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Nuclear Regulatory Commission
Nuclear Materials Safety Branch 2
ATTN: Mr. James Schmidt
475 Allendale Road
King of Prussia, PA 19406

040-00341

Reference: License STC-133
J and K Lines FSS
DNSC Curtis Bay Depot
Curtis Bay, MD

Dear Mr. Schmidt:

Enclosed for your review, comment and approval is the
Final Status Survey for the decommissioning of the J and K
lines at the DNSC Curtis Bay Depot, Curtis Bay, MD.

Should you have any questions or require additional
information please feel free to contact me at
(703) 767-6522.

Sincerely,

F. KEVIN REILLY
Director,
Directorate of Environmental
Management Division

Attachment

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MKM Engineers, Inc.

FINAL STATUS SURVEY REPORT

(Radiological Decommissioning of J & K Lines, Curtis Bay)

FINAL STATUS SURVEY REPORT

STC-133
040 00341

**Radiological Decommissioning of J & K Lines,
Curtis Bay**

**Curtis Bay Depot
Curtis Bay, MD**

Revision 0

Prepared By:

**MKM Engineers Inc.
5025 Arnold Ave
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Sacramento, CA 95652**



September 2004

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FINAL STATUS SURVEY REPORT

Radiological Decommissioning of J & K Lines, Curtis Bay

Curtis Bay Depot
Curtis Bay, MD

Revision 0
September 2004

Prepared By:

Joel Cehn, MKM Engineers, Inc.

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ABBREVIATIONS AND ACRONYMS

cm	centimeter(s)
DCGL	derived concentration guideline level
DQA	data quality assessment
DQOs	data quality objectives
EMC	Elevated Measurement Comparison
H _a	alternative hypothesis
H _o	null hypotheses
kg	kilogram
LBGR	lower bound of the gray region
m	meter
m ²	square meter
m ³	cubic meter
MARSSIM	Multiagency Radiation Survey and Site Investigation Manual
MDC	minimum detectable concentration
MDCR	minimum detectable count rate
MDL	minimum detection level
MKM	MKM Engineers, Inc.
NaI	sodium iodide
NRC	Nuclear Regulatory Commission
pCi/g	picocuries per gram
WRS	Wilcoxon Rank Sum (statistical test)



1.0 Introduction & Background

This report presents the results of a final status survey performed at the Curtis Bay Depot (MD) in May of 2004. The survey was performed according to a *Revised Final Status Survey Plan for Curtis Bay Former J and K Line Building Areas* [Appendix F], and a *Phase II Final Status Survey Sampling Plan* [Appendix G]. Radiological characterization of the area is described in *Supplemental Site Investigation and Radiological Characterization Surveys in Support of Former J and K Line Warehouse Decommissioning at Curtis Bay Depot* [ref 2].

1.1 Site Description

The J and K rail lines traversed the Curtis Bay Depot from approximately NNW to ESE. They were part of a large rail network that served the Depot. Prior to demolition in 2002, there were eleven J and K Line warehouse buildings. Four buildings were located on the J Line and seven on the K Line. According to facility records, thorium was stored in the eight buildings located south of Kulig Road, but not in the three buildings located north of Kulig Road. Figure 1 shows the layout of the Depot in the vicinity of the J and K Lines. The figure shows the eight impacted former J and K Line building footprints and the adjacent J and K Line rail rights-of-way. The building footprints each occupy about 3,000 ft² in area (30 x 100 ft.) and are separated by about 300 ft. along the J and K Lines. The rail line rights-of-way are approximately 20 ft. in width on the main lines between the buildings. At each building, a one-way spur line branched from the main line to a loading dock that was located along the east side of each building. At each building, the rail rights-of-way expands to about 40 ft. in width to accommodate the spur. Rails and most of the ties have been removed from the rail line rights-of-way.

Prior to 1977, the J and K Line warehouse buildings were used to store thorium nitrate, described as reactor and mantle grade material (47% ThO₂ concentration). During the period of warehouse operation, the thorium nitrate was stored in fiberboard drums in the eight J and K Line Buildings located south of Kulig Rd. Many of the drums degraded in time and thorium nitrate leaked onto the flooring. In some cases, it also leaked through the flooring and into the soil below. After removal of the stored thorium nitrate, a cleanup and decontamination effort was conducted in 1997-98. As part of this effort, the DNSC removed portions of the floors and excavated soil from beneath the structures. In 1978, the US Nuclear Regulatory Commission (NRC) performed an inspection and approved release of the buildings for unrestricted use.

1.2 Prior Surveys

The J and K Line warehouse buildings were demolished in July 2002. Radiological surveys were performed to confirm that the building floors met release criteria prior to disposal [ref 3]. After building removal, a radiological characterization survey of the soil at each building footprint was conducted to determine levels and distribution of any contaminated soil that may remain [ref 2]. Results of this survey, identified as the Phase I Survey, found elevated gamma measurements (greater than twice background) at five of the eight building footprints. Soil samples showed elevated thorium concentrations in four of the building footprints (K612, K613,



K614 and K616). Because the gamma measurements were more comprehensive (hundreds of gamma readings versus five soil samples, per building footprint), the Phase I Survey concluded that five of the eight footprints (nearly all the K-line) were potentially contaminated.

As preparations were initiated for excavation of the contaminated soil in October 2002, the NRC Region I Staff conducted a site visit and inspection. During this inspection, areas of elevated soil activity were discovered in the vicinity of the rail spur at one of the K Line building locations. The Defense Logistics Agency (DLA) then requested that MKM evaluate the entire J and K Line rail and spur lines to determine if any other areas of elevated soil activity existed. This investigation found small areas of elevated surface soil activity in the vicinity of the loading docks and rail spurs adjacent to four of the six K line building sites located south of Kulig Road. A revised final status survey plan was then prepared [Appendix F].

1.3 Pre-Survey Activities

Prior to performing the FSS, final remediation was completed. A gamma characterization survey was performed on contaminated building footprints. Then, removal of contaminated soil and concrete footers (used to support the former warehouses) was completed, as follows:

- K611 – 3 hot spots and 2 footers
- K612 – 6 hot spots and 55 footers
- K613 – 5 hot spots and 4 footers
- K614 – 4 hot spots and 3 footers
- K616 – 7 hot spots and 2 footers

In addition, discarded railroad ties were screened using gamma detectors, and stockpiled (away from the survey units) for later disposal. A log of ancillary surveys is included as Appendix A.



2.0 Survey Approach

The FSS consists of performing gamma scanning using an array of scintillation detectors, coupled with a global positioning system (GPS) instrument, both electronically logging their data; and systematic soil sampling and analysis. Elevated scan readings were investigated with additional gamma readings and biased soil sampling. Survey details, including DQO's are given in Appendices F and G. Survey considerations are summarized in the following sections.

2.1 Nuclides of Concern

As seen in the Phase I survey soil sample results [ref 2], and based on the historical use of the J and K line warehouses for storage of thorium nitrate, the principal radionuclides of concern are the natural thorium series members, Th-232 + daughters. It is also seen that Cs-137 was detected in several of the samples at concentrations several times higher than nominal soil concentrations from global fallout (weapons testing and Chernobyl). As there is no history of use or storage of materials containing Cs-137 at the J and K Line warehouses, it was suspected that the Cs-137 levels seen in the Phase I samples were due to global fallout. This was confirmed in these final status survey (FSS) results, where Cs-137 concentrations in soil averaged 0.21 pCi/g. This mean and the distribution around the mean (see Appendix E) are typical of background Cs-137 (ref. 4). Therefore, the FSS approach is focused on detecting Th-232 and daughters, both in soil samples and by gamma scanning.

2.2 Acceptable Residual Activity Levels (DCGLs)

The release criterion ($DCGL_w$) is 1.1 pCi/g Th-232 (and daughters – assumed to be in secular equilibrium). In determining compliance with site release criteria, each impacted portion of the site (individual survey unit) is examined. The three compliance tests outlined in MARSSIM [ref 1], summarized in Section 4.2 below, were applied to the results from each survey unit.

In addition to satisfaction of tests for comparison of survey unit sample means (medians) to DCGLs, consideration is given to treatment of small areas of elevated activity. An evaluation was conducted to determine an appropriate value for $DCGL_{EMC}$, the guideline value applied to small areas of elevated activity. For this survey, the largest “un-sampled area” in a Class I survey unit is about 48 m² [Appendix F]. An Area Factor value of 2.2 for Th-232 corresponding to 48 m² is obtained from MARSSIM Table 5.6 (by interpolation). The $DCGL_{EMC}$ is then found to equal ~ 2.4 pCi/g Th-232 ($DCGL_{EMC} = \text{Area Factor} \times DCGL$, or 2.2×1.1 pCi/g). The $DCGL_{EMC}$ determines the scan sensitivity needed to ensure that potential areas of elevated activity (that could lie between sampled areas) would be detected. The $DCGL_{EMC}$ compares well to the scanning MDC for this survey, estimated at 2.0 pCi/g (see Appendix B.)

2.3 Identification and Classification of Survey Units

Based on results of the November 2002 supplemental characterization survey and the June 2002 Phase I characterization survey, the, the six-survey units covering the impacted K Line building



footprints and adjacent rail lines (spur and main line) are classified as MARSSIM Class 1. The Building K511 footprint, located north of Kulig Rd. is the designated reference area for background determinations and statistical comparison tests of FSS results. The two J Line warehouse footprints and two survey units established to cover the J Line rail rights-of-way are classified as Class 2. These areas are not expected to yield FSS measurements in excess of the DCGL_w. Finally, 15ft. buffers around the K line footprints and the rail rights-of-way along the K line are also Class 2 areas. The conceptual layout of the survey units established for the FSS and their classification is shown in Figure 1 and described in Table 1.

2.4 Systematic Sampling Locations

Sample locations in each survey unit were established using the Visual Sample Plan (VSP)¹, software package.¹ The VSP module for implementation of MARSSIM non-parametric sampling designs was re-run prior to sampling. Sample locations were established by systematic sampling on a triangular grid with random starting location. Input parameters are given in the FSS Plan. The VSP output for each survey unit includes a graphic (to scale) showing sample locations and a table of coordinates for each sample location. Coordinates for the sample locations in each survey unit are expressed in terms of the Maryland State Plane coordinate system to provide location references relative to the Curtis Bay site. These are given in Appendix C. Graphics are shown in Figures 2 through 6.

The minimum number of samples calculated in the FSS Plan was obtained, with one exception. Two K611 samples were not properly analyzed by the lab, resulting in 16 samples, rather than the 18 required. However, the 20% "overage" factor in the calculation should account for problems such as this.

¹ Visual Sample Plan is a software program for statistical design of environmental sampling plans developed by Battelle Memorial Institute at Pacific Northwest Laboratories. The current version is 2.1. (see the VSP web site at "www.dqo.pnl.gov/vsp/").



3.0 Survey Results

Scanning survey results were reviewed and analyzed. Outlier results were identified and investigated with additional gamma readings and biased soil sampling. Systematic soil sampling data were analyzed per MARSSIM protocols.

3.1 Scanning Results

Scanning results are shown graphically in Figures 7 through 11 and in Appendix E. In addition to the technicians' real-time review during scanning, gamma scanning results were electronically logged and reviewed at the end of each day. A preliminary investigation level of 18,000 cpm was used, based on approximately two times background. This investigation level was not exceeded. However, background levels are not uniform across the site. So, the data were plotted in histograms to identify outliers. These are shown in Appendix E. Additionally, box and whisker plots are also presented in Appendix E. Outliers were investigated in survey units J621 and J622 and appear to be due to gravel rail beds. Results of soil sampling at these locations are given below.

3.2 Soil Sampling Data

Soil samples were analyzed by gamma spectroscopy for Th-232 concentrations. Results are given in Tables 2 through 14. These results were evaluated using the following approach:

Survey Result	Conclusion
Difference between the largest survey measurement and the smallest background measurement is less than the $DCGL_w$.	Site meets release criterion.
Difference between the average survey measurement and the average reference area measurement is greater than the $DCGL_w$.	Site does not meet release criterion.
Difference between the average survey measurement and the average background measurement is less than the $DCGL$, but the difference between any site measurement and any background measurement exceeds the $DCGL_w$.	Site meets release criterion if Wilcoxon rank sum test is negative.

Since all eleven survey units had at least one result above the $DCGL_w$, all were subject to the Wilcoxon rank sum test. The test was performed and results are given in Table 15 and Appendix E. In all cases, the rank sum of the reference area exceeded the critical values, showing that the mean values of Th-232 in the survey units do not exceed the mean value in the reference area



plus the DCGL_w. Additionally, laboratory analytical reports are provided in Appendix D of this report.

Results for biased sampling, performed to investigate scanning results, are given in Table 14 as "INV" samples. Biased soil samples collected at topographic low points/depressions are numbered as "LD." One biased sample was collected at the end of a culvert that drains the area between K613 and K614. These were called for in the survey plan to investigate possible migration by surface water runoff. All results are less than the DCGL_w.

3.3 Other Sampling Data

Because the K616 footprint was flooded and had to be dewatered several times, samples of surface water were collected ("DW" or "POND"). Chemical analysis for thorium was preferred for these since it offered greater sensitivity. However, several samples were analyzed by gamma spectroscopy due to miscommunication with the lab. These latter samples were reported to contain 5 to 6 pCi/L but with MDCs of 4 to 5 pCi/L. Given that the previous sample analyzed chemically only contained thorium at 8 ug/L (0.8 pCi/L), the gamma spec results are suspect and are probably actually less than MDC. In any event, those results are less than the 10CFR20 Appendix B release limit of 30 pCi/L. Results are shown in Table 14.



4.0 References

1. US Environmental Protection Agency, et. al. "Multi-Agency Radiation Survey and Site Investigation Manual" (MARSSIM). NUREG-1575/ EPA402-R-97-016, August 2000.
2. MKM Engineers, Inc. "Supplemental Site Investigation and Radiological Characterization Surveys in Support of Former J and K Line Warehouse Decommissioning at Curtis Bay Depot", December 2002.
3. MKM Engineers, Inc, "Radiological Survey in Support of Decommissioning of J- and K-line Buildings at Curtis Bay Depot, September, 2002a.
4. Wallo III, et. al, "Investigations of Natural Variations of Cs-137 Concentrations in Residential Soils", Health Physics, June 1994; 66 (6 Suppl).



5.0 Tables

Table 1 Survey Units

Survey Unit	Class	X Dimension (ft)	Y Dimension (ft)	Area (m ²)
K611	1	80	100	743.2
K612	1	80	100	743.2
K613	1	80	100	743.2
K614	1	80	100	743.2
K615	1	80	100	743.2
K616	1	80	100	743.2
K511	Ref	60	130	724.6
K-1	2	45	125	364.6
K611-B	2	190	15	264.8
K-2	2	45	310	1081.2
K612-B	2	190	15	264.8
K-A Totals				1975.4
K-3	2	40	305	759.4
K613-B	2	190	15	264.8
K-4	2	40	294	702.3
K614-B	2	190	15	264.8
K-B Totals				1991.3
K-5	2	40	304	714.0
K615-B	2	190	15	264.8
K-6	2	40	300	783.6
K616-B	2	190	15	264.8
K-7	2	40	136	505.4
K-C Totals				2532.5
J-1	2	40	354	1315.5
K621	2	45	130	543.5
J621 Totals				1859.0
J-2	2	35	415	1349.4
J622	2	45	130	543.5
J622 Totals				1892.9

Note: Dimensions are approximate.



Table 2 Lab Results K511

Sample No.	Analyte	Result	Units	Uncertainty	MDL	Sampled
K511-01	Th-232	0.866	pCi/g	0.024	0.0995	5/27/04
K511-02	Th-232	0.735	pCi/g	0.016	0.0790	5/27/04
K511-03	Th-232	0.786	pCi/g	0.017	0.0869	5/27/04
K511-04	Th-232	0.162	pCi/g	0.010	0.0410	5/27/04
K511-05	Th-232	0.383	pCi/g	0.026	0.0575	5/27/04
K511-06	Th-232	0.862	pCi/g	0.017	0.0730	5/27/04
K511-07	Th-232	1.123	pCi/g	0.020	0.0901	5/27/04
K511-08	Th-232	0.314	pCi/g	0.034	0.0692	5/27/04
K511-09	Th-232	0.796	pCi/g	0.027	0.0791	5/27/04
K511-10	Th-232	0.91	pCi/g	0.022	0.0694	5/27/04
K511-11	Th-232	1.005	pCi/g	0.017	0.0964	5/27/04
K511-12	Th-232	1.014	pCi/g	0.021	0.0986	5/27/04
K511-13	Th-232	0.783	pCi/g	0.022	0.1014	5/27/04
K511-14	Th-232	0.924	pCi/g	0.020	0.0981	5/27/04

Table 3 Lab Results K611

Sample No.	Analyte	Result	Units	Uncertainty	MDL	Sampled
K611-01	Th-232	0.921	pCi/g	0.1272	0.026	07/27/04
K611-03	Th-232	1.853	pCi/g	0.1438	0.031	07/28/04
K611-04	Th-232	2.100	pCi/g	0.231	0.1130	06/21/04
K611-05	Th-232	1.821	pCi/g	0.2022	0.032	07/28/04
K611-06	Th-232	1.811	pCi/g	0.1484	0.023	07/28/04
K611-07	Th-232	1.380	pCi/g	0.229	0.0801	06/21/04
K611-08	Th-232	1.408	pCi/g	0.1663	0.031	07/28/04
K611-09	Th-232	1.321	pCi/g	0.1406	0.028	07/27/04
K611-10	Th-232	1.984	pCi/g	0.1889	0.043	07/27/04
K611-11	Th-232	0.676	pCi/g	0.400	0.0471	06/21/04
K611-12	Th-232	1.052	pCi/g	0.1352	0.029	07/27/04
K611-13	Th-232	0.757	pCi/g	0.075	0.0786	06/01/04
K611-14	Th-232	0.985	pCi/g	0.016	0.0790	06/01/04
K611-15	Th-232	1.501	pCi/g	0.027	0.1314	06/21/04
K611-17	Th-232	0.580	pCi/g	0.013	0.0736	06/01/04
K611-18	Th-232	1.760	pCi/g	0.311	0.1070	06/21/04



Table 4 Lab Results K612

Sample No.	Analyte	Result	Units	Uncertainty	MDL	Sampled
K612-01	Th-232	1.305	pCi/g	0.028	0.1673	6/23/04
K612-02	Th-232	1.239	pCi/g	0.016	0.1237	6/23/04
K612-03	Th-232	1.073	pCi/g	0.021	0.1196	6/23/04
K612-04	Th-232	1.170	pCi/g	0.029	0.1114	6/23/04
K612-05	Th-232	1.910	pCi/g	0.036	0.2177	6/23/04
K612-06	Th-232	1.304	pCi/g	0.031	0.1155	6/23/04
K612-07	Th-232	2.082	pCi/g	0.030	0.1862	6/23/04
K612-08	Th-232	0.898	pCi/g	0.020	0.1156	6/23/04
K612-09	Th-232	1.092	pCi/g	0.027	0.1186	6/23/04
K612-10	Th-232	1.251	pCi/g	0.033	0.1148	6/23/04
K612-11	Th-232	1.258	pCi/g	0.028	0.1344	6/23/04
K612-12	Th-232	0.766	pCi/g	0.017	0.0814	6/23/04
K612-13	Th-232	1.022	pCi/g	0.026	0.1069	6/23/04
K612-14	Th-232	1.271	pCi/g	0.023	0.1243	6/23/04
K612-15	Th-232	1.595	pCi/g	0.033	0.1703	6/23/04
K612-16	Th-232	1.115	pCi/g	0.030	0.1455	6/23/04
K612-17	Th-232	1.019	pCi/g	0.025	0.1349	6/23/04
K612-18	Th-232	1.432	pCi/g	0.039	0.1809	6/23/04

Table 5 Lab Results K613

Sample No.	Analyte	Result	Units	Uncertainty	MDL	Sampled
K613-01	Th-232	1.178	pCi/g	0.019	0.0792	6/16/04
K613-02	Th-232	0.910	pCi/g	0.018	0.0923	6/16/04
K613-03	Th-232	1.150	pCi/g	0.020	0.0784	6/16/04
K613-04	Th-232	1.100	pCi/g	0.206	0.0715	6/16/04
K613-05	Th-232	2.371	pCi/g	0.026	0.1632	6/16/04
K613-06	Th-232	1.582	pCi/g	0.026	0.1571	6/21/04
K613-07	Th-232	1.305	pCi/g	0.027	0.0983	6/16/04
K613-08	Th-232	1.258	pCi/g	0.028	0.1268	6/16/04
K613-09	Th-232	2.189	pCi/g	0.030	0.1777	6/16/04
K613-10	Th-232	1.533	pCi/g	0.022	0.1145	6/16/04
K613-11	Th-232	1.459	pCi/g	0.018	0.1094	6/16/04
K613-12	Th-232	1.140	pCi/g	0.175	0.0675	6/16/04
K613-13	Th-232	1.152	pCi/g	0.019	0.0793	6/16/04
K613-14	Th-232	1.380	pCi/g	0.238	0.0881	6/21/04
K613-15	Th-232	1.200	pCi/g	0.156	0.0629	6/16/04
K613-16	Th-232	2.401	pCi/g	0.031	0.2098	6/16/04
K613-17	Th-232	2.155	pCi/g	0.025	0.1552	6/21/04
K613-18	Th-232	1.366	pCi/g	0.020	0.1090	6/16/04



Table 6 Lab Results K614

Sample No.	Analyte	Result	Units	Uncertainty	MDL	Sampled
K614-01	Th-232	7.89E-01	pCi/g	1.70E-02	7.72E-02	06/03/04
K614-02	Th-232	9.49E-01	pCi/g	1.70E-02	8.88E-02	06/03/04
K614-03	Th-232	1.03E+00	pCi/g	1.60E-02	8.60E-02	06/03/04
K614-04	Th-232	8.83E-01	pCi/g	1.90E-02	1.03E-01	06/03/04
K614-05	Th-232	1.97E+00	pCi/g	3.30E-02	1.72E-01	06/03/04
K614-06	Th-232	1.77E+00	pCi/g	2.30E-02	1.30E-01	06/03/04
K614-07	Th-232	8.99E-01	pCi/g	1.70E-02	6.67E-02	06/03/04
K614-08	Th-232	6.52E-01	pCi/g	1.80E-02	6.49E-02	06/03/04
K614-09	Th-232	1.19E+00	pCi/g	2.10E-02	1.01E-01	06/03/04
K614-10	Th-232	1.43E+00	pCi/g	1.90E-02	1.13E-01	07/03/04
K614-11	Th-232	7.72E-01	pCi/g	1.60E-02	8.68E-02	06/03/04
K614-12	Th-232	7.95E-01	pCi/g	2.00E-02	6.42E-02	06/03/04
K614-13	Th-232	1.65E+00	pCi/g	2.80E-02	1.61E-01	06/03/04
K614-14	Th-232	2.15E+00	pCi/g	9.82E-02	2.53E-01	07/10/04
K614-15	Th-232	9.90E-01	pCi/g	1.50E-02	8.64E-02	06/03/04
K614-16	Th-232	1.43E+00	pCi/g	1.80E-02	1.08E-01	06/03/04
K614-17	Th-232	1.19E+00	pCi/g	1.90E-02	1.01E-01	06/03/04
K614-18	Th-232	1.81E+00	pCi/g	2.30E-02	1.37E-01	06/03/04

Table 7 Lab Results K615

Sample No.	Analyte	Result	Units	Uncertainty	MDL	Sampled
K615-01	Th-232	0.820	pCi/g	0.016	0.0733	06/09/04
K615-02	Th-232	1.862	pCi/g	0.024	0.1334	06/09/04
K615-03	Th-232	1.110	pCi/g	0.178	0.0646	06/09/04
K615-04	Th-232	1.599	pCi/g	0.021	0.1163	06/09/04
K615-05	Th-232	1.611	pCi/g	0.023	0.1073	06/21/04
K615-06	Th-232	0.799	pCi/g	0.018	0.0850	06/09/04
K615-07	Th-232	0.698	pCi/g	0.024	0.0945	06/09/04
K615-08	Th-232	2.412	pCi/g	0.023	0.1559	06/09/04
K615-09	Th-232	2.447	pCi/g	0.033	0.1815	06/21/04
K615-10	Th-232	0.819	pCi/g	0.018	0.0849	06/09/04
K615-11	Th-232	0.788	pCi/g	0.146	0.0568	06/09/04
K615-12	Th-232	1.140	pCi/g	0.644	0.0712	06/09/04
K615-13	Th-232	1.192	pCi/g	0.021	0.1086	06/09/04
K615-14	Th-232	0.803	pCi/g	0.018	0.0848	06/09/04
K615-15	Th-232	1.769	pCi/g	0.024	0.1269	06/09/04
K615-16	Th-232	2.408	pCi/g	0.030	0.1726	06/21/04
K615-17	Th-232	0.801	pCi/g	0.019	0.0859	06/09/04
K615-18	Th-232	2.209	pCi/g	0.028	0.1857	06/22/04



Table 8 Lab Results K616

Sample No.	Analyte	Result	Units	Uncertainty	MDL	Sampled
K616-01	Th-232	1.542	pCi/g	0.024	0.1290	06/18/04
K616-02	Th-232	1.210	pCi/g	0.021	0.0994	06/18/04
K616-03	Th-232	0.484	pCi/g	0.021	0.0574	06/23/04
K616-04	Th-232	0.978	pCi/g	0.018	0.0915	06/23/04
K616-05	Th-232	2.453	pCi/g	0.026	0.1614	06/18/04
K616-06	Th-232	1.078	pCi/g	0.023	0.1075	06/18/04
K616-07	Th-232	1.109	pCi/g	0.020	0.0757	06/18/04
K616-08	Th-232	0.900	pCi/g	0.020	0.1067	06/23/04
K616-09	Th-232	0.652	pCi/g	0.019	0.0743	06/23/04
K616-10	Th-232	1.240	pCi/g	0.500	0.0715	06/18/04
K616-11	Th-232	0.612	pCi/g	0.019	0.0901	06/18/04
K616-12	Th-232	0.61602	pCi/g	0.4739	0.2	06/23/04
K616-13	Th-232	1.671	pCi/g	0.025	0.1091	06/18/04
K616-14	Th-232	1.130	pCi/g	0.186	0.0684	06/18/04
K616-15	Th-232	0.483	pCi/g	0.013	0.0584	06/23/04
K616-16	Th-232	0.844	pCi/g	0.018	0.1026	06/23/04
K616-17	Th-232	1.518	pCi/g	0.022	0.1219	06/18/04
K616-18	Th-232	0.815	pCi/g	0.021	0.0802	06/18/04

Table 9 Lab Results J621

Sample No.	Analyte	Result	Units	Uncertainty	MDL	Sampled
J621-01	Th-232	8.32E-01	pCi/g	4.80E-02	1.19E-01	06/04/04
J621-02	Th-232	1.41E+00	pCi/g	3.00E-02	1.50E-01	06/04/04
J621-03	Th-232	7.67E-01	pCi/g	3.50E-02	1.27E-01	06/04/04
J621-04	Th-232	4.23E-01	pCi/g	3.20E-02	8.27E-02	06/04/04
J621-05	Th-232	9.49E-01	pCi/g	2.60E-02	9.57E-02	06/04/04
J621-06	Th-232	1.05E+00	pCi/g	3.80E-02	1.22E-01	06/04/04
J621-07	Th-232	1.76E+00	pCi/g	2.60E-02	1.66E-01	06/04/04
J621-08	Th-232	1.14E+00	pCi/g	3.30E-02	1.31E-01	06/07/04
J621-09	Th-232	9.74E-01	pCi/g	2.40E-02	1.15E-01	06/07/04
J621-10	Th-232	1.51E+00	pCi/g	1.90E-02	1.24E-01	06/07/04
J621-11	Th-232	8.81E-01	pCi/g	2.60E-02	7.96E-02	06/07/04
J621-12	Th-232	6.77E-01	pCi/g	3.50E-02	1.08E-01	06/07/04
J621-13	Th-232	9.21E-01	pCi/g	2.70E-02	1.24E-01	06/07/04
J621-14	Th-232	2.44E+00	pCi/g	3.40E-02	2.04E-01	06/07/04



Table 10 Lab Results J622

Sample No.	Analyte	Result	Units	Uncertainty	MDL	Sampled
J622-01	Th-232	1.05E+00	pCi/g	2.00E-02	9.81E-02	06/04/04
J622-02	Th-232	1.19E+00	pCi/g	2.00E-02	1.02E-01	06/04/04
J622-03	Th-232	1.63E+00	pCi/g	2.10E-02	1.21E-01	06/04/04
J622-04	Th-232	1.06E+00	pCi/g	2.30E-02	1.10E-01	06/04/04
J622-05	Th-232	1.07E+00	pCi/g	2.60E-02	1.07E-01	06/04/04
J622-06	Th-232	5.49E-01	pCi/g	2.50E-02	7.05E-02	06/04/04
J622-07	Th-232	8.79E-01	pCi/g	2.60E-02	1.18E-01	06/04/04
J622-08	Th-232	9.83E-01	pCi/g	3.80E-02	1.09E-01	06/04/04
J622-09	Th-232	1.34E+00	pCi/g	3.40E-02	1.35E-01	06/04/04
J622-10	Th-232	1.24E+00	pCi/g	3.20E-02	1.47E-01	06/04/04
J622-11	Th-232	2.51E-01	pCi/g	2.50E-02	5.77E-02	06/04/04
J622-12	Th-232	1.22E+00	pCi/g	2.80E-02	1.17E-01	06/04/04
J622-13	Th-232	1.92E+00	pCi/g	2.80E-02	1.75E-01	06/04/04
J622-14	Th-232	1.61E+00	pCi/g	4.00E-02	1.92E-01	06/04/04

Table 11 Lab Results KA

Sample No.	Analyte	Result	Units	Uncertainty	MDL	Sampled
KA-01	Th-232	1.162	pCi/g	0.025	0.1471	06/22/04
KA-02	Th-232	1.302	pCi/g	0.024	0.1374	06/22/04
KA-03	Th-232	0.641	pCi/g	0.017	0.1028	06/22/04
KA-04	Th-232	0.652	pCi/g	0.031	0.0824	06/22/04
KA-05	Th-232	0.959	pCi/g	0.027	0.1129	06/22/04
KA-06	Th-232	1.656	pCi/g	0.029	0.1319	06/22/04
KA-07	Th-232	2.133	pCi/g	0.042	0.2113	06/22/04
KA-08	Th-232	0.748	pCi/g	0.021	0.0850	06/22/04
KA-09	Th-232	0.949	pCi/g	0.028	0.1240	06/22/04
KA-10	Th-232	1.006	pCi/g	0.025	0.1291	06/22/04
KA-11	Th-232	0.995	pCi/g	0.031	0.1387	06/22/04
KA-12	Th-232	0.991	pCi/g	0.034	0.1108	06/22/04
KA-13	Th-232	1.439	pCi/g	0.030	0.1463	06/22/04
KA-14	Th-232	0.994	pCi/g	0.034	0.1618	06/22/04



Table 12 Lab Results KB

Sample No.	Analyte	Result	Units	Uncertainty	MDL	Sampled
KB-01	Th-232	1.724	pCi/g	0.027	0.1522	06/22/04
KB-02	Th-232	0.498	pCi/g	0.030	0.0922	06/22/04
KB-03	Th-232	2.199	pCi/g	0.028	0.1877	06/22/04
KB-04	Th-232	1.596	pCi/g	0.044	0.1679	06/22/04
KB-05	Th-232	1.526	pCi/g	0.027	0.1539	06/22/04
KB-06	Th-232	1.137	pCi/g	0.027	0.1428	06/22/04
KB-07	Th-232	1.179	pCi/g	0.022	0.1286	06/22/04
KB-08	Th-232	0.938	pCi/g	0.026	0.1335	06/22/04
KB-09	Th-232	2.430	pCi/g	0.038	0.2355	06/22/04
KB-10	Th-232	1.306	pCi/g	0.041	0.1344	06/22/04
KB-11	Th-232	1.060	pCi/g	0.030	0.1224	06/22/04
KB-12	Th-232	1.208	pCi/g	0.029	0.1160	06/22/04
KB-13	Th-232	0.613	pCi/g	0.043	0.0987	06/22/04
KB-14	Th-232	0.700	pCi/g	0.017	0.0817	06/22/04

Table 13 Lab Results KC

Sample No.	Analyte	Result	Units	Uncertainty	MDL	Sampled
KC-01	Th-232	1.55E+00	pCi/g	2.80E-02	1.51E-01	06/22/04
KC-02	Th-232	8.39E-01	pCi/g	1.80E-02	6.96E-02	06/04/04
KC-03	Th-232	2.25E+00	pCi/g	3.50E-02	1.93E-01	06/22/04
KC-04	Th-232	1.15E+00	pCi/g	2.20E-02	1.06E-01	06/04/04
KC-05	Th-232	3.01E-01	pCi/g	3.20E-02	8.18E-02	06/22/04
KC-06	Th-232	7.01E-01	pCi/g	1.70E-02	5.86E-02	06/04/04
KC-07	Th-232	8.27E-01	pCi/g	1.60E-02	7.39E-02	06/04/04
KC-08	Th-232	2.33E+00	pCi/g	3.50E-02	2.04E-01	06/22/04
KC-09	Th-232	5.13E-01	pCi/g	1.50E-02	5.39E-02	06/04/04
KC-10	Th-232	1.78E+00	pCi/g	3.50E-02	1.68E-01	06/22/04
KC-11	Th-232	8.44E-01	pCi/g	3.70E-02	1.09E-01	06/22/04
KC-12	Th-232	7.67E-01	pCi/g	2.00E-02	7.25E-02	06/04/04
KC-13	Th-232	1.07E+00	pCi/g	1.80E-02	7.32E-02	06/04/04
KC-14	Th-232	6.94E-01	pCi/g	2.90E-02	8.79E-02	06/22/04



Table 14 Other Results

Sample No.	Analyte	Result	Units	Uncertainty	MDL	Sampled
Surface Water						
K616-POND	Thorium	8	ug/L	-	2	05/13/04
K616DW-02	Th-232	5.475	pCi/L	5.160	4.3784	06/09/04
K616DW-03	Th-232	6.333	pCi/L	6.180	5.2442	06/14/04
Soil Investigations						
K613-14 CULVERT	Th-232	1.317	pCi/g	0.021	0.0843	05/27/04
J621-INV-01	Th-232	0.46	pCi/g	0.06	0.28	06/03/04
J621-INV-02	Th-232	0.87	pCi/g	0.06	0.33	06/03/04
J621 INV-03	Th-232	1.66	pCi/g	0.12	0.5	06/03/04
J622-INV-01	Th-232	1.905	pCi/g	0.1734	0.034	06/03/04
J622-INV-02	Th-232	0.31	pCi/g	0.03	0.25	06/03/04
J622-INV-03	Th-232	0.56	pCi/g	0.08	0.35	06/03/04
K611LD	Th-232	0.471	pCi/g	0.013	0.0466	05/21/04
K612LD	Th-232	0.889	pCi/g	0.017	0.0880	05/21/04
K613LD	Th-232	0.822	pCi/g	0.019	0.0625	06/02/04

Thorium analysis by ICP/MS/MS is in ug/L. 8ug/L \approx 0.8 pCi/L.

