpha | | 4.2 | pCi/g |
| PC-T2629-003 | 1 | 10/14/03 | Gross alpha | | 4.2 | pCi/g |
| PC-T4997-001 | 6 | 7/8/03 | Gross alpha | | 4.2 | pCi/g |
| PC-T4997-003 | 6 | 7/8/03 | Gross alpha | | 4.2 | pCi/g |
| PC-DWTF-108 | 2 | 7/20/95 | Gross alpha | | 4.27 | pCi/g |
| PC-DWTF-106 | 6 | 7/20/95 | Gross alpha | | 4.28 | pCi/g |
| PC-DWTF-109 | 0 | 7/17/95 | Gross alpha | | 4.29 | pCi/g |
| PC-B323-006 | 0 | 7/10/97 | Gross alpha | | 4.4 | pCi/g |
| PC-DWTF-109 | 8 | 7/20/95 | Gross alpha | | 4.4 | pCi/g |
| PC-DWTF-113 | 3 | 7/20/95 | Gross alpha | | 4.46 | pCi/g |
| PC-B007-007 | 1 | 9/23/98 | Gross alpha | | 4.5 | pCi/g |
| PC-B335-002 | 2 | 12/16/02 | Gross alpha | < | 4.5 | pCi/g |
| PC-DWTF-114 | 5 | 7/20/95 | Gross alpha | | 4.54 | pCi/g |
| PC-EPSRU-306 | 2 | 7/12/96 | Gross alpha | | 4.54 | pCi/g |
| PC-EPSRU-301 | 2 | 7/12/96 | Gross alpha | < | 4.55 | pCi/g |
| PC-DWTF-101 | 4 | 7/13/95 | Gross alpha | | 4.59 | pCi/g |
| PC-B142-001 | 9 | 7/10/03 | Gross alpha | | 4.6 | pCi/g |
| PC-B222-003 | 1.5 | 8/19/03 | Gross alpha | | 4.6 | pCi/g |
| PC-B282-001 | 4 | 11/21/06 | Gross alpha | | 4.6 | pCi/g |
| PC-B336-001 | 2 | 3/28/02 | Gross alpha | | 4.6 | pCi/g |
| PC-B345-003 | 1 | 4/2/97 | Gross alpha | | 4.6 | pCi/g |
| PC-B419-001 | 0 | 3/8/96 | Gross alpha | | 4.6 | pCi/g |
| PC-ERD-012 | 0 | 11/2/98 | Gross alpha | | 4.6 | pCi/g |
| PC-T5475-004 | 4 | 1/9/06 | Gross alpha | | 4.6 | pCi/g |
| PC-B140-006 | 5.5 | 8/28/01 | Gross alpha | | 4.7 | pCi/g |
| PC-B321-036 | 0.5 | 5/22/01 | Gross alpha | | 4.7 | pCi/g |
| PC-B325-007 | 2 | 11/18/98 | Gross alpha | | 4.7 | pCi/g |
| PC-B332-056 | 3 | 8/11/03 | Gross alpha | | 4.7 | pCi/g |
| PC-B436-009 | 5 | 7/15/02 | Gross alpha | < | 4.7 | pCi/g |
| PC-E7-003 | 1 | 10/10/97 | Gross alpha | | 4.7 | pCi/g |
| PC-DWTF-124 | 0 | 7/17/95 | Gross alpha | | 4.77 | pCi/g |
| PC-B222-002 | 1.5 | 8/19/03 | Gross alpha | | 4.8 | pCi/g |
| PC-B661-001 | 0 | 6/28/96 | Gross alpha | | 4.89 | pCi/g |
| PC-E7-002 | 1 | 10/10/97 | Gross alpha | | 4.9 | pCi/g |
| PC-T5475-006 | 4 | 1/9/06 | Gross alpha | | 4.9 | pCi/g |
| PC-B113-002 | 4 | 7/10/00 | Gross alpha | | 5 | pCi/g |
| PC-B194-003 | 1 | 8/12/97 | Gross alpha | | 5 | pCi/g |
| PC-B322-046 | 4 | 5/9/00 | Gross alpha | | 5 | pCi/g |
| PC-T4725-001 | 5 | 4/17/03 | Gross alpha | | 5 | pCi/g |
| PC-B321-012 | 4.5 | 2/27/03 | Gross alpha | | 5.1 | pCi/g |

| location identifier | depth | sampled | description | < | value | units |
|---------------------|-------|----------|--------------------|---|-------|-------|
| PC-5THSX-001 | 6 | 9/5/02 | Gross alpha | < | 5.2 | pCi/g |
| PC-B153-009 | 3 | 9/25/06 | Gross alpha | | 5.2 | pCi/g |
| PC-B113-003 | 3 | 4/25/06 | Gross alpha | | 5.3 | pCi/g |
| PC-T5477-002 | 4 | 1/9/06 | Gross alpha | | 5.3 | pCi/g |
| PC-B343-003 | 4 | 11/4/02 | Gross alpha | | 5.4 | pCi/g |
| PC-B131-012 | 3 | 10/29/04 | Gross alpha | | 5.6 | pCi/g |
| PC-T4997-002 | 6 | 7/8/03 | Gross alpha | | 5.6 | pCi/g |
| PC-B325-008 | 2 | 11/18/98 | Gross alpha | | 5.7 | pCi/g |
| PC-B142-002 | 9 | 7/10/03 | Gross alpha | | 5.8 | pCi/g |
| PC-B435-018 | 2 | 2/20/03 | Gross alpha | | 5.8 | pCi/g |
| PC-B222-001 | 1.5 | 8/19/03 | Gross alpha | | 5.9 | pCi/g |
| PC-B481-006 | 6 | 7/3/03 | Gross alpha | | 6 | pCi/g |
| PC-T5475-003 | 1 | 3/29/99 | Gross alpha | | 6 | pCi/g |
| PC-NAL-008 | 1 | 1/22/02 | Gross alpha | | 6.1 | pCi/g |
| PC-B227-001 | 3 | 6/12/01 | Gross alpha | | 6.2 | pCi/g |
| PC-B321-015 | 2 | 11/8/04 | Gross alpha | | 6.2 | pCi/g |
| PC-B551-006 | 1 | 7/16/99 | Gross alpha | | 6.2 | pCi/g |
| PC-T3926-001 | 1 | 8/9/01 | Gross alpha | | 6.2 | pCi/g |
| PC-ASW-001 | 7 | 1/22/04 | Gross alpha | < | 6.3 | pCi/g |
| PC-B435-017 | 2 | 2/20/03 | Gross alpha | | 6.5 | pCi/g |
| PC-T2629-002 | 1 | 8/26/02 | Gross alpha | | 6.5 | pCi/g |
| PC-B041-001 | 4 | 9/4/02 | Gross alpha | < | 6.6 | pCi/g |
| PC-T3777-001 | 6 | 5/28/02 | Gross alpha | | 6.6 | pCi/g |
| PC-B343-002 | 4 | 11/4/02 | Gross alpha | | 6.7 | pCi/g |
| PC-T5625-002 | 1 | 11/12/98 | Gross alpha | | 6.7 | pCi/g |
| PC-B131-009 | 1 | 9/4/03 | Gross alpha | | 6.8 | pCi/g |
| PC-B131-010 | 1 | 9/4/03 | Gross alpha | | 7 | pCi/g |
| PC-TANK9-001 | 4 | 9/25/00 | Gross alpha | | 7.3 | pCi/g |
| PC-M&O-003 | 1 | 4/30/03 | Gross alpha | | 7.5 | pCi/g |
| PC-B332-054 | 5 | 2/20/03 | Gross alpha | | 7.6 | pCi/g |
| PC-B697-002 | 1 | 9/7/04 | Gross alpha | < | 7.7 | pCi/g |
| PC-B332-055 | 5 | 2/20/03 | Gross alpha | | 7.9 | pCi/g |
| PC-B321-011 | 2.5 | 2/27/03 | Gross alpha | | 8 | pCi/g |
| PC-T6498-008 | 3 | 11/10/05 | Gross alpha | | 8.2 | pCi/g |
| PC-B691-001 | 0 | 6/28/96 | Gross alpha | | 8.26 | pCi/g |
| PC-B151-001 | 0.5 | 6/24/02 | Gross alpha | | 11 | pCi/g |
| | | | N | | 475 | |
| | | | mean | | 2.7 | |
| | | | stdev | | 1.56 | |
| | | | mean plus 2 SD | | 5.8 | |
| | | | 95%ile | | 6.0 | |
| | | | 95th utl rank | | 459.6 | |
| | | | 95th ucl of 95%ile | | 6.5 | |