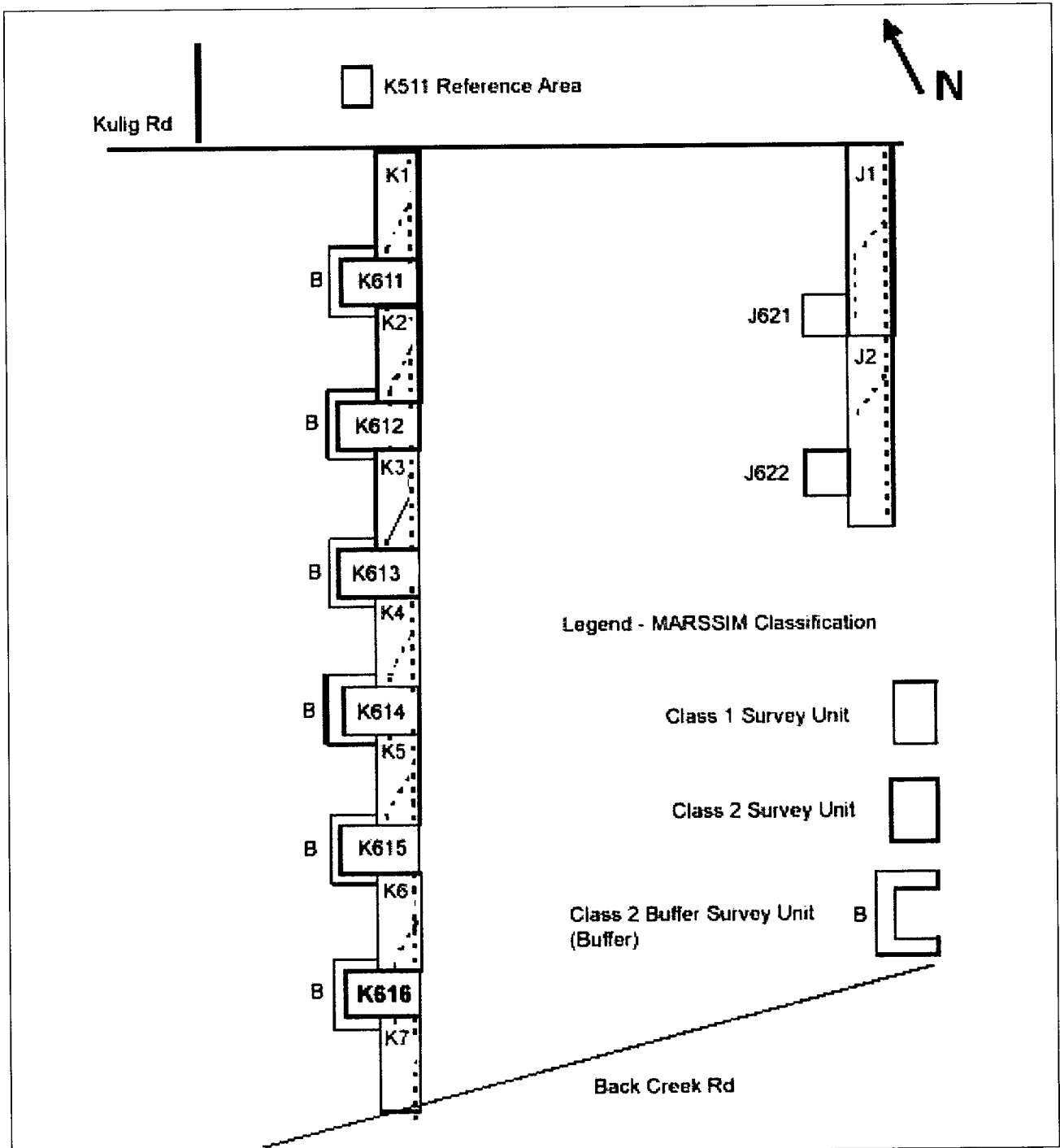
Table 15 Summary of Statistical Tests on Soil Sample Data

Survey Unit	Maximum Th-232 Concentration (pCi/g)	Number of Soil Samples	Rank Sum of Reference Area	Critical Value
Class 1				
611K	2.10	16	290	257
612K	2.08	18	331	274
613K	2.40	18	292	274
614K	2.15	18	322	274
615K	2.45	18	289	274
616K	2.45	18	334	274
Class 2				
KA	2.13	14	282	239
KB	2.43	14	264	239
KC	2.33	14	267	239
J621	2.44	14	280	239
J622	1.92	14	287	239

Notes: All survey units had at least one result greater than the DCGL (1.86 pCi/g gross; 1.1 pCi/g net).
Statistical test used is Wilcoxon rank sum test.

6.0 Figures

Figure 1 Curtis Bay Depot – Former J and K Lines FSS Survey Units





APPENDIX A

Ancillary Survey Log



Curtis Bay Survey Log

R=Rad C=Cont. RC=Rad/Cont.	D=Daily W=Weekly	DRC=Daily Rad/Cont. WRC=Weekly Rad/Cont. WC=Weekly Cont. WR=Weekly Rad.	IC=In Coming DEP=Departure SS=Super Sack
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Survey Number	Date	Description	Tech
CBAD-IC-001-04	5/7/04	Admin Trailer Incoming Survey	CB
CBAD-IC-002-04	5-7-04	GENERATOR - INCOMING	BN
CBAD-IC-003-04	5-7-04	BACK-HOE - INCOMING	BN
CBAD-IC-004-04	5-7-04	CLUB CAR - INCOMING	BN
CBAD-IC-005-04	5-7-04	PORTA JOHN - INCOMING	BN
CBAD-IC-006-04	5-7-04	JOHN DEERE 4300 TRACTOR - INCOMING	BN
CBAD-IC-007-04	5-7-04	HONDA TRACTOR PUMP - INCOMING	BN
CBAD-DEP-008-04	5-14-04	JOHN DEERE 4300 TRACTOR - FREE RELEASE	CB
CBAD-DEP-009-04	5-14-04	TAMUKA FREE RELEASE WHEELBARROW TCB 4720	CB
CBAD-DEP-010-04	5-14-04	ARIENS WOOD MOWER 57622 Free Release	CB
CBAD-R-011-04	5-17-04	K-616 FOOTPRINT	BN
CBAD-R-012-04		K-614 FOOTPRINT	BN
CBAD-R-013-04		K-613 FOOTPRINT	BN
CBAD-R-014-04		K-612 FOOTPRINT	BN
CBAD-R-015-04	5-17-04	K-611 FOOTPRINT	BN
CBAD-R-016-04	5-19-04	RAILROAD TIES PILE K-612	BN
CBAD-R-017-04		RAILROAD TIES PILE K-613	BN
CBAD-R-018-04		RAILROAD TIES PILE K-614, 615	BN
CBAD-R-019-04		RAILROAD TIES PILE K-616	BN
CBAD-R-020-04	5-19-04	RAILROAD TIES PILE J-621, 622	BN
CBAD-RC-021-04	5-26-04	PORTA-JOHN (MONTHLY)	BN
CBAD-RC-022-04		GENERATOR (MONTHLY)	BN
CBAD-RC-023-04		ADMIN TRAILER (MONTHLY)	BN
CBAD-RC-024-04		CLUB CAR (MONTHLY)	LR
CBAD-RC-025-04		BACK-HOE (MONTHLY)	CM
CBAD-RC-026-04		DIESEL FUEL TANK	BN
CBAD-DEP-027-04	5-26-04	TRACTOR PUMP AND HOSES (FREE RELEASE)	CB
CBAD-IC-028-04	6-2-04	JLG FORKLIFT (INCOMING)	BN



Curtis Bay Survey Log

R-Rad. C-Cont. RC-Rad/Cont.	D-Daily W-Weekly	DRC-Daily Rad/Cont. WRC-Weekly Rad/Cont. WC-Weekly Cont. WR-Weekly Rad.	IC-In Closing DIP-Departure SS-Super Sack
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Survey Number	Date	Description	Tech
CBAD-IC-029-04	6-9-04	TRASH Pump (Incoming)	BN
CBAD-IC-030-04	6/14/04	Incoming Trk # 569 / Tel # 108	CB
CBAD-IC-031-04	6/14/04	Outgoing Trk # 569 / Tel # 108	CB
CBAD-IC-032-04	6-15-04	TRUCK 42-67 (Incoming)	CB
CBAD-IC-033-04	6-15-04	TRUCK 42-75 (Incoming)	CB
CBAD-DEP-034-04	6-15-04	TRUCK 42-67 (Outgoing)	CB
CBAD-DEP-035-04	6-15-04	TRUCK 42-75 (Outgoing)	CB
CBAD-DEP-036-04	6-16-04	CLUB GAS (FREE RELEASE)	BN
CBAD-IC-037-04	6-17-04	Incoming TRUCK # 574 / TEL A92171	CB
CBAD-DEP-038-04	6-17-04	TRUCK # 574 / TEL A92171 (Outgoing)	CB
CBAD-DEP-039-04	6-18-04	BACKHOLE (FREE RELEASE)	CB
CBAD-DEP-040-04	6-21-04	TLG FORKLIFT (FREE RELEASE)	BN
CBAD-DEP-041-04	6-21-04	PORTA-John (FREE RELEASE)	BN
CBAD-DEP-042-04	6-21-04	DIESEL FUEL TANK (FREE RELEASE)	BN
CBAD-IC-043-04	6-21-04	TRUCK # 42-76 / 083A (Incoming)	CB
CBAD-DEP-044-04	6-21-04	TRUCK # 42-76 / 083A (Outgoing)	CB
CBAD-RC-045-04	6-21-04	Box # 6 - B-25	CB
CBAD-RC-046-04	6-21-04	Box # 2 - B-25	CB
CBAD-RC-047-04	6-21-04	Box # 3 - B-25	CB
CBAD-RC-048-04	6-21-04	Box # 4 - B-25	CB
CBAD-RC-049-04	6-21-04	Box # 5 - B-25	CB
CBAD-DEP-050-04	6-22-04	HEAT GENERATOR (FREE RELEASE)	BN
CBAD-DEP-051-04	6-23-04	ADMIN. TRAILER (FREE RELEASE)	BN
CBAD-DEP-052-04	6-23-04	TRASH Pump (FREE RELEASE)	BN
CBAD-R-053-04	5-27-04	J Line 621 High Gamma Investigation	BN
CBAD-R-054-04	5-27-04	J Line 622 High Gamma Investigation	CB
CBAD			
CBAD			