LIVERMORE SITE GROSS BETA

| | | | | | | |
|-------------|----|---------|------------|---|-------|-------|
| PC-B661-001 | 0 | 6/28/96 | Gross beta | < | -7.12 | pCi/g |
| PC-NIF-014 | 12 | 8/26/96 | Gross beta | < | -4.23 | pCi/g |
| PC-B514-003 | 2 | 6/27/96 | Gross beta | < | -4.1 | pCi/g |

| location identifier | depth | sampled | description | < value | units |
|---------------------|-------|----------|-------------|----------|-------|
| PC-B511-001 | 2 | 6/25/96 | Gross beta | < -2.25 | pCi/g |
| PC-B435-018 | 2 | 2/20/03 | Gross beta | < -1.3 | pCi/g |
| PC-B622-001 | 0 | 5/29/96 | Gross beta | < -1.23 | pCi/g |
| PC-B153-008 | 4 | 8/24/05 | Gross beta | < -0.73 | pCi/g |
| PC-B435-017 | 2 | 2/20/03 | Gross beta | < -0.62 | pCi/g |
| PC-B232-002 | 1.5 | 3/29/96 | Gross beta | < -0.444 | pCi/g |
| PC-ASW-002 | 14 | 1/22/04 | Gross beta | < -0.42 | pCi/g |
| PC-B691-001 | 0 | 6/28/96 | Gross beta | < -0.059 | pCi/g |
| PC-B171-002 | 3 | 4/26/05 | Gross beta | 0.2 | pCi/g |
| PC-NIF-010 | 12 | 8/26/96 | Gross beta | < 0.218 | pCi/g |
| PC-B336-001 | 2 | 3/28/02 | Gross beta | < 0.46 | pCi/g |
| PC-B321-006 | 1 | 1/30/97 | Gross beta | < 0.5 | pCi/g |
| PC-B445-005 | 1 | 10/9/06 | Gross beta | < 0.57 | pCi/g |
| PC-B321-017 | 6 | 4/19/05 | Gross beta | < 0.58 | pCi/g |
| PC-B232-004 | 5 | 6/28/05 | Gross beta | < 0.61 | pCi/g |
| PC-B623-002 | 14 | 5/1/06 | Gross beta | 0.67 | pCi/g |
| PC-B412-005 | 0.5 | 10/3/05 | Gross beta | < 0.68 | pCi/g |
| PC-B131-011 | 1 | 12/1/03 | Gross beta | < 0.72 | pCi/g |
| PC-T2475-001 | 3 | 4/15/02 | Gross beta | < 0.78 | pCi/g |
| PC-B325-011 | 5 | 11/9/04 | Gross beta | < 0.8 | pCi/g |
| PC-B445-006 | 1 | 10/9/06 | Gross beta | < 0.83 | pCi/g |
| PC-NIF-009 | 12 | 8/26/96 | Gross beta | < 0.857 | pCi/g |
| PC-B231-021 | 2 | 5/14/96 | Gross beta | 0.87 | pCi/g |
| PC-B551-005 | 1 | 7/16/99 | Gross beta | < 0.89 | pCi/g |
| PC-B171-005 | 1 | 9/19/05 | Gross beta | < 0.91 | pCi/g |
| PC-B314-001 | 0.5 | 4/1/99 | Gross beta | < 0.92 | pCi/g |
| PC-B445-004 | 1 | 10/9/06 | Gross beta | < 0.92 | pCi/g |
| PC-B445-007 | 1 | 10/9/06 | Gross beta | < 0.93 | pCi/g |
| PC-B592-005 | 0 | 8/9/99 | Gross beta | < 0.93 | pCi/g |
| PC-B222-015 | 2 | 9/20/04 | Gross beta | < 1 | pCi/g |
| PC-B321-014 | 2 | 6/18/04 | Gross beta | < 1 | pCi/g |
| PC-NIF-007 | 12 | 8/26/96 | Gross beta | < 1.06 | pCi/g |
| PC-B445-002 | 1 | 10/9/06 | Gross beta | 1.1 | pCi/g |
| PC-B391-009 | 6 | 5/8/01 | Gross beta | < 1.2 | pCi/g |
| PC-NIF-001 | 12 | 8/26/96 | Gross beta | < 1.2 | pCi/g |
| PC-B431-012 | 1 | 1/22/01 | Gross beta | < 1.3 | pCi/g |
| PC-B551-004 | 1 | 7/16/99 | Gross beta | 1.3 | pCi/g |
| PC-B622-002 | 7 | 8/19/04 | Gross beta | < 1.3 | pCi/g |
| PC-B222-008 | 1.5 | 12/22/03 | Gross beta | < 1.4 | pCi/g |
| PC-B412-004 | 0.5 | 9/6/05 | Gross beta | < 1.4 | pCi/g |
| PC-B412-006 | 0.5 | 9/6/05 | Gross beta | < 1.4 | pCi/g |
| PC-B551-002 | 1 | 7/13/99 | Gross beta | < 1.4 | pCi/g |
| PC-T6498-002 | 0.5 | 6/21/04 | Gross beta | < 1.4 | pCi/g |
| PC-B231-022 | 2 | 5/14/96 | Gross beta | 1.41 | pCi/g |
| PC-B171-004 | 1 | 9/19/05 | Gross beta | < 1.5 | pCi/g |
| PC-B222-006 | 1.5 | 12/22/03 | Gross beta | < 1.5 | pCi/g |
| PC-B424-005 | 8 | 4/18/00 | Gross beta | 1.5 | pCi/g |
| PC-B222-004 | 1.5 | 12/22/03 | Gross beta | < 1.6 | pCi/g |
| PC-B298-005 | 3 | 11/20/97 | Gross beta | < 1.6 | pCi/g |

| location identifier | depth | sampled | description | < value | units |
|---------------------|-------|----------|-------------|---------|------------|
| PC-B332-049 | 0 | 9/9/99 | Gross beta | < | 1.6 pCi/g |
| PC-B321-035 | 1 | 11/4/97 | Gross beta | < | 1.7 pCi/g |
| PC-T6925-001 | 2 | 8/5/97 | Gross beta | < | 1.7 pCi/g |
| PC-NIF-013 | 12 | 8/26/96 | Gross beta | < | 1.72 pCi/g |
| PC-B212-013 | 0 | 12/2/97 | Gross beta | < | 1.8 pCi/g |
| PC-B231-025 | 3 | 12/17/04 | Gross beta | < | 1.8 pCi/g |
| PC-B325-010 | 5 | 11/9/04 | Gross beta | < | 1.8 pCi/g |
| PC-B435-019 | 3 | 12/17/04 | Gross beta | < | 1.8 pCi/g |
| PC-B445-003 | 1 | 10/9/06 | Gross beta | | 1.8 pCi/g |
| PC-B232-004 | 5 | 6/28/05 | Gross beta | < | 1.9 pCi/g |
| PC-B298-009 | 1 | 11/25/97 | Gross beta | < | 1.9 pCi/g |
| PC-M&O-001 | 5 | 8/23/99 | Gross beta | < | 1.9 pCi/g |
| PC-B218-001 | 0 | 11/22/96 | Gross beta | < | 1.95 pCi/g |
| PC-B117-004 | 1 | 7/26/00 | Gross beta | | 2 pCi/g |
| PC-B232-006 | 1 | 10/5/05 | Gross beta | < | 2 pCi/g |
| PC-B321C-020 | 25 | 10/13/05 | Gross beta | | 2 pCi/g |
| PC-B592-002 | 3 | 2/5/99 | Gross beta | | 2 pCi/g |
| PC-B141-003 | 7 | 3/15/06 | Gross beta | < | 2.1 pCi/g |
| PC-B298-007 | 1 | 11/25/97 | Gross beta | < | 2.1 pCi/g |
| PC-B361-014 | 1 | 2/24/97 | Gross beta | < | 2.1 pCi/g |
| PC-B418-006 | 4 | 2/21/06 | Gross beta | < | 2.1 pCi/g |
| PC-B691-004 | 0 | 8/9/99 | Gross beta | | 2.1 pCi/g |
| PC-TFE-007 | 3 | 7/7/05 | Gross beta | < | 2.1 pCi/g |
| PC-B132-034 | 2 | 5/29/97 | Gross beta | < | 2.2 pCi/g |
| PC-B194-003 | 1 | 8/12/97 | Gross beta | < | 2.2 pCi/g |
| PC-B253-001 | 3.5 | 9/28/05 | Gross beta | < | 2.2 pCi/g |
| PC-B511-004 | 3 | 2/28/01 | Gross beta | | 2.2 pCi/g |
| PC-B623-001 | 7 | 5/1/06 | Gross beta | | 2.2 pCi/g |
| PC-DWTF-111 | 1 | 7/20/95 | Gross beta | | 2.2 pCi/g |
| PC-T6179-001 | 1 | 12/11/98 | Gross beta | | 2.2 pCi/g |
| PC-DWTF-114 | 5 | 7/20/95 | Gross beta | | 2.29 pCi/g |
| PC-B171-003 | 3 | 4/26/05 | Gross beta | < | 2.3 pCi/g |
| PC-B171-006 | 1 | 9/19/05 | Gross beta | | 2.3 pCi/g |
| PC-B191-005 | 1 | 4/29/02 | Gross beta | < | 2.3 pCi/g |
| PC-B194-007 | 1 | 1/19/01 | Gross beta | | 2.3 pCi/g |
| PC-B231-026 | 3 | 12/17/04 | Gross beta | < | 2.3 pCi/g |
| PC-B232-008 | 1 | 10/5/05 | Gross beta | < | 2.3 pCi/g |
| PC-B261-002 | 5 | 11/21/05 | Gross beta | < | 2.3 pCi/g |
| PC-B368-003 | 3 | 2/13/04 | Gross beta | < | 2.3 pCi/g |
| PC-B511-005 | 2 | 11/17/03 | Gross beta | < | 2.3 pCi/g |
| PC-T1886-001 | 0 | 8/8/00 | Gross beta | | 2.3 pCi/g |
| PC-WPD-001 | 2 | 7/11/00 | Gross beta | < | 2.3 pCi/g |
| PC-B481-004 | 2 | 6/10/96 | Gross beta | < | 2.31 pCi/g |
| PC-DWTF-111 | 6 | 7/20/95 | Gross beta | | 2.34 pCi/g |
| PC-DWTF-107 | 8 | 7/20/95 | Gross beta | | 2.35 pCi/g |
| PC-B177-001 | 1 | 3/9/98 | Gross beta | < | 2.4 pCi/g |
| PC-B222-005 | 1.5 | 12/22/03 | Gross beta | < | 2.4 pCi/g |
| PC-B232-007 | 1 | 10/5/05 | Gross beta | < | 2.4 pCi/g |
| PC-B298-003 | 3 | 11/20/97 | Gross beta | < | 2.4 pCi/g |

| location identifier | depth | sampled | description | < | value | units |
|---------------------|-------|----------|-------------|---|-------|-------|
| PC-B321C-021 | 0 | 10/20/05 | Gross beta | < | 2.4 | pCi/g |
| PC-B325-009 | 4 | 9/27/99 | Gross beta | < | 2.4 | pCi/g |
| PC-B514-004 | 4 | 8/11/04 | Gross beta | < | 2.4 | pCi/g |
| PC-B599-001 | 7 | 11/20/06 | Gross beta | | 2.4 | pCi/g |
| PC-DWTF-108 | 0 | 7/17/95 | Gross beta | | 2.43 | pCi/g |
| PC-DWTF-113 | 1 | 7/20/95 | Gross beta | | 2.43 | pCi/g |
| PC-B222-007 | 1.5 | 12/22/03 | Gross beta | < | 2.5 | pCi/g |
| PC-B222-010 | 2 | 9/20/04 | Gross beta | < | 2.5 | pCi/g |
| PC-B239-001 | 0 | 8/6/97 | Gross beta | < | 2.5 | pCi/g |
| PC-B332-051 | 0 | 2/14/00 | Gross beta | | 2.5 | pCi/g |
| PC-B551-006 | 1 | 7/16/99 | Gross beta | | 2.5 | pCi/g |
| PC-B551-008 | 4 | 7/13/99 | Gross beta | | 2.5 | pCi/g |
| PC-T5475-006 | 4 | 1/9/06 | Gross beta | | 2.5 | pCi/g |
| PC-NIF-008 | 12 | 8/26/96 | Gross beta | < | 2.51 | pCi/g |
| PC-DWTF-102 | 6 | 7/13/95 | Gross beta | | 2.53 | pCi/g |
| PC-NIF-012 | 12 | 8/26/96 | Gross beta | < | 2.54 | pCi/g |
| PC-4182-001 | 0 | 11/21/97 | Gross beta | < | 2.6 | pCi/g |
| PC-B111-003 | 1 | 7/29/98 | Gross beta | | 2.6 | pCi/g |
| PC-B174-001 | 1.5 | 2/18/97 | Gross beta | < | 2.6 | pCi/g |
| PC-B282-001 | 4 | 11/21/06 | Gross beta | < | 2.6 | pCi/g |
| PC-B424-004 | 8 | 4/18/00 | Gross beta | | 2.6 | pCi/g |
| PC-DWTF-112 | 0 | 7/17/95 | Gross beta | | 2.65 | pCi/g |
| PC-TF518-002 | 0 | 2/15/96 | Gross beta | < | 2.69 | pCi/g |
| PC-B151-002 | 1 | 10/13/04 | Gross beta | < | 2.7 | pCi/g |
| PC-B212-014 | 4 | 11/28/05 | Gross beta | < | 2.7 | pCi/g |
| PC-B222-014 | 2 | 9/20/04 | Gross beta | < | 2.7 | pCi/g |
| PC-B323-005 | 0 | 7/10/97 | Gross beta | < | 2.7 | pCi/g |
| PC-B412-002 | 0.5 | 9/6/05 | Gross beta | < | 2.7 | pCi/g |
| PC-B419-004 | 4 | 2/21/06 | Gross beta | < | 2.7 | pCi/g |
| PC-B512-004 | 0.5 | 10/26/99 | Gross beta | | 2.7 | pCi/g |
| PC-NIF-004 | 12 | 8/26/96 | Gross beta | < | 2.7 | pCi/g |
| PC-NIF-104 | 6 | 2/12/97 | Gross beta | < | 2.7 | pCi/g |
| PC-T3520-002 | 0 | 1/3/00 | Gross beta | | 2.7 | pCi/g |
| PC-T6675-001 | 1 | 4/17/01 | Gross beta | | 2.7 | pCi/g |
| PC-DWTF-124 | 1 | 7/17/95 | Gross beta | | 2.71 | pCi/g |
| PC-B113-002 | 4 | 7/10/00 | Gross beta | | 2.8 | pCi/g |
| PC-B123-001 | 2 | 3/6/98 | Gross beta | < | 2.8 | pCi/g |
| PC-B191-004 | 0 | 9/2/99 | Gross beta | | 2.8 | pCi/g |
| PC-B431-013 | 0.5 | 7/6/05 | Gross beta | | 2.8 | pCi/g |
| PC-B438-005 | 6 | 5/8/01 | Gross beta | < | 2.8 | pCi/g |
| PC-B439-002 | 0 | 3/30/99 | Gross beta | | 2.8 | pCi/g |
| PC-B515-001 | 0 | 4/28/99 | Gross beta | | 2.8 | pCi/g |
| PC-B551-003 | 1 | 7/13/99 | Gross beta | | 2.8 | pCi/g |
| PC-B599-001 | 7 | 11/20/06 | Gross beta | | 2.8 | pCi/g |
| PC-B691-003 | 1 | 10/16/97 | Gross beta | < | 2.8 | pCi/g |
| PC-DWTF-106 | 6 | 7/20/95 | Gross beta | | 2.8 | pCi/g |
| PC-NIF-003 | 12 | 8/26/96 | Gross beta | < | 2.84 | pCi/g |
| PC-DWTF-102 | 0 | 7/13/95 | Gross beta | | 2.85 | pCi/g |
| PC-DWTF-110 | 0 | 7/17/95 | Gross beta | | 2.85 | pCi/g |

| location identifier | depth | sampled | description | < | value | units |
|---------------------|-------|----------|-------------|---|-------|-------|
| PC-DWTF-109 | 0 | 7/17/95 | Gross beta | | 2.86 | pCi/g |
| PC-DWTF-104 | 0 | 7/13/95 | Gross beta | | 2.88 | pCi/g |
| PC-B228-001 | 0 | 6/18/98 | Gross beta | < | 2.9 | pCi/g |
| PC-B298-006 | 3 | 11/20/97 | Gross beta | < | 2.9 | pCi/g |
| PC-B321-006 | 1 | 3/6/97 | Gross beta | < | 2.9 | pCi/g |
| PC-B332-050 | 0 | 2/14/00 | Gross beta | | 2.9 | pCi/g |
| PC-B431-010 | 0 | 7/10/97 | Gross beta | < | 2.9 | pCi/g |
| PC-B514-005 | 3 | 7/7/05 | Gross beta | | 2.9 | pCi/g |
| PC-B611-002 | 0.5 | 7/26/00 | Gross beta | | 2.9 | pCi/g |
| PC-B671-001 | 1 | 12/16/98 | Gross beta | | 2.9 | pCi/g |
| PC-B691-002 | 1 | 10/16/97 | Gross beta | < | 2.9 | pCi/g |
| PC-DWTF-104 | 6 | 7/13/95 | Gross beta | | 2.9 | pCi/g |
| PC-TFD-010 | 0 | 5/10/99 | Gross beta | | 2.9 | pCi/g |
| PC-EPSRU-303 | 2 | 7/12/96 | Gross beta | < | 2.93 | pCi/g |
| PC-B321-001 | 1 | 8/6/96 | Gross beta | < | 2.97 | pCi/g |
| PC-B169-100 | 0 | 2/24/95 | Gross beta | < | 3 | pCi/g |
| PC-B194-001 | 0 | 4/10/95 | Gross beta | < | 3 | pCi/g |
| PC-B222-009 | 2 | 9/20/04 | Gross beta | < | 3 | pCi/g |
| PC-B241-003 | 4 | 5/31/95 | Gross beta | | 3 | pCi/g |
| PC-B241-004 | 2 | 5/31/95 | Gross beta | < | 3 | pCi/g |
| PC-B254-001 | 1 | 2/27/95 | Gross beta | < | 3 | pCi/g |
| PC-B254-002 | 1 | 2/27/95 | Gross beta | < | 3 | pCi/g |
| PC-B254-003 | 1 | 2/27/95 | Gross beta | < | 3 | pCi/g |
| PC-B255-001 | 0 | 8/31/99 | Gross beta | | 3 | pCi/g |
| PC-B282-002 | 4 | 11/21/06 | Gross beta | < | 3 | pCi/g |
| PC-B332-030 | 0 | 5/19/95 | Gross beta | < | 3 | pCi/g |
| PC-B332-042 | 0 | 12/11/95 | Gross beta | < | 3 | pCi/g |
| PC-B404-001 | 0.5 | 2/16/95 | Gross beta | < | 3 | pCi/g |
| PC-B418-005 | 4 | 2/21/06 | Gross beta | < | 3 | pCi/g |
| PC-B431-008 | 2 | 4/26/95 | Gross beta | < | 3 | pCi/g |
| PC-B431-009 | 2 | 4/26/95 | Gross beta | < | 3 | pCi/g |
| PC-B431-016 | 1.5 | 7/6/05 | Gross beta | | 3 | pCi/g |
| PC-DWTF-115 | 5 | 7/20/95 | Gross beta | < | 3 | pCi/g |
| PC-DWTF-116 | 8 | 7/20/95 | Gross beta | < | 3 | pCi/g |
| PC-DWTF-125 | 1 | 7/20/95 | Gross beta | < | 3 | pCi/g |
| PC-DWTF-127 | 1 | 7/20/95 | Gross beta | < | 3 | pCi/g |
| PC-DWTF-128 | 0 | 7/20/95 | Gross beta | < | 3 | pCi/g |
| PC-ERD-002 | 0 | 8/7/95 | Gross beta | < | 3 | pCi/g |
| PC-ERD-012 | 0 | 11/2/98 | Gross beta | | 3 | pCi/g |
| PC-T1739-001 | 3 | 3/30/06 | Gross beta | | 3 | pCi/g |
| PC-T3520-001 | 1 | 7/13/99 | Gross beta | | 3 | pCi/g |
| PC-T5904-001 | 1 | 12/16/97 | Gross beta | < | 3 | pCi/g |
| PC-TFC-001 | 0 | 5/23/95 | Gross beta | < | 3 | pCi/g |
| PC-B233-001 | 0 | 8/7/96 | Gross beta | < | 3.03 | pCi/g |
| PC-DWTF-103 | 1 | 7/13/95 | Gross beta | | 3.05 | pCi/g |
| PC-B222-016 | 2 | 9/27/04 | Gross beta | < | 3.1 | pCi/g |
| PC-B231-019 | 0 | 11/14/95 | Gross beta | < | 3.1 | pCi/g |
| PC-B321-020 | 5 | 9/20/05 | Gross beta | | 3.1 | pCi/g |
| PC-B404-003 | 2 | 2/16/95 | Gross beta | | 3.1 | pCi/g |