Figure 2 Building K511 Footprint Sample Locations

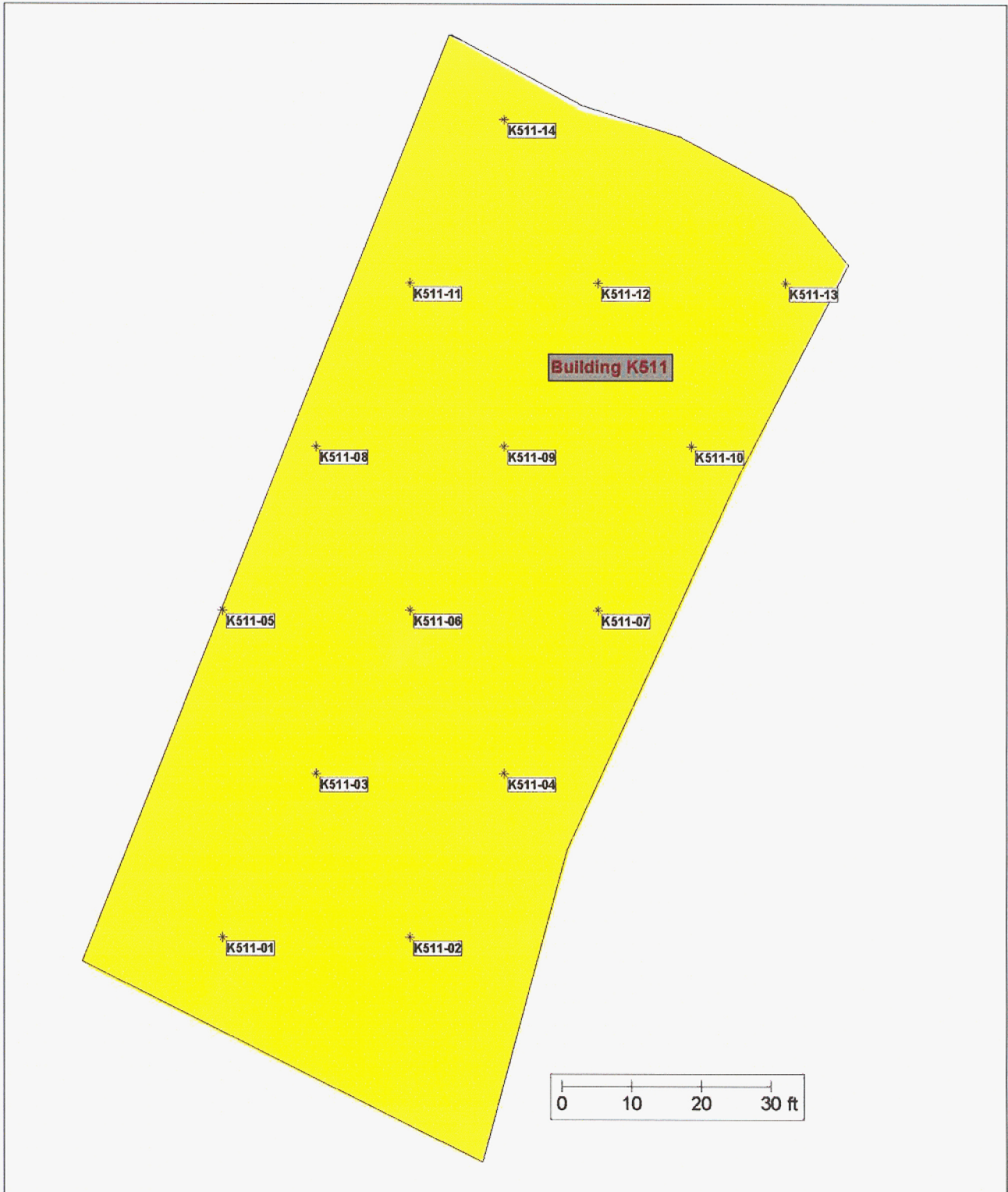




Figure 3 KA Line and Buildings K611 and K612 Footprint Sample locations

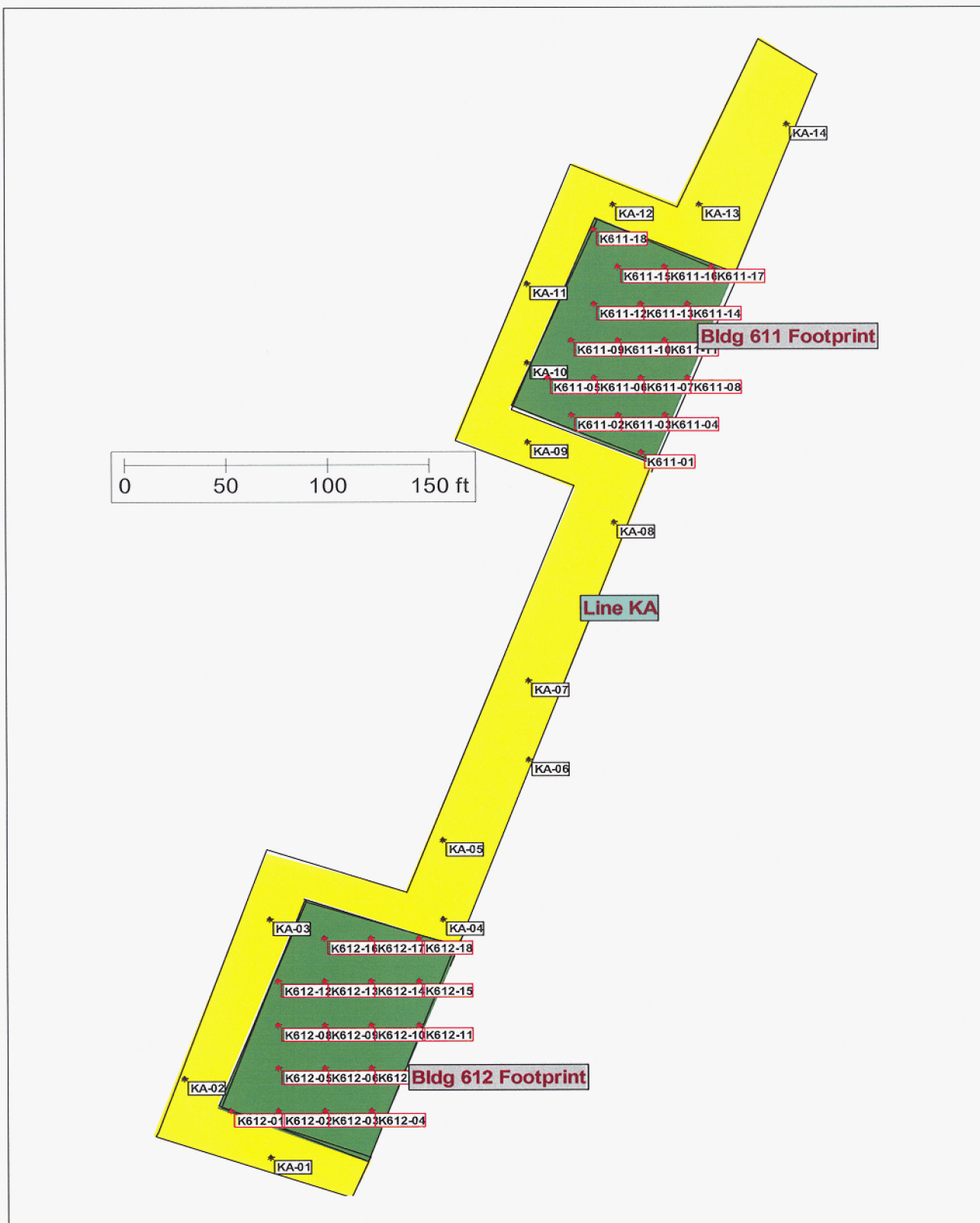


Figure 4 KB Line and Buildings K613 and K614 Footprint Sample Locations

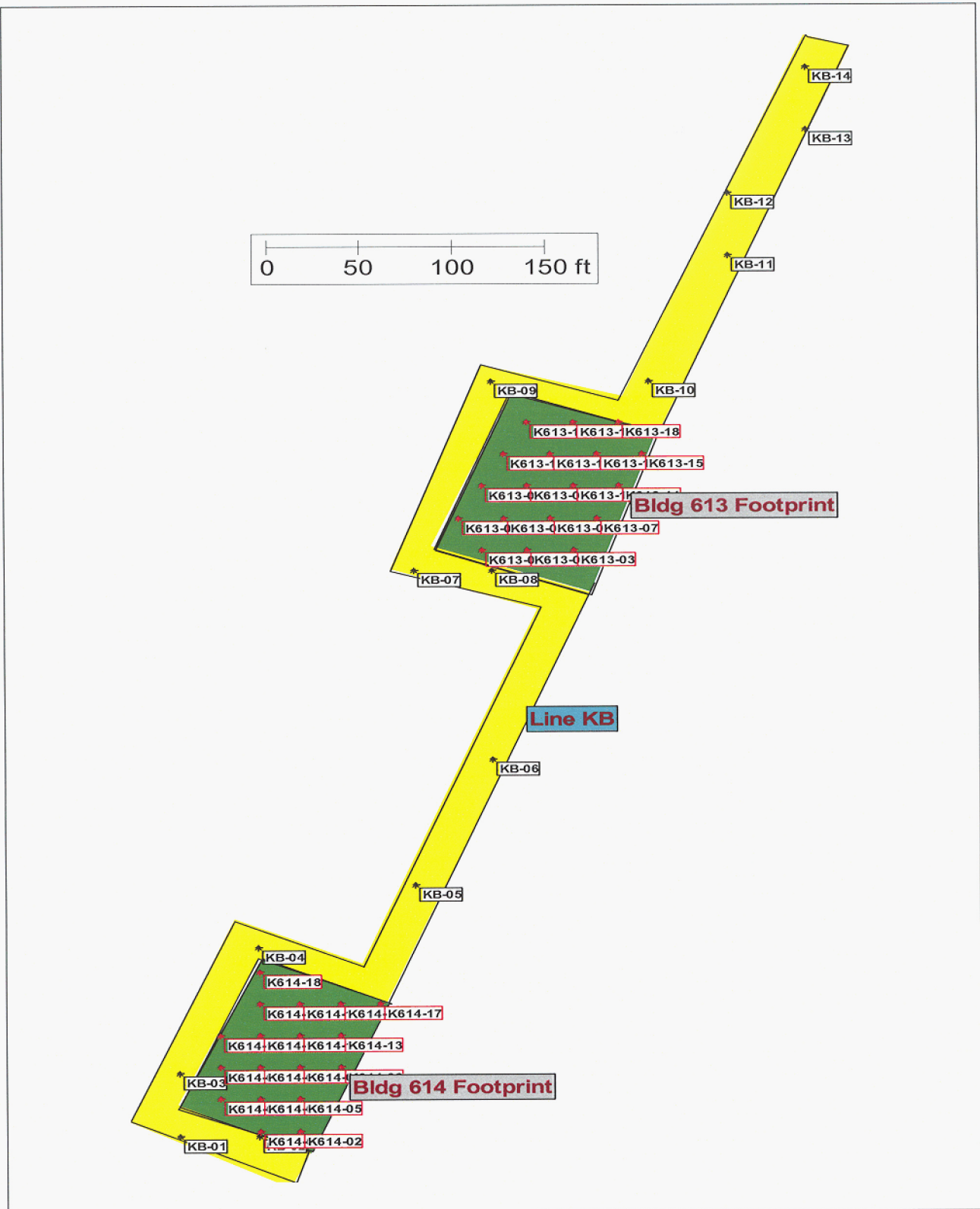




Figure 5 KC Line and Buildings K615 and K616 Footprint Sample Locations

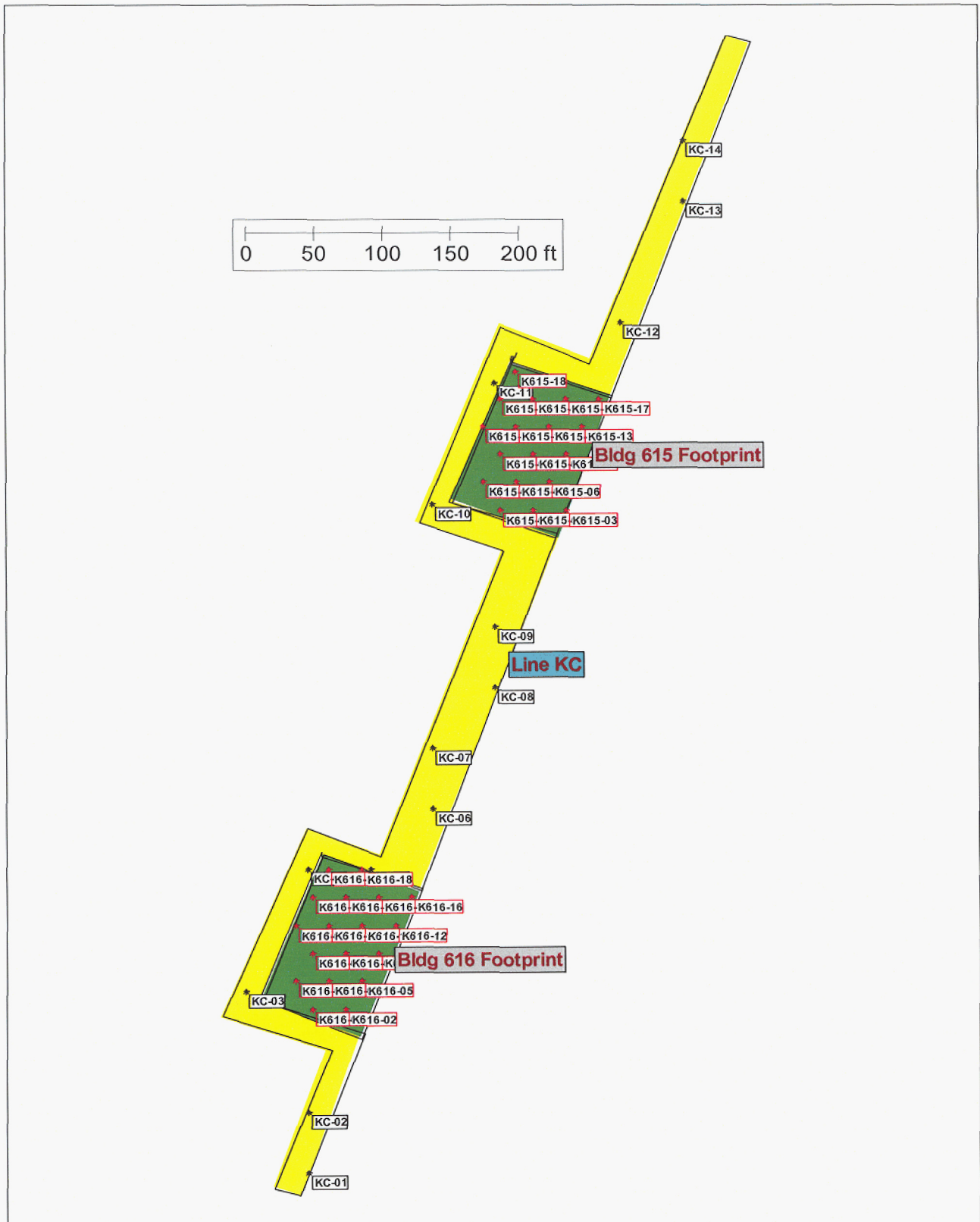


Figure 6 J Line with Footprints of Buildings J621 and J622

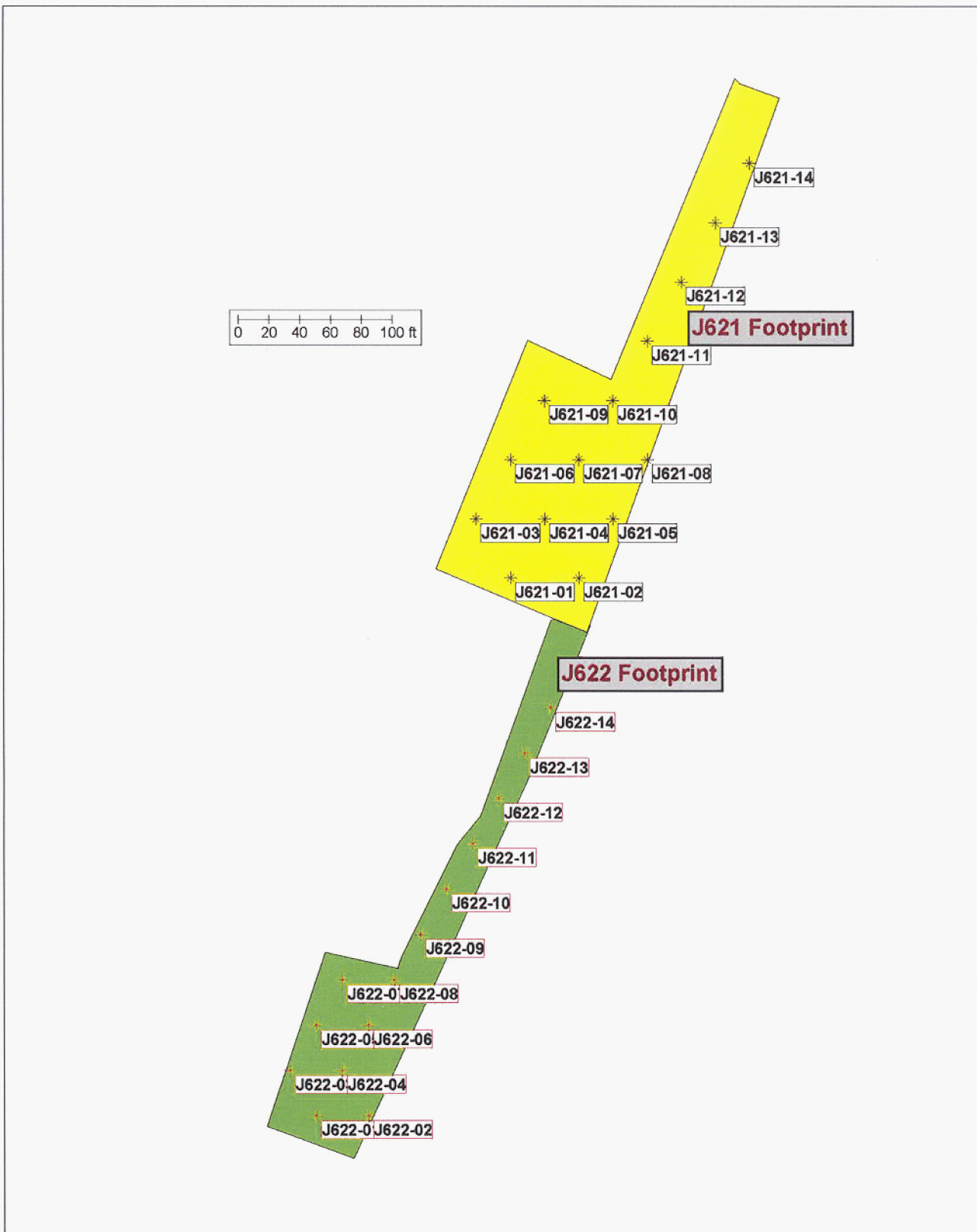




Figure 7 Building K511 Footprint Scan Results

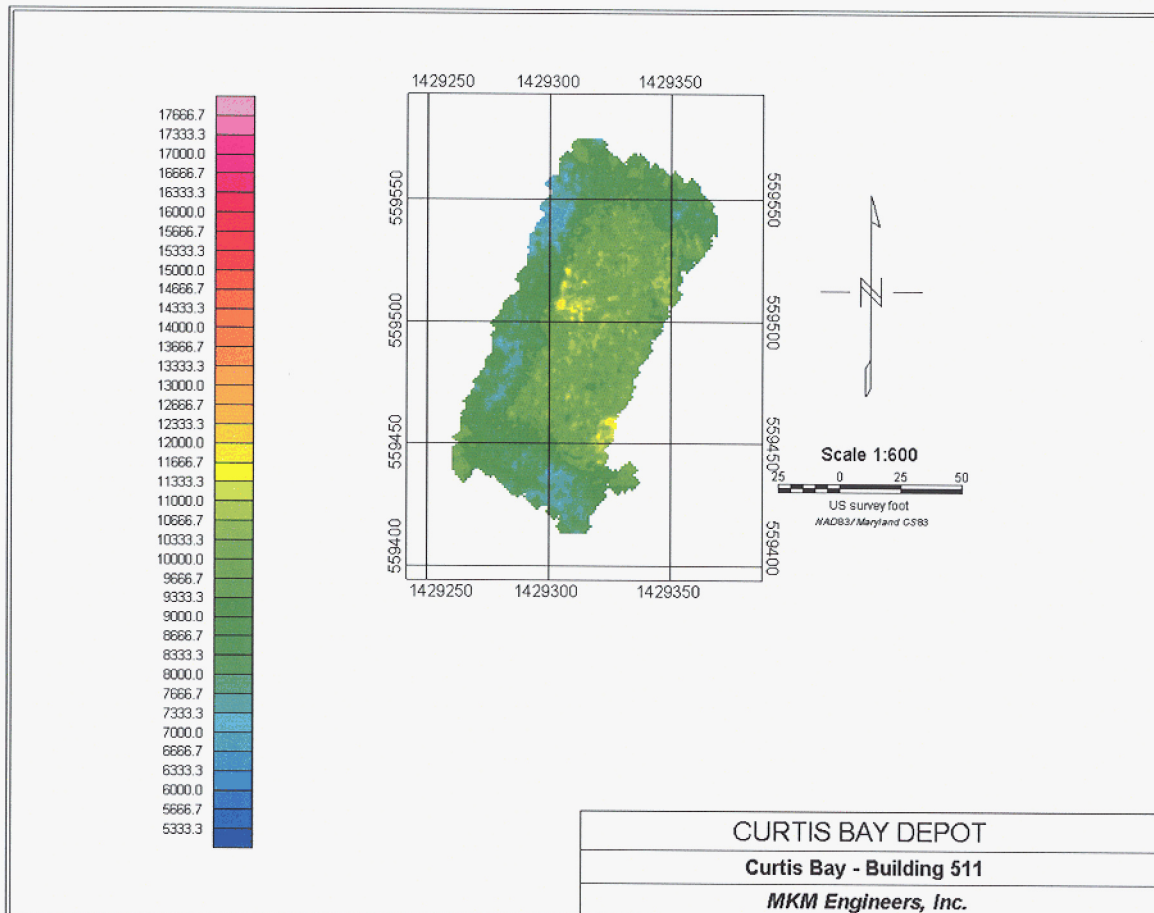




Figure 8 KA Line and Buildings K611 and K612 Footprint Scan Results

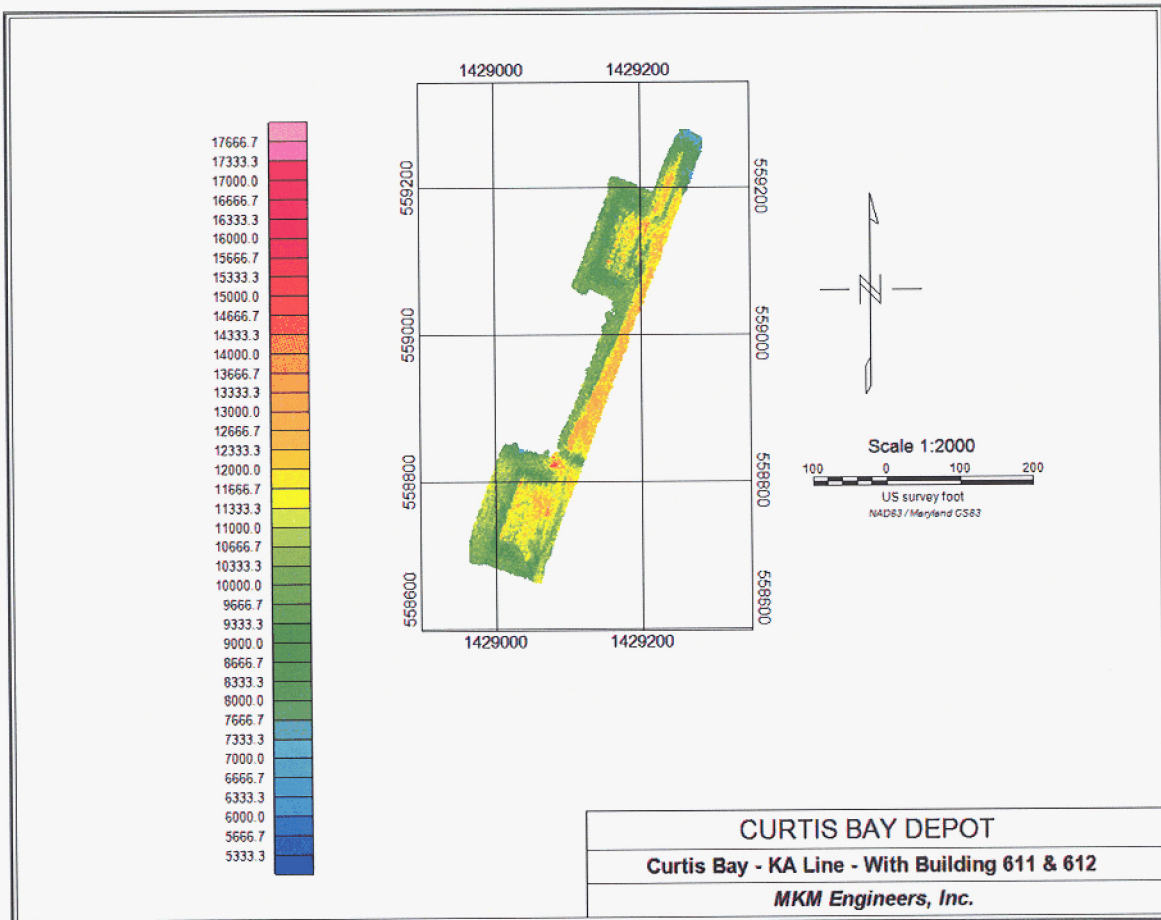




Figure 9 KB Line and Buildings K613 and K614 Footprint Scan Results

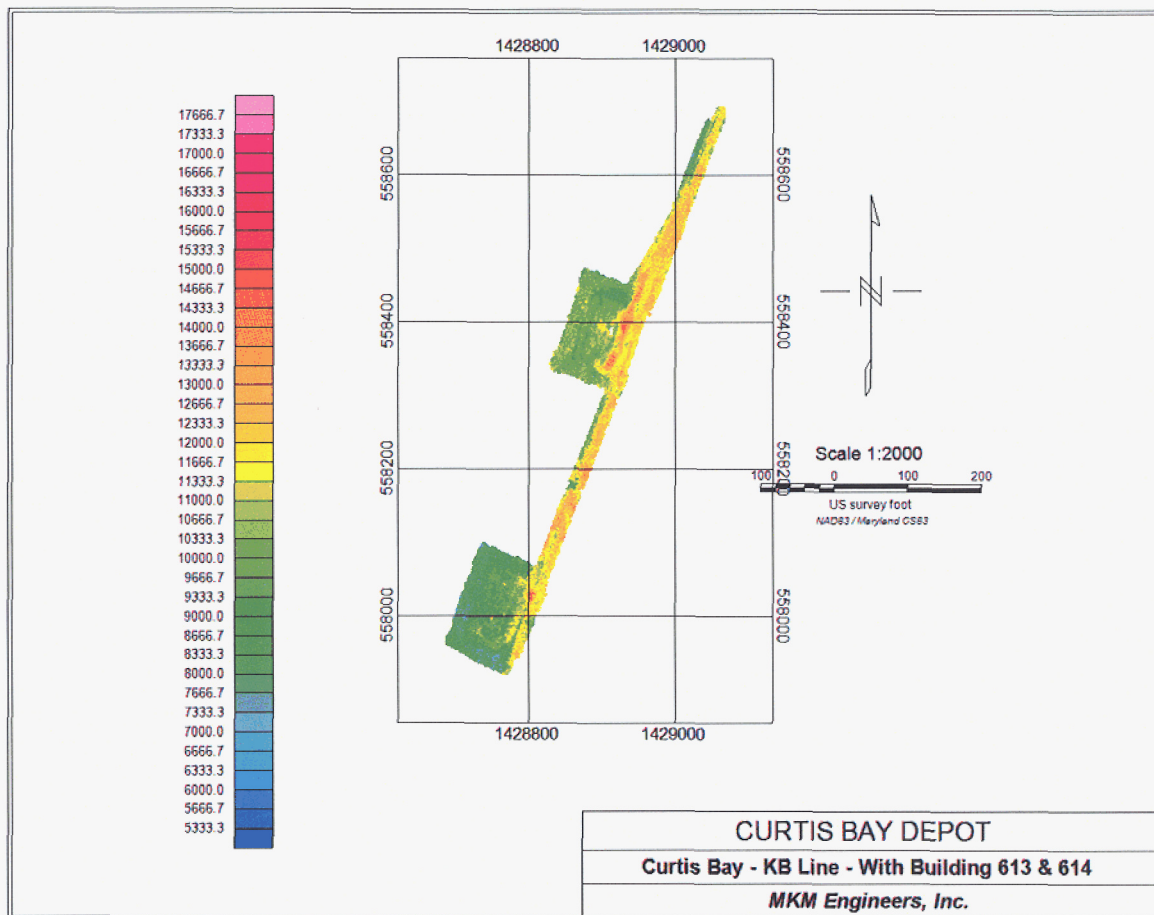




Figure 10 KC Line and Buildings K615 and K616 Footprint Scan Results

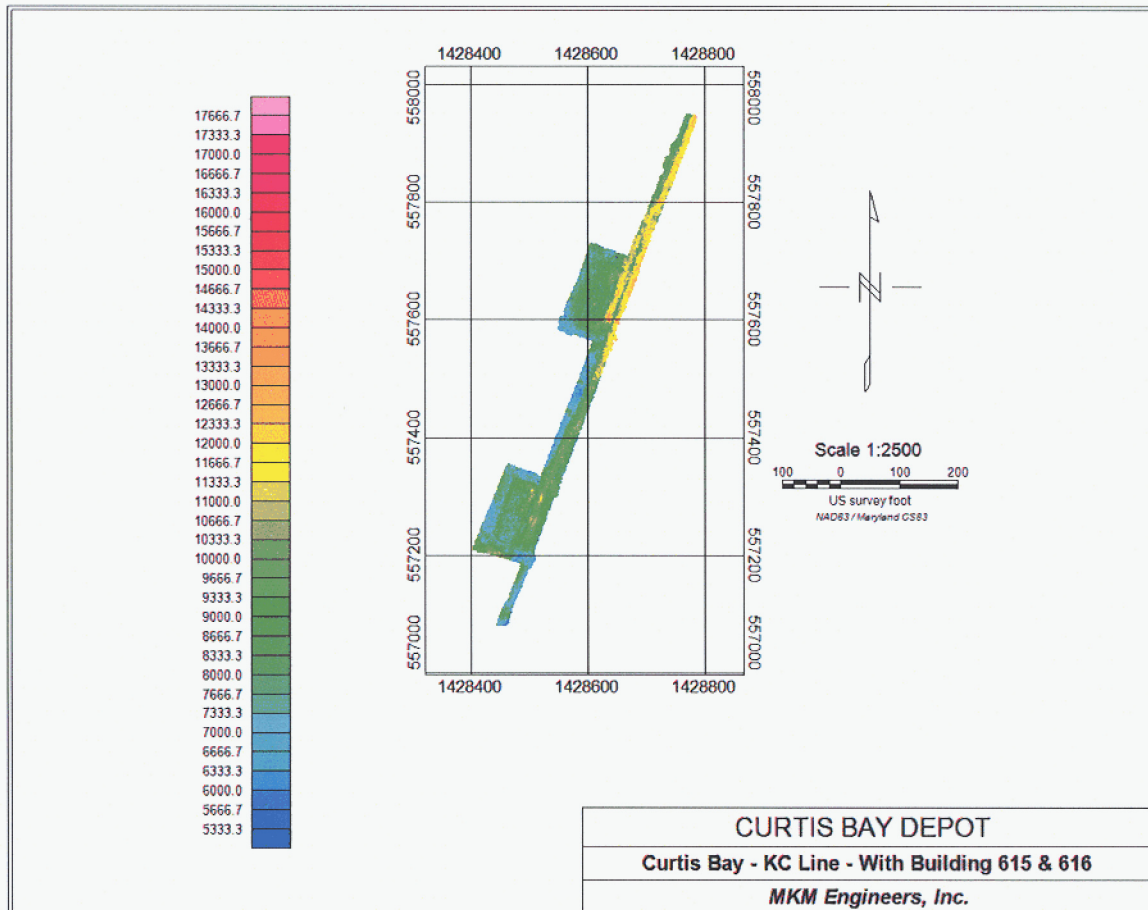
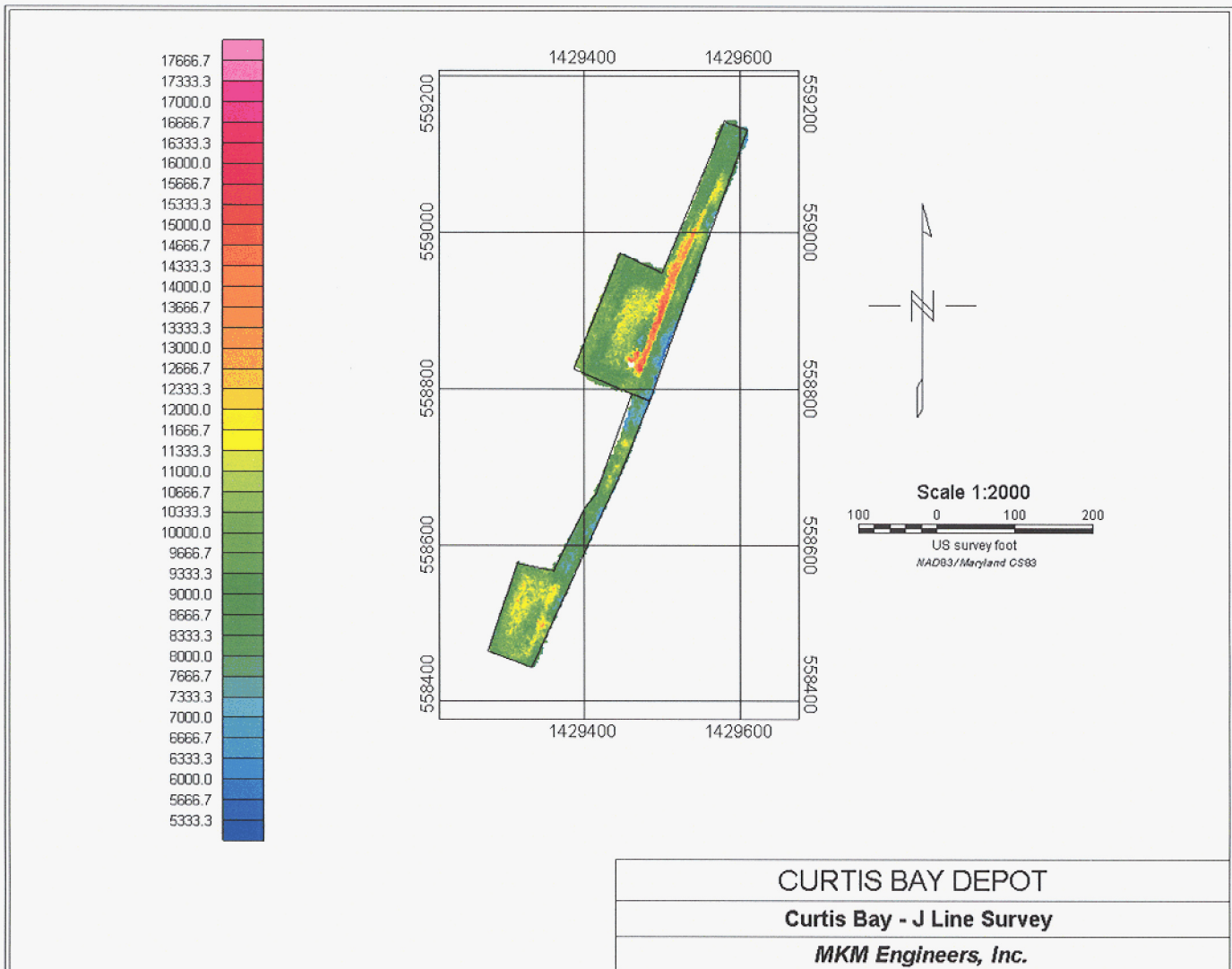




Figure 11 J Line and Buildings J621 and J622 Footprint Scan Results





APPENDIX B

Scan Survey MDC Calculations



Appendix B

MDCR Calculation – Gamma Scan

Background = 9200 cpm

$$i = 1.5 \text{ sec} \quad \left\{ \begin{array}{l} 1.25 \text{ ft/sec} = 38 \text{ cm/sec} \\ 56^*/38 = 1.5 \text{ sec} \\ *Spot \text{ diameter is } 56 \text{ cm per NUREG} - 1507 \end{array} \right.$$

MARSSIM Equations 6-8 and 6-9:

$$\begin{aligned} \text{MDCR} &= 1.38 \sqrt{\frac{9200}{60}} \cdot 1.5 \\ &= 1.38(15.165)40 \\ &= 837 \text{ cpm} \end{aligned}$$

$$\text{MDCR}_s = \frac{837}{\sqrt{.5}} = 1184 \text{ cpm (accounting for surveyor efficiency)}$$

Dose Rate = 0.71 uR/hr @ 1 pCi/g (dose rate 15cm above contaminated soil surface - see attached)

2" x 2" NaI (NUREG-1507) => 830 cpm per uR/hr (Th-232 + D)

830 x 0.71 = 589 cpm @ 1 pCi/g (Th-232)

$$\text{MDCR}_s = \frac{1184}{589} = 2.0 \text{ pCi/g (Th-232)}$$

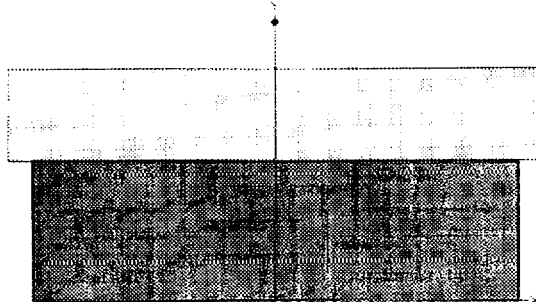


MicroShield v5.01 (5.01-01003)
Allied Technology Group, Inc.

Page : 1
DOS File : THNAI10.MS5
Run Date: May 18, 2004
Run Time: 6:14:59 PM
Duration : 00:00:01

File Ref: _____
Date: _____
By: _____
Checked: _____

Case Title: D=15
Description: Th in soil, MDA for NaI
Geometry: 8 - Cylinder Volume - End Shields



Source Dimensions
Height 15.0 cm 5.9 in
Radius 26.0 cm 10.2 in

Dose Points
1 X Y Z
0 cm 30 cm 0 cm
0.0 in 11.8 in 0.0 in

Shield Name	Dimension	Material	Density
Source	3.19e+04 cm ³	Concrete	1.6
Shield 1	10.0 cm	Air	0.00122
Air Gap		Air	0.00122

Source Input
Grouping Method : Standard Indices
Number of Groups : 25
Lower Energy Cutoff : 0.015
Photons < 0.015 : Excluded
Library : Grove

Nuclide	curies	becquerels	μCi/cm ³	Bq/cm ³
Ac-228	5.0559e-008	1.8707e+003	1.5871e-006	5.8723e-002
Bi-212	5.0353e-008	1.8631e+003	1.5807e-006	5.8484e-002
Pb-212	5.0353e-008	1.8631e+003	1.5807e-006	5.8484e-002
Po-212	3.2261e-008	1.1937e+003	1.0127e-006	3.7471e-002
Po-216	5.0353e-008	1.8631e+003	1.5807e-006	5.8484e-002
Ra-224	5.0353e-008	1.8631e+003	1.5807e-006	5.8484e-002
Ra-228	5.0559e-008	1.8707e+003	1.5871e-006	5.8723e-002
Rn-220	5.0353e-008	1.8631e+003	1.5807e-006	5.8484e-002
Th-228	5.0354e-008	1.8631e+003	1.5807e-006	5.8486e-002
Th-232	5.0969e-008	1.8859e+003	1.6000e-006	5.9200e-002
Tl-208	1.8092e-008	6.6940e+002	5.6793e-007	2.1013e-002

Buildup
The material reference is : Shield 1

Integration Parameters
Radial 20
Circumferential 10
Y Direction (axial) 10



Page : 2
DOS File : THNAI10.MS5
Run Date: May 18, 2004
Run Time: 6:14:59 PM
Duration : 00:00:01

<u>Energy</u> <u>MeV</u>	<u>Activity</u> <u>photons/sec</u>	<u>Results</u>			
		<u>Fluence Rate</u> <u>MeV/cm²/sec</u> <u>No Buildup</u>	<u>Fluence Rate</u> <u>MeV/cm²/sec</u> <u>With Buildup</u>	<u>Exposure Rate</u> <u>mR/hr</u> <u>No Buildup</u>	<u>Exposure Rate</u> <u>mR/hr</u> <u>With Buildup</u>
0.04	1.905e+01	6.361e-06	2.125e-05	2.813e-08	9.399e-08
0.06	1.296e+01	1.301e-05	6.982e-05	2.585e-08	1.387e-07
0.08	8.042e+02	1.440e-03	8.054e-03	2.278e-06	1.275e-05
0.1	1.327e+02	3.427e-04	1.739e-03	5.242e-07	2.661e-06
0.15	7.862e+01	3.602e-04	1.426e-03	5.932e-07	2.348e-06
0.2	1.012e+03	6.775e-03	2.187e-02	1.196e-05	3.860e-05
0.3	4.872e+02	5.505e-03	1.415e-02	1.044e-05	2.683e-05
0.4	4.425e+01	7.244e-04	1.618e-03	1.411e-06	3.153e-06
0.5	2.588e+02	5.648e-03	1.146e-02	1.109e-05	2.250e-05
0.6	5.925e+02	1.635e-02	3.087e-02	3.191e-05	6.026e-05
0.8	5.946e+02	2.374e-02	4.038e-02	4.515e-05	7.681e-05
1.0	1.089e+03	5.785e-02	9.211e-02	1.066e-04	1.698e-04
1.5	2.507e+02	2.226e-02	3.184e-02	3.745e-05	5.357e-05
2.0	5.662e+00	7.183e-04	9.650e-04	1.111e-06	1.492e-06
3.0	6.681e+02	1.382e-01	1.731e-01	1.875e-04	2.349e-04
TOTALS:	6.051e+03	2.799e-01	4.297e-01	4.481e-04	7.059e-04



APPENDIX C

Systematic Sampling Location



Table C-1 K511 Sample Locations

Sample #	X Coordinate	Y Coordinate
K511-01	1429321.417	559565.4703
K511-02	1429307.555	559541.4595
K511-03	1429335.28	559541.4595
K511-04	1429363.005	559541.4595
K511-05	1429293.692	559517.4488
K511-06	1429321.417	559517.4488
K511-07	1429349.143	559517.4488
K511-08	1429279.829	559493.438
K511-09	1429307.555	559493.438
K511-10	1429335.28	559493.438
K511-11	1429293.692	559469.4272
K511-12	1429321.417	559469.4272
K511-13	1429279.829	559445.4165
K511-14	1429307.555	559445.4165

Note: Coordinates in U.S. survey feet

Table C-2 K611 Sample Locations

Sample #	X Coordinate	Y Coordinate
"K611-01"	1429196.846	559178.7172
"K611-02"	1429185.119	559158.4043
"K611-03"	1429208.574	559158.4043
"K611-04"	1429232.029	559158.4043
"K611-05"	1429173.391	559138.0915
"K611-06"	1429196.846	559138.0915
"K611-07"	1429220.302	559138.0915
"K611-08"	1429161.664	559117.7787
"K611-09"	1429185.119	559117.7787
"K611-10"	1429208.574	559117.7787
"K611-11"	1429232.029	559117.7787
"K611-12"	1429149.936	559097.4658
"K611-13"	1429173.391	559097.4658
"K611-14"	1429196.846	559097.4658
"K611-15"	1429220.302	559097.4658
"K611-16"	1429161.664	559077.153
"K611-17"	1429185.119	559077.153
"K611-18"	1429208.574	559077.153

Note: Coordinates in U.S. survey feet

Table C-3 K612 Sample Locations

Sample #	X Coordinate	Y Coordinate
"K612-01"	1429028.566	558797.9861
"K612-02"	1429051.617	558797.9861
"K612-03"	1429074.667	558797.9861
"K612-04"	1429028.566	558774.9355
"K612-05"	1429051.617	558774.9355
"K612-06"	1429074.667	558774.9355
"K612-07"	1429097.718	558774.9355
"K612-08"	1429005.515	558751.8849
"K612-09"	1429028.566	558751.8849
"K612-10"	1429051.617	558751.8849
"K612-11"	1429074.667	558751.8849
"K612-12"	1429005.515	558728.8342
"K612-13"	1429028.566	558728.8342
"K612-14"	1429051.617	558728.8342
"K612-15"	1429074.667	558728.8342
"K612-16"	1429028.566	558705.7836
"K612-17"	1429051.617	558705.7836
"K612-18"	1429074.667	558705.7836

Note: Coordinates in U.S. survey feet

Table C-4 K613 Sample Locations

Sample #	X Coordinate	Y Coordinate
"K613-01"	1428891.411	558437.0435
"K613-02"	1428913.318	558437.0435
"K613-03"	1428891.411	558415.1367
"K613-04"	1428913.318	558415.1367
"K613-05"	1428935.225	558415.1367
"K613-06"	1428957.132	558415.1367
"K613-07"	1428891.411	558393.2299
"K613-08"	1428913.318	558393.2299
"K613-09"	1428935.225	558393.2299
"K613-10"	1428957.132	558393.2299
"K613-11"	1428869.505	558371.3231
"K613-12"	1428891.411	558371.3231
"K613-13"	1428913.318	558371.3231
"K613-14"	1428935.225	558371.3231
"K613-15"	1428891.411	558349.4163
"K613-16"	1428913.318	558349.4163
"K613-17"	1428935.225	558349.4163
"K613-18"	1428935.225	558327.5096

Note: Coordinates in U.S. survey feet



Table C-5 K614 Sample Locations

Sample #	X Coordinate	Y Coordinate
"K614-01"	1428753.401	558048.3449
"K614-02"	1428773.312	558048.3449
"K614-03"	1428753.401	558028.4331
"K614-04"	1428773.312	558028.4331
"K614-05"	1428793.224	558028.4331
"K614-06"	1428813.136	558028.4331
"K614-07"	1428733.489	558008.5213
"K614-08"	1428753.401	558008.5213
"K614-09"	1428773.312	558008.5213
"K614-10"	1428793.224	558008.5213
"K614-11"	1428733.489	557988.6095
"K614-12"	1428753.401	557988.6095
"K614-13"	1428773.312	557988.6095
"K614-14"	1428793.224	557988.6095
"K614-15"	1428733.489	557968.6978
"K614-16"	1428753.401	557968.6978
"K614-17"	1428773.312	557968.6978
"K614-18"	1428793.224	557968.6978

Note: Coordinates in U.S. survey feet

Table C-6 K615 Sample Locations

Sample #	X Coordinate	Y Coordinate
"K615-01"	1428627.225	557684.0052
"K615-02"	1428647.905	557684.0052
"K615-03"	1428627.225	557663.3247
"K615-04"	1428647.905	557663.3247
"K615-05"	1428668.586	557663.3247
"K615-06"	1428606.544	557642.6442
"K615-07"	1428627.225	557642.6442
"K615-08"	1428647.905	557642.6442
"K615-09"	1428668.586	557642.6442
"K615-10"	1428606.544	557621.9637
"K615-11"	1428627.225	557621.9637
"K615-12"	1428647.905	557621.9637
"K615-13"	1428585.864	557601.2831
"K615-14"	1428606.544	557601.2831
"K615-15"	1428627.225	557601.2831
"K615-16"	1428647.905	557601.2831
"K615-17"	1428627.225	557580.6026
"K615-18"	1428647.905	557580.6026

Note: Coordinates in U.S. survey feet

Table C-7 K616 Sample Locations

Sample #	X Coordinate	Y Coordinate
"K616-01"	1428473.607	557317.4423
"K616-02"	1428495.315	557317.4423
"K616-03"	1428473.607	557295.734
"K616-04"	1428495.315	557295.734
"K616-05"	1428517.024	557295.734
"K616-06"	1428538.732	557295.734
"K616-07"	1428451.899	557274.0257
"K616-08"	1428473.607	557274.0257
"K616-09"	1428495.315	557274.0257
"K616-10"	1428517.024	557274.0257
"K616-11"	1428451.899	557252.3175
"K616-12"	1428473.607	557252.3175
"K616-13"	1428495.315	557252.3175
"K616-14"	1428517.024	557252.3175
"K616-15"	1428451.899	557230.6092
"K616-16"	1428473.607	557230.6092
"K616-17"	1428495.315	557230.6092
"K616-18"	1428517.024	557230.6092

Note: Coordinates in U.S. survey feet

Table C-8 J621 Sample Locations

Sample #	X Coordinate	Y Coordinate
J621-01	1429586.043	559119.2689
J621-02	1429562.84	559079.0799
J621-03	1429539.637	559038.8909
J621-04	1429562.84	558998.7019
J621-05	1429446.824	558958.5129
J621-06	1429539.637	558958.5129
J621-07	1429423.621	558918.3239
J621-08	1429470.027	558918.3239
J621-09	1429516.434	558918.3239
J621-10	1429446.824	558878.1349
J621-11	1429493.23	558878.1349
J621-12	1429423.621	558837.9459
J621-13	1429470.027	558837.9459
J621-14	1429446.824	558797.7569

Note: Coordinates in U.S. survey feet



Table C-9 J622 Sample Locations

Sample #	X Coordinate	Y Coordinate
J622-01	1429479.132	558789.6094
J622-02	1429461.478	558759.0316
J622-03	1429443.824	558728.4539
J622-04	1429426.17	558697.8762
J622-05	1429320.246	558575.5653
J622-06	1429390.862	558575.5653
J622-07	1429302.592	558544.9876
J622-08	1429337.9	558544.9876
J622-09	1429373.208	558544.9876
J622-10	1429320.246	558514.4099
J622-11	1429355.554	558514.4099
J622-12	1429302.592	558483.8321
J622-13	1429337.9	558483.8321
J622-14	1429320.246	558453.2544

Note: Coordinates in U.S. survey feet

Table C-11 KB Sample Locations

Sample #	X Coordinate	Y Coordinate
"KB-01"	1429062.917	558696.49
"KB-02"	1429017.887	558606.4303
"KB-03"	1429017.887	558561.4004
"KB-04"	1428972.857	558471.3407
"KB-05"	1428882.798	558426.3108
"KB-06"	1428837.768	558336.2511
"KB-07"	1428882.798	558336.2511
"KB-08"	1428882.798	558246.1914
"KB-09"	1428882.798	558201.1616
"KB-10"	1428837.768	558111.1018
"KB-11"	1428747.708	558066.072
"KB-12"	1428792.738	558066.072
"KB-13"	1428702.678	557976.0123
"KB-14"	1428747.708	557930.9824

Note: Coordinates in U.S. survey feet

Table C-10 KA Sample Locations

Sample #	X Coordinate	Y Coordinate
"KA-01"	1429271.645	559254.017
"KA-02"	1429246.46	559210.3957
"KA-03"	1429145.721	559123.1531
"KA-04"	1429120.536	559079.5317
"KA-05"	1429196.091	559035.9104
"KA-06"	1429170.906	558992.2891
"KA-07"	1429145.721	558948.6678
"KA-08"	1429120.536	558905.0465
"KA-09"	1429095.351	558861.4252
"KA-10"	1429019.797	558817.8039
"KA-11"	1429070.167	558817.8039
"KA-12"	1428994.612	558774.1826
"KA-13"	1428994.612	558686.9399
"KA-14"	1429044.982	558686.9399

Note: Coordinates in U.S. survey feet

Table C-12 KC Sample Locations

Sample #	X Coordinate	Y Coordinate
"KC-01"	1428768.669	557932.895
"KC-02"	1428721.568	557838.692
"KC-03"	1428721.568	557791.591
"KC-04"	1428627.365	557697.389
"KC-05"	1428674.467	557697.389
"KC-06"	1428580.264	557650.287
"KC-07"	1428580.264	557603.186
"KC-08"	1428627.365	557556.085
"KC-09"	1428580.264	557461.882
"KC-10"	1428580.264	557414.781
"KC-11"	1428533.163	557320.578
"KC-12"	1428438.96	557273.477
"KC-13"	1428438.96	557226.375
"KC-14"	1428486.061	557179.274

Note: Coordinates in U.S. survey feet



APPENDIX D

Laboratory Analytical Reports



2609 North River Road Port Allen, Louisiana 70767
1 (800) 401-4277 FAX (225) 381-2996

ARS Tracking Number: ARS040986

Request or PO Number: 406029

Client ID: 406029-008-008

ARS Sample ID: ARS040986-3263

Date Sampled: 5/27/04

Date Received: 6/9/04

Time Sampled: NA

Time Received: 1100

Type of Sample: Solid

Date of Report: 6/17/04

Analysis Description	Analysis Results	Analysis Error +/- 2 Sigma	MDC	Analysis Units	Analysis Test Method	Analysis Date / Time	Analysis Technician
RA-226	0.652	0.3800	0.138	pCi/g	EPA 901.1M	6/16/04 12:17	MS
Ra-228	0.866	0.0995	0.024	pCi/g	EPA 901.1M	6/16/04 12:17	MS
PB-210	1.568	0.4212	0.191	pCi/g	EPA 901.1M	6/16/04 12:17	MS
U-238	1.106	0.6132	0.241	pCi/g	EPA 901.1M	6/16/04 12:17	MS
K-40	5.278	0.6783	0.177	pCi/g	EPA 901.1M	6/16/04 12:17	MS
BI-214	0.647	0.0597	0.018	pCi/g	EPA 901.1M	6/16/04 12:17	MS
PB-212	0.994	0.0554	0.011	pCi/g	EPA 901.1M	6/16/04 12:17	MS
CS-137	0.221	0.0253	0.007	pCi/g	EPA 901.1M	6/16/04 12:17	MS
CO-60	-0.005	-0.3778	0.009	pCi/g	EPA 901.1M	6/16/04 12:17	MS
AM-241	0.013	0.0387	0.022	pCi/g	EPA 901.1M	6/16/04 12:17	MS
Total Activity	23.632	NA	NA	pCi/g	EPA 901.1M	6/16/04 12:17	MS

Notes: Project Number: Curtis Bay Army Depot

Quality Assurance Review

Notes: American Radiation Services, Inc. assumes no liability for the use or interpretation of any analytical results provided other than the cost of the analysis itself. Reproduction of this report in less than full requires the written consent of the client.



2609 North River Road Port Allen, Louisiana 70767
1 (800) 401-4277 FAX (225) 331-2996

ARS Tracking Number: ARS040986

Request or PO Number: 406029

Client ID: 406029-009-009

ARS Sample ID: ARS040986-3264

Date Sampled: 5/27/04

Date Received: 6/9/04

Time Sampled: NA

Time Received: 1100

Type of Sample: Solid

Date of Report: 6/17/04

Analysis Description	Analysis Results	Analysis Error +/- 2 Sigma	MDC	Analysis Units	Analysis Test Method	Analysis Date / Time	Analysis Technician
RA-226	0.205	0.3237	0.123	pCi/g	EPA 901.1M	6/16/04 09:26	MS
Ra-228	0.735	0.0790	0.016	pCi/g	EPA 901.1M	6/16/04 09:26	MS
PB-210	1.109	0.2892	0.137	pCi/g	EPA 901.1M	6/16/04 09:26	MS
U-238	0.000	0.0000	0.212	pCi/g	EPA 901.1M	6/16/04 09:26	MS
K-40	6.228	0.4155	0.056	pCi/g	EPA 901.1M	6/16/04 09:26	MS
BI-214	0.498	0.0534	0.016	pCi/g	EPA 901.1M	6/16/04 09:26	MS
PB-212	0.868	0.0475	0.010	pCi/g	EPA 901.1M	6/16/04 09:26	MS
CS-137	0.156	0.0178	0.005	pCi/g	EPA 901.1M	6/16/04 09:26	MS
CO-60	0.000	0.0125	0.007	pCi/g	EPA 901.1M	6/16/04 09:26	MS
AM-241	0.004	0.0323	0.019	pCi/g	EPA 901.1M	6/16/04 09:26	MS
Total Activity	17.790	NA	NA	pCi/g	EPA 901.1M	6/16/04 09:26	MS

Notes: Project Number: Curtis Bay Army Depot

Quality Assurance Review

Notes: American Radiation Services, Inc. assumes no liability for the use or interpretation of any analytical results provided other than the cost of the analysis itself. Reproduction of this report in less than full requires the written consent of the client.