| location identifier | depth | sampled | description | < | value | units |
|---------------------|-------|----------|-------------|---|-------|-------|
| PC-B431-011 | 1 | 2/19/99 | Gross beta | | 3.1 | pCi/g |
| PC-B438-001 | 0 | 7/28/99 | Gross beta | | 3.1 | pCi/g |
| PC-B511-008 | 4 | 2/21/06 | Gross beta | | 3.1 | pCi/g |
| PC-B612-015 | 1 | 7/16/98 | Gross beta | | 3.1 | pCi/g |
| PC-DWTF-101 | 0 | 7/13/95 | Gross beta | | 3.15 | pCi/g |
| PC-6425-011 | 0 | 4/26/95 | Gross beta | < | 3.2 | pCi/g |
| PC-B154-002 | 5 | 12/18/00 | Gross beta | | 3.2 | pCi/g |
| PC-B212-017 | 3 | 3/1/06 | Gross beta | | 3.2 | pCi/g |
| PC-B222-013 | 2 | 9/20/04 | Gross beta | < | 3.2 | pCi/g |
| PC-B332-052 | 0 | 2/14/00 | Gross beta | | 3.2 | pCi/g |
| PC-B404-002 | 2 | 2/16/95 | Gross beta | < | 3.2 | pCi/g |
| PC-B612-014 | 3 | 1/8/98 | Gross beta | | 3.2 | pCi/g |
| PC-T5625-001 | 1 | 11/12/98 | Gross beta | | 3.2 | pCi/g |
| PC-T5977-001 | 4 | 11/21/95 | Gross beta | < | 3.2 | pCi/g |
| PC-T6498-008 | 3 | 11/10/05 | Gross beta | < | 3.2 | pCi/g |
| PC-B232-003 | 1.5 | 3/29/96 | Gross beta | | 3.24 | pCi/g |
| PC-DWTF-108 | 2 | 7/20/95 | Gross beta | | 3.26 | pCi/g |
| PC-DWTF-110 | 8 | 7/20/95 | Gross beta | | 3.29 | pCi/g |
| PC-B113-003 | 3 | 4/25/06 | Gross beta | | 3.3 | pCi/g |
| PC-B141-002 | 4 | 4/26/95 | Gross beta | < | 3.3 | pCi/g |
| PC-B298-004 | 3 | 11/20/97 | Gross beta | | 3.3 | pCi/g |
| PC-B298-008 | 1 | 11/25/97 | Gross beta | | 3.3 | pCi/g |
| PC-B445-001 | 0 | 3/25/98 | Gross beta | | 3.3 | pCi/g |
| PC-DWTF-121 | 10 | 7/20/95 | Gross beta | | 3.3 | pCi/g |
| PC-DWTF-122 | 6 | 7/20/95 | Gross beta | < | 3.3 | pCi/g |
| PC-T2775-001 | 0 | 3/20/96 | Gross beta | | 3.37 | pCi/g |
| PC-B007-007 | 1 | 9/23/98 | Gross beta | | 3.4 | pCi/g |
| PC-B154-003 | 5 | 12/18/00 | Gross beta | | 3.4 | pCi/g |
| PC-B231-021 | 0 | 11/14/95 | Gross beta | | 3.4 | pCi/g |
| PC-B235-001 | 1 | 5/3/99 | Gross beta | | 3.4 | pCi/g |
| PC-B256-005 | 0.5 | 4/15/05 | Gross beta | < | 3.4 | pCi/g |
| PC-B332-031 | 0 | 5/19/95 | Gross beta | | 3.4 | pCi/g |
| PC-B697-001 | 1 | 9/7/04 | Gross beta | < | 3.4 | pCi/g |
| PC-DWTF-103 | 0 | 7/13/95 | Gross beta | | 3.4 | pCi/g |
| PC-WGTC-001 | 1 | 3/7/05 | Gross beta | | 3.4 | pCi/g |
| PC-DWTF-113 | 3 | 7/20/95 | Gross beta | | 3.45 | pCi/g |
| PC-DWTF-109 | 8 | 7/20/95 | Gross beta | | 3.47 | pCi/g |
| PC-4675-001 | 0 | 10/9/97 | Gross beta | | 3.5 | pCi/g |
| PC-B231-016 | 0 | 10/25/95 | Gross beta | < | 3.5 | pCi/g |
| PC-B232-005 | 1.5 | 10/5/05 | Gross beta | | 3.5 | pCi/g |
| PC-B243-002 | 0 | 4/24/95 | Gross beta | < | 3.5 | pCi/g |
| PC-B256-002 | 0 | 10/2/97 | Gross beta | | 3.5 | pCi/g |
| PC-B322-046 | 4 | 5/9/00 | Gross beta | | 3.5 | pCi/g |
| PC-B364-002 | 1 | 10/12/98 | Gross beta | | 3.5 | pCi/g |
| PC-B404-004 | 2 | 2/16/95 | Gross beta | | 3.5 | pCi/g |
| PC-B412-003 | 0.5 | 9/6/05 | Gross beta | < | 3.5 | pCi/g |
| PC-DWTF-125 | 0 | 7/20/95 | Gross beta | | 3.5 | pCi/g |
| PC-T3527-001 | 3 | 9/20/06 | Gross beta | | 3.5 | pCi/g |
| PC-TF518-003 | 0 | 10/30/97 | Gross beta | | 3.5 | pCi/g |

| location identifier | depth | sampled | description | < | value | units |
|---------------------|-------|----------|-------------|---|-------|-------|
| PC-DWTF-124 | 0 | 7/17/95 | Gross beta | | 3.51 | pCi/g |
| PC-B419-001 | 0 | 3/8/96 | Gross beta | | 3.54 | pCi/g |
| PC-DWTF-123 | 0 | 7/17/95 | Gross beta | | 3.55 | pCi/g |
| PC-DWTF-106 | 0 | 7/13/95 | Gross beta | | 3.57 | pCi/g |
| PC-B131-012 | 3 | 10/29/04 | Gross beta | < | 3.6 | pCi/g |
| PC-B132-035 | 1 | 7/1/97 | Gross beta | | 3.6 | pCi/g |
| PC-B211-004 | 2 | 10/9/97 | Gross beta | | 3.6 | pCi/g |
| PC-B231-013 | 0 | 10/25/95 | Gross beta | < | 3.6 | pCi/g |
| PC-B231-026 | 3 | 12/17/04 | Gross beta | | 3.6 | pCi/g |
| PC-B332-025 | 2 | 5/15/95 | Gross beta | | 3.6 | pCi/g |
| PC-B332-028 | 2 | 5/15/95 | Gross beta | | 3.6 | pCi/g |
| PC-B391-008 | 1 | 10/23/97 | Gross beta | | 3.6 | pCi/g |
| PC-WGTC-002 | 1 | 3/7/05 | Gross beta | | 3.6 | pCi/g |
| PC-DWTF-123 | 1 | 7/17/95 | Gross beta | | 3.68 | pCi/g |
| PC-B194-006 | 4 | 8/1/00 | Gross beta | | 3.7 | pCi/g |
| PC-B235-002 | 1 | 5/3/99 | Gross beta | | 3.7 | pCi/g |
| PC-B251-001 | 2 | 4/29/02 | Gross beta | | 3.7 | pCi/g |
| PC-B292-010 | 0.5 | 10/20/99 | Gross beta | | 3.7 | pCi/g |
| PC-B329-001 | 3 | 12/17/04 | Gross beta | | 3.7 | pCi/g |
| PC-B332-045 | 0 | 7/10/97 | Gross beta | | 3.7 | pCi/g |
| PC-B432-002 | 0 | 4/10/97 | Gross beta | | 3.7 | pCi/g |
| PC-B592-003 | 6 | 2/5/99 | Gross beta | | 3.7 | pCi/g |
| PC-T3427-001 | 0 | 7/30/98 | Gross beta | | 3.7 | pCi/g |
| PC-B216-002 | 0 | 3/8/96 | Gross beta | | 3.71 | pCi/g |
| PC-DWTF-112 | 5 | 7/20/95 | Gross beta | | 3.72 | pCi/g |
| PC-B153-009 | 3 | 9/25/06 | Gross beta | | 3.8 | pCi/g |
| PC-B154-001 | 5 | 12/18/00 | Gross beta | | 3.8 | pCi/g |
| PC-B178-001 | 3 | 6/12/06 | Gross beta | | 3.8 | pCi/g |
| PC-B222-011 | 2 | 9/20/04 | Gross beta | < | 3.8 | pCi/g |
| PC-B222-012 | 2 | 9/20/04 | Gross beta | < | 3.8 | pCi/g |
| PC-B228-002 | 0 | 6/18/98 | Gross beta | | 3.8 | pCi/g |
| PC-B298-010 | 1 | 11/25/97 | Gross beta | | 3.8 | pCi/g |
| PC-B439-001 | 1 | 1/27/99 | Gross beta | | 3.8 | pCi/g |
| PC-B514-007 | 2 | 2/7/06 | Gross beta | | 3.8 | pCi/g |
| PC-B543-001 | 0 | 2/24/99 | Gross beta | | 3.8 | pCi/g |
| PC-B551-007 | 1 | 7/16/99 | Gross beta | | 3.8 | pCi/g |
| PC-DWTF-101 | 4 | 7/13/95 | Gross beta | | 3.8 | pCi/g |
| PC-T5475-002 | 1 | 9/22/00 | Gross beta | | 3.8 | pCi/g |
| PC-T5625-002 | 1 | 11/12/98 | Gross beta | | 3.8 | pCi/g |
| PC-NIF-014 | 12 | 8/26/96 | Gross beta | | 3.81 | pCi/g |
| PC-B171-001 | 3 | 4/26/05 | Gross beta | | 3.9 | pCi/g |
| PC-B332-043 | 0 | 12/11/95 | Gross beta | | 3.9 | pCi/g |
| PC-B368-001 | 3 | 2/13/04 | Gross beta | < | 3.9 | pCi/g |
| PC-B368-002 | 3 | 2/13/04 | Gross beta | < | 3.9 | pCi/g |
| PC-B419-005 | 4 | 2/21/06 | Gross beta | | 3.9 | pCi/g |
| PC-T6498-004 | 0.5 | 6/21/04 | Gross beta | | 3.9 | pCi/g |
| PC-DWTF-105 | 0 | 7/20/95 | Gross beta | | 3.99 | pCi/g |
| PC-B233-002 | 1 | 3/6/97 | Gross beta | | 4 | pCi/g |
| PC-B298-003 | 1 | 10/20/97 | Gross beta | | 4 | pCi/g |

| location identifier | depth | sampled | description | < value | units |
|---------------------|-------|----------|-------------|---------|-----------|
| PC-B321-021 | 2 | 9/20/05 | Gross beta | | 4 pCi/g |
| PC-B325-007 | 2 | 11/18/98 | Gross beta | | 4 pCi/g |
| PC-B332-053 | 0 | 2/14/00 | Gross beta | | 4 pCi/g |
| PC-B611-001 | 1 | 2/9/98 | Gross beta | | 4 pCi/g |
| PC-B622-002 | 7 | 11/20/06 | Gross beta | | 4 pCi/g |
| PC-E7-001 | 3 | 9/4/97 | Gross beta | | 4 pCi/g |
| PC-DWTF-107 | 0 | 7/17/95 | Gross beta | 4.01 | pCi/g |
| PC-B212-013 | 0 | 12/2/97 | Gross beta | 4.1 | pCi/g |
| PC-B212-015 | 4 | 12/16/05 | Gross beta | 4.1 | pCi/g |
| PC-B212-016 | 4 | 1/24/06 | Gross beta | 4.1 | pCi/g |
| PC-B239-001 | 1 | 9/18/97 | Gross beta | 4.1 | pCi/g |
| PC-B312-001 | 0 | 2/19/98 | Gross beta | 4.1 | pCi/g |
| PC-B321C-019 | 25 | 10/13/05 | Gross beta | 4.1 | pCi/g |
| PC-B332-046 | 0 | 9/10/98 | Gross beta | 4.1 | pCi/g |
| PC-B451-001 | 6 | 1/27/98 | Gross beta | 4.1 | pCi/g |
| PC-B211-001 | 2 | 10/9/97 | Gross beta | 4.2 | pCi/g |
| PC-B451-002 | 2 | 1/27/98 | Gross beta | 4.2 | pCi/g |
| PC-DWTF-120 | 10 | 7/20/95 | Gross beta | 4.2 | pCi/g |
| PC-E7-002 | 1 | 10/10/97 | Gross beta | 4.2 | pCi/g |
| PC-T5475-005 | 4 | 1/9/06 | Gross beta | 4.2 | pCi/g |
| PC-B216-001 | 0 | 3/8/96 | Gross beta | 4.26 | pCi/g |
| PC-DWTF-105 | 0 | 7/20/95 | Gross beta | 4.26 | pCi/g |
| PC-ASW-001 | 7 | 1/22/04 | Gross beta | < | 4.3 pCi/g |
| PC-B194-002 | 0 | 4/10/95 | Gross beta | | 4.3 pCi/g |
| PC-B332-026 | 2 | 5/15/95 | Gross beta | | 4.3 pCi/g |
| PC-B125-001 | 0 | 1/13/99 | Gross beta | | 4.4 pCi/g |
| PC-B198-001 | 1 | 2/11/97 | Gross beta | | 4.4 pCi/g |
| PC-DWTF-118 | 10 | 7/20/95 | Gross beta | | 4.4 pCi/g |
| PC-E7-003 | 1 | 10/10/97 | Gross beta | | 4.4 pCi/g |
| PC-T5475-003 | 1 | 3/29/99 | Gross beta | | 4.4 pCi/g |
| PC-TFE-006 | 3 | 7/7/05 | Gross beta | | 4.4 pCi/g |
| PC-B113-001 | 0 | 8/7/97 | Gross beta | | 4.5 pCi/g |
| PC-B471-001 | 2 | 1/3/06 | Gross beta | | 4.5 pCi/g |
| PC-NIF-006 | 12 | 8/26/96 | Gross beta | 4.55 | pCi/g |
| PC-B211-003 | 2 | 10/9/97 | Gross beta | 4.6 | pCi/g |
| PC-B219-001 | 1 | 6/3/98 | Gross beta | 4.6 | pCi/g |
| PC-B256-001 | 0 | 10/2/97 | Gross beta | 4.6 | pCi/g |
| PC-B298-011 | 1 | 11/25/97 | Gross beta | 4.6 | pCi/g |
| PC-B298-012 | 1 | 11/25/97 | Gross beta | 4.6 | pCi/g |
| PC-B332-054 | 5 | 2/20/03 | Gross beta | < | 4.6 pCi/g |
| PC-B345-003 | 1 | 4/2/97 | Gross beta | | 4.6 pCi/g |
| PC-T2684-001 | 3 | 4/22/02 | Gross beta | < | 4.6 pCi/g |
| PC-T5477-002 | 4 | 1/9/06 | Gross beta | | 4.6 pCi/g |
| PC-B140-003 | 5.5 | 8/28/01 | Gross beta | | 4.7 pCi/g |
| PC-B239-003 | 8 | 1/22/01 | Gross beta | | 4.7 pCi/g |
| PC-B481-005 | 6 | 7/3/03 | Gross beta | | 4.7 pCi/g |
| PC-DWTF-117 | 10 | 7/20/95 | Gross beta | | 4.7 pCi/g |
| PC-DWTF-119 | 10 | 7/20/95 | Gross beta | | 4.7 pCi/g |
| PC-T5475-004 | 4 | 1/9/06 | Gross beta | | 4.7 pCi/g |

| location identifier | depth | sampled | description | < value | units |
|---------------------|-------|----------|-------------|---------|------------|
| PC-W404-001 | 0.5 | 6/28/06 | Gross beta | | 4.7 pCi/g |
| PC-B231-009 | 0 | 6/22/95 | Gross beta | | 4.8 pCi/g |
| PC-B231-011 | 0 | 6/22/95 | Gross beta | | 4.8 pCi/g |
| PC-DWTF-126 | 1 | 7/20/95 | Gross beta | | 4.8 pCi/g |
| PC-4298-001 | 0 | 7/10/97 | Gross beta | | 4.9 pCi/g |
| PC-B256-003 | 8 | 12/14/99 | Gross beta | | 4.9 pCi/g |
| PC-B131-013 | 3 | 5/26/06 | Gross beta | | 5 pCi/g |
| PC-B140-002 | 5.5 | 8/28/01 | Gross beta | | 5 pCi/g |
| PC-B321-013 | 45 | 4/25/03 | Gross beta | | 5 pCi/g |
| PC-B321-015 | 2 | 11/8/04 | Gross beta | < | 5 pCi/g |
| PC-B222-001 | 1.5 | 8/19/03 | Gross beta | < | 5.1 pCi/g |
| PC-B511-003 | 2 | 9/19/00 | Gross beta | | 5.1 pCi/g |
| PC-DWTF-120 | 10 | 7/20/95 | Gross beta | | 5.1 pCi/g |
| PC-T5627-001 | 2 | 8/7/97 | Gross beta | | 5.1 pCi/g |
| PC-B142-002 | 9 | 7/10/03 | Gross beta | | 5.2 pCi/g |
| PC-B325-008 | 2 | 11/18/98 | Gross beta | | 5.2 pCi/g |
| PC-B332-046 | 0 | 9/10/98 | Gross beta | | 5.2 pCi/g |
| PC-T6498-010 | 3 | 11/10/05 | Gross beta | | 5.2 pCi/g |
| PC-TANK9-001 | 4 | 9/25/00 | Gross beta | | 5.2 pCi/g |
| PC-ASW-001 | 14 | 1/22/04 | Gross beta | < | 5.3 pCi/g |
| PC-B178-002 | 3 | 6/12/06 | Gross beta | | 5.3 pCi/g |
| PC-T2629-004 | 1 | 10/14/03 | Gross beta | < | 5.3 pCi/g |
| PC-T6498-011 | 3 | 11/10/05 | Gross beta | | 5.3 pCi/g |
| PC-B140-001 | 5.5 | 8/28/01 | Gross beta | | 5.4 pCi/g |
| PC-B391-007 | 1 | 10/23/97 | Gross beta | | 5.4 pCi/g |
| PC-B514-008 | 2 | 2/7/06 | Gross beta | | 5.4 pCi/g |
| PC-B323-001 | 0 | 1/21/96 | Gross beta | | 5.46 pCi/g |
| PC-B140-020 | 3 | 8/29/01 | Gross beta | | 5.5 pCi/g |
| PC-B222-002 | 1.5 | 8/19/03 | Gross beta | < | 5.5 pCi/g |
| PC-B443-001 | 0 | 7/10/97 | Gross beta | | 5.5 pCi/g |
| PC-B222-003 | 1.5 | 8/19/03 | Gross beta | < | 5.6 pCi/g |
| PC-B319-001 | 4 | 9/9/03 | Gross beta | < | 5.6 pCi/g |
| PC-B332-057 | 1 | 5/16/06 | Gross beta | | 5.6 pCi/g |
| PC-B481-006 | 6 | 7/3/03 | Gross beta | | 5.6 pCi/g |
| PC-B323-006 | 0 | 7/10/97 | Gross beta | | 5.8 pCi/g |
| PC-T2629-003 | 1 | 10/14/03 | Gross beta | | 5.8 pCi/g |
| PC-B140-014 | 2.5 | 8/29/01 | Gross beta | | 5.9 pCi/g |
| PC-B140-016 | 2.5 | 8/29/01 | Gross beta | | 5.9 pCi/g |
| PC-B292-001 | 2 | 7/21/97 | Gross beta | | 5.9 pCi/g |
| PC-B419-003 | 4 | 2/21/06 | Gross beta | | 5.9 pCi/g |
| PC-B140-004 | 5.5 | 8/28/01 | Gross beta | | 6 pCi/g |
| PC-B140-012 | 4 | 8/28/01 | Gross beta | | 6 pCi/g |
| PC-B140-015 | 2.5 | 8/29/01 | Gross beta | | 6 pCi/g |
| PC-B415-013 | 1.5 | 9/10/01 | Gross beta | | 6 pCi/g |
| PC-B292-002 | 1 | 7/21/97 | Gross beta | | 6.2 pCi/g |
| PC-B321-013 | 30 | 4/25/03 | Gross beta | | 6.2 pCi/g |
| PC-B419-014 | 3 | 4/16/02 | Gross beta | | 6.2 pCi/g |
| PC-B140-017 | 3 | 8/29/01 | Gross beta | | 6.3 pCi/g |
| PC-B140-008 | 4 | 8/28/01 | Gross beta | | 6.4 pCi/g |