KS1111



2609 North River Road Port Allen, Louisiana 70767
1 (800) 401-4277 FAX (225) 381-2996

ARS Tracking Number: ARS040986

Request or PO Number: 406029

Client ID: 406029-010-010

ARS Sample ID: ARS040986-3265

Date Sampled: 5/27/04

Date Received: 6/9/04

Time Sampled: NA

Time Received: 1100

Type of Sample: Solid

Date of Report: 6/17/04

Analysis Description	Analysis Results	Analysis Error +/- 2 Sigma	MDC	Analysis Units	Analysis Test Method	Analysis Date / Time	Analysis Technician
RA-226	0.334	0.3577	0.132	pCi/g	EPA 901.1M	6/16/04 11:40	MS
Ra-228	0.786	0.0869	0.017	pCi/g	EPA 901.1M	6/16/04 11:40	MS
PB-210	1.520	0.3169	0.168	pCi/g	EPA 901.1M	6/16/04 11:40	MS
U-238	0.717	0.7194	0.192	pCi/g	EPA 901.1M	6/16/04 11:40	MS
K-40	6.832	0.4787	0.069	pCi/g	EPA 901.1M	6/16/04 11:40	MS
BI-214	0.491	0.0525	0.016	pCi/g	EPA 901.1M	6/16/04 11:40	MS
PB-212	0.941	0.0522	0.010	pCi/g	EPA 901.1M	6/16/04 11:40	MS
CS-137	0.156	0.0222	0.006	pCi/g	EPA 901.1M	6/16/04 11:40	MS
CO-60	-0.004	-0.1181	0.009	pCi/g	EPA 901.1M	6/16/04 11:40	MS
AM-241	-0.002	-0.0756	0.021	pCi/g	EPA 901.1M	6/16/04 11:40	MS
Total Activity	21.126	NA	NA	pCi/g	EPA 901.1M	6/16/04 11:40	MS

Notes: Project Number: Curtis Bay Army Depot

Quality Assurance Review

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2609 North River Road Port Allen, Louisiana 70767
1 (800) 401-4277 FAX (225) 381-2996

ARS Tracking Number: ARS040986

Request or PO Number: 406029

Client ID: 406029-011-011

ARS Sample ID: ARS040986-3266

Date Sampled: 5/27/04

Date Received: 6/9/04

Time Sampled: NA

Time Received: 1100

Type of Sample: Solid

Date of Report: 6/17/04

Analysis Description	Analysis Results	Analysis Error +/- 2 Sigma	MDC	Analysis Units	Analysis Test Method	Analysis Date / Time	Analysis Technician
RA-226	0.916	0.2456	0.121	pCi/g	EPA 901.1M	6/17/04 01:03	CSG
Ra-228	0.162	0.0410	0.010	pCi/g	EPA 901.1M	6/17/04 01:03	CSG
PB-210	1.035	0.3093	0.149	pCi/g	EPA 901.1M	6/17/04 01:03	CSG
U-238	0.565	0.2109	0.148	pCi/g	EPA 901.1M	6/17/04 01:03	CSG
K-40	3.532	0.3500	0.064	pCi/g	EPA 901.1M	6/17/04 01:03	CSG
BI-214	0.190	0.0381	0.016	pCi/g	EPA 901.1M	6/17/04 01:03	CSG
PB-212	0.132	0.0277	0.011	pCi/g	EPA 901.1M	6/17/04 01:03	CSG
CS-137	0.183	0.0235	0.005	pCi/g	EPA 901.1M	6/17/04 01:03	CSG
CO-60	-0.002	-0.0283	0.007	pCi/g	EPA 901.1M	6/17/04 01:03	CSG
AM-241	-0.001	-0.0322	0.016	pCi/g	EPA 901.1M	6/17/04 01:03	CSG
Total Activity	8.842	NA	NA	pCi/g	EPA 901.1M	6/17/04 01:03	CSG

Notes: Project Number: Curtis Bay Army Depot

Quality Assurance Review

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2609 North River Road Port Allen, Louisiana 70767

1 (800) 401-4277 FAX (225) 381-2996

ARS Tracking Number: ARS040986

Request or PO Number: 406029

Client ID: 406029-012-012

ARS Sample ID: ARS040986-3267

Date Sampled: 5/27/04

Date Received: 6/9/04

Time Sampled: NA

Time Received: 1100

Type of Sample: Solid

Date of Report: 6/17/04

Analysis Description	Analysis Results	Analysis Error +/- 2 Sigma	MDC	Analysis Units	Analysis Test Method	Analysis Date / Time	Analysis Technician
RA-226	0.374	0.3155	0.117	pCi/g	EPA 901.1M	6/16/04 23:25	CSG
Ra-228	0.383	0.0575	0.026	pCi/g	EPA 901.1M	6/16/04 23:25	CSG
PB-210	0.967	0.3871	0.174	pCi/g	EPA 901.1M	6/16/04 23:25	CSG
U-238	0.687	0.2465	0.125	pCi/g	EPA 901.1M	6/16/04 23:25	CSG
K-40	2.560	0.2995	0.086	pCi/g	EPA 901.1M	6/16/04 23:25	CSG
BI-214	0.292	0.0394	0.014	pCi/g	EPA 901.1M	6/16/04 23:25	CSG
PB-212	0.496	0.0366	0.009	pCi/g	EPA 901.1M	6/16/04 23:25	CSG
CS-137	0.130	0.0206	0.005	pCi/g	EPA 901.1M	6/16/04 23:25	CSG
CO-60	-0.002	-0.0309	0.007	pCi/g	EPA 901.1M	6/16/04 23:25	CSG
AM-241	-0.013	-0.0738	0.019	pCi/g	EPA 901.1M	6/16/04 23:25	CSG
Total Activity	17.790	NA	NA	pCi/g	EPA 901.1M	6/16/04 23:25	CSG

Notes: Project Number: Curtis Bay Army Depot

Quality Assurance Review

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2609 North River Road Port Allen, Louisiana 70767
1 (800) 401-4277 FAX (225) 381-2996

ARS Tracking Number: ARS040986

Request or PO Number: 406029

Client ID: 406029-013-013

ARS Sample ID: ARS040986-3268

Date Sampled: 5/27/04

Date Received: 6/9/04

Time Sampled: NA

Time Received: 1100

Type of Sample: Solid

Date of Report: 6/17/04

Analysis Description	Analysis Results	Analysis Error +/- 2 Sigma	MDC	Analysis Units	Analysis Test Method	Analysis Date / Time	Analysis Technician
RA-226	1.588	0.2536	0.129	pCi/g	EPA 901.1M	6/16/04 16:13	MS
Ra-228	0.862	0.0730	0.017	pCi/g	EPA 901.1M	6/16/04 16:13	MS
PB-210	0.927	0.2461	0.135	pCi/g	EPA 901.1M	6/16/04 16:13	MS
U-238	1.062	0.7793	0.170	pCi/g	EPA 901.1M	6/16/04 16:13	MS
K-40	7.672	0.4442	0.045	pCi/g	EPA 901.1M	6/16/04 16:13	MS
BI-214	0.589	0.0423	0.011	pCi/g	EPA 901.1M	6/16/04 16:13	MS
PB-212	0.963	0.0484	0.009	pCi/g	EPA 901.1M	6/16/04 16:13	MS
CS-137	0.019	0.0103	0.006	pCi/g	EPA 901.1M	6/16/04 16:13	MS
CO-60	-0.010	-0.0259	0.007	pCi/g	EPA 901.1M	6/16/04 16:13	MS
AM-241	-0.003	-0.5432	0.019	pCi/g	EPA 901.1M	6/16/04 16:13	MS
Total Activity	25.417	NA	NA	pCi/g	EPA 901.1M	6/16/04 16:13	MS

Notes: Project Number: Curtis Bay Army Depot

Quality Assurance Review

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2609 North River Road Port Allen, Louisiana 70767

1 (800) 401-4277 FAX (225) 381-2996

ARS Tracking Number: ARS040986

Request or PO Number: 406029

Client ID: 406029-014-014

ARS Sample ID: ARS040986-3269

Date Sampled: 5/27/04

Date Received: 6/9/04

Time Sampled: NA

Time Received: 1100

Type of Sample: Solid

Date of Report: 6/17/04

Analysis Description	Analysis Results	Analysis Error +/- 2 Sigma	MDC	Analysis Units	Analysis Test Method	Analysis Date / Time	Analysis Technician
RA-226	1.811	0.3661	0.186	pCi/g	EPA 901.1M	6/17/04 12:54	MS
Ra-228	1.123	0.0901	0.020	pCi/g	EPA 901.1M	6/17/04 12:54	MS
PB-210	1.804	0.4591	0.209	pCi/g	EPA 901.1M	6/17/04 12:54	MS
U-238	0.000	0.0000	0.240	pCi/g	EPA 901.1M	6/17/04 12:54	MS
K-40	4.746	0.4051	0.063	pCi/g	EPA 901.1M	6/17/04 12:54	MS
BI-214	0.914	0.0784	0.019	pCi/g	EPA 901.1M	6/17/04 12:54	MS
PB-212	1.341	0.0716	0.012	pCi/g	EPA 901.1M	6/17/04 12:54	MS
CS-137	0.354	0.0318	0.007	pCi/g	EPA 901.1M	6/17/04 12:54	MS
CO-60	-0.005	-0.0511	0.005	pCi/g	EPA 901.1M	6/17/04 12:54	MS
AM-241	-0.002	-0.0909	0.027	pCi/g	EPA 901.1M	6/17/04 12:54	MS
Total Activity	28.746	NA	NA	pCi/g	EPA 901.1M	6/17/04 12:54	MS

Notes: Project Number: Curtis Bay Army Depot

Quality Assurance Review

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2609 North River Road Port Allen, Louisiana 70767
1 (800) 401-4277 FAX (225) 381-2996

ARS Tracking Number: ARS040986

Request or PO Number: 406029

Client ID: 406029-015-015

ARS Sample ID: ARS040986-3270

Date Sampled: 5/27/04

Date Received: 6/9/04

Time Sampled: NA

Time Received: 1100

Type of Sample: Solid

Date of Report: 6/17/04

Analysis Description	Analysis Results	Analysis Error +/- 2 Sigma	MDC	Analysis Units	Analysis Test Method	Analysis Date / Time	Analysis Technician
RA-226	0.572	0.3236	0.118	pCi/g	EPA 901.1M	6/15/04 20:15	MS
Ra-228	0.314	0.0692	0.034	pCi/g	EPA 901.1M	6/15/04 20:15	MS
PB-210	1.443	0.4036	0.171	pCi/g	EPA 901.1M	6/15/04 20:15	MS
U-238	1.212	0.3679	0.177	pCi/g	EPA 901.1M	6/15/04 20:15	MS
K-40	1.983	0.4087	0.211	pCi/g	EPA 901.1M	6/15/04 20:15	MS
BI-214	0.492	0.0439	0.013	pCi/g	EPA 901.1M	6/15/04 20:15	MS
PB-212	0.801	0.0448	0.010	pCi/g	EPA 901.1M	6/15/04 20:15	MS
CS-137	0.503	0.0305	0.006	pCi/g	EPA 901.1M	6/15/04 20:15	MS
CO-60	-0.008	-0.0441	0.007	pCi/g	EPA 901.1M	6/15/04 20:15	MS
AM-241	0.009	0.0322	0.019	pCi/g	EPA 901.1M	6/15/04 20:15	MS
Total Activity	12.894	NA	NA	pCi/g	EPA 901.1M	6/15/04 20:15	MS

Notes: Project Number: Curtis Bay Army Depot

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2609 North River Road Port Allen, Louisiana 70767
1 (800) 401-4277 FAX (225) 381-2996

ARS Tracking Number: ARS040986

Request or PO Number: 406029

Client ID: 406029-016-016

ARS Sample ID: ARS040986-3271

Date Sampled: 5/27/04

Date Received: 6/9/04

Time Sampled: NA

Time Received: 1100

Type of Sample: Solid

Date of Report: 6/17/04

Analysis Description	Analysis Results	Analysis Error +/- 2 Sigma	MDC	Analysis Units	Analysis Test Method	Analysis Date / Time	Analysis Technician
RA-226	1.465	0.3939	0.135	pCi/g	EPA 901.1M	6/16/04 05:47	MS
Ra-228	0.796	0.0791	0.027	pCi/g	EPA 901.1M	6/16/04 05:47	MS
PB-210	1.492	0.3018	0.160	pCi/g	EPA 901.1M	6/16/04 05:47	MS
U-238	0.842	0.7312	0.203	pCi/g	EPA 901.1M	6/16/04 05:47	MS
K-40	0.346	0.4599	0.266	pCi/g	EPA 901.1M	6/16/04 05:47	MS
BI-214	0.945	0.0616	0.014	pCi/g	EPA 901.1M	6/16/04 05:47	MS
PB-212	1.171	0.0592	0.010	pCi/g	EPA 901.1M	6/16/04 05:47	MS
CS-137	0.091	0.0157	0.005	pCi/g	EPA 901.1M	6/16/04 05:47	MS
CO-60	-0.010	-0.0357	0.009	pCi/g	EPA 901.1M	6/16/04 05:47	MS
AM-241	0.001	0.0383	0.022	pCi/g	EPA 901.1M	6/16/04 05:47	MS
Total Activity	19.084	NA	NA	pCi/g	EPA 901.1M	6/16/04 05:47	MS

Notes: Project Number: Curtis Bay Army Depot

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2609 North River Road Port Allen, Louisiana 70767
1 (800) 401-4277 FAX (225) 381-2996

ARS Tracking Number: ARS040986

Request or PO Number: 406029

Client ID: 406029-017-017

ARS Sample ID: ARS040986-3272

Date Sampled: 5/27/04

Date Received: 6/9/04

Time Sampled: NA

Time Received: 1100

Type of Sample: Solid

Date of Report: 6/17/04

Analysis Description	Analysis Results	Analysis Error +/- 2 Sigma	MDC	Analysis Units	Analysis Test Method	Analysis Date / Time	Analysis Technician
RA-226	0.852	0.3488	0.127	pCi/g	EPA 901.1M	6/15/04 18:14	MS
Ra-228	0.910	0.0694	0.022	pCi/g	EPA 901.1M	6/15/04 18:14	MS
PB-210	1.139	0.2819	0.153	pCi/g	EPA 901.1M	6/15/04 18:14	MS
U-238	1.408	0.3879	0.193	pCi/g	EPA 901.1M	6/15/04 18:14	MS
K-40	7.380	0.4732	0.060	pCi/g	EPA 901.1M	6/15/04 18:14	MS
BI-214	0.711	0.0528	0.012	pCi/g	EPA 901.1M	6/15/04 18:14	MS
PB-212	1.070	0.0547	0.009	pCi/g	EPA 901.1M	6/15/04 18:14	MS
CS-137	0.041	0.0208	0.006	pCi/g	EPA 901.1M	6/15/04 18:14	MS
CO-60	-0.010	-0.0348	0.008	pCi/g	EPA 901.1M	6/15/04 18:14	MS
AM-241	-0.010	-0.0892	0.021	pCi/g	EPA 901.1M	6/15/04 18:14	MS
Total Activity	24.464	NA	NA	pCi/g	EPA 901.1M	6/15/04 18:14	MS

Notes: Project Number: Curtis Bay Army Depot

Quality Assurance Review

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2609 North River Road Port Allen, Louisiana 70767
1 (800) 401-4277 FAX (225) 381-2996

ARS Tracking Number: ARS040986

Request or PO Number: 406029

Client ID: 406029-018-018

ARS Sample ID: ARS040986-3273

Date Sampled: 5/27/04

Date Received: 6/9/04

Time Sampled: NA

Time Received: 1100

Type of Sample: Solid

Date of Report: 6/17/04

Analysis Description	Analysis Results	Analysis Error +/- 2 Sigma	MDC	Analysis Units	Analysis Test Method	Analysis Date / Time	Analysis Technician
RA-226	1.959	0.3565	0.180	pCi/g	EPA 901.1M	6/17/04 09:18	MS
Ra-228	1.005	0.0964	0.017	pCi/g	EPA 901.1M	6/17/04 09:18	MS
PB-210	1.295	0.3351	0.181	pCi/g	EPA 901.1M	6/17/04 09:18	MS
U-238	1.161	1.0829	0.233	pCi/g	EPA 901.1M	6/17/04 09:18	MS
K-40	8.988	0.5876	0.068	pCi/g	EPA 901.1M	6/17/04 09:18	MS
BI-214	0.548	0.0565	0.017	pCi/g	EPA 901.1M	6/17/04 09:18	MS
PB-212	1.111	0.0612	0.012	pCi/g	EPA 901.1M	6/17/04 09:18	MS
CS-137	0.072	0.0209	0.007	pCi/g	EPA 901.1M	6/17/04 09:18	MS
CO-60	-0.004	-0.1745	0.009	pCi/g	EPA 901.1M	6/17/04 09:18	MS
AM-241	-0.004	-1.2359	0.025	pCi/g	EPA 901.1M	6/17/04 09:18	MS
Total Activity	26.544	NA	NA	pCi/g	EPA 901.1M	6/17/04 09:18	MS

Notes: Project Number: Curtis Bay Army Depot

Quality Assurance Review

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2609 North River Road Port Allen, Louisiana 70767

1 (800) 401-4277 FAX (225) 381-2996

ARS Tracking Number: ARS040986

Request or PO Number: 406029

Client ID: 406029-019-019

ARS Sample ID: ARS040986-3274

Date Sampled: 5/27/04

Date Received: 6/9/04

Time Sampled: NA

Time Received: 1100

Type of Sample: Solid

Date of Report: 6/17/04

Analysis Description	Analysis Results	Analysis Error +/- 2 Sigma	MDC	Analysis Units	Analysis Test Method	Analysis Date / Time	Analysis Technician
RA-226	1.137	0.4271	0.150	pCi/g	EPA 901.1M	6/15/04 16:12	MS
Ra-228	1.014	0.0986	0.021	pCi/g	EPA 901.1M	6/15/04 16:12	MS
PB-210	1.273	0.3255	0.178	pCi/g	EPA 901.1M	6/15/04 16:12	MS
U-238	2.881	0.3557	0.261	pCi/g	EPA 901.1M	6/15/04 16:12	MS
K-40	6.452	0.4542	0.061	pCi/g	EPA 901.1M	6/15/04 16:12	MS
Bi-214	0.780	0.0649	0.016	pCi/g	EPA 901.1M	6/15/04 16:12	MS
PB-212	1.170	0.0622	0.012	pCi/g	EPA 901.1M	6/15/04 16:12	MS
CS-137	0.056	0.0185	0.010	pCi/g	EPA 901.1M	6/15/04 16:12	MS
CO-60	-0.006	-0.1346	0.008	pCi/g	EPA 901.1M	6/15/04 16:12	MS
AM-241	-0.020	-0.0715	0.024	pCi/g	EPA 901.1M	6/15/04 16:12	MS
Total Activity	26.410	NA	NA	pCi/g	EPA 901.1M	6/15/04 16:12	MS

Notes: Project Number: Curtis Bay Army Depot

Quality Assurance Review

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2609 North River Road Port Allen, Louisiana 70767

1 (800) 401-4277 FAX (225) 381-2996

ARS Tracking Number: ARS040986

Request or PO Number: 406029

Client ID: 406029-020-020

ARS Sample ID: ARS040986-3275

Date Sampled: 5/27/04

Date Received: 6/9/04

Time Sampled: NA

Time Received: 1100

Type of Sample: Solid

Date of Report: 6/17/04

Analysis Description	Analysis Results	Analysis Error +/- 2 Sigma	MDC	Analysis Units	Analysis Test Method	Analysis Date / Time	Analysis Technician
RA-226	1.816	0.3761	0.187	pCi/g	EPA 901.1M	6/17/04 11:08	MS
Ra-228	0.783	0.1014	0.022	pCi/g	EPA 901.1M	6/17/04 11:08	MS
PB-210	2.168	0.5515	0.236	pCi/g	EPA 901.1M	6/17/04 11:08	MS
U-238	0.878	0.9119	0.249	pCi/g	EPA 901.1M	6/17/04 11:08	MS
K-40	5.921	0.5006	0.077	pCi/g	EPA 901.1M	6/17/04 11:08	MS
BI-214	0.535	0.0702	0.022	pCi/g	EPA 901.1M	6/17/04 11:08	MS
PB-212	0.868	0.0566	0.013	pCi/g	EPA 901.1M	6/17/04 11:08	MS
CS-137	0.116	0.0265	0.008	pCi/g	EPA 901.1M	6/17/04 11:08	MS
CO-60	0.001	0.0165	0.010	pCi/g	EPA 901.1M	6/17/04 11:08	MS
AM-241	-0.015	-0.1081	0.026	pCi/g	EPA 901.1M	6/17/04 11:08	MS
Total Activity	19.613	NA	NA	pCi/g	EPA 901.1M	6/17/04 11:08	MS

Notes: Project Number: Curtis Bay Army Depot

Quality Assurance Review

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2609 North River Road Port Allen, Louisiana 70767
1 (800) 401-4277 FAX (225) 381-2996

ARS Tracking Number: ARS040986

Request or PO Number: 406029

Client ID: 406029-021-021

ARS Sample ID: ARS040986-3276

Date Sampled: 5/27/04

Date Received: 6/9/04

Time Sampled: NA

Time Received: 1100

Type of Sample: Solid

Date of Report: 6/17/04

Analysis Description	Analysis Results	Analysis Error +/- 2 Sigma	MDC	Analysis Units	Analysis Test Method	Analysis Date / Time	Analysis Technician
RA-226	0.805	0.4518	0.162	pCi/g	EPA 901.1M	6/16/04 21:49	CSG
Ra-228	0.924	0.0981	0.020	pCi/g	EPA 901.1M	6/16/04 21:49	CSG
PB-210	1.134	0.3447	0.189	pCi/g	EPA 901.1M	6/16/04 21:49	CSG
U-238	1.052	1.1236	0.254	pCi/g	EPA 901.1M	6/16/04 21:49	CSG
K-40	6.932	0.5275	0.079	pCi/g	EPA 901.1M	6/16/04 21:49	CSG
BI-214	0.700	0.0666	0.018	pCi/g	EPA 901.1M	6/16/04 21:49	CSG
PB-212	1.085	0.0622	0.013	pCi/g	EPA 901.1M	6/16/04 21:49	CSG
CS-137	0.126	0.0222	0.007	pCi/g	EPA 901.1M	6/16/04 21:49	CSG
CO-60	-0.005	-1.1377	0.009	pCi/g	EPA 901.1M	6/16/04 21:49	CSG
AM-241	-0.011	-0.1216	0.025	pCi/g	EPA 901.1M	6/16/04 21:49	CSG
Total Activity	24.580	NA	NA	pCi/g	EPA 901.1M	6/16/04 21:49	CSG

Notes: Project Number: Curtis Bay Army Depot

Quality Assurance Review

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K 614-01



2609 North River Road Port Allen, Louisiana 70767
1 (800) 401-4277 FAX (225) 381-2996

ARS Tracking Number: ARS041309

Request or PO Number: NA

Client ID: 406028-001-001-1/1

ARS Sample ID: ARS041309-4346

Date Sampled: 6/1/04

Date Received: 7/26/04

Time Sampled: 0000

Time Received: 1416

Type of Sample: Solid

Date of Report: 8/04/04

Analysis Description	Analysis Results	Analysis Error +/- 2 Sigma	MDC	Analysis Units	Analysis Test Method	Analysis Date / Time	Analysis Technician
RA-226	1.760	0.4592	0.233	pCi/g	EPA 901.1M	7/27/04 16:58	MS
Ra-228	0.921	0.1272	0.026	pCi/g	EPA 901.1M	7/27/04 16:58	MS
PB-210	1.911	0.6383	0.275	pCi/g	EPA 901.1M	7/27/04 16:58	MS
U-238	0.742	1.3765	0.313	pCi/g	EPA 901.1M	7/27/04 16:58	MS
K-40	4.770	0.5258	0.129	pCi/g	EPA 901.1M	7/27/04 16:58	MS
BI-214	0.535	0.0685	0.021	pCi/g	EPA 901.1M	7/27/04 16:58	MS
PB-212	1.035	0.0696	0.014	pCi/g	EPA 901.1M	7/27/04 16:58	MS
CS-137	0.165	0.0347	0.010	pCi/g	EPA 901.1M	7/27/04 16:58	MS
CO-60	-0.010	-0.0690	0.012	pCi/g	EPA 901.1M	7/27/04 16:58	MS
AM-241	0.023	0.0528	0.031	pCi/g	EPA 901.1M	7/27/04 16:58	MS
Total Activity	17.349	NA	NA	pCi/g	EPA 901.1M	7/27/04 16:58	MS
Percent Moisture	29.640	N/A	N/A	%	Moisture	7/27/04 11:00	MS

Notes:

Quality Assurance Review

Notes: American Radiation Services, Inc. assumes no liability for the use or interpretation of any analytical results provided other than the cost of the analysis itself. Reproduction of this report in less than full requires the written consent of the client.

K611-83



2609 North River Road Port Allen, Louisiana 70767
1 (800) 401-4277 FAX (225) 381-2996

ARS Tracking Number: ARS041309

Request or PO Number: NA

Client ID: 406028-002-002-1/1

ARS Sample ID: ARS041309-4347

Date Sampled: 6/1/04

Date Received: 7/26/04

Time Sampled: 0000

Time Received: 1416

Type of Sample: Solid

Date of Report: 8/04/04

Analysis Description	Analysis Results	Analysis Error +/- 2 Sigma	MDC	Analysis Units	Analysis Test Method	Analysis Date / Time	Analysis Technician
RA-226	2.467	0.7799	0.262	pCi/g	EPA 901.1M	7/28/04 09:54	MS
Ra-228	1.953	0.1438	0.031	pCi/g	EPA 901.1M	7/28/04 09:54	MS
PB-210	2.825	0.5643	0.284	pCi/g	EPA 901.1M	7/28/04 09:54	MS
U-238	2.021	1.1828	0.383	pCi/g	EPA 901.1M	7/28/04 09:54	MS
K-40	2.240	0.3792	0.136	pCi/g	EPA 901.1M	7/28/04 09:54	MS
BI-214	1.254	0.1066	0.025	pCi/g	EPA 901.1M	7/28/04 09:54	MS
PB-212	2.231	0.1176	0.018	pCi/g	EPA 901.1M	7/28/04 09:54	MS
CS-137	0.484	0.0514	0.013	pCi/g	EPA 901.1M	7/28/04 09:54	MS
CO-60	0.002	0.0208	0.012	pCi/g	EPA 901.1M	7/28/04 09:54	MS
AM-241	-0.020	-0.1263	0.041	pCi/g	EPA 901.1M	7/28/04 09:54	MS
Total Activity	34.764	NA	NA	pCi/g	EPA 901.1M	7/28/04 09:54	MS
Percent Moisture	24.460	N/A	N/A	%	Moisture	7/27/04 11:00	MS

Notes:

Quality Assurance Review

Notes: American Radiation Services, Inc. assumes no liability for the use or interpretation of any analytical results provided other than the cost of the analysis itself. Reproduction of this report in less than full requires the written consent of the client.



2609 North River Road Port Allen, Louisiana 70767

1 (800) 401-4277 FAX (225) 381-2996

K 611 - 07

ARS Tracking Number: ARS041133

Request or PO Number: 406128

Client ID: 406128-001-001

ARS Sample ID: ARS041133-3796

Date Sampled: 6/21/04

Date Received: 6/30/04

Time Sampled: NA

Time Received: 1100

Type of Sample: Solid

Date of Report: 7/14/04

Analysis Description	Analysis Results	Analysis Error +/- 2 Sigma	MDC	Analysis Units	Analysis Test Method	Analysis Date / Time	Analysis Technician
RA-226	4.080	0.6670	0.959	pCi/g	EPA 901.1M	7/11/04 05:07	MS
Ra-228	2.100	0.1130	0.231	pCi/g	EPA 901.1M	7/11/04 05:07	MS
PB-210	2.630	0.7850	1.220	pCi/g	EPA 901.1M	7/11/04 05:07	MS
U-238	3.290	1.3900	1.250	pCi/g	EPA 901.1M	7/11/04 05:07	MS
K-40	4.400	0.4260	0.340	pCi/g	EPA 901.1M	7/11/04 05:07	MS
BI-214	1.640	0.0866	0.071	pCi/g	EPA 901.1M	7/11/04 05:07	MS
PB-212	2.150	0.0962	0.416	pCi/g	EPA 901.1M	7/11/04 05:07	MS
AM-241	-0.037	0.0856	0.133	pCi/g	EPA 901.1M	7/11/04 05:07	MS
Total Activity	22.481	NA	NA	pCi/g	EPA 901.1M	7/11/04 05:07	MS
Percent Moisture	20.910	N/A	N/A	%	Moisture	7/02/04 11:20	KB

Notes: Project Name: Curtis Bay Army Depot

Quality Assurance Review

Notes: American Radiation Services, Inc. assumes no liability for the use or interpretation of any analytical results provided other than the cost of the analysis itself. Reproduction of this report in less than full requires the written consent of the client.



2609 North River Road Port Allen, Louisiana 70767
1 (800) 401-4277 FAX (225) 381-2996

12611-05

ARS Tracking Number: ARS041309

Request or PO Number: NA

Client ID: 406028-003-003-1/1

ARS Sample ID: ARS041309-4348

Date Sampled: 6/1/04

Date Received: 7/26/04

Time Sampled: 0000

Time Received: 1416

Type of Sample: Solid

Date of Report: 8/04/04

Analysis Description	Analysis Results	Analysis Error +/- 2 Sigma	MDC	Analysis Units	Analysis Test Method	Analysis Date / Time	Analysis Technician
RA-226	3.036	0.7382	0.366	pCi/g	EPA 901.1M	7/28/04 11:15	MS
Ra-228	1.821	0.2022	0.032	pCi/g	EPA 901.1M	7/28/04 11:15	MS
PB-210	3.569	1.1309	0.475	pCi/g	EPA 901.1M	7/28/04 11:15	MS
U-238	2.240	2.4462	0.475	pCi/g	EPA 901.1M	7/28/04 11:15	MS
K-40	10.606	1.0187	0.158	pCi/g	EPA 901.1M	7/28/04 11:15	MS
Bi-214	1.051	0.1262	0.038	pCi/g	EPA 901.1M	7/28/04 11:15	MS
PB-212	2.026	0.1292	0.025	pCi/g	EPA 901.1M	7/28/04 11:15	MS
CS-137	0.156	0.0431	0.020	pCi/g	EPA 901.1M	7/28/04 11:15	MS
CO-60	-0.010	-0.0002	0.008	pCi/g	EPA 901.1M	7/28/04 11:15	MS
AM-241	-0.010	-0.0250	0.028	pCi/g	EPA 901.1M	7/28/04 11:15	MS
Total Activity	44.545	NA	NA	pCi/g	EPA 901.1M	7/28/04 11:15	MS
Percent Moisture	35.690	N/A	N/A	%	Other	7/27/04 11:00	MS

Notes:

Quality Assurance Review

Notes: American Radiation Services, Inc. assumes no liability for the use or interpretation of any analytical results provided other than the cost of the analysis itself. Reproduction of this report in less than full requires the written consent of the client.

K611-06



2609 North River Road Port Allen, Louisiana 70767
1 (800) 401-4277 FAX (225) 381-2996

ARS Tracking Number: ARS041309

Request or PO Number: NA

Client ID: 406028-004-004-1/1

ARS Sample ID: ARS041309-4349

Date Sampled: 6/1/04

Date Received: 7/26/04

Time Sampled: 0000


Time Received: 1416

Type of Sample: Solid

Date of Report: 8/04/04

Analysis Description	Analysis Results	Analysis Error ± 2 Sigma	MDC	Analysis Units	Analysis Test Method	Analysis Date / Time	Analysis Technician
RA-226	1.184	0.6305	0.232	pCi/g	EPA 901.1M	7/28/04 08:52	MS
Ra-228	1.611	0.1484	0.023	pCi/g	EPA 901.1M	7/28/04 08:52	MS
PB-210	2.092	0.4969	0.259	pCi/g	EPA 901.1M	7/28/04 08:52	MS
U-238	1.455	0.8803	0.375	pCi/g	EPA 901.1M	7/28/04 08:52	MS
K-40	6.390	0.6009	0.101	pCi/g	EPA 901.1M	7/28/04 08:52	MS
BI-214	0.963	0.0948	0.024	pCi/g	EPA 901.1M	7/28/04 08:52	MS
PB-212	1.797	0.0968	0.015	pCi/g	EPA 901.1M	7/28/04 08:52	MS
CS-137	0.125	0.0321	0.099	pCi/g	EPA 901.1M	7/28/04 08:52	MS
CO-60	-0.006	-0.2244	0.013	pCi/g	EPA 901.1M	7/28/04 08:52	MS
AM-241	0.028	0.0601	0.035	pCi/g	EPA 901.1M	7/28/04 08:52	MS
Total Activity	33.471	NA	NA	pCi/g	EPA 901.1M	7/28/04 08:52	MS
Percent Moisture	19.920	N/A	N/A	%	Moisture	7/27/04 11:00	MS

Notes:


Quality Assurance Review

Notes: American Radiation Services, Inc. assumes no liability for the use or interpretation of any analytical results provided other than the cost of the analysis itself. Reproduction of this report in less than full requires the written consent of the client.