| location identifier | depth | sampled | description | < value | units |
|---------------------|-------|----------|-------------|---------|------------|
| PC-B140-009 | 4 | 8/29/01 | Gross beta | | 6.4 pCi/g |
| PC-B211-002 | 4 | 10/9/97 | Gross beta | | 6.4 pCi/g |
| PC-T6498-009 | 3 | 11/10/05 | Gross beta | < | 6.4 pCi/g |
| PC-B140-018 | 3 | 8/29/01 | Gross beta | | 6.5 pCi/g |
| PC-B140-013 | 2.5 | 8/28/01 | Gross beta | | 6.6 pCi/g |
| PC-B142-001 | 9 | 7/10/03 | Gross beta | | 6.6 pCi/g |
| PC-B512-006 | 4 | 2/21/06 | Gross beta | | 6.6 pCi/g |
| PC-B298-002 | 0 | 5/3/96 | Gross beta | < | 6.61 pCi/g |
| PC-B131-007 | 1 | 9/4/03 | Gross beta | | 6.7 pCi/g |
| PC-B131-008 | 1 | 9/4/03 | Gross beta | < | 6.7 pCi/g |
| PC-B140-007 | 5.5 | 8/28/01 | Gross beta | | 6.7 pCi/g |
| PC-EPSRU-301 | 2 | 7/12/96 | Gross beta | | 6.72 pCi/g |
| PC-B151-003 | 1 | 10/13/04 | Gross beta | < | 6.8 pCi/g |
| PC-T4997-003 | 6 | 7/8/03 | Gross beta | | 6.8 pCi/g |
| PC-T6498-007 | 3 | 11/10/05 | Gross beta | < | 6.8 pCi/g |
| PC-T1478-001 | 0.5 | 7/22/03 | Gross beta | | 6.9 pCi/g |
| PC-B140-011 | 4 | 8/28/01 | Gross beta | | 7 pCi/g |
| PC-T2685-001 | 1.5 | 9/12/01 | Gross beta | | 7 pCi/g |
| PC-T4725-001 | 5 | 4/17/03 | Gross beta | | 7 pCi/g |
| PC-T4725-002 | 5 | 4/17/03 | Gross beta | | 7 pCi/g |
| PC-B131-009 | 1 | 9/4/03 | Gross beta | < | 7.1 pCi/g |
| PC-B140-019 | 3 | 8/28/01 | Gross beta | | 7.1 pCi/g |
| PC-B140-021 | 1.5 | 8/29/01 | Gross beta | | 7.1 pCi/g |
| PC-EPSRU-305 | 2 | 7/12/96 | Gross beta | | 7.15 pCi/g |
| PC-B140-005 | 5.5 | 8/28/01 | Gross beta | | 7.2 pCi/g |
| PC-B321-013 | 15 | 4/25/03 | Gross beta | | 7.2 pCi/g |
| PC-B697-002 | 1 | 9/7/04 | Gross beta | < | 7.2 pCi/g |
| PC-T2787-001 | 1.5 | 9/17/01 | Gross beta | | 7.2 pCi/g |
| PC-B140-022 | 1.5 | 8/29/01 | Gross beta | | 7.3 pCi/g |
| PC-B381-001 | 0 | 5/3/96 | Gross beta | | 7.47 pCi/g |
| PC-B140-010 | 4 | 8/28/01 | Gross beta | | 7.5 pCi/g |
| PC-B543-002 | 1.5 | 10/23/01 | Gross beta | | 7.5 pCi/g |
| PC-T1888-001 | 1.5 | 10/1/01 | Gross beta | | 7.5 pCi/g |
| PC-T4997-001 | 6 | 7/8/03 | Gross beta | | 7.5 pCi/g |
| PC-B131-010 | 1 | 9/4/03 | Gross beta | | 7.9 pCi/g |
| PC-B140-006 | 5.5 | 8/28/01 | Gross beta | | 7.9 pCi/g |
| PC-B321-008 | 3 | 7/2/02 | Gross beta | | 7.9 pCi/g |
| PC-B321-012 | 4.5 | 2/27/03 | Gross beta | | 8 pCi/g |
| PC-B697-002 | 1 | 9/7/04 | Gross beta | < | 8 pCi/g |
| PC-B335-002 | 2 | 12/16/02 | Gross beta | < | 8.2 pCi/g |
| PC-B321-011 | 2.5 | 2/27/03 | Gross beta | < | 8.4 pCi/g |
| PC-B121-002 | 6 | 7/25/01 | Gross beta | | 8.5 pCi/g |
| PC-B243-003 | 2 | 7/22/03 | Gross beta | | 8.5 pCi/g |
| PC-B321-010 | 4.5 | 2/27/03 | Gross beta | | 8.5 pCi/g |
| PC-B492-002 | 6 | 8/7/01 | Gross beta | | 8.5 pCi/g |
| PC-B481-007 | 6 | 7/3/03 | Gross beta | | 8.6 pCi/g |
| PC-T4326-001 | 1.5 | 9/24/01 | Gross beta | | 8.6 pCi/g |
| PC-B512-005 | 4 | 7/24/03 | Gross beta | | 8.7 pCi/g |
| PC-T1888-001 | 1.5 | 10/1/01 | Gross beta | | 8.7 pCi/g |

| location identifier | depth | sampled | description | < | value | units |
|---------------------|-------|----------|--------------------|---|-------|-------|
| PC-B332-056 | 3 | 8/11/03 | Gross beta | | 8.8 | pCi/g |
| PC-ASW-002 | 7 | 1/22/04 | Gross beta | < | 8.9 | pCi/g |
| PC-T3926-001 | 1 | 8/9/01 | Gross beta | | 9 | pCi/g |
| PC-T4997-002 | 6 | 7/8/03 | Gross beta | | 9.1 | pCi/g |
| PC-T4180-001 | 3 | 5/21/02 | Gross beta | | 9.2 | pCi/g |
| PC-B314-002 | 1.5 | 10/15/01 | Gross beta | | 9.3 | pCi/g |
| PC-B361-015 | 2 | 7/23/03 | Gross beta | | 9.5 | pCi/g |
| PC-B332-055 | 5 | 2/20/03 | Gross beta | < | 9.6 | pCi/g |
| PC-NAL-008 | 1 | 1/22/02 | Gross beta | | 9.8 | pCi/g |
| PC-T1888-001 | 1.5 | 10/1/01 | Gross beta | | 9.9 | pCi/g |
| PC-T1404-001 | 2 | 7/22/03 | Gross beta | | 10 | pCi/g |
| PC-T5626-004 | 1 | 2/4/03 | Gross beta | | 10 | pCi/g |
| PC-EPSRU-306 | 2 | 7/12/96 | Gross beta | < | 10.3 | pCi/g |
| PC-B153-007 | 3 | 4/8/03 | Gross beta | | 11 | pCi/g |
| PC-M&O-002 | 1 | 4/30/03 | Gross beta | | 11 | pCi/g |
| PC-T1629-001 | 1.5 | 9/25/01 | Gross beta | | 11 | pCi/g |
| PC-T2629-002 | 1 | 8/26/02 | Gross beta | | 11 | pCi/g |
| PC-T3777-001 | 6 | 5/28/02 | Gross beta | | 11 | pCi/g |
| PC-B341-003 | 2 | 9/24/01 | Gross beta | | 12 | pCi/g |
| PC-T5626-005 | 1 | 2/4/03 | Gross beta | | 12 | pCi/g |
| PC-B227-001 | 3 | 6/12/01 | Gross beta | | 13 | pCi/g |
| PC-B321-036 | 0.5 | 5/22/01 | Gross beta | | 13 | pCi/g |
| PC-B343-002 | 4 | 11/4/02 | Gross beta | | 13 | pCi/g |
| PC-B436-009 | 5 | 7/15/02 | Gross beta | | 16 | pCi/g |
| PC-5THSX-001 | 6 | 9/5/02 | Gross beta | | 18 | pCi/g |
| PC-B041-001 | 4 | 9/4/02 | Gross beta | | 18 | pCi/g |
| PC-B151-001 | 0.5 | 6/24/02 | Gross beta | | 18 | pCi/g |
| PC-B343-003 | 4 | 11/4/02 | Gross beta | | 18 | pCi/g |
| PC-B343-001 | 4 | 10/15/02 | Gross beta | | 19 | pCi/g |
| PC-B231-024 | 2 | 1/28/03 | Gross beta | | 26 | pCi/g |
| PC-M&O-003 | 1 | 4/30/03 | Gross beta | | 22 | pCi/g |
| | | | N | | 475 | |
| | | | mean | | 3.6 | |
| | | | stdev | | 3.2 | |
| | | | mean plus 2 SD | | 10.0 | |
| | | | 95%ile | | 9.5 | |
| | | | 95th utl rank | | 459.6 | |
| | | | 95th ucl of 95%ile | | 11 | |