K611-01



2609 North River Road Port Allen, Louisiana 70767
1 (800) 401-4277 FAX (225) 331-2996

ARS Tracking Number: ARS041133
Client ID: 406128-002-002
Date Sampled: 6/21/04
Time Sampled: NA
Type of Sample: Solid

Request or PO Number: 406128
ARS Sample ID: ARS041133-3797
Date Received: 6/30/04
Time Received: 1100
Date of Report: 7/14/04

Analysis Description	Analysis Results	Analysis Error +/- 2 Sigma	MDC	Analysis Units	Analysis Test Method	Analysis Date / Time	Analysis Technician
RA-226	2.650	0.5610	0.848	pCi/g	EPA 901.1M	7/11/04 24:50	MS
Ra-228	1.380	0.0801	0.229	pCi/g	EPA 901.1M	7/11/04 24:50	MS
PB-210	1.680	0.5590	0.875	pCi/g	EPA 901.1M	7/11/04 24:50	MS
U-238	2.420	1.1400	1.020	pCi/g	EPA 901.1M	7/11/04 24:50	MS
K-40	3.970	0.3570	0.246	pCi/g	EPA 901.1M	7/11/04 24:50	MS
BI-214	1.090	0.0648	0.070	pCi/g	EPA 901.1M	7/11/04 24:50	MS
PB-212	1.590	0.0720	0.332	pCi/g	EPA 901.1M	7/11/04 24:50	MS
AM-241	-0.056	0.0892	0.109	pCi/g	EPA 901.1M	7/11/04 24:50	MS
Total Activity	16.933	NA	NA	pCi/g	EPA 901.1M	7/11/04 24:50	MS
Percent Moisture	18.770	N/A	N/A	%	Moisture	7/02/04 11:20	KB

Notes: Project Name: Curtis Bay Army Depot

Quality Assurance Review

Notes: American Radiation Services, Inc. assumes no liability for the use or interpretation of any analytical results provided other than the cost of the analysis itself. Reproduction of this report in less than full requires the written consent of the client.

2611-08



2609 North River Road Port Allen, Louisiana 70767
1 (800) 401-4277 FAX (225) 381-2996

ARS Tracking Number: ARS041309

Request or PO Number: NA

Client ID: 406028-005-005-1/1

ARS Sample ID: ARS041309-4350

Date Sampled: 6/1/04

Date Received: 7/26/04

Time Sampled: 0000


Time Received: 1416

Type of Sample: Solid

Date of Report: 8/04/04

Analysis Description	Analysis Results	Analysis Error +/- 2 Sigma	MDC	Analysis Units	Analysis Test Method	Analysis Date / Time	Analysis Technician
RA-226	1.134	0.6775	0.239	pCi/g	EPA 901.1M	7/28/04 12:18	MS
Ra-228	1.408	0.1663	0.031	pCi/g	EPA 901.1M	7/28/04 12:18	MS
PB-210	1.545	0.6512	0.314	pCi/g	EPA 901.1M	7/28/04 12:18	MS
U-238	3.559	0.6224	0.426	pCi/g	EPA 901.1M	7/28/04 12:18	MS
K-40	11.679	0.9148	0.124	pCi/g	EPA 901.1M	7/28/04 12:18	MS
BI-214	0.928	0.0987	0.026	pCi/g	EPA 901.1M	7/28/04 12:18	MS
PB-212	1.575	0.0973	0.020	pCi/g	EPA 901.1M	7/28/04 12:18	MS
CS-137	0.015	0.0264	0.015	pCi/g	EPA 901.1M	7/28/04 12:18	MS
CO-60	0.011	0.0296	0.017	pCi/g	EPA 901.1M	7/28/04 12:18	MS
AM-241	0.003	0.0692	0.040	pCi/g	EPA 901.1M	7/28/04 12:18	MS
Total Activity	29.592	NA	NA	pCi/g	EPA 901.1M	7/28/04 12:18	MS
Percent Moisture	19.840	N/A	N/A	%	Moisture	7/27/04 11:00	MS

Notes:


Quality Assurance Review

Notes: American Radiation Services, Inc. assumes no liability for the use or interpretation of any analytical results provided other than the cost of the analysis itself. Reproduction of this report in less than full requires the written consent of the client.



2609 North River Road Port Allen, Louisiana 70767
1 (800) 401-4277 FAX (225) 381-2996

12611-09

ARS Tracking Number: ARS041309

Request or PO Number: NA

Client ID: 406028-006-006-1/1

ARS Sample ID: ARS041309-4351

Date Sampled: 6/1/04

Date Received: 7/26/04

Time Sampled: 0000

Time Received: 1416

Type of Sample: Solid

Date of Report: 8/04/04

Analysis Description	Analysis Results	Analysis Error +/- 2 Sigma	MDC	Analysis Units	Analysis Test Method	Analysis Date / Time	Analysis Technician
RA-226	0.892	0.5960	0.219	pCi/g	EPA 901.1M	7/27/04 18:04	MS
Ra-228	1.321	0.1406	0.028	pCi/g	EPA 901.1M	7/27/04 18:04	MS
PB-210	1.893	0.4605	0.240	pCi/g	EPA 901.1M	7/27/04 18:04	MS
U-238	1.163	0.8807	0.376	pCi/g	EPA 901.1M	7/27/04 18:04	MS
K-40	8.342	0.6645	0.090	pCi/g	EPA 901.1M	7/27/04 18:04	MS
BI-214	0.865	0.0824	0.021	pCi/g	EPA 901.1M	7/27/04 18:04	MS
PB-212	1.382	0.0838	0.021	pCi/g	EPA 901.1M	7/27/04 18:04	MS
CS-137	0.073	0.0265	0.014	pCi/g	EPA 901.1M	7/27/04 18:04	MS
CO-60	-0.005	-1.1431	0.011	pCi/g	EPA 901.1M	7/27/04 18:04	MS
AM-241	0.017	0.0577	0.033	pCi/g	EPA 901.1M	7/27/04 18:04	MS
Total Activity	29.787	NA	NA	pCi/g	EPA 901.1M	7/27/04 18:04	MS
Percent Moisture	24.540	N/A	N/A	%	Moisture	7/27/04 11:00	MS

Notes:

Quality Assurance Review

Notes: American Radiation Services, Inc. assumes no liability for the use or interpretation of any analytical results provided other than the cost of the analysis itself. Reproduction of this report in less than full requires the written consent of the client.

K611-10



2609 North River Road Port Allen, Louisiana 70767
1 (800) 401-4277 FAX (225) 381-2996

ARS Tracking Number: ARS041309 Request or PO Number: NA
Client ID: 406028-007-007-1/1 ARS Sample ID: ARS041309-4352
Date Sampled: 6/1/04 Date Received: 7/26/04
Time Sampled: 0000 Time Received: 1416
Type of Sample: Solid Date of Report: 8/04/04

Analysis Description	Analysis Results	Analysis Error +/- 2 Sigma	MDC	Analysis Units	Analysis Test Method	Analysis Date / Time	Analysis Technician
RA-226	0.165	0.8009	0.304	pCi/g	EPA 901.1M	7/27/04 11:19	MS
Ra-228	1.984	0.1889	0.043	pCi/g	EPA 901.1M	7/27/04 11:19	MS
PB-210	0.210	0.6201	0.369	pCi/g	EPA 901.1M	7/27/04 11:19	MS
U-238	0.943	0.7456	0.428	pCi/g	EPA 901.1M	7/27/04 11:19	MS
K-40	3.250	0.4819	0.156	pCi/g	EPA 901.1M	7/27/04 11:19	MS
BI-214	1.116	0.1168	0.031	pCi/g	EPA 901.1M	7/27/04 11:19	MS
PB-212	1.908	0.1366	0.037	pCi/g	EPA 901.1M	7/27/04 11:19	MS
CS-137	0.186	0.0390	0.018	pCi/g	EPA 901.1M	7/27/04 11:19	MS
CO-60	-0.009	-0.1516	0.014	pCi/g	EPA 901.1M	7/27/04 11:19	MS
AM-241	0.011	0.0744	0.043	pCi/g	EPA 901.1M	7/27/04 11:19	MS
Total Activity	16.977	NA	NA	pCi/g	EPA 901.1M	7/27/04 11:19	MS
Percent Moisture	14.550	N/A	N/A	%	Moisture	7/27/04 11:00	MS

Notes:

Quality Assurance Review

Notes: American Radiation Services, Inc. assumes no liability for the use or interpretation of any analytical results provided other than the cost of the analysis itself. Reproduction of this report in less than full requires the written consent of the client.



2609 North River Road Port Allen, Louisiana 70767
1 (800) 401-4277 FAX (225) 381-2996

K611-11

ARS Tracking Number: ARS041133
Client ID: 406128-003-003
Date Sampled: 6/21/04
Time Sampled: NA
Type of Sample: Solid

Request or PO Number: 406128
ARS Sample ID: ARS041133-3798
Date Received: 6/30/04
Time Received: 1100
Date of Report: 7/14/04

Analysis Description	Analysis Results	Analysis Error +/- 2 Sigma	MDC	Analysis Units	Analysis Test Method	Analysis Date / Time	Analysis Technician
RA-226	1.650	0.3900	0.593	pCi/g	EPA 901.1M	7/11/04 15:21	MS
Ra-228	0.676	0.0471	0.400	pCi/g	EPA 901.1M	7/11/04 15:21	MS
PB-210	1.740	0.4740	0.729	pCi/g	EPA 901.1M	7/11/04 15:21	MS
U-238	1.410	0.1730	0.665	pCi/g	EPA 901.1M	7/11/04 15:21	MS
K-40	2.720	0.2650	0.195	pCi/g	EPA 901.1M	7/11/04 15:21	MS
BI-214	0.524	0.0385	0.048	pCi/g	EPA 901.1M	7/11/04 15:21	MS
PB-212	0.683	0.0344	0.158	pCi/g	EPA 901.1M	7/11/04 15:21	MS
AM-241	-0.021	0.0566	0.075	pCi/g	EPA 901.1M	7/11/04 15:21	MS
Total Activity	10.265	NA	NA	pCi/g	EPA 901.1M	7/11/04 15:21	MS
Percent Moisture	23.150	N/A	N/A	%	Moisture	7/02/04 11:20	KP

Notes: Project Name: Curtis Bay Army Depot

Quality Assurance Review

Notes: American Radiation Services, Inc. assumes no liability for the use or interpretation of any analytical results provided other than the cost of the analysis itself. Reproduction of this report in less than full requires the written consent of the client.



2609 North River Road Port Allen, Louisiana 70767
1 (800) 401-4277 FAX (225) 381-2996

ARS Tracking Number: ARS041309

Request or PO Number: NA

Client ID: 406028-008-008-1/1

ARS Sample ID: ARS041309-4353

Date Sampled: 6/1/04

Date Received: 7/26/04

Time Sampled: 0000

Time Received: 1416

Type of Sample: Solid

Date of Report: 8/04/04

Analysis Description	Analysis Results	Analysis Error +/- 2 Sigma	MDC	Analysis Units	Analysis Test Method	Analysis Date / Time	Analysis Technician
RA-226	0.423	0.6054	0.233	pCi/g	EPA 901.1M	7/27/04 12:20	MS
Ra-228	1.052	0.1352	0.029	pCi/g	EPA 901.1M	7/27/04 12:20	MS
PB-210	0.282	0.5294	0.314	pCi/g	EPA 901.1M	7/27/04 12:20	MS
U-238	0.000	0.0000	0.349	pCi/g	EPA 901.1M	7/27/04 12:20	MS
K-40	9.112	0.7397	0.093	pCi/g	EPA 901.1M	7/27/04 12:20	MS
BI-214	0.741	0.0914	0.026	pCi/g	EPA 901.1M	7/27/04 12:20	MS
PB-212	1.002	0.0777	0.026	pCi/g	EPA 901.1M	7/27/04 12:20	MS
CS-137	0.078	0.0270	0.013	pCi/g	EPA 901.1M	7/27/04 12:20	MS
CO-60	-0.012	-0.0746	0.016	pCi/g	EPA 901.1M	7/27/04 12:20	MS
AM-241	0.010	0.0585	0.034	pCi/g	EPA 901.1M	7/27/04 12:20	MS
Total Activity	21.171	NA	NA	pCi/g	EPA 901.1M	7/27/04 12:20	MS
Percent Moisture	18.000	N/A	N/A	%	Moisture	7/27/04 11:00	MS

Notes:

Quality Assurance Review

Notes: American Radiation Services, Inc. assumes no liability for the use or interpretation of any analytical results provided other than the cost of the analysis itself. Reproduction of this report in less than full requires the written consent of the client.

K611-13



2609 North River Road Port Allen, Louisiana 70767

1 (800) 401-4277 FAX (225) 381-2996

ARS Tracking Number: ARS040986

Request or PO Number: 406029

Client ID: 406029-001-001

ARS Sample ID: ARS040986-3256

Date Sampled: 6/1/04

Date Received: 6/9/04

Time Sampled: NA

Time Received: 1100

Type of Sample: Solid

Date of Report: 6/17/04

Analysis Description	Analysis Results	Analysis Error +/- 2 Sigma	MDC	Analysis Units	Analysis Test Method	Analysis Date / Time	Analysis Technician
RA-226	1.410	0.3728	0.389	pCi/g	EPA 901.1M	6/17/04 15:33	MS
Ra-228	0.757	0.0786	0.075	pCi/g	EPA 901.1M	6/17/04 15:33	MS
PB-210	0.696	0.4102	0.382	pCi/g	EPA 901.1M	6/17/04 15:33	MS
U-238	1.795	0.4664	0.384	pCi/g	EPA 901.1M	6/17/04 15:33	MS
K-40	6.276	0.5650	0.374	pCi/g	EPA 901.1M	6/17/04 15:33	MS
BI-214	0.505	0.0832	0.066	pCi/g	EPA 901.1M	6/17/04 15:33	MS
PB-212	0.878	0.0551	0.034	pCi/g	EPA 901.1M	6/17/04 15:33	MS
CS-137	0.016	0.0231	0.026	pCi/g	EPA 901.1M	6/17/04 15:33	MS
CO-60	-0.016	-0.2970	0.033	pCi/g	EPA 901.1M	6/17/04 15:33	MS
AM-241	-0.007	-0.1210	0.040	pCi/g	EPA 901.1M	6/17/04 15:33	MS
Total Activity	21.763	NA	NA	pCi/g	EPA 901.1M	6/17/04 15:33	MS

Notes: Project Number: Curtis Bay Army Depot

Quality Assurance Review

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K 611-17



2609 North River Road Port Allen, Louisiana 70767
1 (800) 401-4277 FAX (225) 381-2996

ARS Tracking Number: ARS040986 Request or PO Number: 406029
Client ID: 406029-002-002 ARS Sample ID: ARS040986-3257
Date Sampled: 6/1/04 Date Received: 6/9/04
Time Sampled: NA Time Received: 1100
Type of Sample: Solid Date of Report: 6/17/04

Analysis Description	Analysis Results	Analysis Error +/- 2 Sigma	MDC	Analysis Units	Analysis Test Method	Analysis Date / Time	Analysis Technician
RA-226	0.551	0.3646	0.133	pCi/g	EPA 901.1M	6/16/04 02:18	MS
Ra-228	0.985	0.0790	0.016	pCi/g	EPA 901.1M	6/16/04 02:18	MS
PB-210	1.495	0.2965	0.156	pCi/g	EPA 901.1M	6/16/04 02:18	MS
U-238	1.490	0.3882	0.206	pCi/g	EPA 901.1M	6/16/04 02:18	MS
K-40	1.476	0.2068	0.074	pCi/g	EPA 901.1M	6/16/04 02:18	MS
BI-214	0.651	0.0549	0.014	pCi/g	EPA 901.1M	6/16/04 02:18	MS
PB-212	1.177	0.0602	0.010	pCi/g	EPA 901.1M	6/16/04 02:18	MS
CS-137	0.124	0.0203	0.006	pCi/g	EPA 901.1M	6/16/04 02:18	MS
CO-60	-0.005	-0.0121	0.004	pCi/g	EPA 901.1M	6/16/04 02:18	MS
AM-241	-0.006	-0.6071	0.022	pCi/g	EPA 901.1M	6/16/04 02:18	MS
Total Activity	22.655	NA	NA	pCi/g	EPA 901.1M	6/16/04 02:18	MS

Notes: Project Number: Curtis Bay Army Depot

Quality Assurance Review

Notes: American Radiation Services, Inc. assumes no liability for the use or interpretation of any analytical results provided other than the cost of the analysis itself. Reproduction of this report in less than full requires the written consent of the client.

K611-15



2609 North River Road Port Allen, Louisiana 70767
1 (800) 401-4277 FAX (225) 381-2996

ARS Tracking Number: ARS041133

Request or PO Number: 406128

Client ID: 406128-004-004

ARS Sample ID: ARS041133-3799

Date Sampled: 6/21/04

Date Received: 6/30/04

Time Sampled: NA

Time Received: 1100

Type of Sample: Solid

Date of Report: 7/14/04

Analysis Description	Analysis Results	Analysis Error +/- 2 Sigma	MDC	Analysis Units	Analysis Test Method	Analysis Date / Time	Analysis Technician
RA-226	1.093	0.5466	0.202	pCi/g	EPA 901.1M	7/09/04 17:32	EAM
Ra-228	1.501	0.1314	0.027	pCi/g	EPA 901.1M	7/09/04 17:32	EAM
PB-210	2.225	0.4312	0.225	pCi/g	EPA 901.1M	7/09/04 17:32	EAM
U-238	1.019	1.5504	0.305	pCi/g	EPA 901.1M	7/09/04 17:32	EAM
K-40	3.564	0.3775	0.086	pCi/g	EPA 901.1M	7/09/04 17:32	EAM
BI-214	1.147	0.0886	0.022	pCi/g	EPA 901.1M	7/09/04 17:32	EAM
PB-212	1.791	0.0917	0.016	pCi/g	EPA 901.1M	7/09/04 17:32	EAM
CS-137	0.255	0.0291	0.008	pCi/g	EPA 901.1M	7/09/04 17:32	EAM
CO-60	-0.012	-0.0770	0.011	pCi/g	EPA 901.1M	7/09/04 17:32	EAM
AM-241	-0.008	-3.1656	0.030	pCi/g	EPA 901.1M	7/09/04 17:32	EAM
Total Activity	32.452	NA	NA	pCi/g	EPA 901.1M	7/09/04 17:32	EAM
Percent Moisture	20.720	N/A	N/A	%	Moisture	7/02/04 11:20	KB

Notes: Project Name: Curtis Bay Army Depot



Quality Assurance Review

Notes: American Radiation Services, Inc. assumes no liability for the use or interpretation of any analytical results provided other than the cost of the analysis itself. Reproduction of this report in less than full requires the written consent of the client.



2609 North River Road Port Allen, Louisiana 70767

1 (800) 401-4277

FAX (225) 381-2996

ARS Tracking Number: ARS040986

Request or PO Number: 406029

Client ID: 406029-003-003

ARS Sample ID: ARS040986-3258

Date Sampled: 6/1/04

Date Received: 6/9/04

Time Sampled: NA

Time Received: 1100

Type of Sample: Solid

Date of Report: 6/17/04

Analysis Description	Analysis Results	Analysis Error +/- 2 Sigma	MDC	Analysis Units	Analysis Test Method	Analysis Date / Time	Analysis Technician
RA-226	0.120	0.3276	0.120	pCi/g	EPA 901.1M	6/16/04 20:15	CSG
Ra-228	0.580	0.0736	0.013	pCi/g	EPA 901.1M	6/16/04 20:15	CSG
PB-210	0.707	0.3026	0.153	pCi/g	EPA 901.1M	6/16/04 20:15	CSG
U-238	0.000	0.0000	0.185	pCi/g	EPA 901.1M	6/16/04 20:15	CSG
K-40	1.259	0.2165	0.066	pCi/g	EPA 901.1M	6/16/04 20:15	CSG
BI-214	0.253	0.0428	0.016	pCi/g	EPA 901.1M	6/16/04 20:15	CSG
PB-212	0.541	0.0394	0.010	pCi/g	EPA 901.1M	6/16/04 20:15	CSG
CS-137	0.064	0.0145	0.006	pCi/g	EPA 901.1M	6/16/04 20:15	CSG
CO-60	-0.005	-0.5095	0.007	pCi/g	EPA 901.1M	6/16/04 20:15	CSG
AM-241	-0.006	-0.1508	0.009	pCi/g	EPA 901.1M	6/16/04 20:15	CSG
Total Activity	9.630	NA	NA	pCi/g	EPA 901.1M	6/16/04 20:15	CSG

Notes: Project Number: Curtis Bay Army Depot

Quality Assurance Review

Notes: American Radiation Services, Inc. assumes no liability for the use or interpretation of any analytical results provided other than the cost of the analysis itself. Reproduction of this report in less than full requires the written consent of the client.

2611-18



2609 North River Road Port Allen, Louisiana 70767
1 (800) 401-4277 FAX (225) 381-2996

ARS Tracking Number: ARS041133

Request or PO Number: 406128

Client ID: 406128-005-005

ARS Sample ID: ARS041133-3800

Date Sampled: 6/21/04

Date Received: 6/30/04

Time Sampled: NA

Time Received: 1100

Type of Sample: Solid

Date of Report: 7/14/04

Analysis Description	Analysis Results	Analysis Error +/- 2 Sigma	MDC	Analysis Units	Analysis Test Method	Analysis Date / Time	Analysis Technician
RA-226	3.180	0.6640	0.995	pCi/g	EPA 901.1M	7/11/04 02:58	MS
Ra-228	1.760	0.1070	0.311	pCi/g	EPA 901.1M	7/11/04 02:58	MS
PB-210	2.410	0.4100	0.881	pCi/g	EPA 901.1M	7/11/04 02:58	MS
U-238	1.890	1.3800	1.210	pCi/g	EPA 901.1M	7/11/04 02:58	MS
K-40	3.930	0.4220	0.373	pCi/g	EPA 901.1M	7/11/04 02:58	MS
BI-214	1.350	0.0800	0.073	pCi/g	EPA 901.1M	7/11/04 02:58	MS
PB-212	2.020	0.0776	0.406	pCi/g	EPA 901.1M	7/11/04 02:58	MS
AM-241	0.004	0.0747	0.129	pCi/g	EPA 901.1M	7/11/04 02:58	MS
Total Activity	18.822	NA	NA	pCi/g	EPA 901.1M	7/11/04 02:58	MS
Percent Moisture	22.510	N/A	N/A	%	Moisture	7/02/04 11:20	KB

Notes: Project Name: Curtis Bay Army Depot

Quality Assurance Review

Notes: American Radiation Services, Inc. assumes no liability for the use or interpretation of any analytical results provided other than the cost of the analysis itself. Reproduction of this report in less than full requires the written consent of the client.



2609 North River Road Port Allen, Louisiana 70767

1 (800) 401-4277 FAX (225) 381-2996

ARS Tracking Number: ARS040986

Request or PO Number: 406029

Client ID: 406029-004-004

ARS Sample ID: ARS040986-3259

Date Sampled: 5/21/04

Date Received: 6/9/04

Time Sampled: NA

Time Received: 1100

Type of Sample: Solid

Date of Report: 6/17/04

Analysis Description	Analysis Results	Analysis Error +/- 2 Sigma	MDC	Analysis Units	Analysis Test Method	Analysis Date / Time	Analysis Technician
RA-226	0.561	0.2030	0.107	pCi/g	EPA 901.1M	6/16/04 18:34	CSG
Ra-228	0.471	0.0466	0.013	pCi/g	EPA 901.1M	6/16/04 18:34	CSG
PB-210	0.873	0.3228	0.146	pCi/g	EPA 901.1M	6/16/04 18:34	CSG
U-238	0.553	0.4405	0.174	pCi/g	EPA 901.1M	6/16/04 18:34	CSG
K-40	2.170	0.2359	0.048	pCi/g	EPA 901.1M	6/16/04 18:34	CSG
BI-214	0.277	0.0335	0.011	pCi/g	EPA 901.1M	6/16/04 18:34	CSG
PB-212	0.485	0.0329	0.008	pCi/g	EPA 901.1M	6/16/04 18:34	CSG
CS-137	0.105	0.0175	0.005	pCi/g	EPA 901.1M	6/16/04 18:34	CSG
CO-60	-0.001	-0.0180	0.006	pCi/g	EPA 901.1M	6/16/04 18:34	CSG
AM-241	0.006	0.0272	0.016	pCi/g	EPA 901.1M	6/16/04 18:34	CSG
Total Activity	10.188	NA	NA	pCi/g	EPA 901.1M	6/16/04 18:34	CSG

Notes: Project Number: Curtis Bay Army Depot

Quality Assurance Review

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K614-01



2609 North River Road Port Allen, Louisiana 70767
1 (800) 401-4277 FAX (225) 381-2996

ARS Tracking Number: ARS041134
Client ID: 406153-001-001
Date Sampled: 6/23/04
Time Sampled: NA
Type of Sample: Solid

Request or PO Number: 406153
ARS Sample ID: ARS041134-3851
Date Received: 6/30/04
Time Received: 1100
Date of Report: 7/19/04

Analysis Description	Analysis Results	Analysis Error +/- 2 Sigma	MDC	Analysis Units	Analysis Test Method	Analysis Date / Time	Analysis Technician
RA-226	1.734	0.5230	0.264	pCi/g	EPA 901.1M	7/15/04 15:42	MS
Ra-228	1.305	0.1673	0.028	pCi/g	EPA 901.1M	7/15/04 15:42	MS
PB-210	5.030	0.9039	0.363	pCi/g	EPA 901.1M	7/15/04 15:42	MS
U-238	1.047	1.5834	0.401	pCi/g	EPA 901.1M	7/15/04 15:42	MS
K-40	2.436	0.4681	0.172	pCi/g	EPA 901.1M	7/15/04 15:42	MS
Bi-214	0.718	0.0940	0.030	pCi/g	EPA 901.1M	7/15/04 15:42	MS
PB-212	1.367	0.0937	0.021	pCi/g	EPA 901.1M	7/15/04 15:42	MS
CS-137	0.788	0.0679	0.013	pCi/g	EPA 901.1M	7/15/04 15:42	MS
CO-60	-0.002	-0.0432	0.015	pCi/g	EPA 901.1M	7/15/04 15:42	MS
AM-241	-0.015	-0.2249	0.041	pCi/g	EPA 901.1M	7/15/04 15:42	MS
total Activity	29.074	NA	NA	pCi/g	EPA 901.1M	7/15/04 15:42	MS
percent Moisture	28.800	N/A	N/A	%	Moisture	7/07/04 08:20	KB

Notes: Project Name: Curtis Bay Army Depot

Quality Assurance Review

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2616



2609 North River Road Port Allen, Louisiana 70767
1 (800) 401-4277 FAX (225) 381-2996

ARS Tracking Number: ARS041134

Request or PO Number: 406153

Client ID: 406153-002-002

ARS Sample ID: ARS041134-3852

Date Sampled: 6/23/04

Date Received: 6/30/04

Time Sampled: NA

Time Received: 1100

Type of Sample: Solid

Date of Report: 7/19/04

Analysis Description	Analysis Results	Analysis Error +/- 2 Sigma	MDC	Analysis Units	Analysis Test Method	Analysis Date / Time	Analysis Technician
RA-226	0.588	0.5879	0.225	pCi/g	EPA 901.1M	7/14/04 20:05	DM
Ra-228	1.239	0.1237	0.016	pCi/g	EPA 901.1M	7/14/04 20:05	DM
PB-210	0.939	0.4213	0.216	pCi/g	EPA 901.1M	7/14/04 20:05	DM
U-238	1.364	0.8717	0.361	pCi/g	EPA 901.1M	7/14/04 20:05	DM
K-40	1.375	0.2924	0.115	pCi/g	EPA 901.1M	7/14/04 20:05	DM
BI-214	1.027	0.0897	0.021	pCi/g	EPA 901.1M	7/14/04 20:05	DM
PB-212	1.380	0.0814	0.016	pCi/g	EPA 901.1M	7/14/04 20:05	DM
CS-137	0.062	0.0245	0.009	pCi/g	EPA 901.1M	7/14/04 20:05	DM
CO-60	-0.010	-0.0564	0.011	pCi/g	EPA 901.1M	7/14/04 20:05	DM
AM-241	-0.027	-0.0854	0.034	pCi/g	EPA 901.1M	7/14/04 20:05	DM
Total Activity	22.273	NA	NA	pCi/g	EPA 901.1M	7/14/04 20:05	DM
Percent Moisture	15.050	N/A	N/A	%	Moisture	7/07/04 08:20	KB

Notes: Project Name: Curtis Bay Army Depot

Quality Assurance Review

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2612-2



2609 North River Road Port Allen, Louisiana 70767
1 (800) 401-4277 FAX (225) 381-2996

ARS Tracking Number: ARS041134

Request or PO Number: 406153

Client ID: 406153-003-003

ARS Sample ID: ARS041134-3853

Date Sampled: 6/23/04

Date Received: 6/30/04

Time Sampled: NA

Time Received: 1100

Type of Sample: Solid

Date of Report: 7/19/04

Analysis Description	Analysis Results	Analysis Error +/- 2 Sigma	MDC	Analysis Units	Analysis Test Method	Analysis Date / Time	Analysis Technician
RA-226	1.356	0.4269	0.224	pCi/g	EPA 901.1M	7/16/04 01:12	CSG
Ra-228	1.073	0.1196	0.021	pCi/g	EPA 901.1M	7/16/04 01:12	CSG
PB-210	1.368	0.4503	0.245	pCi/g	EPA 901.1M	7/16/04 01:12	CSG
U-238	1.385	0.8823	0.299	pCi/g	EPA 901.1M	7/16/04 01:12	CSG
K-40	2.252	0.3582	0.122	pCi/g	EPA 901.1M	7/16/04 01:12	CSG
BI-214	0.922	0.0943	0.024	pCi/g	EPA 901.1M	7/16/04 01:12	CSG
PB-212	1.240	0.0769	0.017	pCi/g	EPA 901.1M	7/16/04 01:12	CSG
CS-137	0.607	0.0474	0.009	pCi/g	EPA 901.1M	7/16/04 01:12	CSG
CO-60	-0.009	-0.0685	0.011	pCi/g	EPA 901.1M	7/16/04 01:12	CSG
AM-241	-0.013	-0.1283	0.033	pCi/g	EPA 901.1M	7/16/04 01:12	CSG
Total Activity	19.497	NA	NA	pCi/g	EPA 901.1M	7/16/04 01:12	CSG
Percent Moisture	23.140	N/A	N/A	%	Moisture	7/07/04 08:20	KB

Notes: Project Name: Curtis Bay Army Depot

Quality Assurance Review

Notes: American Radiation Services, Inc. assumes no liability for the use or interpretation of any analytical results provided other than the cost of the analysis itself. Reproduction of this report in less than full requires the written consent of the client.

1008

K612-1



2609 North River Road Port Allen, Louisiana 70767

1 (800) 401-4277 FAX (225) 381-2996

ARS Tracking Number: ARS041134

Request or PO Number: 406153

Client ID: 406153-004-004

ARS Sample ID: ARS041134-3854

Date Sampled: 6/23/04

Date Received: 6/30/04

Time Sampled: NA

Time Received: 1100

Type of Sample: Solid

Date of Report: 7/19/04

Analysis Description	Analysis Results	Analysis Error +/- 2 Sigma	MDC	Analysis Units	Analysis Test Method	Analysis Date / Time	Analysis Technician
RA-226	1.181	0.6258	0.223	pCi/g	EPA 901.1M	7/15/04 01:36	DM
Ra-228	1.170	0.1114	0.029	pCi/g	EPA 901.1M	7/15/04 01:36	DM
PB-210	2.560	0.5238	0.264	pCi/g	EPA 901.1M	7/15/04 01:36	DM
U-238	1.676	0.8454	0.384	pCi/g	EPA 901.1M	7/15/04 01:36	DM
K-40	8.683	0.7106	0.100	pCi/g	EPA 901.1M	7/15/04 01:36	DM
BI-214	1.094	0.0948	0.021	pCi/g	EPA 901.1M	7/15/04 01:36	DM
PB-212	1.451	0.0863	0.017	pCi/g	EPA 901.1M	7/15/04 01:36	DM
CS-137	0.082	0.0249	0.012	pCi/g	EPA 901.1M	7/15/04 01:36	DM
CO-60	-0.008	-0.0978	0.013	pCi/g	EPA 901.1M	7/15/04 01:36	DM
AM-241	0.018	0.0614	0.036	pCi/g	EPA 901.1M	7/15/04 01:36	DM
Total Activity	33.428	NA	NA	pCi/g	EPA 901.1M	7/15/04 01:36	DM
Percent Moisture	20.600	N/A	N/A	%	Moisture	7/07/04 08:20	KB

Notes: Project Name: Curtis Bay Army Depot

Quality Assurance Review

Notes: American Radiation Services, Inc. assumes no liability for the use or interpretation of any analytical results provided other than the cost of the analysis itself. Reproduction of this report in less than full requires the written consent of the client.

K612-00



2609 North River Road Port Allen, Louisiana 70767
1 (800) 401-4277 FAX (225) 381-2996

ARS Tracking Number: ARS041134
Client ID: 406153-005-005
Date Sampled: 6/23/04
Time Sampled: NA
Type of Sample: Solid

Request or PO Number: 406153
ARS Sample ID: ARS041134-3855
Date Received: 6/30/04
Time Received: 1100
Date of Report: 7/19/04

Analysis Description	Analysis Results	Analysis Error +/- 2 Sigma	MDC	Analysis Units	Analysis Test Method	Analysis Date / Time	Analysis Technician
RA-226	0.937	0.9215	0.350	pCi/g	EPA 901.1M	7/16/04 07:51	CSG
Ra-228	1.910	0.2177	0.036	pCi/g	EPA 901.1M	7/16/04 07:51	CSG
PB-210	2.890	0.7913	0.365	pCi/g	EPA 901.1M	7/16/04 07:51	CSG
U-238	1.498	1.5572	0.461	pCi/g	EPA 901.1M	7/16/04 07:51	CSG
K-40	4.264	0.6380	0.206	pCi/g	EPA 901.1M	7/16/04 07:51	CSG
BI-214	1.023	0.1163	0.031	pCi/g	EPA 901.1M	7/16/04 07:51	CSG
PB-212	2.232	0.1327	0.022	pCi/g	EPA 901.1M	7/16/04 07:51	CSG
CS-137	0.230	0.0507	0.014	pCi/g	EPA 901.1M	7/16/04 07:51	CSG
CO-60	-0.015	-0.1098	0.018	pCi/g	EPA 901.1M	7/16/04 07:51	CSG
AM-241	0.002	0.0825	0.048	pCi/g	EPA 901.1M	7/16/04 07:51	CSG
al Activity	30.885	NA	NA	pCi/g	EPA 901.1M	7/16/04 07:51	CSG
ercent Moisture	21.720	N/A	N/A	%	Moisture	7/07/04 08:20	KB

Notes: Project Name: Curtis Bay Army Depot

Quality Assurance Review

Notes: American Radiation Services, Inc. assumes no liability for the use or interpretation of any analytical results provided other than the cost of the analysis itself. Reproduction of this report in less than full requires the written consent of the client.

4612-00



2609 North River Road Port Allen, Louisiana 70767
1 (800) 401-4277 FAX (225) 381-2996

ARS Tracking Number: ARS041134
Client ID: 406153-006-006
Date Sampled: 6/23/04
Time Sampled: NA
Type of Sample: Solid

Request or PO Number: 406153
ARS Sample ID: ARS041134-3856
Date Received: 6/30/04
Time Received: 1100
Date of Report: 7/19/04

Analysis Description	Analysis Results	Analysis Error +/- 2 Sigma	MDC	Analysis Units	Analysis Test Method	Analysis Date / Time	Analysis Technician
RA-226	2.657	0.7343	0.241	pCi/g	EPA 901.1M	7/15/04 20:16	CSG
Ra-228	1.304	0.1155	0.031	pCi/g	EPA 901.1M	7/15/04 20:16	CSG
PB-210	2.587	0.5408	0.277	pCi/g	EPA 901.1M	7/15/04 20:16	CSG
U-238	2.388	0.9972	0.356	pCi/g	EPA 901.1M	7/15/04 20:16	CSG
K-40	6.110	0.5910	0.099	pCi/g	EPA 901.1M	7/15/04 20:16	CSG
BI-214	1.690	0.1193	0.023	pCi/g	EPA 901.1M	7/15/04 20:16	CSG
PB-212	1.500	0.0868	0.017	pCi/g	EPA 901.1M	7/15/04 20:16	CSG
CS-137	0.120	0.0308	0.010	pCi/g	EPA 901.1M	7/15/04 20:16	CSG
CO-60	-0.009	-0.0714	0.014	pCi/g	EPA 901.1M	7/15/04 20:16	CSG
AM-241	-0.016	-0.1281	0.039	pCi/g	EPA 901.1M	7/15/04 20:16	CSG
total Activity	45.289	NA	NA	pCi/g	EPA 901.1M	7/15/04 20:16	CSG
percent Moisture	16.960	N/A	N/A	%	Moisture	7/07/04 08:20	KB

Notes: Project Name: Curtis Bay Army Depot

Quality Assurance Review

Notes: American Radiation Services, Inc. assumes no liability for the use or interpretation of any analytical results provided other than the cost of the analysis itself. Reproduction of this report in less than full requires the written consent of the client.

K612-07



2609 North River Road Port Allen, Louisiana 70767

1 (800) 401-4277 FAX (225) 381-2996

ARS Tracking Number: ARS041134

Request or PO Number: 406153

Client ID: 406153-007-007

ARS Sample ID: ARS041134-3857

Date Sampled: 6/23/04

Date Received: 6/30/04

Time Sampled: NA

Time Received: 1100

Type of Sample: Solid

Date of Report: 7/19/04

Analysis Description	Analysis Results	Analysis Error +/- 2 Sigma	MDC	Analysis Units	Analysis Test Method	Analysis Date / Time	Analysis Technician
RA-226	3.667	0.6595	0.332	pCi/g	EPA 901.1M	7/16/04 11:58	MS
Ra-228	2.082	0.1862	0.030	pCi/g	EPA 901.1M	7/16/04 11:58	MS
PB-210	1.863	0.6153	0.297	pCi/g	EPA 901.1M	7/16/04 11:58	MS
U-238	1.691	1.8201	0.385	pCi/g	EPA 901.1M	7/16/04 11:58	MS
K-40	5.012	0.5563	0.107	pCi/g	EPA 901.1M	7/16/04 11:58	MS
BI-214	1.574	0.1253	0.028	pCi/g	EPA 901.1M	7/16/04 11:58	MS
PB-212	2.606	0.1347	0.022	pCi/g	EPA 901.1M	7/16/04 11:58	MS
CS-137	0.205	0.0371	0.011	pCi/g	EPA 901.1M	7/16/04 11:58	MS
CO-60	-0.005	-6.1337	0.013	pCi/g	EPA 901.1M	7/16/04 11:58	MS
AM-241	-0.014	-0.1764	0.043	pCi/g	EPA 901.1M	7/16/04 11:58	MS
Total Activity	45.573	NA	NA	pCi/g	EPA 901.1M	7/16/04 11:58	MS
Percent Moisture	12.410	N/A	N/A	%	Moisture	7/07/04 08:20	KB

Notes: Project Name: Curtis Bay Army Depot

Quality Assurance Review

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K612-00



2609 North River Road Port Allen, Louisiana 70767

1 (800) 401-4277 FAX (225) 381-2996

ARS Tracking Number: ARS041134

Request or PO Number: 406153

Client ID: 406153-008-008

ARS Sample ID: ARS041134-3858

Date Sampled: 6/23/04

Date Received: 6/30/04

Time Sampled: NA

Time Received: 1100

Type of Sample: Solid

Date of Report: 7/19/04

Analysis Description	Analysis Results	Analysis Error +/- 2 Sigma	MDC	Analysis Units	Analysis Test Method	Analysis Date / Time	Analysis Technician
RA-226	0.196	0.5464	0.202	pCi/g	EPA 901.1M	7/16/04 09:25	MS
Ra-228	0.898	0.1156	0.020	pCi/g	EPA 901.1M	7/16/04 09:25	MS
PB-210	2.302	0.7913	0.322	pCi/g	EPA 901.1M	7/16/04 09:25	MS
U-238	1.236	0.4915	0.359	pCi/g	EPA 901.1M	7/16/04 09:25	MS
K-40	3.394	0.4793	0.144	pCi/g	EPA 901.1M	7/16/04 09:25	MS
BI-214	0.519	0.0781	0.025	pCi/g	EPA 901.1M	7/16/04 09:25	MS
PB-212	1.014	0.0725	0.017	pCi/g	EPA 901.1M	7/16/04 09:25	MS
CS-137	0.153	0.0346	0.009	pCi/g	EPA 901.1M	7/16/04 09:25	MS
CO-60	-0.002	-0.0392	0.013	pCi/g	EPA 901.1M	7/16/04 09:25	MS
AM-241	-0.003	-0.1692	0.034	pCi/g	EPA 901.1M	7/16/04 09:25	MS
tal Activity	13.556	NA	NA	pCi/g	EPA 901.1M	7/16/04 09:25	MS
Percent Moisture	12.570	N/A	N/A	%	Moisture	7/07/04 08:20	KB

Notes: Project Name: Curtis Bay Army Depot

Quality Assurance Review

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K612-07



2609 North River Road Port Allen, Louisiana 70767

1 (800) 401-4277

FAX (225) 381-2996

ARS Tracking Number: ARS041134

Request or PO Number: 406153

Client ID: 406153-009-009

ARS Sample ID: ARS041134-3859

Date Sampled: 6/23/04

Date Received: 6/30/04

Time Sampled: NA

Time Received: 1100

Type of Sample: Solid

Date of Report: 7/19/04

Analysis Description	Analysis Results	Analysis Error +/- 2 Sigma	MDC	Analysis Units	Analysis Test Method	Analysis Date / Time	Analysis Technician
RA-226	2.371	0.4646	0.228	pCi/g	EPA 901.1M	7/15/04 22:47	CSG
Ra-228	1.092	0.1186	0.027	pCi/g	EPA 901.1M	7/15/04 22:47	CSG
PB-210	1.989	0.5952	0.264	pCi/g	EPA 901.1M	7/15/04 22:47	CSG
U-238	1.501	0.9314	0.295	pCi/g	EPA 901.1M	7/15/04 22:47	CSG
K-40	7.447	0.6344	0.090	pCi/g	EPA 901.1M	7/15/04 22:47	CSG
BI-214	0.915	0.0918	0.024	pCi/g	EPA 901.1M	7/15/04 22:47	CSG
PB-212	1.228	0.0760	0.016	pCi/g	EPA 901.1M	7/15/04 22:47	CSG
CS-137	0.049	0.0226	0.012	pCi/g	EPA 901.1M	7/15/04 22:47	CSG
CO-60	-0.005	-1.2417	0.012	pCi/g	EPA 901.1M	7/15/04 22:47	CSG
AM-241	0.027	0.0562	0.032	pCi/g	EPA 901.1M	7/15/04 22:47	CSG
Total Activity	30.004	NA	NA	pCi/g	EPA 901.1M	7/15/04 22:47	CSG
Percent Moisture	14.300	N/A	N/A	%	Moisture	7/07/04 08:20	KB

Notes: Project Name: Curtis Bay Army Depot

Quality Assurance Review

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K612-10



2609 North River Road Port Allen, Louisiana 70767
1 (800) 401-4277 FAX (225) 381-2996

ARS Tracking Number: ARS041134
Client ID: 406153-010-010
Date Sampled: 6/23/04
Time Sampled: NA
Type of Sample: Solid

Request or PO Number: 406153
ARS Sample ID: ARS041134-3860
Date Received: 6/30/04
Time Received: 1100
Date of Report: 7/19/04

Analysis Description	Analysis Results	Analysis Error +/- 2 Sigma	MDC	Analysis Units	Analysis Test Method	Analysis Date / Time	Analysis Technician
RA-226	2.168	0.5301	0.266	pCi/g	EPA 901.1M	7/15/04 12:25	MS
Ra-228	1.251	0.1148	0.033	pCi/g	EPA 901.1M	7/15/04 12:25	MS
PB-210	1.988	0.7377	0.320	pCi/g	EPA 901.1M	7/15/04 12:25	MS
U-238	0.883	1.9982	0.350	pCi/g	EPA 901.1M	7/15/04 12:25	MS
K-40	6.011	0.5815	0.144	pCi/g	EPA 901.1M	7/15/04 12:25	MS
BI-214	0.855	0.0898	0.027	pCi/g	EPA 901.1M	7/15/04 12:25	MS
PB-212	1.534	0.0739	0.019	pCi/g	EPA 901.1M	7/15/04 12:25	MS
CS-137	0.025	0.0265	0.015	pCi/g	EPA 901.1M	7/15/04 12:25	MS
CO-60	-0.001	-0.0287	0.014	pCi/g	EPA 901.1M	7/15/04 12:25	MS
AM-241	-0.052	-0.0896	0.040	pCi/g	EPA 901.1M	7/15/04 12:25	MS
total Activity	20.530	NA	NA	pCi/g	EPA 901.1M	7/15/04 12:25	MS
percent Moisture	15.210	N/A	N/A	%	Moisture	7/07/04 08:20	KB

Notes: Project Name: Curtis Bay Army Depot

Quality Assurance Review

Notes: American Radiation Services, Inc. assumes no liability for the use or interpretation of any analytical results provided other than the cost of the analysis itself. Reproduction of this report in less than full requires the written consent of the client.

K612-11



2609 North River Road Port Allen, Louisiana 70767
1 (800) 401-4277 FAX (225) 381-2996

ARS Tracking Number: ARS041134
Client ID: 406153-011-011
Date Sampled: 6/23/04
Time Sampled: NA
Type of Sample: Solid

Request or PO Number: 406153
ARS Sample ID: ARS041134-3861
Date Received: 6/30/04
Time Received: 1100
Date of Report: 7/19/04

Analysis Description	Analysis Results	Analysis Error +/- 2 Sigma	MDC	Analysis Units	Analysis Test Method	Analysis Date / Time	Analysis Technician
RA-226	1.098	0.4560	0.244	pCi/g	EPA 901.1M	7/15/04 11:04	MS
Ra-228	1.258	0.1344	0.028	pCi/g	EPA 901.1M	7/15/04 11:04	MS
PB-210	2.772	0.7890	0.320	pCi/g	EPA 901.1M	7/15/04 11:04	MS
U-238	0.000	0.0000	0.357	pCi/g	EPA 901.1M	7/15/04 11:04	MS
K-40	5.080	0.5652	0.105	pCi/g	EPA 901.1M	7/15/04 11:04	MS
BI-214	0.837	0.0869	0.023	pCi/g	EPA 901.1M	7/15/04 11:04	MS
PB-212	1.535	0.0916	0.017	pCi/g	EPA 901.1M	7/15/04 11:04	MS
CS-137	0.528	0.0464	0.009	pCi/g	EPA 901.1M	7/15/04 11:04	MS
CO-60	-0.006	-1.5231	0.013	pCi/g	EPA 901.1M	7/15/04 11:04	MS
AM-241	0.014	0.0637	0.037	pCi/g	EPA 901.1M	7/15/04 11:04	MS
Total Activity	28.058	NA	NA	pCi/g	EPA 901.1M	7/15/04 11:04	MS
Percent Moisture	12.950	N/A	N/A	%	Moisture	7/07/04 08:20	KB

Notes: Project Name: Curtis Bay Army Depot

Quality Assurance Review

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K612-12



2609 North River Road Port Allen, Louisiana 70767
1 (800) 401-4277 FAX (225) 381-2996

ARS Tracking Number: ARS041134

Request or PO Number: 406153

Client ID: 406153-012-012

ARS Sample ID: ARS041134-3862

Date Sampled: 6/23/04

Date Received: 6/30/04

Time Sampled: NA

Time Received: 1100

Type of Sample: Solid

Date of Report: 7/19/04

Analysis Description	Analysis Results	Analysis Error +/- 2 Sigma	MDC	Analysis Units	Analysis Test Method	Analysis Date / Time	Analysis Technician
RA-226	1.942	0.4312	0.183	pCi/g	EPA 901.1M	7/16/04 06:49	CSG
Ra-228	0.766	0.0814	0.017	pCi/g	EPA 901.1M	7/16/04 06:49	CSG
PB-210	1.097	0.4846	0.239	pCi/g	EPA 901.1M	7/16/04 06:49	CSG
U-238	0.669	0.9850	0.336	pCi/g	EPA 901.1M	7/16/04 06:49	CSG
K-40	2.666	0.4140	0.125	pCi/g	EPA 901.1M	7/16/04 06:49	CSG
BI-214	0.495	0.0711	0.024	pCi/g	EPA 901.1M	7/16/04 06:49	CSG
PB-212	0.859	0.0687	0.017	pCi/g	EPA 901.1M	7/16/04 06:49	CSG
CS-137	0.271	0.0400	0.010	pCi/g	EPA 901.1M	7/16/04 06:49	CSG
CO-60	-0.006	-0.4758	0.011	pCi/g	EPA 901.1M	7/16/04 06:49	CSG
AM-241	-0.018	-0.1117	0.030	pCi/g	EPA 901.1M	7/16/04 06:49	CSG
total Activity	14.287	NA	NA	pCi/g	EPA 901.1M	7/16/04 06:49	CSG
percent Moisture	8.846	N/A	N/A	%	Moisture	7/07/04 08:20	KB

Notes: Project Name: Curtis Bay Army Depot

Quality Assurance Review

Notes: American Radiation Services, Inc. assumes no liability for the use or interpretation of any analytical results provided other than the cost of the analysis itself. Reproduction of this report in less than full requires the written consent of the client.

K612-13



2609 North River Road Port Allen, Louisiana 70767
1 (800) 401-4277 FAX (225) 381-2996

ARS Tracking Number: ARS041134

Request or PO Number: 406153

Client ID: 406153-013-013

ARS Sample ID: ARS041134-3863

Date Sampled: 6/23/04

Date Received: 6/30/04

Time Sampled: NA

Time Received: 1100

Type of Sample: Solid

Date of Report: 7/19/04

Analysis Description	Analysis Results	Analysis Error +/- 2 Sigma	MDC	Analysis Units	Analysis Test Method	Analysis Date / Time	Analysis Technician
RA-226	1.137	0.3807	0.201	pCi/g	EPA 901.1M	7/14/04 17:00	MS
Ra-228	1.022	0.1069	0.026	pCi/g	EPA 901.1M	7/14/04 17:00	MS
PB-210	1.258	0.4742	0.226	pCi/g	EPA 901.1M	7/14/04 17:00	MS
U-238	1.486	0.6324	0.282	pCi/g	EPA 901.1M	7/14/04 17:00	MS
K-40	7.766	0.6191	0.080	pCi/g	EPA 901.1M	7/14/04 17:00	MS
BI-214	0.744	0.0785	0.021	pCi/g	EPA 901.1M	7/14/04 17:00	MS
PB-212	1.190	0.0728	0.016	pCi/g	EPA 901.1M	7/14/04 17:00	MS
CS-137	0.020	0.0196	0.011	pCi/g	EPA 901.1M	7/14/04 17:00	MS
CO-60	0.001	0.0188	0.011	pCi/g	EPA 901.1M	7/14/04 17:00	MS
AM-241	0.007	0.0527	0.031	pCi/g	EPA 901.1M	7/14/04 17:00	MS
Total Activity	26.709	NA	NA	pCi/g	EPA 901.1M	7/14/04 17:00	MS
Percent Moisture	12.540	N/A	N/A	%	Moisture	7/07/04 08:20	KB

Notes: Project Name: Curtis Bay Army Depot

Quality Assurance Review

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K612-14



2609 North River Road Port Allen, Louisiana 70767
1 (800) 401-4277 FAX (225) 381-2996

ARS Tracking Number: ARS041134
Client ID: 406153-014-014
Date Sampled: 6/23/04
Time Sampled: NA
Type of Sample: Solid

Request or PO Number: 406153
ARS Sample ID: ARS041134-3864
Date Received: 6/30/04
Time Received: 1100
Date of Report: 7/19/04

Analysis Description	Analysis Results	Analysis Error +/- 2 Sigma	MDC	Analysis Units	Analysis Test Method	Analysis Date / Time	Analysis Technician
RA-226	1.253	0.4778	0.253	pCi/g	EPA 901.1M	7/15/04 21:35	CSG
Ra-228	1.271	0.1243	0.023	pCi/g	EPA 901.1M	7/15/04 21:35	CSG
PB-210	1.501	0.6516	0.294	pCi/g	EPA 901.1M	7/15/04 21:35	CSG
U-238	0.000	0.0000	0.359	pCi/g	EPA 901.1M	7/15/04 21:35	CSG
K-40	3.133	0.4631	0.150	pCi/g	EPA 901.1M	7/15/04 21:35	CSG
BI-214	0.712	0.0826	0.024	pCi/g	EPA 901.1M	7/15/04 21:35	CSG
PB-212	1.622	0.0968	0.018	pCi/g	EPA 901.1M	7/15/04 21:35	CSG
CS-137	0.224	0.0338	0.012	pCi/g	EPA 901.1M	7/15/04 21:35	CSG
CO-60	-0.006	-0.0142	0.009	pCi/g	EPA 901.1M	7/15/04 21:35	CSG
AM-241	-0.006	-0.0620	0.019	pCi/g	EPA 901.1M	7/15/04 21:35	CSG
total Activity	15.889	NA	NA	pCi/g	EPA 901.1M	7/15/04 21:35	CSG
percent Moisture	10.040	N/A	N/A	%	Moisture	7/07/04 08:20	KB

Notes: Project Name: Curtis Bay Army Depot

Quality Assurance Review

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2612-15



2609 North River Road Port Allen, Louisiana 70767
1 (800) 401-4277 FAX (225) 381-2996

ARS Tracking Number: ARS041134

Request or PO Number: 406153

Client ID: 406153-015-015

ARS Sample ID: ARS041134-3865

Date Sampled: 6/23/04

Date Received: 6/30/04

Time Sampled: NA

Time Received: 1100

Type of Sample: Solid

Date of Report: 7/19/04

Analysis Description	Analysis Results	Analysis Error +/- 2 Sigma	MDC	Analysis Units	Analysis Test Method	Analysis Date / Time	Analysis Technician
RA-226	0.616	0.6456	0.237	pCi/g	EPA 901.1M	7/15/04 13:31	MS
Ra-228	1.595	0.1703	0.033	pCi/g	EPA 901.1M	7/15/04 13:31	MS
PB-210	1.673	0.7841	0.328	pCi/g	EPA 901.1M	7/15/04 13:31	MS
U-238	1.231	1.1376	0.368	pCi/g	EPA 901.1M	7/15/04 13:31	MS
K-40	3.435	0.4813	0.112	pCi/g	EPA 901.1M	7/15/04 13:31	MS
Bi-214	1.126	0.0991	0.024	pCi/g	EPA 901.1M	7/15/04 13:31	MS
PB-212	1.942	0.1059	0.019	pCi/g	EPA 901.1M	7/15/04 13:31	MS
CS-137	0.161	0.0297	0.013	pCi/g	EPA 901.1M	7/15/04 13:31	MS
CO-60	-0.002	-0.0358	0.011	pCi/g	EPA 901.1M	7/15/04 13:31	MS
AM-241	0.011	0.0643	0.037	pCi/g	EPA 901.1M	7/15/04 13:31	MS
Total Activity	41.428	NA	NA	pCi/g	EPA 901.1M	7/15/04 13:31	MS
Percent Moisture	8.191	N/A	N/A	%	Moisture	7/07/04 08:20	KB

Notes: Project Name: Curtis Bay Army Depot


Quality Assurance Review

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2014 10



2609 North River Road Port Allen, Louisiana 70767
1 (800) 401-4277 FAX (225) 381-2996

ARS Tracking Number: ARS041134
Client ID: 406153-016-016
Date Sampled: 6/23/04
Time Sampled: NA
Type of Sample: Solid

Request or PO Number: 406153
ARS Sample ID: ARS041134-3866
Date Received: 6/30/04
Time Received: 1100
Date of Report: 7/19/04

Analysis Description	Analysis Results	Analysis Error +/- 2 Sigma	MDC	Analysis Units	Analysis Test Method	Analysis Date / Time	Analysis Technician
RA-226	0.080	0.7170	0.265	pCi/g	EPA 901.1M	7/14/04 14:08	MS
Ra-228	1.115	0.1455	0.030	pCi/g	EPA 901.1M	7/14/04 14:08	MS
PB-210	2.089	0.6474	0.304	pCi/g	EPA 901.1M	7/14/04 14:08	MS
U-238	0.000	0.0000	0.362	pCi/g	EPA 901.1M	7/14/04 14:08	MS
K-40	3.448	0.4767	0.148	pCi/g	EPA 901.1M	7/14/04 14:08	MS
BI-214	0.616	0.0853	0.028	pCi/g	EPA 901.1M	7/14/04 14:08	MS
PB-212	1.334	0.0841	0.022	pCi/g	EPA 901.1M	7/14/04 14:08	MS
CS-137	0.492	0.0514	0.012	pCi/g	EPA 901.1M	7/14/04 14:08	MS
CO-60	0.001	0.0203	0.012	pCi/g	EPA 901.1M	7/14/04 14:08	MS
AM-241	-0.002	-0.1286	0.038	pCi/g	EPA 901.1M	7/14/04 14:08	MS
Total Activity	13.780	NA	NA	pCi/g	EPA 901.1M	7/14/04 14:08	MS
Percent Moisture	12.230	N/A	N/A	%	Moisture	7/07/04 08:20	KB

Notes: Project Name: Curtis Bay Army Depot

Quality Assurance Review

Notes: American Radiation Services, Inc. assumes no liability for the use or interpretation of any analytical results provided other than the cost of the analysis itself. Reproduction of this report in less than full requires the written consent of the client.

K612-11



2609 North River Road Port Allen, Louisiana 70767
1 (800) 401-4277 FAX (225) 381-2996

ARS Tracking Number: ARS041134
Client ID: 406153-017-017
Date Sampled: 6/23/04
Time Sampled: NA
Type of Sample: Solid

Request or PO Number: 406153
ARS Sample ID: ARS041134-3867
Date Received: 6/30/04
Time Received: 1100
Date of Report: 7/19/04

Analysis Description	Analysis Results	Analysis Error +/- 2 Sigma	MDC	Analysis Units	Analysis Test Method	Analysis Date / Time	Analysis Technician
RA-226	0.627	0.5613	0.204	pCi/g	EPA 901.1M	7/14/04 05:43	CSG
Ra-228	1.019	0.1349	0.025	pCi/g	EPA 901.1M	7/14/04 05:43	CSG
PB-210	1.331	0.4592	0.225	pCi/g	EPA 901.1M	7/14/04 05:43	CSG
U-238	0.877	1.0305	0.293	pCi/g	EPA 901.1M	7/14/04 05:43	CSG
K-40	1.713	0.3456	0.130	pCi/g	EPA 901.1M	7/14/04 05:43	CSG
BI-214	0.607	0.0817	0.024	pCi/g	EPA 901.1M	7/14/04 05:43	CSG
PB-212	1.111	0.0735	0.015	pCi/g	EPA 901.1M	7/14/04 05:43	CSG
CS-137	0.170	0.0309	0.008	pCi/g	EPA 901.1M	7/14/04 05:43	CSG
CO-60	-0.009	-0.0830	0.011	pCi/g	EPA 901.1M	7/14/04 05:43	CSG
AM-241	0.004	0.0527	0.031	pCi/g	EPA 901.1M	7/14/04 05:43	CSG
al Activity	18.963	NA	NA	pCi/g	EPA 901.1M	7/14/04 05:43	CSG
Percent Moisture	10.980	N/A	N/A	%	Moisture	7/07/04 08:20	KB

Notes: Project Name: Curtis Bay Army Depot

Quality Assurance Review

Notes: American Radiation Services, Inc. assumes no liability for the use or interpretation of any analytical results provided other than the cost of the analysis itself. Reproduction of this report in less than full requires the written consent of the client.



2609 North River Road Port Allen, Louisiana 70767
1 (800) 401-4277 FAX (225) 381-2996

ARS Tracking Number: ARS041134

Request or PO Number: 406153

Client ID: 406153-018-018

ARS Sample ID: ARS041134-3868

Date Sampled: 6/23/04

Date Received: 6/30/04

Time Sampled: NA

Time Received: 1100

Type of Sample: Solid

Date of Report: 7/19/04

Analysis Description	Analysis Results	Analysis Error ± 2 Sigma	MDC	Analysis Units	Analysis Test Method	Analysis Date / Time	Analysis Technician
RA-226	0.840	0.7422	0.277	pCi/g	EPA 901.1M	7/15/04 14:41	MS
Ra-228	1.432	0.1809	0.039	pCi/g	EPA 901.1M	7/15/04 14:41	MS
PB-210	2.088	0.5985	0.319	pCi/g	EPA 901.1M	7/15/04 14:41	MS
U-238	1.471	1.5284	0.442	pCi/g	EPA 901.1M	7/15/04 14:41	MS
K-40	9.789	0.8647	0.133	pCi/g	EPA 901.1M	7/15/04 14:41	MS
BI-214	1.047	0.1156	0.032	pCi/g	EPA 901.1M	7/15/04 14:41	MS
PB-212	1.703	0.1037	0.021	pCi/g	EPA 901.1M	7/15/04 14:41	MS
CS-137	0.254	0.0431	0.012	pCi/g	EPA 901.1M	7/15/04 14:41	MS
CO-60	-0.020	-0.0633	0.019	pCi/g	EPA 901.1M	7/15/04 14:41	MS
AM-241	0.004	0.0728	0.042	pCi/g	EPA 901.1M	7/15/04 14:41	MS
Total Activity	37.433	NA	NA	pCi/g	EPA 901.1M	7/15/04 14:41	MS
Percent Moisture	15.520	N/A	N/A	%	Moisture	7/07/04 08:20	KB

Notes: Project Name: Curtis Bay Army Depot

Quality Assurance Review

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2609 North River Road Port Allen, Louisiana 70767

1 (800) 401-4277 FAX (225) 381-2996

ARS Tracking Number: ARS040986

Request or PO Number: 406029

Client ID: 406029-005-005

ARS Sample ID: ARS040986-3260

Date Sampled: 5/21/04

Date Received: 6/9/04

Time Sampled: NA

Time Received: 1100

Type of Sample: Solid

Date of Report: 6/17/04

Analysis Description	Analysis Results	Analysis Error +/- 2 Sigma	MDC	Analysis Units	Analysis Test Method	Analysis Date / Time	Analysis Technician
RA-226	0.838	0.4153	0.148	pCi/g	EPA 901.1M	6/15/04 22:16	MS
Ra-228	0.889	0.0880	0.017	pCi/g	EPA 901.1M	6/15/04 22:16	MS
PB-210	1.713	0.3392	0.178	pCi/g	EPA 901.1M	6/15/04 22:16	MS
U-238	0.000	0.0000	0.194	pCi/g	EPA 901.1M	6/15/04 22:16	MS
K-40	5.138	0.4302	0.079	pCi/g	EPA 901.1M	6/15/04 22:16	MS
BI-214	0.685	0.0562	0.015	pCi/g	EPA 901.1M	6/15/04 22:16	MS
PB-212	0.988	0.0556	0.012	pCi/g	EPA 901.1M	6/15/04 22:16	MS
CS-137	0.113	0.0221	0.007	pCi/g	EPA 901.1M	6/15/04 22:16	MS
CO-60	-0.013	-0.0384	0.009	pCi/g	EPA 901.1M	6/15/04 22:16	MS
AM-241	-0.006	-0.0224	0.013	pCi/g	EPA 901.1M	6/15/04 22:16	MS
Total Activity	18.839	NA	NA	pCi/g	EPA 901.1M	6/15/04 22:16	MS

Notes: Project Number: Curtis Bay Army Depot

Quality Assurance Review

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406128



2609 North River Road Port Allen, Louisiana 70767
1 (800) 401-4277 FAX (225) 381-2996

ARS Tracking Number: ARS041133

Request or PO Number: 406128

Client ID: 406128-027-027

ARS Sample ID: ARS041133-3822

Date Sampled: 6/16/04

Date Received: 6/30/04

Time Sampled: NA

Time Received: 1100

Type of Sample: Solid

Date of Report: 7/14/04

Analysis Description	Analysis Results	Analysis Error +/- 2 Sigma	MDC	Analysis Units	Analysis Test Method	Analysis Date / Time	Analysis Technician
RA-226	1.512	0.4616	0.164	pCi/g	EPA 901.1M	7/09/04 15:12	MS
Ra-228	1.178	0.0792	0.019	pCi/g	EPA 901.1M	7/09/04 15:12	MS
PB-210	1.266	0.3030	0.164	pCi/g	EPA 901.1M	7/09/04 15:12	MS
U-238	1.381	1.0495	0.246	pCi/g	EPA 901.1M	7/09/04 15:12	MS
K-40	1.243	0.2086	0.085	pCi/g	EPA 901.1M	7/09/04 15:12	MS
BI-214	0.946	0.0725	0.018	pCi/g	EPA 901.1M	7/09/04 15:12	MS
PB-212	1.481	0.0730	0.011	pCi/g	EPA 901.1M	7/09/04 15:12	MS
CS-137	-0.002	-0.0027	0.007	pCi/g	EPA 901.1M	7/09/04 15:12	MS
CO-60	-0.006	-0.1938	0.007	pCi/g	EPA 901.1M	7/09/04 15:12	MS
AM-241	-0.001	-0.0692	0.024	pCi/g	EPA 901.1M	7/09/04 15:12	MS
Total Activity	24.273	NA	NA	pCi/g	EPA 901.1M	7/09/04 15:12	MS
Percent Moisture	8.627	N/A	N/A	%	Moisture	7/02/04 11:20	KB

Notes: Project Name: Curtis Bay Army Depot

Quality Assurance Review

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KL 618-06



2609 North River Road Port Allen, Louisiana 70767

1 (800) 401-4277 FAX (225) 381-2996

ARS Tracking Number: ARS041133

Request or PO Number: 406128

Client ID: 406128-028-028

ARS Sample ID: ARS041133-3823

Date Sampled: 6/16/04

Date Received: 6/30/04

Time Sampled: NA

Time Received: 1100

Type of Sample: Solid

Date of Report: 7/14/04

Analysis Description	Analysis Results	Analysis Error +/- 2 Sigma	MDC	Analysis Units	Analysis Test Method	Analysis Date / Time	Analysis Technician
RA-226	0.638	0.3642	0.135	pCi/g	EPA 901.1M	7/07/04 13:54	MS
Ra-228	0.910	0.0923	0.018	pCi/g	EPA 901.1M	7/07/04 13:54	MS
PB-210	1.030	0.3373	0.160	pCi/g	EPA 901.1M	7/07/04 13:54	MS
U-238	0.000	0.0000	0.202	pCi/g	EPA 901.1M	7/07/04 13:54	MS
K-40	2.824	0.3122	0.071	pCi/g	EPA 901.1M	7/07/04 13:54	MS
BI-214	0.536	0.0566	0.016	pCi/g	EPA 901.1M	7/07/04 13:54	MS
PB-212	1.111	0.0588	0.011	pCi/g	EPA 901.1M	7/07/04 13:54	MS
CS-137	0.019	0.0150	0.008	pCi/g	EPA 901.1M	7/07/04 13:54	MS
CO-60	-0.002	-0.0294	0.007	pCi/g	EPA 901.1M	7/07/04 13:54	MS
AM-241	0.013	0.0355	0.021	pCi/g	EPA 901.1M	7/07/04 13:54	MS
Total Activity	16.478	NA	NA	pCi/g	EPA 901.1M	7/07/04 13:54	MS
Percent Moisture	8.302	N/A	N/A	%	Moisture	7/02/04 11:20	KB

Notes: Project Name: Curtis Bay Army Depot

Quality Assurance Review

Notes: American Radiation Services, Inc. assumes no liability for the use or interpretation of any analytical results provided other than the cost of the analysis itself. Reproduction of this report in less than full requires the written consent of the client.