SITE 300 GROSS ALPHA

| | | | | | | |
|-------------|-----|----------|-------------|---|--------|-------|
| PC-B823-002 | 4.5 | 6/11/96 | Gross alpha | < | -1.25 | pCi/g |
| PC-B882-002 | 0 | 2/15/96 | Gross alpha | | 1.88 | pCi/g |
| PC-B823-001 | 4.5 | 6/11/96 | Gross alpha | < | 0.0827 | pCi/g |
| PC-B854-030 | 1 | 6/23/03 | Gross alpha | | 0.46 | pCi/g |
| PC-B850-003 | 0.5 | 8/10/05 | Gross alpha | < | 0.83 | pCi/g |
| PC-B880-012 | 1.5 | 12/13/02 | Gross alpha | < | 1 | pCi/g |
| PC-B888-008 | 5 | 1/28/99 | Gross alpha | < | 1.6 | pCi/g |
| PC-B882-001 | 0 | 2/15/96 | Gross alpha | < | 1.68 | pCi/g |
| PC-B882-003 | 0 | 2/15/96 | Gross alpha | < | 1.68 | pCi/g |

| location identifier | depth | sampled | description | < | value | units |
|---------------------|-------|----------|-------------|---|-------|-------|
| PC-B845-006 | 1 | 2/27/96 | Gross alpha | < | 1.69 | pCi/g |
| PC-B804-001 | 0 | 12/13/95 | Gross alpha | < | 1.7 | pCi/g |
| PC-B888-001 | 1 | 1/28/99 | Gross alpha | < | 1.8 | pCi/g |
| PC-B827-010 | 0 | 12/13/95 | Gross alpha | < | 2.1 | pCi/g |
| PC-B875-001 | 10 | 10/20/04 | Gross alpha | < | 2.6 | pCi/g |
| PC-B888-010 | 1 | 1/28/99 | Gross alpha | | 2.7 | pCi/g |
| PC-B888-005 | 5 | 1/28/99 | Gross alpha | | 2.8 | pCi/g |
| PC-B898-001 | 1 | 9/7/95 | Gross alpha | < | 2.8 | pCi/g |
| PC-B851-018 | 0 | 1/19/95 | Gross alpha | | 3 | pCi/g |
| PC-B845-006 | 7 | 2/27/96 | Gross alpha | | 3.12 | pCi/g |
| PC-B865-003 | 3 | 6/29/05 | Gross alpha | < | 3.2 | pCi/g |
| PC-B834-006 | 2 | 4/19/02 | Gross alpha | < | 3.3 | pCi/g |
| PC-B845-006 | 4 | 2/27/96 | Gross alpha | | 3.3 | pCi/g |
| PC-B888-004 | 5 | 1/28/99 | Gross alpha | | 3.3 | pCi/g |
| PC-B855-001 | 16 | 8/10/05 | Gross alpha | | 3.4 | pCi/g |
| PC-B827-012 | 0 | 5/7/97 | Gross alpha | | 3.5 | pCi/g |
| PC-B888-006 | 5 | 1/28/99 | Gross alpha | | 3.5 | pCi/g |
| PC-B801-021 | 3 | 9/22/96 | Gross alpha | | 3.79 | pCi/g |
| PC-B801-018 | 3 | 9/30/96 | Gross alpha | | 3.8 | pCi/g |
| PC-B865-004 | 3 | 6/29/05 | Gross alpha | | 3.8 | pCi/g |
| PC-B873-005 | 0 | 10/30/97 | Gross alpha | | 3.8 | pCi/g |
| PC-B801-004 | 3 | 9/18/96 | Gross alpha | | 3.89 | pCi/g |
| PC-B827-012 | 0 | 5/7/97 | Gross alpha | | 3.9 | pCi/g |
| PC-B888-009 | 5 | 1/28/99 | Gross alpha | | 3.9 | pCi/g |
| PC-B801-022 | 3 | 9/22/96 | Gross alpha | | 3.94 | pCi/g |
| PC-B801-005 | 3 | 9/18/96 | Gross alpha | | 3.97 | pCi/g |
| PC-B888-002 | 1 | 1/28/99 | Gross alpha | | 4.1 | pCi/g |
| PC-B888-003 | 3 | 1/28/99 | Gross alpha | | 4.1 | pCi/g |
| PC-B801-006 | 3 | 9/18/96 | Gross alpha | | 4.13 | pCi/g |
| PC-B801-010 | 3 | 9/20/96 | Gross alpha | | 4.16 | pCi/g |
| PC-B827-012 | 0 | 5/7/97 | Gross alpha | | 4.2 | pCi/g |
| PC-B899-002 | 18 | 6/3/02 | Gross alpha | | 4.2 | pCi/g |
| PC-B801-020 | 3 | 9/22/96 | Gross alpha | | 4.39 | pCi/g |
| PC-B827-011 | 0 | 12/13/95 | Gross alpha | | 4.4 | pCi/g |
| PC-B801-019 | 3 | 9/22/96 | Gross alpha | | 4.47 | pCi/g |
| PC-B899-001 | 18 | 6/3/02 | Gross alpha | | 4.5 | pCi/g |
| PC-B846-001 | 0 | 7/9/97 | Gross alpha | | 4.6 | pCi/g |
| PC-B888-007 | 5 | 1/28/99 | Gross alpha | | 4.7 | pCi/g |
| PC-B827-012 | 0 | 5/7/97 | Gross alpha | | 4.9 | pCi/g |
| PC-B801-009 | 3 | 9/20/96 | Gross alpha | | 5.09 | pCi/g |
| PC-B844-001 | 2 | 9/25/00 | Gross alpha | | 5.2 | pCi/g |
| PC-B809-010 | 0 | 1/19/95 | Gross alpha | | 5.3 | pCi/g |
| PC-B809-010 | 0 | 1/19/95 | Gross alpha | | 5.4 | pCi/g |
| PC-B801-020 | 1 | 9/22/96 | Gross alpha | | 5.67 | pCi/g |
| PC-B801-023 | 3 | 9/22/96 | Gross alpha | | 5.8 | pCi/g |
| PC-B801-011 | 3 | 9/20/96 | Gross alpha | | 5.9 | pCi/g |
| PC-B801-018 | 1 | 9/30/96 | Gross alpha | | 5.9 | pCi/g |
| PC-B832-001 | 0 | 6/2/98 | Gross alpha | | 6 | pCi/g |
| PC-B834-006 | 2 | 4/19/02 | Gross alpha | | 6.1 | pCi/g |

| location identifier | depth | sampled | description | < value | units |
|---------------------|-------|----------|--------------------|---------|------------|
| PC-B832-002 | 0 | 12/16/98 | Gross alpha | | 6.2 pCi/g |
| PC-B801-006 | 1 | 9/18/96 | Gross alpha | | 6.33 pCi/g |
| PC-B880-009 | 1.5 | 12/13/02 | Gross alpha | < | 6.4 pCi/g |
| PC-B801-023 | 1 | 9/22/96 | Gross alpha | | 6.6 pCi/g |
| PC-B801-022 | 1 | 9/22/96 | Gross alpha | | 6.8 pCi/g |
| PC-B801-014 | 3 | 9/20/96 | Gross alpha | | 6.86 pCi/g |
| PC-B801-015 | 3 | 9/20/96 | Gross alpha | | 6.88 pCi/g |
| PC-B801-008 | 3 | 9/30/96 | Gross alpha | | 6.9 pCi/g |
| PC-B851-018 | 0 | 1/19/95 | Gross alpha | | 7.1 pCi/g |
| PC-B801-005 | 1 | 9/18/96 | Gross alpha | | 7.2 pCi/g |
| PC-B801-018 | 1 | 9/30/96 | Gross alpha | | 7.2 pCi/g |
| PC-B801-021 | 1 | 9/22/96 | Gross alpha | | 7.3 pCi/g |
| PC-B801-007 | 3 | 9/17/96 | Gross alpha | | 7.4 pCi/g |
| PC-B801-003 | 3 | 9/18/96 | Gross alpha | | 7.6 pCi/g |
| PC-B801-017 | 3 | 9/30/96 | Gross alpha | | 7.7 pCi/g |
| PC-B801-019 | 1 | 9/22/96 | Gross alpha | | 7.7 pCi/g |
| PC-B815-018 | 0 | 5/18/95 | Gross alpha | | 8.6 pCi/g |
| PC-B871-001 | 7.5 | 10/7/02 | Gross alpha | | 8.8 pCi/g |
| PC-B801-016 | 3 | 9/20/96 | Gross alpha | | 9.5 pCi/g |
| PC-B801-002 | 3 | 9/23/96 | Gross alpha | | 9.7 pCi/g |
| PC-B801-033 | 3 | 10/13/97 | Gross alpha | | 9.7 pCi/g |
| PC-B801-017 | 3 | 9/30/96 | Gross alpha | | 9.8 pCi/g |
| PC-B801-013 | 3 | 9/20/96 | Gross alpha | | 9.9 pCi/g |
| PC-B801-008 | 3 | 9/30/96 | Gross alpha | | 10.9 pCi/g |
| PC-B871-002 | 7.5 | 10/7/02 | Gross alpha | | 11 pCi/g |
| PC-B879-001 | 2 | 2/18/03 | Gross alpha | | 11 pCi/g |
| PC-B801-004 | 1 | 9/18/96 | Gross alpha | | 11.4 pCi/g |
| PC-B801-003 | 1 | 9/18/96 | Gross alpha | | 14 pCi/g |
| | | | N | | 86 |
| | | | mean | | 5.1 |
| | | | stdev | | 2.9 |
| | | | mean plus 2 SD | | 10.9 |
| | | | 95%ile | | 10.7 |
| | | | 95th utl rank | | 85.5 |
| | | | 95th ucl of 95%ile | | 11 |