2609 North River Road Port Allen, Louisiana 70767
1 (800) 401-4277 FAX (225) 381-2996

ARS Tracking Number: ARS041133

Request or PO Number: 406128

Client ID: 406128-029-029

ARS Sample ID: ARS041133-3824

Date Sampled: 6/16/04

Date Received: 6/30/04

Time Sampled: NA

Time Received: 1100

Type of Sample: Solid

Date of Report: 7/14/04

Analysis Description	Analysis Results	Analysis Error +/- 2 Sigma	MDC	Analysis Units	Analysis Test Method	Analysis Date / Time	Analysis Technician
RA-226	0.443	0.4290	0.163	pCi/g	EPA 901.1M	7/08/04 09:50	MS
Ra-228	1.150	0.0784	0.020	pCi/g	EPA 901.1M	7/08/04 09:50	MS
PB-210	1.336	0.3518	0.193	pCi/g	EPA 901.1M	7/08/04 09:50	MS
U-238	1.535	0.7507	0.225	pCi/g	EPA 901.1M	7/08/04 09:50	MS
K-40	8.436	0.5633	0.081	pCi/g	EPA 901.1M	7/08/04 09:50	MS
BI-214	0.736	0.0620	0.017	pCi/g	EPA 901.1M	7/08/04 09:50	MS
PB-212	1.317	0.0690	0.013	pCi/g	EPA 901.1M	7/08/04 09:50	MS
CS-137	0.163	0.0291	0.008	pCi/g	EPA 901.1M	7/08/04 09:50	MS
CO-60	0.003	0.0164	0.010	pCi/g	EPA 901.1M	7/08/04 09:50	MS
AM-241	0.015	0.0430	0.025	pCi/g	EPA 901.1M	7/08/04 09:50	MS
Total Activity	34.939	NA	NA	pCi/g	EPA 901.1M	7/08/04 09:50	MS
Percent Moisture	12.210	N/A	N/A	%	Moisture	7/02/04 11:20	KB

Notes: Project Name: Curtis Bay Army Depot

Quality Assurance Review

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2609 North River Road Port Allen, Louisiana 70767
1 (800) 401-4277 FAX (225) 381-2996

ARS Tracking Number: ARS041133

Request or PO Number: 406128

Client ID: 406128-030-030

ARS Sample ID: ARS041133-3825

Date Sampled: 6/16/04

Date Received: 6/30/04

Time Sampled: NA


Time Received: 1100

Type of Sample: Solid

Date of Report: 7/14/04

Analysis Description	Analysis Results	Analysis Error +/- 2 Sigma	MDC	Analysis Units	Analysis Test Method	Analysis Date / Time	Analysis Technician
RA-226	2.640	0.5140	0.770	pCi/g	EPA 901.1M	7/10/04 09:38	MS
Ra-228	1.100	0.0715	0.206	pCi/g	EPA 901.1M	7/10/04 09:38	MS
PB-210	1.450	0.5520	0.876	pCi/g	EPA 901.1M	7/10/04 09:38	MS
U-238	2.030	1.0100	0.898	pCi/g	EPA 901.1M	7/10/04 09:38	MS
K-40	8.960	0.5730	0.287	pCi/g	EPA 901.1M	7/10/04 09:38	MS
BI-214	0.924	0.0537	0.054	pCi/g	EPA 901.1M	7/10/04 09:38	MS
PB-212	1.140	0.0558	0.303	pCi/g	EPA 901.1M	7/10/04 09:38	MS
AM-241	-0.078	0.0840	0.098	pCi/g	EPA 901.1M	7/10/04 09:38	MS
Total Activity	19.630	NA	NA	pCi/g	EPA 901.1M	7/10/04 09:38	MS
Percent Moisture	10.130	N/A	N/A	%	Moisture	7/02/04 11:20	KB

Notes: Project Name: Curtis Bay Army Depot


Quality Assurance Review

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K615-03



2609 North River Road Port Allen, Louisiana 70767
1 (800) 401-4277 FAX (225) 381-2996

ARS Tracking Number: ARS041133

Request or PO Number: 406128

Client ID: 406128-031-031

ARS Sample ID: ARS041133-3826

Date Sampled: 6/16/04

Date Received: 6/30/04

Time Sampled: NA

Time Received: 1100

Type of Sample: Solid

Date of Report: 7/14/04

Analysis Description	Analysis Results	Analysis Error +/- 2 Sigma	MDC	Analysis Units	Analysis Test Method	Analysis Date / Time	Analysis Technician
RA-226	3.386	0.4677	0.235	pCi/g	EPA 901.1M	7/07/04 16:17	MS
Ra-228	2.371	0.1632	0.026	pCi/g	EPA 901.1M	7/07/04 16:17	MS
PB-210	2.045	0.4004	0.211	pCi/g	EPA 901.1M	7/07/04 16:17	MS
U-238	0.000	0.0000	0.299	pCi/g	EPA 901.1M	7/07/04 16:17	MS
K-40	4.187	0.3961	0.083	pCi/g	EPA 901.1M	7/07/04 16:17	MS
BI-214	1.254	0.0855	0.021	pCi/g	EPA 901.1M	7/07/04 16:17	MS
PB-212	2.888	0.1294	0.015	pCi/g	EPA 901.1M	7/07/04 16:17	MS
CS-137	0.208	0.0320	0.010	pCi/g	EPA 901.1M	7/07/04 16:17	MS
CO-60	-0.012	-0.0485	0.011	pCi/g	EPA 901.1M	7/07/04 16:17	MS
AM-241	0.005	0.0534	0.031	pCi/g	EPA 901.1M	7/07/04 16:17	MS
Total Activity	41.723	NA	NA	pCi/g	EPA 901.1M	7/07/04 16:17	MS
Percent Moisture	8.530	N/A	N/A	%	Moisture	7/02/04 11:20	KB

Notes: Project Name: Curtis Bay Army Depot

Quality Assurance Review

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2609 North River Road Port Allen, Louisiana 70767
1 (800) 401-4277 FAX (225) 381-2996

ARS Tracking Number: ARS041133

Request or PO Number: 406128

Client ID: 406128-006-006

ARS Sample ID: ARS041133-3801

Date Sampled: 6/21/04

Date Received: 6/30/04

Time Sampled: NA

Time Received: 1100

Type of Sample: Solid

Date of Report: 7/14/04

Analysis Description	Analysis Results	Analysis Error +/- 2 Sigma	MDC	Analysis Units	Analysis Test Method	Analysis Date / Time	Analysis Technician
RA-226	0.579	0.6566	0.254	pCi/g	EPA 901.1M	7/13/04 23:23	CS
Ra-228	1.582	0.1571	0.026	pCi/g	EPA 901.1M	7/13/04 23:23	CS
PB-210	1.897	0.6982	0.295	pCi/g	EPA 901.1M	7/13/04 23:23	CS
U-238	1.317	1.6189	0.335	pCi/g	EPA 901.1M	7/13/04 23:23	CS
K-40	3.421	0.3971	0.073	pCi/g	EPA 901.1M	7/13/04 23:23	CS
BI-214	1.285	0.1093	0.025	pCi/g	EPA 901.1M	7/13/04 23:23	CS
PB-212	1.916	0.1052	0.019	pCi/g	EPA 901.1M	7/13/04 23:23	CS
AM-241	-0.005	-0.9053	0.037	pCi/g	EPA 901.1M	7/13/04 23:23	CS
Total Activity	29.584	NA	NA	pCi/g	EPA 901.1M	7/13/04 23:23	CS
Percent Moisture	11.520	N/A	N/A	%	Moisture	7/02/04 11:20	KP

Notes: Project Name: Curtis Bay Army Depot

Quality Assurance Review

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K613-07



2609 North River Road Port Allen, Louisiana 70767
1 (800) 401-4277 FAX (225) 381-2996

ARS Tracking Number: ARS041133
Client ID: 406128-032-032
Date Sampled: 6/16/04
Time Sampled: NA
Type of Sample: Solid

Request or PO Number: 406128
ARS Sample ID: ARS041133-3827
Date Received: 6/30/04
Time Received: 1100
Date of Report: 7/14/04

Analysis Description	Analysis Results	Analysis Error +/- 2 Sigma	MDC	Analysis Units	Analysis Test Method	Analysis Date / Time	Analysis Technician
RA-226	1.308	0.4755	0.170	pCi/g	EPA 901.1M	7/13/04 15:32	MS
Ra-228	1.305	0.0983	0.027	pCi/g	EPA 901.1M	7/13/04 15:32	MS
PB-210	1.874	0.5202	0.224	pCi/g	EPA 901.1M	7/13/04 15:32	MS
U-238	1.189	1.1828	0.255	pCi/g	EPA 901.1M	7/13/04 15:32	MS
K-40	9.814	0.6223	0.082	pCi/g	EPA 901.1M	7/13/04 15:32	MS
BI-214	1.075	0.0762	0.016	pCi/g	EPA 901.1M	7/13/04 15:32	MS
PB-212	1.490	0.0747	0.013	pCi/g	EPA 901.1M	7/13/04 15:32	MS
AM-241	0.005	0.0454	0.026	pCi/g	EPA 901.1M	7/13/04 15:32	MS
Total Activity	29.548	NA	NA	pCi/g	EPA 901.1M	7/13/04 15:32	MS
Percent Moisture	19.630	N/A	N/A	%	Moisture	7/02/04 11:20	KB

Notes: Project Name: Curtis Bay Army Depot

Quality Assurance Review

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2609 North River Road Port Allen, Louisiana 70767
1 (800) 401-4277 FAX (225) 381-2996

ARS Tracking Number: ARS041133

Request or PO Number: 406128

Client ID: 406128-033-033

ARS Sample ID: ARS041133-3828

Date Sampled: 6/16/04

Date Received: 6/30/04

Time Sampled: NA

Time Received: 1100

Type of Sample: Solid

Date of Report: 7/14/04

Analysis Description	Analysis Results	Analysis Error +/- 2 Sigma	MDC	Analysis Units	Analysis Test Method	Analysis Date / Time	Analysis Technician
RA-226	0.270	0.5397	0.210	pCi/g	EPA 901.1M	7/14/04 03:30	CS
Ra-228	1.258	0.1268	0.028	pCi/g	EPA 901.1M	7/14/04 03:30	CS
PB-210	1.554	0.4514	0.242	pCi/g	EPA 901.1M	7/14/04 03:30	CS
U-238	1.016	1.5143	0.311	pCi/g	EPA 901.1M	7/14/04 03:30	CS
K-40	7.997	0.6505	0.087	pCi/g	EPA 901.1M	7/14/04 03:30	CS
BI-214	0.913	0.0857	0.022	pCi/g	EPA 901.1M	7/14/04 03:30	CS
PB-212	1.370	0.0811	0.017	pCi/g	EPA 901.1M	7/14/04 03:30	CS
AM-241	0.017	0.0575	0.033	pCi/g	EPA 901.1M	7/14/04 03:30	CS
Total Activity	35.454	NA	NA	pCi/g	EPA 901.1M	7/14/04 03:30	CS
Percent Moisture	18.250	N/A	N/A	%	Moisture	7/02/04 11:20	KB

Notes: Project Name: Curtis Bay Army Depot

Quality Assurance Review

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12613-01



2609 North River Road Port Allen, Louisiana 70767
1 (800) 401-4277 FAX (225) 381-2996

ARS Tracking Number: ARS041133

Request or PO Number: 406128

Client ID: 406128-034-034

ARS Sample ID: ARS041133-3829

Date Sampled: 6/16/04

Date Received: 6/30/04

Time Sampled: NA

Time Received: 1100

Type of Sample: Solid

Date of Report: 7/14/04

Analysis Description	Analysis Results	Analysis Error +/- 2 Sigma	MDC	Analysis Units	Analysis Test Method	Analysis Date / Time	Analysis Technician
RA-226	1.391	0.7434	0.274	pCi/g	EPA 901.1M	7/13/04 22:16	CS
Ra-228	2.189	0.1777	0.030	pCi/g	EPA 901.1M	7/13/04 22:16	CS
PB-210	2.075	0.7443	0.320	pCi/g	EPA 901.1M	7/13/04 22:16	CS
U-238	1.372	1.1068	0.440	pCi/g	EPA 901.1M	7/13/04 22:16	CS
K-40	5.126	0.5317	0.092	pCi/g	EPA 901.1M	7/13/04 22:16	CS
BI-214	1.524	0.1185	0.026	pCi/g	EPA 901.1M	7/13/04 22:16	CS
PB-212	2.540	0.1286	0.020	pCi/g	EPA 901.1M	7/13/04 22:16	CS
AM-241	-0.013	-0.1733	0.042	pCi/g	EPA 901.1M	7/13/04 22:16	CS
Total Activity	39.005	NA	NA	pCi/g	EPA 901.1M	7/13/04 22:16	CS
Percent Moisture	13.360	N/A	N/A	%	Moisture	7/02/04 11:20	KB

Notes: Project Name: Curtis Bay Army Depot

Quality Assurance Review

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2609 North River Road Port Allen, Louisiana 70767

1 (800) 401-4277 FAX (225) 381-2996

ARS Tracking Number: ARS041133

Request or PO Number: 406128

Client ID: 406128-035-035

ARS Sample ID: ARS041133-3830

Date Sampled: 6/16/04

Date Received: 6/30/04

Time Sampled: NA

Time Received: 1100

Type of Sample: Solid

Date of Report: 7/14/04

Analysis Description	Analysis Results	Analysis Error +/- 2 Sigma	MDC	Analysis Units	Analysis Test Method	Analysis Date / Time	Analysis Technician
RA-226	1.306	0.4947	0.171	pCi/g	EPA 901.1M	7/06/04 10:47	MS
Ra-228	1.533	0.1145	0.022	pCi/g	EPA 901.1M	7/06/04 10:47	MS
PB-210	2.148	0.3967	0.207	pCi/g	EPA 901.1M	7/06/04 10:47	MS
U-238	1.673	0.6158	0.252	pCi/g	EPA 901.1M	7/06/04 10:47	MS
K-40	4.403	0.4234	0.088	pCi/g	EPA 901.1M	7/06/04 10:47	MS
BI-214	1.165	0.0974	0.022	pCi/g	EPA 901.1M	7/06/04 10:47	MS
PB-212	2.040	0.0970	0.014	pCi/g	EPA 901.1M	7/06/04 10:47	MS
CS-137	0.297	0.0307	0.008	pCi/g	EPA 901.1M	7/06/04 10:47	MS
CO-60	-0.006	-0.0001	0.004	pCi/g	EPA 901.1M	7/06/04 10:47	MS
AM-241	0.003	0.0487	0.028	pCi/g	EPA 901.1M	7/06/04 10:47	MS
Total Activity	37.252	NA	NA	pCi/g	EPA 901.1M	7/06/04 10:47	MS
Percent Moisture	15.510	N/A	N/A	%	Moisture	7/02/04 11:20	KB

Notes: Project Name: Curtis Bay Army Depot

Quality Assurance Review

Notes: American Radiation Services, Inc. assumes no liability for the use or interpretation of any analytical results provided other than the cost of the analysis itself. Reproduction of this report in less than full requires the written consent of the client.

K615-11



2609 North River Road Port Allen, Louisiana 70767
1 (800) 401-4277 FAX (225) 381-2996

ARS Tracking Number: ARS041133
Client ID: 406128-036-036
Date Sampled: 6/16/04
Time Sampled: NA
Type of Sample: Solid

Request or PO Number: 406128
ARS Sample ID: ARS041133-3831
Date Received: 6/30/04
Time Received: 1100
Date of Report: 7/14/04

Analysis Description	Analysis Results	Analysis Error +/- 2 Sigma	MDC	Analysis Units	Analysis Test Method	Analysis Date / Time	Analysis Technician
RA-226	1.360	0.4321	0.152	pCi/g	EPA 901.1M	7/02/04 12:37	MS
Ra-228	1.459	0.1094	0.018	pCi/g	EPA 901.1M	7/02/04 12:37	MS
PB-210	1.209	0.3090	0.169	pCi/g	EPA 901.1M	7/02/04 12:37	MS
U-238	0.816	0.8982	0.240	pCi/g	EPA 901.1M	7/02/04 12:37	MS
K-40	3.203	0.3454	0.074	pCi/g	EPA 901.1M	7/02/04 12:37	MS
BI-214	0.841	0.0670	0.017	pCi/g	EPA 901.1M	7/02/04 12:37	MS
PB-212	1.734	0.0819	0.010	pCi/g	EPA 901.1M	7/02/04 12:37	MS
CS-137	0.045	0.0162	0.006	pCi/g	EPA 901.1M	7/02/04 12:37	MS
CO-60	-0.005	-2.9122	0.008	pCi/g	EPA 901.1M	7/02/04 12:37	MS
AM-241	-0.012	-0.1049	0.025	pCi/g	EPA 901.1M	7/02/04 12:37	MS
Total Activity	28.170	NA	NA	pCi/g	EPA 901.1M	7/02/04 12:37	MS
Percent Moisture	10.630	N/A	N/A	%	Moisture	7/02/04 11:20	KB

Notes: Project Name: Curtis Bay Army Depot

Quality Assurance Review

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K613-12



2609 North River Road Port Allen, Louisiana 70767
1 (800) 401-4277 FAX (225) 381-2996

ARS Tracking Number: ARS041133
Client ID: 406128-037-037
Date Sampled: 6/16/04
Time Sampled: NA
Type of Sample: Solid

Request or PO Number: 406128
ARS Sample ID: ARS041133-3832
Date Received: 6/30/04
Time Received: 1100
Date of Report: 7/14/04

Analysis Description	Analysis Results	Analysis Error +/- 2 Sigma	MDC	Analysis Units	Analysis Test Method	Analysis Date / Time	Analysis Technician
RA-226	2.740	0.4940	0.732	pCi/g	EPA 901.1M	7/10/04 07:20	MS
Ra-228	1.140	0.0675	0.175	pCi/g	EPA 901.1M	7/10/04 07:20	MS
PB-210	1.670	0.5620	0.887	pCi/g	EPA 901.1M	7/10/04 07:20	MS
U-238	2.580	0.9500	0.857	pCi/g	EPA 901.1M	7/10/04 07:20	MS
K-40	8.540	0.5350	0.231	pCi/g	EPA 901.1M	7/10/04 07:20	MS
BI-214	0.922	0.0538	0.055	pCi/g	EPA 901.1M	7/10/04 07:20	MS
PB-212	1.250	0.0441	0.273	pCi/g	EPA 901.1M	7/10/04 07:20	MS
AM-241	-0.047	0.0710	0.093	pCi/g	EPA 901.1M	7/10/04 07:20	MS
Total Activity	20.974	NA	NA	pCi/g	EPA 901.1M	7/10/04 07:20	MS
Percent Moisture	14.500	N/A	N/A	%	Moisture	7/02/04 11:20	KB

Notes: Project Name: Curtis Bay Army Depot

Quality Assurance Review

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2609 North River Road Port Allen, Louisiana 70767
1 (800) 401-4277 FAX (225) 381-2996

12615-15

ARS Tracking Number: ARS041133

Request or PO Number: 406128

Client ID: 406128-038-038

ARS Sample ID: ARS041133-3833

Date Sampled: 6/16/04

Date Received: 6/30/04

Time Sampled: NA

Time Received: 1100

Type of Sample: Solid

Date of Report: 7/14/04

Analysis Description	Analysis Results	Analysis Error +/- 2 Sigma	MDC	Analysis Units	Analysis Test Method	Analysis Date / Time	Analysis Technician
RA-226	0.865	0.3749	0.133	pCi/g	EPA 901.1M	7/09/04 19:48	EAM
Ra-228	1.152	0.0793	0.019	pCi/g	EPA 901.1M	7/09/04 19:48	EAM
PB-210	1.203	0.2945	0.160	pCi/g	EPA 901.1M	7/09/04 19:48	EAM
U-238	0.709	0.6623	0.199	pCi/g	EPA 901.1M	7/09/04 19:48	EAM
K-40	6.680	0.4535	0.065	pCi/g	EPA 901.1M	7/09/04 19:48	EAM
BI-214	0.663	0.0555	0.015	pCi/g	EPA 901.1M	7/09/04 19:48	EAM
PB-212	1.362	0.0676	0.011	pCi/g	EPA 901.1M	7/09/04 19:48	EAM
CS-137	0.013	0.0152	0.009	pCi/g	EPA 901.1M	7/09/04 19:48	EAM
CO-60	-0.009	-0.0441	0.009	pCi/g	EPA 901.1M	7/09/04 19:48	EAM
AM-241	-0.008	-0.1461	0.022	pCi/g	EPA 901.1M	7/09/04 19:48	EAM
Total Activity	26.308	NA	NA	pCi/g	EPA 901.1M	7/09/04 19:48	EAM
Percent Moisture	13.200	N/A	N/A	%	Moisture	7/02/04 11:20	KB

Notes: Project Name: Curtis Bay Army Depot

Quality Assurance Review

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2609 North River Road Port Allen, Louisiana 70767
1 (800) 401-4277 FAX (225) 381-2996

ARS Tracking Number: ARS041133

Request or PO Number: 406128

Client ID: 406128-007-007

ARS Sample ID: ARS041133-3802

Date Sampled: 6/21/04

Date Received: 6/30/04

Time Sampled: NA

Time Received: 1100

Type of Sample: Solid

Date of Report: 7/14/04

Analysis Description	Analysis Results	Analysis Error +/- 2 Sigma	MDC	Analysis Units	Analysis Test Method	Analysis Date / Time	Analysis Technician
RA-226	2.570	0.5610	0.847	pCi/g	EPA 901.1M	7/11/04 07:09	MS
Ra-228	1.380	0.0881	0.238	pCi/g	EPA 901.1M	7/11/04 07:09	MS
PB-210	1.880	0.3450	0.803	pCi/g	EPA 901.1M	7/11/04 07:09	MS
U-238	2.350	1.1900	1.060	pCi/g	EPA 901.1M	7/11/04 07:09	MS
K-40	5.290	0.4390	0.289	pCi/g	EPA 901.1M	7/11/04 07:09	MS
BI-214	1.070	0.0635	0.068	pCi/g	EPA 901.1M	7/11/04 07:09	MS
PB-212	1.570	0.0737	0.337	pCi/g	EPA 901.1M	7/11/04 07:09	MS
AM-241	-0.072	0.0753	0.115	pCi/g	EPA 901.1M	7/11/04 07:09	MS
Total Activity	17.881	NA	NA	pCi/g	EPA 901.1M	7/11/04 07:09	MS
Percent Moisture	19.380	N/A	N/A	%	Moisture	7/02/04 11:20	KB

Notes: Project Name: Curtis Bay Army Depot

Quality Assurance Review

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2665-15



2609 North River Road Port Allen, Louisiana 70767
1 (800) 401-4277 FAX (225) 331-2996

ARS Tracking Number: ARS041133

Request or PO Number: 406128

Client ID: 406128-039-039

ARS Sample ID: ARS041133-3834

Date Sampled: 6/16/04

Date Received: 6/30/04

Time Sampled: NA

Time Received: 1100

Type of Sample: Solid

Date of Report: 7/14/04

Analysis Description	Analysis Results	Analysis Error +/- 2 Sigma	MDC	Analysis Units	Analysis Test Method	Analysis Date / Time	Analysis Technician
RA-226	1.980	0.4230	0.638	pCi/g	EPA 901.1M	7/10/04 20:29	MS
Ra-228	1.200	0.0629	0.156	pCi/g	EPA 901.1M	7/10/04 20:29	MS
PB-210	1.060	0.2510	0.586	pCi/g	EPA 901.1M	7/10/04 20:29	MS
U-238	2.020	0.9880	0.876	pCi/g	EPA 901.1M	7/10/04 20:29	MS
K-40	10.800	0.6400	0.257	pCi/g	EPA 901.1M	7/10/04 20:29	MS
BI-214	0.904	0.0549	0.060	pCi/g	EPA 901.1M	7/10/04 20:29	MS
PB-212	1.240	0.0580	0.275	pCi/g	EPA 901.1M	7/10/04 20:29	MS
AM-241	0.012	0.0611	0.095	pCi/g	EPA 901.1M	7/10/04 20:29	MS
Total Activity	20.948	NA	NA	pCi/g	EPA 901.1M	7/10/04 20:29	MS
Percent Moisture	11.250	N/A	N/A	%	Moisture	7/02/04 11:20	KB

Notes: Project Name: Curtis Bay Army Depot

Quality Assurance Review

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KL13-16



2609 North River Road Port Allen, Louisiana 70767
1 (800) 401-4277 FAX (225) 381-2996

ARS Tracking Number: ARS041133
Client ID: 406128-040-040
Date Sampled: 6/16/04
Time Sampled: NA
Type of Sample: Solid

Request or PO Number: 406128
ARS Sample ID: ARS041133-3835
Date Received: 6/30/04
Time Received: 1100
Date of Report: 7/14/04

Analysis Description	Analysis Results	Analysis Error +/- 2 Sigma	MDC	Analysis Units	Analysis Test Method	Analysis Date / Time	Analysis Technician
RA-226	2.414	0.6103	0.313	pCi/g	EPA 901.1M	7/14/04 04:40	CS
Ra-228	2.401	0.2098	0.031	pCi/g	EPA 901.1M	7/14/04 04:40	CS
PB-210	3.225	0.9830	0.409	pCi/g	EPA 901.1M	7/14/04 04:40	CS
U-238	1.739	1.6578	0.452	pCi/g	EPA 901.1M	7/14/04 04:40	CS
K-40	4.433	0.5674	0.169	pCi/g	EPA 901.1M	7/14/04 04:40	CS
BI-214	1.596	0.1501	0.036	pCi/g	EPA 901.1M	7/14/04 04:40	CS
PB-212	2.969	0.1541	0.024	pCi/g	EPA 901.1M	7/14/04 04:40	CS
AM-241	0.018	0.0809	0.047	pCi/g	EPA 901.1M	7/14/04 04:40	CS
Total Activity	42.372	NA	NA	pCi/g	EPA 901.1M	7/14/04 04:40	CS
Percent Moisture	24.280	N/A	N/A	%	Moisture	7/02/04 11:20	KB

Notes: Project Name: Curtis Bay Army Depot

Quality Assurance Review

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2609 North River Road Port Allen, Louisiana 70767
1 (800) 401-4277 FAX (225) 381-2996

ARS Tracking Number: ARS041133

Request or PO Number: 406128

Client ID: 406128-008-008

ARS Sample ID: ARS041133-3803

Date Sampled: 6/21/04

Date Received: 6/30/04

Time Sampled: NA

Time Received: 1100

Type of Sample: Solid

Date of Report: 7/14/04

Analysis Description	Analysis Results	Analysis Error +/- 2 Sigma	MDC	Analysis Units	Analysis Test Method	Analysis Date / Time	Analysis Technician
RA-226	1.379	0.5519	0.199	pCi/g	EPA 901.1M	7/06/04 15:37	MS
Ra-228	2.155	0.1552	0.025	pCi/g	EPA 901.1M	7/06/04 15:37	MS
PB-210	2.163	0.4176	0.220	pCi/g	EPA 901.1M	7/06/04 15:37	MS
U-238	1.931	1.3524	0.452	pCi/g	EPA 901.1M	7/06/04 15:37	MS
K-40	4.373	0.4052	0.085	pCi/g	EPA 901.1M	7/06/04 15:37	MS
BI-214	1.443	0.0936	0.020	pCi/g	EPA 901.1M	7/06/04 15:37	MS
PB-212	2.475	0.1150	0.016	pCi/g	EPA 901.1M	7/06/04 15:37	MS
CS-137	0.090	0.0224	0.009	pCi/g	EPA 901.1M	7/06/04 15:37	MS
CO-60	-0.001	-0.0207	0.009	pCi/g	EPA 901.1M	7/06/04 15:37	MS
AM-241	-0.007	-0.7538	0.031	pCi/g	EPA 901.1M	7/06/04 15:37	MS
Total Activity	39.248	NA	NA	pCi/g	EPA 901.1M	7/06/04 15:37	MS
Percent Moisture	11.220	N/A	N/A	%	Moisture	7/02/04 11:20	KB

Notes: Project Name: Curtis Bay Army Depot

Quality Assurance Review

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2609 North River Road Port Allen, Louisiana 70767
1 (800) 401-4277 FAX (225) 381-2996

K615-16

ARS Tracking Number: ARS041133

Request or PO Number: 406128

Client ID: 406128-041-041

ARS Sample ID: ARS041133-3836

Date Sampled: 6/16/04

Date Received: 6/30/04

Time Sampled: NA

Time Received: 1100

Type of Sample: Solid

Date of Report: 7/14/04

Analysis Description	Analysis Results	Analysis Error +/- 2 Sigma	MDC	Analysis Units	Analysis Test Method	Analysis Date / Time	Analysis Technician
RA-226	1.528	0.4545	0.157	pCi/g	EPA 901.1M	7/06/04 19:04	MS
Ra-228	1.366	0.1090	0.020	pCi/g	EPA 901.1M	7/06/04 19:04	MS
PB-210	2.417	0.3674	0.185	pCi/g	EPA 901.1M	7/06/04 19:04	MS
U-238	1.160	1.1026	0.229	pCi/g	EPA 901.1M	7/06/04 19:04	MS
K-40	6.937	0.4847	0.074	pCi/g	EPA 901.1M	7/06/04 19:04	MS
BI-214	1.088	0.0725	0.017	pCi/g	EPA 901.1M	7/06/04 19:04	MS
PB-212	1.663	0.0799	0.012	pCi/g	EPA 901.1M	7/06/04 19:04	MS
CS-137	0.361	0.0288	0.007	pCi/g	EPA 901.1M	7/06/04 19:04	MS
CO-60	-0.001	-0.0283	0.009	pCi/g	EPA 901.1M	7/06/04 19:04	MS
AM-241	-0.001	-0.0613	0.025	pCi/g	EPA 901.1M	7/06/04 19:04	MS
Total Activity	33.726	NA	NA	pCi/g	EPA 901.1M	7/06/04 19:04	MS
Percent Moisture	24.080	N/A	N/A	%	Moisture	7/02/04 11:20	KB

Notes: Project Name: Curtis Bay Army Depot

Quality Assurance Review

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K61500



2609 North River Road Port Allen, Louisiana 70767
1 (800) 401-4277 FAX (225) 381-2996

ARS Tracking Number: ARS040986 Request or PO Number: 406029
Client ID: 406029-006-006 ARS Sample ID: ARS040986-3261
Date Sampled: 6/2/04 Date Received: 6/9/04
Time Sampled: NA Time Received: 1100
Type of Sample: Solid Date of Report: 6/17/04

Analysis Description	Analysis Results	Analysis Error +/- 2 Sigma	MDC	Analysis Units	Analysis Test Method	Analysis Date / Time	Analysis Technician
RA-226	0.526	0.3443	0.127	pCi/g	EPA 901.1M	6/17/04 07:21	MS
Ra-228	0.822	0.0625	0.019	pCi/g	EPA 901.1M	6/17/04 07:21	MS
PB-210	1.556	0.4039	0.175	pCi/g	EPA 901.1M	6/17/04 07:21	MS
U-238	0.601	0.6447	0.199	pCi/g	EPA 901.1M	6/17/04 07:21	MS
K-40	7.252	0.4680	0.053	pCi/g	EPA 901.1M	6/17/04 07:21	MS
BI-214	0.653	0.0539	0.013	pCi/g	EPA 901.1M	6/17/04 07:21	MS
PB-212	0.947	0.0507	0.009	pCi/g	EPA 901.1M	6/17/04 07:21	MS
CS-137	0.198	0.0215	0.005	pCi/g	EPA 901.1M	6/17/04 07:21	MS
CO-60	-0.006	-0.0450	0.008	pCi/g	EPA 901.1M	6/17/04 07:21	MS
AM-241	-0.003	-1.0870	0.022	pCi/g	EPA 901.1M	6/17/04 07:21	MS
Total Activity	23.327	NA	NA	pCi/g	EPA 901.1M	6/17/04 07:21	MS

Notes: Project Number: Curtis Bay Army Depot

Quality Assurance Review

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2609 North River Road Port Allen, Louisiana 70767
1 (800) 401-4277 FAX (225) 381-2996

ARS Tracking Number: ARS040986

Request or PO Number: 406029

Client ID: 406029-007-007

ARS Sample ID: ARS040986-3262

Date Sampled: 5/27/04

Date Received: 6/9/04

Time Sampled: NA

Time Received: 1100

Type of Sample: Solid

Date of Report: 6/17/04

Analysis Description	Analysis Results	Analysis Error +/- 2 Sigma	MDC	Analysis Units	Analysis Test Method	Analysis Date / Time	Analysis Technician
RA-226	0.892	0.4127	0.149	pCi/g	EPA 901.1M	6/16/04 13:50	MS
Ra-228	1.317	0.0843	0.021	pCi/g	EPA 901.1M	6/16/04 13:50	MS
PB-210	1.238	0.3128	0.171	pCi/g	EPA 901.1M	6/16/04 13:50	MS
U-238	1.449	1.0246	0.204	pCi/g	EPA 901.1M	6/16/04 13:50	MS
K-40	4.433	0.3450	0.056	pCi/g	EPA 901.1M	6/16/04 13:50	MS
BI-214	1.014	0.0651	0.015	pCi/g	EPA 901.1M	6/16/04 13:50	MS
PB-212	1.586	0.0756	0.011	pCi/g	EPA 901.1M	6/16/04 13:50	MS
CS-137	0.006	0.0158	0.009	pCi/g	EPA 901.1M	6/16/04 13:50	MS
CO-60	-0.012	-0.0323	0.009	pCi/g	EPA 901.1M	6/16/04 13:50	MS
AM-241	-0.009	-0.1353	0.024	pCi/g	EPA 901.1M	6/16/04 13:50	MS
Total Activity	29.340	NA	NA	pCi/g	EPA 901.1M	6/16/04 13:50	MS

Notes: Project Number: Curtis Bay Army Depot

Quality Assurance Review

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K 617-1



2609 North River Road Port Allen, Louisiana 70767
1 (800) 401-4277 FAX (225) 381-2996

ARS Tracking Number: ARS040993
Client ID: 406059-001-001
Date Sampled: 6/3/04
Time Sampled: NA
Type of Sample: Solid

Request or PO Number: 406059
ARS Sample ID: ARS040993-3293
Date Received: 6/11/04
Time Received: 1020
Date of Report: 6/22/04

Analysis Description	Analysis Results	Analysis Error +/- 2 Sigma	MDC	Analysis Units	Analysis Test Method	Analysis Date / Time	Analysis Technician
RA-226	0.723	0.3130	0.115	pCi/g	EPA 901.1M	6/13/04 02:05	SMB
Ra-228	0.789	0.0772	0.017	pCi/g	EPA 901.1M	6/13/04 02:05	SMB
PB-210	0.928	0.2465	0.135	pCi/g	EPA 901.1M	6/13/04 02:05	SMB
U-238	0.794	0.4687	0.197	pCi/g	EPA 901.1M	6/13/04 02:05	SMB
K-40	7.696	0.4613	0.051	pCi/g	EPA 901.1M	6/13/04 02:05	SMB
BI-214	0.560	0.0534	0.014	pCi/g	EPA 901.1M	6/13/04 02:05	SMB
PB-212	0.927	0.0481	0.009	pCi/g	EPA 901.1M	6/13/04 02:05	SMB
AM-241	0.005	0.0324	0.019	pCi/g	EPA 901.1M	6/13/04 02:05	SMB
Total Activity	24.641	NA	NA	pCi/g	EPA 901.1M	6/13/04 02:05	SMB
Percent Moisture	20.020	N/A	N/A	%	Moisture	6/13/04 02:05	JF

Notes: Project Number: Curtis Bay Army Depot

Quality Assurance Review

Notes: American Radiation Services, Inc. assumes no liability for the use or interpretation of any analytical results provided other than the cost of the analysis itself. Reproduction of this report in less than full requires the written consent of the client.