SITE 300 GROSS BETA

| | | | | | |
|-------------|-----|----------|------------|---|------------|
| PC-B875-001 | 10 | 10/20/04 | Gross beta | < | -0.3 pCi/g |
| PC-B850-003 | 0.5 | 8/10/05 | Gross beta | < | 1 pCi/g |
| PC-B882-002 | 0 | 2/15/96 | Gross beta | < | 1.12 pCi/g |
| PC-B882-001 | 0 | 2/15/96 | Gross beta | < | 1.18 pCi/g |
| PC-B854-030 | 1 | 6/23/03 | Gross beta | | 1.9 pCi/g |
| PC-B865-004 | 3 | 6/29/05 | Gross beta | < | 1.9 pCi/g |
| PC-B888-004 | 5 | 1/28/99 | Gross beta | < | 1.9 pCi/g |
| PC-B801-022 | 3 | 9/22/96 | Gross beta | | 2.26 pCi/g |
| PC-B888-006 | 5 | 1/28/99 | Gross beta | < | 2.4 pCi/g |
| PC-B801-018 | 3 | 9/30/96 | Gross beta | | 2.45 pCi/g |
| PC-B801-004 | 3 | 9/18/96 | Gross beta | | 2.48 pCi/g |

| location identifier | depth | sampled | description | < | value | units |
|---------------------|-------|----------|-------------|---|-------|-------|
| PC-B855-001 | 16 | 8/10/05 | Gross beta | | 2.5 | pCi/g |
| PC-B845-006 | 1 | 2/27/96 | Gross beta | < | 2.59 | pCi/g |
| PC-B801-021 | 3 | 9/22/96 | Gross beta | | 2.68 | pCi/g |
| PC-B865-003 | 3 | 6/29/05 | Gross beta | < | 2.8 | pCi/g |
| PC-B804-001 | 0 | 12/13/95 | Gross beta | < | 3 | pCi/g |
| PC-B827-010 | 0 | 12/13/95 | Gross beta | < | 3 | pCi/g |
| PC-B801-023 | 3 | 9/22/96 | Gross beta | | 3.01 | pCi/g |
| PC-B801-005 | 3 | 9/18/96 | Gross beta | | 3.08 | pCi/g |
| PC-B888-007 | 5 | 1/28/99 | Gross beta | | 3.1 | pCi/g |
| PC-B801-020 | 3 | 9/22/96 | Gross beta | | 3.2 | pCi/g |
| PC-B846-001 | 0 | 7/9/97 | Gross beta | | 3.2 | pCi/g |
| PC-B898-001 | 1 | 9/7/95 | Gross beta | < | 3.3 | pCi/g |
| PC-B801-019 | 3 | 9/22/96 | Gross beta | | 3.47 | pCi/g |
| PC-B809-010 | 0 | 1/19/95 | Gross beta | | 3.5 | pCi/g |
| PC-B801-009 | 3 | 9/20/96 | Gross beta | | 3.55 | pCi/g |
| PC-B801-006 | 3 | 9/18/96 | Gross beta | | 3.68 | pCi/g |
| PC-B801-022 | 1 | 9/22/96 | Gross beta | | 3.76 | pCi/g |
| PC-B827-012 | 0 | 5/7/97 | Gross beta | | 3.8 | pCi/g |
| PC-B888-001 | 1 | 1/28/99 | Gross beta | | 3.9 | pCi/g |
| PC-B888-002 | 1 | 1/28/99 | Gross beta | | 3.9 | pCi/g |
| PC-B882-003 | 0 | 2/15/96 | Gross beta | | 4 | pCi/g |
| PC-B888-005 | 5 | 1/28/99 | Gross beta | | 4 | pCi/g |
| PC-B888-010 | 1 | 1/28/99 | Gross beta | | 4 | pCi/g |
| PC-B827-012 | 0 | 5/7/97 | Gross beta | | 4.1 | pCi/g |
| PC-B851-018 | 0 | 1/19/95 | Gross beta | | 4.1 | pCi/g |
| PC-B888-003 | 3 | 1/28/99 | Gross beta | | 4.1 | pCi/g |
| PC-B823-001 | 4.5 | 6/11/96 | Gross beta | < | 4.15 | pCi/g |
| PC-B888-009 | 5 | 1/28/99 | Gross beta | | 4.2 | pCi/g |
| PC-B801-021 | 1 | 9/22/96 | Gross beta | | 4.32 | pCi/g |
| PC-B801-023 | 1 | 9/22/96 | Gross beta | | 4.35 | pCi/g |
| PC-B809-010 | 0 | 1/19/95 | Gross beta | | 4.4 | pCi/g |
| PC-B888-008 | 5 | 1/28/99 | Gross beta | | 4.4 | pCi/g |
| PC-B801-011 | 3 | 9/20/96 | Gross beta | | 4.41 | pCi/g |
| PC-B801-020 | 1 | 9/22/96 | Gross beta | | 4.46 | pCi/g |
| PC-B844-001 | 2 | 9/25/00 | Gross beta | | 4.5 | pCi/g |
| PC-B827-011 | 0 | 12/13/95 | Gross beta | | 4.6 | pCi/g |
| PC-B801-003 | 3 | 9/18/96 | Gross beta | | 4.81 | pCi/g |
| PC-B801-006 | 1 | 9/18/96 | Gross beta | | 4.87 | pCi/g |
| PC-B801-015 | 3 | 9/20/96 | Gross beta | | 4.93 | pCi/g |
| PC-B899-001 | 18 | 6/3/02 | Gross beta | < | 5 | pCi/g |
| PC-B801-010 | 3 | 9/20/96 | Gross beta | | 5.04 | pCi/g |
| PC-B801-007 | 3 | 9/17/96 | Gross beta | | 5.05 | pCi/g |
| PC-B801-005 | 1 | 9/18/96 | Gross beta | | 5.07 | pCi/g |
| PC-B827-012 | 0 | 5/7/97 | Gross beta | | 5.1 | pCi/g |
| PC-B873-005 | 0 | 10/30/97 | Gross beta | | 5.4 | pCi/g |
| PC-B845-006 | 7 | 2/27/96 | Gross beta | | 5.48 | pCi/g |
| PC-B801-019 | 1 | 9/22/96 | Gross beta | | 5.51 | pCi/g |
| PC-B832-002 | 0 | 12/16/98 | Gross beta | | 5.7 | pCi/g |
| PC-B845-006 | 4 | 2/27/96 | Gross beta | | 5.83 | pCi/g |

| location identifier | depth | sampled | description | < | value | units |
|---------------------|-------|----------|-------------|--------------------|-------|-------|
| PC-B801-018 | 1 | 9/30/96 | Gross beta | | 6.03 | pCi/g |
| PC-B801-014 | 3 | 9/20/96 | Gross beta | | 6.08 | pCi/g |
| PC-B832-001 | 0 | 6/2/98 | Gross beta | | 6.1 | pCi/g |
| PC-B834-006 | 2 | 4/19/02 | Gross beta | < | 6.4 | pCi/g |
| PC-B834-006 | 2 | 4/19/02 | Gross beta | < | 6.7 | pCi/g |
| PC-B801-004 | 1 | 9/18/96 | Gross beta | | 6.97 | pCi/g |
| PC-B815-018 | 0 | 5/18/95 | Gross beta | | 7.1 | pCi/g |
| PC-B827-012 | 0 | 5/7/97 | Gross beta | | 7.1 | pCi/g |
| PC-B801-016 | 3 | 9/20/96 | Gross beta | | 7.28 | pCi/g |
| PC-B801-017 | 3 | 9/30/96 | Gross beta | | 7.57 | pCi/g |
| PC-B801-018 | 1 | 9/30/96 | Gross beta | | 8.08 | pCi/g |
| PC-B823-002 | 4.5 | 6/11/96 | Gross beta | < | 8.25 | pCi/g |
| PC-B801-008 | 3 | 9/30/96 | Gross beta | | 8.3 | pCi/g |
| PC-B851-018 | 0 | 1/19/95 | Gross beta | | 8.4 | pCi/g |
| PC-B899-002 | 18 | 6/3/02 | Gross beta | | 8.7 | pCi/g |
| PC-B801-017 | 3 | 9/30/96 | Gross beta | | 9 | pCi/g |
| PC-B801-003 | 1 | 9/18/96 | Gross beta | | 10.02 | pCi/g |
| PC-B801-013 | 3 | 9/20/96 | Gross beta | | 10.77 | pCi/g |
| PC-B879-001 | 2 | 2/18/03 | Gross beta | | 12 | pCi/g |
| PC-B801-002 | 3 | 9/23/96 | Gross beta | | 13.4 | pCi/g |
| PC-B801-008 | 3 | 9/30/96 | Gross beta | | 13.9 | pCi/g |
| PC-B871-001 | 7.5 | 10/7/02 | Gross beta | | 18 | pCi/g |
| PC-B801-033 | 3 | 10/13/97 | Gross beta | | 21 | pCi/g |
| PC-B871-002 | 7.5 | 10/7/02 | Gross beta | | 21 | pCi/g |
| PC-B880-009 | 1.5 | 12/13/02 | Gross beta | | 21 | pCi/g |
| PC-B880-012 | 1.5 | 12/13/02 | Gross beta | | 23 | pCi/g |
| | | | | N | 86 | |
| | | | | mean | 5.8 | |
| | | | | stdev | 4.6 | |
| | | | | mean plus 2 SD | 15.0 | |
| | | | | 95%ile | 17.0 | |
| | | | | 95th utl rank | 85.5 | |
| | | | | 95th ucl of 95%ile | 18 | |