KB14-00



2609 North River Road Port Allen, Louisiana 70767
1 (800) 401-4277 FAX (225) 381-2996

ARS Tracking Number: ARS040993

Request or PO Number: 406059

Client ID: 406059-002-002

ARS Sample ID: ARS040993-3294

Date Sampled: 6/3/04

Date Received: 6/11/04

Time Sampled: NA

Time Received: 1020

Type of Sample: Solid

Date of Report: 6/22/04

Analysis Description	Analysis Results	Analysis Error +/- 2 Sigma	MDC	Analysis Units	Analysis Test Method	Analysis Date / Time	Analysis Technician
RA-226	1.755	0.3036	0.154	pCi/g	EPA 901.1M	6/12/04 14:38	MS
Ra-228	0.949	0.0888	0.017	pCi/g	EPA 901.1M	6/12/04 14:38	MS
PB-210	1.174	0.3697	0.169	pCi/g	EPA 901.1M	6/12/04 14:38	MS
U-238	0.000	0.0000	0.195	pCi/g	EPA 901.1M	6/12/04 14:38	MS
K-40	6.843	0.4705	0.068	pCi/g	EPA 901.1M	6/12/04 14:38	MS
BI-214	0.634	0.0551	0.016	pCi/g	EPA 901.1M	6/12/04 14:38	MS
PB-212	1.113	0.0578	0.011	pCi/g	EPA 901.1M	6/12/04 14:38	MS
AM-241	0.002	0.0369	0.022	pCi/g	EPA 901.1M	6/12/04 14:38	MS
Total Activity	24.421	NA	NA	pCi/g	EPA 901.1M	6/12/04 14:38	MS
Percent Moisture	16.290	N/A	N/A	%	Moisture	6/12/04 14:38	JF

Notes: Project Number: Curtis Bay Army Depot

Quality Assurance Review

Notes: American Radiation Services, Inc. assumes no liability for the use or interpretation of any analytical results provided other than the cost of the analysis itself. Reproduction of this report in less than full requires the written consent of the client.

2614-02



2609 North River Road Port Allen, Louisiana 70767
1 (800) 401-4277 FAX (225) 381-2996

ARS Tracking Number: ARS040993

Request or PO Number: 406059

Client ID: 406059-003-003

ARS Sample ID: ARS040993-3295

Date Sampled: 6/3/04

Date Received: 6/11/04

Time Sampled: NA

Time Received: 1020

Type of Sample: Solid

Date of Report: 6/22/04

Analysis Description	Analysis Results	Analysis Error +/- 2 Sigma	MDC	Analysis Units	Analysis Test Method	Analysis Date / Time	Analysis Technician
RA-226	0.551	0.3761	0.140	pCi/g	EPA 901.1M	6/12/04 10:23	MS
Ra-228	1.030	0.0860	0.016	pCi/g	EPA 901.1M	6/12/04 10:23	MS
PB-210	0.849	0.2909	0.164	pCi/g	EPA 901.1M	6/12/04 10:23	MS
U-238	0.685	0.7438	0.216	pCi/g	EPA 901.1M	6/12/04 10:23	MS
K-40	9.108	0.5578	0.061	pCi/g	EPA 901.1M	6/12/04 10:23	MS
BI-214	0.575	0.0519	0.015	pCi/g	EPA 901.1M	6/12/04 10:23	MS
PB-212	1.141	0.0601	0.012	pCi/g	EPA 901.1M	6/12/04 10:23	MS
AM-241	0.011	0.0371	0.022	pCi/g	EPA 901.1M	6/12/04 10:23	MS
Total Activity	24.761	NA	NA	pCi/g	EPA 901.1M	6/12/04 10:23	MS
Percent Moisture	12.880	N/A	N/A	%	Moisture	6/12/04 10:23	JF

Notes: Project Number: Curtis Bay Army Depot

Quality Assurance Review

Notes: American Radiation Services, Inc. assumes no liability for the use or interpretation of any analytical results provided other than the cost of the analysis itself. Reproduction of this report in less than full requires the written consent of the client.

K614-04



2609 North River Road Port Allen, Louisiana 70767
1 (800) 401-4277 FAX (225) 381-2996

ARS Tracking Number: ARS040993

Request or PO Number: 406059

Client ID: 406059-004-004

ARS Sample ID: ARS040993-3296

Date Sampled: 6/3/04

Date Received: 6/11/04

Time Sampled: NA

Time Received: 1020

Type of Sample: Solid

Date of Report: 6/22/04

Analysis Description	Analysis Results	Analysis Error +/- 2 Sigma	MDC	Analysis Units	Analysis Test Method	Analysis Date / Time	Analysis Technician
RA-226	0.291	0.5280	0.204	pCi/g	EPA 901.1M	6/15/04 16:06	WLM
Ra-228	0.883	0.1033	0.019	pCi/g	EPA 901.1M	6/15/04 16:06	WLM
PB-210	1.205	0.5758	0.256	pCi/g	EPA 901.1M	6/15/04 16:06	WLM
U-238	0.000	0.0000	0.277	pCi/g	EPA 901.1M	6/15/04 16:06	WLM
K-40	5.218	0.5344	0.093	pCi/g	EPA 901.1M	6/15/04 16:06	WLM
BI-214	0.558	0.0714	0.021	pCi/g	EPA 901.1M	6/15/04 16:06	WLM
PB-212	0.966	0.0665	0.015	pCi/g	EPA 901.1M	6/15/04 16:06	WLM
AM-241	-0.027	-0.0798	0.030	pCi/g	EPA 901.1M	6/15/04 16:06	WLM
Total Activity	16.824	NA	NA	pCi/g	EPA 901.1M	6/15/04 16:06	WLM
Percent Moisture	8.432	N/A	N/A	%	Moisture	6/15/04 16:06	JF

Notes: Project Number: Curtis Bay Army Depot

Quality Assurance Review

Notes: American Radiation Services, Inc. assumes no liability for the use or interpretation of any analytical results provided other than the cost of the analysis itself. Reproduction of this report in less than full requires the written consent of the client.



2609 North River Road Port Allen, Louisiana 70767

1 (800) 401-4277 FAX (225) 381-2996

ARS Tracking Number: ARS040993

Request or PO Number: 406059

Client ID: 406059-005-005

ARS Sample ID: ARS040993-3297

Date Sampled: 6/3/04

Date Received: 6/11/04

Time Sampled: NA

Time Received: 1020

Type of Sample: Solid

Date of Report: 6/22/04

Analysis Description	Analysis Results	Analysis Error +/- 2 Sigma	MDC	Analysis Units	Analysis Test Method	Analysis Date / Time	Analysis Technician
RA-226	1.331	0.6575	0.353	pCi/g	EPA 901.1M	6/17/04 21:52	SMB
Ra-228	1.974	0.1715	0.033	pCi/g	EPA 901.1M	6/17/04 21:52	SMB
PB-210	3.348	0.9963	0.435	pCi/g	EPA 901.1M	6/17/04 21:52	SMB
U-238	0.000	0.0000	0.550	pCi/g	EPA 901.1M	6/17/04 21:52	SMB
K-40	2.759	0.5855	0.232	pCi/g	EPA 901.1M	6/17/04 21:52	SMB
BI-214	0.838	0.1099	0.036	pCi/g	EPA 901.1M	6/17/04 21:52	SMB
PB-212	2.397	0.1448	0.025	pCi/g	EPA 901.1M	6/17/04 21:52	SMB
AM-241	0.015	0.0866	0.050	pCi/g	EPA 901.1M	6/17/04 21:52	SMB
Total Activity	31.502	NA	NA	pCi/g	EPA 901.1M	6/17/04 21:52	SMB
Percent Moisture	30.590	N/A	N/A	%	Moisture	6/17/04 21:52	JF

Notes: Project Number: Curtis Bay Army Depot

Quality Assurance Review

Notes: American Radiation Services, Inc. assumes no liability for the use or interpretation of any analytical results provided other than the cost of the analysis itself. Reproduction of this report in less than full requires the written consent of the client.



2609 North River Road Port Allen, Louisiana 70767
1 (800) 401-4277 FAX (225) 381-2996

ARS Tracking Number: ARS040993

Request or PO Number: 406059

Client ID: 406059-006-006

ARS Sample ID: ARS040993-3298

Date Sampled: 6/3/04

Date Received: 6/11/04

Time Sampled: NA

Time Received: 1020

Type of Sample: Solid

Date of Report: 6/22/04

Analysis Description	Analysis Results	Analysis Error +/- 2 Sigma	MDC	Analysis Units	Analysis Test Method	Analysis Date / Time	Analysis Technician
RA-226	1.436	0.4696	0.170	pCi/g	EPA 901.1M	6/13/04 15:24	BJD
Ra-228	1.770	0.1299	0.023	pCi/g	EPA 901.1M	6/13/04 15:24	BJD
PB-210	1.636	0.3487	0.187	pCi/g	EPA 901.1M	6/13/04 15:24	BJD
U-238	1.241	0.7315	0.250	pCi/g	EPA 901.1M	6/13/04 15:24	BJD
K-40	3.939	0.3553	0.068	pCi/g	EPA 901.1M	6/13/04 15:24	BJD
BI-214	1.084	0.0863	0.019	pCi/g	EPA 901.1M	6/13/04 15:24	BJD
PB-212	2.166	0.0995	0.014	pCi/g	EPA 901.1M	6/13/04 15:24	BJD
AM-241	0.024	0.0450	0.026	pCi/g	EPA 901.1M	6/13/04 15:24	BJD
Total Activity	35.127	NA	NA	pCi/g	EPA 901.1M	6/13/04 15:24	BJD
Percent Moisture	6.403	N/A	N/A	%	Moisture	6/13/04 15:24	JF

Notes: Project Number: Curtis Bay Army Depot

Quality Assurance Review

Notes: American Radiation Services, Inc. assumes no liability for the use or interpretation of any analytical results provided other than the cost of the analysis itself. Reproduction of this report in less than full requires the written consent of the client.

12614-07



2609 North River Road Port Allen, Louisiana 70767
1 (800) 401-4277 FAX (225) 381-2996

ARS Tracking Number: ARS040993
Client ID: 406059-007-007
Date Sampled: 6/3/04
Time Sampled: NA
Type of Sample: Solid

Request or PO Number: 406059
ARS Sample ID: ARS040993-3299
Date Received: 6/11/04
Time Received: 1020
Date of Report: 6/22/04

Analysis Description	Analysis Results	Analysis Error +/- 2 Sigma	MDC	Analysis Units	Analysis Test Method	Analysis Date / Time	Analysis Technician
RA-226	0.767	0.3645	0.131	pCi/g	EPA 901.1M	6/12/04 12:36	MS
Ra-228	0.899	0.0667	0.017	pCi/g	EPA 901.1M	6/12/04 12:36	MS
PB-210	1.093	0.3780	0.170	pCi/g	EPA 901.1M	6/12/04 12:36	MS
U-238	1.215	0.3465	0.203	pCi/g	EPA 901.1M	6/12/04 12:36	MS
K-40	3.218	0.2896	0.056	pCi/g	EPA 901.1M	6/12/04 12:36	MS
BI-214	0.565	0.0486	0.014	pCi/g	EPA 901.1M	6/12/04 12:36	MS
PB-212	1.039	0.0549	0.010	pCi/g	EPA 901.1M	6/12/04 12:36	MS
AM-241	-0.005	-0.0823	0.011	pCi/g	EPA 901.1M	6/12/04 12:36	MS
Total Activity	18.388	NA	NA	pCi/g	EPA 901.1M	6/12/04 12:36	MS
Percent Moisture	17.270	N/A	N/A	%	Moisture	6/12/04 12:36	JF

Notes: Project Number: Curtis Bay Army Depot

Quality Assurance Review

Notes: American Radiation Services, Inc. assumes no liability for the use or interpretation of any analytical results provided other than the cost of the analysis itself. Reproduction of this report in less than full requires the written consent of the client.

12614-00



2609 North River Road Port Allen, Louisiana 70767

1 (800) 401-4277 FAX (225) 381-2996

ARS Tracking Number: ARS040993

Request or PO Number: 406059

Client ID: 406059-008-008

ARS Sample ID: ARS040993-3300

Date Sampled: 6/3/04

Date Received: 6/11/04

Time Sampled: NA

Time Received: 1020

Type of Sample: Solid

Date of Report: 6/22/04

Analysis Description	Analysis Results	Analysis Error +/- 2 Sigma	MDC	Analysis Units	Analysis Test Method	Analysis Date/ Time	Analysis Technician
RA-226	1.295	0.2724	0.132	pCi/g	EPA 901.1M	6/17/04 19:08	SMB
Ra-228	0.652	0.0649	0.018	pCi/g	EPA 901.1M	6/17/04 19:08	SMB
PB-210	0.475	0.3723	0.172	pCi/g	EPA 901.1M	6/17/04 19:08	SMB
U-238	0.303	0.8391	0.222	pCi/g	EPA 901.1M	6/17/04 19:08	SMB
K-40	5.147	0.4280	0.055	pCi/g	EPA 901.1M	6/17/04 19:08	SMB
BI-214	0.411	0.0571	0.016	pCi/g	EPA 901.1M	6/17/04 19:08	SMB
PB-212	0.707	0.0466	0.011	pCi/g	EPA 901.1M	6/17/04 19:08	SMB
AM-241	-0.006	-0.1420	0.023	pCi/g	EPA 901.1M	6/17/04 19:08	SMB
Total Activity	14.973	NA	NA	pCi/g	EPA 901.1M	6/17/04 19:08	MS
Percent Moisture	15.070	N/A	N/A	%	Moisture	6/17/04 19:08	JF

Notes: Project Number: Curtis Bay Army Depot

Quality Assurance Review

Notes: American Radiation Services, Inc. assumes no liability for the use or interpretation of any analytical results provided other than the cost of the analysis itself. Reproduction of this report in less than full requires the written consent of the client.

K611-07



2609 North River Road Port Allen, Louisiana 70767
1 (800) 401-4277 FAX (225) 381-2996

ARS Tracking Number: ARS040993

Request or PO Number: 406059

Client ID: 406059-009-009

ARS Sample ID: ARS040993-3301

Date Sampled: 6/3/04

Date Received: 6/11/04

Time Sampled: NA

Time Received: 1020

Type of Sample: Solid

Date of Report: 6/22/04

Analysis Description	Analysis Results	Analysis Error +/- 2 Sigma	MDC	Analysis Units	Analysis Test Method	Analysis Date / Time	Analysis Technician
RA-226	0.978	0.3999	0.214	pCi/g	EPA 901.1M	6/21/04 07:20	WLM
Ra-228	1.194	0.1012	0.021	pCi/g	EPA 901.1M	6/21/04 07:20	WLM
PB-210	0.975	0.5788	0.330	pCi/g	EPA 901.1M	6/21/04 07:20	WLM
U-238	1.363	0.6733	0.349	pCi/g	EPA 901.1M	6/21/04 07:20	WLM
K-40	6.916	0.5786	0.697	pCi/g	EPA 901.1M	6/21/04 07:20	WLM
BI-214	0.783	0.0859	0.023	pCi/g	EPA 901.1M	6/21/04 07:20	WLM
PB-212	1.352	0.0812	0.173	pCi/g	EPA 901.1M	6/21/04 07:20	WLM
AM-241	-0.004	-0.5740	0.032	pCi/g	EPA 901.1M	6/21/04 07:20	WLM
Total Activity	26.472	NA	NA	pCi/g	EPA 901.1M	6/20/04 18:44	WLM
Percent Moisture	15.260	N/A	N/A	%	Moisture	6/20/04 18:44	JF

Notes: Project Number: Curtis Bay Army Depot

Quality Assurance Review

Notes: American Radiation Services, Inc. assumes no liability for the use or interpretation of any analytical results provided other than the cost of the analysis itself. Reproduction of this report in less than full requires the written consent of the client.



2609 North River Road Port-Allen, Louisiana 70767
1 (800) 401-4277 FAX (225) 381-2996

ARS Tracking Number: ARS041133

Request or PO Number: 406128

Client ID: 406128-009-009

ARS Sample ID: ARS041133-3804

Date Sampled: 6/21/04

Date Received: 6/30/04

Time Sampled: NA

Time Received: 1100

Type of Sample: Solid

Date of Report: 7/14/04

Analysis Description	Analysis Results	Analysis Error +/- 2 Sigma	MDC	Analysis Units	Analysis Test Method	Analysis Date / Time	Analysis Technician
RA-226	1.270	0.4611	0.166	pCi/g	EPA 901.1M	7/06/04 08:44	MS
Ra-228	1.432	0.1130	0.019	pCi/g	EPA 901.1M	7/06/04 08:44	MS
PB-210	2.349	0.3688	0.186	pCi/g	EPA 901.1M	7/06/04 08:44	MS
U-238	0.717	0.5863	0.251	pCi/g	EPA 901.1M	7/06/04 08:44	MS
K-40	3.946	0.3521	0.068	pCi/g	EPA 901.1M	7/06/04 08:44	MS
BI-214	0.810	0.0694	0.019	pCi/g	EPA 901.1M	7/06/04 08:44	MS
PB-212	1.740	0.0839	0.012	pCi/g	EPA 901.1M	7/06/04 08:44	MS
CS-137	0.610	0.0377	0.009	pCi/g	EPA 901.1M	7/06/04 08:44	MS
CO-60	-0.005	-0.0213	0.005	pCi/g	EPA 901.1M	7/06/04 08:44	MS
AM-241	0.007	0.0441	0.026	pCi/g	EPA 901.1M	7/06/04 08:44	MS
Total Activity	29.385	NA	NA	pCi/g	EPA 901.1M	7/06/04 08:44	MS
Percent Moisture	21.460	N/A	N/A	%	Moisture	7/02/04 11:20	KB

Notes: Project Name: Curtis Bay Army Depot

Quality Assurance Review

Notes: American Radiation Services, Inc. assumes no liability for the use or interpretation of any analytical results provided other than the cost of the analysis itself. Reproduction of this report in less than full requires the written consent of the client.

K614-11



2609 North River Road Port Allen, Louisiana 70767
1 (800) 401-4277 FAX (225) 381-2996

ARS Tracking Number: ARS040993
Client ID: 406059-010-010
Date Sampled: 6/3/04
Time Sampled: NA
Type of Sample: Solid

Request or PO Number: 406059
ARS Sample ID: ARS040993-3302
Date Received: 6/11/04
Time Received: 1020
Date of Report: 6/22/04

Analysis Description	Analysis Results	Analysis Error +/- 2 Sigma	MDC	Analysis Units	Analysis Test Method	Analysis Date / Time	Analysis Technician
RA-226	0.000	0.0000	0.193	pCi/g	EPA 901.1M	6/18/04 01:15	SMB
Ra-228	0.772	0.0868	0.016	pCi/g	EPA 901.1M	6/18/04 01:15	SMB
PB-210	0.478	0.4140	0.212	pCi/g	EPA 901.1M	6/18/04 01:15	SMB
U-238	1.806	0.4330	0.307	pCi/g	EPA 901.1M	6/18/04 01:15	SMB
K-40	4.519	0.4787	0.083	pCi/g	EPA 901.1M	6/18/04 01:15	SMB
BI-214	0.426	0.0571	0.019	pCi/g	EPA 901.1M	6/18/04 01:15	SMB
PB-212	0.531	0.0601	0.014	pCi/g	EPA 901.1M	6/18/04 01:15	SMB
AM-241	0.003	0.0463	0.027	pCi/g	EPA 901.1M	6/18/04 01:15	SMB
Total Activity	15.946	NA	NA	pCi/g	EPA 901.1M	6/18/04 01:15	SMB
Percent Moisture	7.797	N/A	N/A	%	Other	6/18/04 01:15	JF

Notes: Project Number: Curtis Bay Army Depot

Quality Assurance Review

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2609 North River Road Port Allen, Louisiana 70767
1 (800) 401-4277 FAX (225) 381-2996

ARS Tracking Number: ARS040993

Request or PO Number: 406059

Client ID: 406059-011-011

ARS Sample ID: ARS040993-3303

Date Sampled: 6/3/04

Date Received: 6/11/04

Time Sampled: NA

Time Received: 1020

Type of Sample: Solid

Date of Report: 6/22/04

Analysis Description	Analysis Results	Analysis Error +/- 2 Sigma	MDC	Analysis Units	Analysis Test Method	Analysis Date / Time	Analysis Technician
RA-226	0.976	0.2594	0.136	pCi/g	EPA 901.1M	6/14/04 11:44	MS
Ra-228	0.795	0.0642	0.020	pCi/g	EPA 901.1M	6/14/04 11:44	MS
PB-210	0.682	0.3731	0.177	pCi/g	EPA 901.1M	6/14/04 11:44	MS
U-238	0.000	0.0000	0.214	pCi/g	EPA 901.1M	6/14/04 11:44	MS
K-40	5.133	0.3927	0.061	pCi/g	EPA 901.1M	6/14/04 11:44	MS
BI-214	0.408	0.0419	0.013	pCi/g	EPA 901.1M	6/14/04 11:44	MS
PB-212	0.918	0.0510	0.010	pCi/g	EPA 901.1M	6/14/04 11:44	MS
AM-241	-0.003	-0.1680	0.022	pCi/g	EPA 901.1M	6/14/04 11:44	MS
Total Activity	17.002	NA	NA	pCi/g	EPA 901.1M	6/14/04 11:44	MS
Percent Moisture	9.776	N/A	N/A	%	Other	6/14/04 11:44	JF

Notes: Project Number: Curtis Bay Army Depot

Quality Assurance Review

Notes: American Radiation Services, Inc. assumes no liability for the use or interpretation of any analytical results provided other than the cost of the analysis itself. Reproduction of this report in less than full requires the written consent of the client.

K614-13



2609 North River Road Port Allen, Louisiana 70767

1 (800) 401-4277

FAX (225) 381-2996

ARS Tracking Number: ARS040993

Request or PO Number: 406059

Client ID: 406059-012-012

ARS Sample ID: ARS040993-3304

Date Sampled: 6/3/04

Date Received: 6/11/04

Time Sampled: NA

Time Received: 1020

Type of Sample: Solid

Date of Report: 6/22/04

Analysis Description	Analysis Results	Analysis Error +/- 2 Sigma	MDC	Analysis Units	Analysis Test Method	Analysis Date / Time	Analysis Technician
RA-226	0.381	0.6370	0.248	pCi/g	EPA 901.1M	6/18/04 00:14	SMB
Ra-228	1.652	0.1611	0.028	pCi/g	EPA 901.1M	6/18/04 00:14	SMB
PB-210	1.418	0.4724	0.257	pCi/g	EPA 901.1M	6/18/04 00:14	SMB
U-238	1.645	1.5696	0.103	pCi/g	EPA 901.1M	6/18/04 00:14	SMB
K-40	4.041	0.4608	0.089	pCi/g	EPA 901.1M	6/18/04 00:14	SMB
BI-214	1.146	0.0938	0.022	pCi/g	EPA 901.1M	6/18/04 00:14	SMB
PB-212	2.072	0.1100	0.018	pCi/g	EPA 901.1M	6/18/04 00:14	SMB
AM-241	0.003	0.0628	0.037	pCi/g	EPA 901.1M	6/18/04 00:14	SMB
Total Activity	32.084	NA	NA	pCi/g	EPA 901.1M	6/18/04 00:14	SMB
Percent Moisture	8.403	N/A	N/A	%	Other	6/18/04 00:14	JF

Notes: Project Number: Curtis Bay Army Depot

Quality Assurance Review

Notes: American Radiation Services, Inc. assumes no liability for the use or interpretation of any analytical results provided other than the cost of the analysis itself. Reproduction of this report in less than full requires the written consent of the client.

K 6/14/04



2609 North River Road Port Allen, Louisiana 70767
1 (800) 401-4277 FAX (225) 381-2996

ARS Tracking Number: ARS041133

Request or PO Number: 406128

Client ID: 406128-010-010

ARS Sample ID: ARS041133-3805

Date Sampled: 6/21/04

Date Received: 6/30/04

Time Sampled: NA

Time Received: 1100

Type of Sample: Solid

Date of Report: 7/14/04

Analysis Description	Analysis Results	Analysis Error +/- 2 Sigma	MDC	Analysis Units	Analysis Test Method	Analysis Date / Time	Analysis Technician
RA-226	0.456	2.2000	1.090	pCi/g	EPA 901.1M	7/10/04 11:50	MS
Ra-228	2.150	0.0982	0.253	pCi/g	EPA 901.1M	7/10/04 11:50	MS
PB-210	1.450	0.3040	0.736	pCi/g	EPA 901.1M	7/10/04 11:50	MS
U-238	2.540	1.2300	1.080	pCi/g	EPA 901.1M	7/10/04 11:50	MS
K-40	3.850	0.3480	0.279	pCi/g	EPA 901.1M	7/10/04 11:50	MS
BI-214	1.420	0.0713	0.072	pCi/g	EPA 901.1M	7/10/04 11:50	MS
PB-212	2.220	0.0927	0.382	pCi/g	EPA 901.1M	7/10/04 11:50	MS
AM-241	0.004	0.0851	0.115	pCi/g	EPA 901.1M	7/10/04 11:50	MS
Total Activity	16.605	NA	NA	pCi/g	EPA 901.1M	7/10/04 11:50	MS
Percent Moisture	11.140	N/A	N/A	%	Moisture	7/02/04 11:20	KB

Notes: Project Name: Curtis Bay Army Depot


Quality Assurance Review

Notes: American Radiation Services, Inc. assumes no liability for the use or interpretation of any analytical results provided other than the cost of the analysis itself. Reproduction of this report in less than full requires the written consent of the client.

K614-15



2609 North River Road Port Allen, Louisiana 70767
1 (800) 401-4277 FAX (225) 381-2996

ARS Tracking Number: ARS040993
Client ID: 406059-013-013
Date Sampled: 6/3/04
Time Sampled: NA
Type of Sample: Solid

Request or PO Number: 406059
ARS Sample ID: ARS040993-3305
Date Received: 6/11/04
Time Received: 1020
Date of Report: 6/22/04

Analysis Description	Analysis Results	Analysis Error +/- 2 Sigma	MDC	Analysis Units	Analysis Test Method	Analysis Date / Time	Analysis Technician
RA-226	0.969	0.3951	0.140	pCi/g	EPA 901.1M	6/13/04 11:11	BJD
Ra-228	0.990	0.0864	0.015	pCi/g	EPA 901.1M	6/13/04 11:11	BJD
PB-210	1.928	0.3255	0.166	pCi/g	EPA 901.1M	6/13/04 11:11	BJD
U-238	1.307	0.3951	0.207	pCi/g	EPA 901.1M	6/13/04 11:11	BJD
K-40	2.981	0.3014	0.093	pCi/g	EPA 901.1M	6/13/04 11:11	BJD
BI-214	0.074	0.0658	0.017	pCi/g	EPA 901.1M	6/13/04 11:11	BJD
PB-212	0.665	0.1323	0.060	pCi/g	EPA 901.1M	6/13/04 11:11	BJD
AM-241	-0.002	-0.0953	0.022	pCi/g	EPA 901.1M	6/13/04 11:11	BJD
Total Activity	20.458	NA	NA	pCi/g	EPA 901.1M	6/13/04 11:11	BJD
Percent Moisture	7.775	N/A	N/A	%	Other	6/13/04 11:11	JF

Notes: Project Number: Curtis Bay Army Depot

Quality Assurance Review

Notes: American Radiation Services, Inc. assumes no liability for the use or interpretation of any analytical results provided other than the cost of the analysis itself. Reproduction of this report in less than full requires the written consent of the client.

2614-16



2609 North River Road Port Allen, Louisiana 70767
1 (800) 401-4277 FAX (225) 381-2996

ARS Tracking Number: ARS040993
Client ID: 406059-014-014
Date Sampled: 6/3/04
Time Sampled: NA
Type of Sample: Solid

Request or PO Number: 406059
ARS Sample ID: ARS040993-3306
Date Received: 6/11/04
Time Received: 1020
Date of Report: 6/22/04

Analysis Description	Analysis Results	Analysis Error +/- 2 Sigma	MDC	Analysis Units	Analysis Test Method	Analysis Date / Time	Analysis Technician
RA-226	1.195	0.4460	0.166	pCi/g	EPA 901.1M	6/13/04 19:35	MS
Ra-228	1.426	0.1081	0.018	pCi/g	EPA 901.1M	6/13/04 19:35	MS
PB-210	1.413	0.3489	0.164	pCi/g	EPA 901.1M	6/13/04 19:35	MS
U-238	1.925	0.5888	0.262	pCi/g	EPA 901.1M	6/13/04 19:35	MS
K-40	1.996	0.2422	0.060	pCi/g	EPA 901.1M	6/13/04 19:35	MS
BI-214	1.040	0.0677	0.015	pCi/g	EPA 901.1M	6/13/04 19:35	MS
PB-212	1.727	0.0816	0.012	pCi/g	EPA 901.1M	6/13/04 19:35	MS
AM-241	0.006	0.0397	0.023	pCi/g	EPA 901.1M	6/13/04 19:35	MS
Total Activity	35.073	NA	NA	pCi/g	EPA 901.1M	6/13/04 19:35	MS
Percent Moisture	19.600	N/A	N/A	%	Other	6/13/04 19:35	JF

Notes: Project Number: Curtis Bay Army Depot

Quality Assurance Review

Notes: American Radiation Services, Inc. assumes no liability for the use or interpretation of any analytical results provided other than the cost of the analysis itself. Reproduction of this report in less than full requires the written consent of the client.

K614-17



2609 North River Road Port Allen, Louisiana 70767
1 (800) 401-4277 FAX (225) 381-2996

ARS Tracking Number: ARS040993
Client ID: 406059-015-015
Date Sampled: 6/3/04
Time Sampled: NA
Type of Sample: Solid

Request or PO Number: 406059
ARS Sample ID: ARS040993-3307
Date Received: 6/11/04
Time Received: 1020
Date of Report: 6/22/04

Analysis Description	Analysis Results	Analysis Error +/- 2 Sigma	MDC	Analysis Units	Analysis Test Method	Analysis Date / Time	Analysis Technician
RA-226	0.670	0.3703	0.135	pCi/g	EPA 901.1M	6/13/04 04:19	MS
Ra-228	1.185	0.1006	0.019	pCi/g	EPA 901.1M	6/13/04 04:19	MS
PB-210	1.491	0.3036	0.161	pCi/g	EPA 901.1M	6/13/04 04:19	MS
U-238	0.839	0.3729	0.204	pCi/g	EPA 901.1M	6/13/04 04:19	MS
K-40	4.819	0.3834	0.066	pCi/g	EPA 901.1M	6/13/04 04:19	MS
BI-214	0.650	0.0646	0.017	pCi/g	EPA 901.1M	6/13/04 04:19	MS
PB-212	1.430	0.0695	0.010	pCi/g	EPA 901.1M	6/13/04 04:19	MS
AM-241	0.005	0.0376	0.022	pCi/g	EPA 901.1M	6/13/04 04:19	MS
Total Activity	25.895	NA	NA	pCi/g	EPA 901.1M	6/13/04 04:19	MS
Percent Moisture	15.190	N/A	N/A	%	Moisture	6/13/04 04:19	JF

Notes: Project Number: Curtis Bay Army Depot

Quality Assurance Review

Notes: American Radiation Services, Inc. assumes no liability for the use or interpretation of any analytical results provided other than the cost of the analysis itself. Reproduction of this report in less than full requires the written consent of the client.

K614-18



2609 North River Road Port Allen, Louisiana 70767
1 (800) 401-4277 FAX (225) 381-2996

ARS Tracking Number: ARS040993 Request or PO Number: 406059
Client ID: 406059-016-016 ARS Sample ID: ARS040993-3308
Date Sampled: 6/3/04 Date Received: 6/11/04
Time Sampled: NA Time Received: 1020
Type of Sample: Solid Date of Report: 6/22/04

Analysis Description	Analysis Results	Analysis Error +/- 2 Sigma	MDC	Analysis Units	Analysis Test Method	Analysis Date / Time	Analysis Technician
RA-226	1.274	0.5441	0.197	pCi/g	EPA 901.1M	6/15/04 14:05	MS
Ra-228	1.808	0.1365	0.023	pCi/g	EPA 901.1M	6/15/04 14:05	MS
PB-210	2.632	0.4209	0.213	pCi/g	EPA 901.1M	6/15/04 14:05	MS
U-238	1.522	1.3567	0.267	pCi/g	EPA 901.1M	6/15/04 14:05	MS
K-40	5.336	0.4625	0.090	pCi/g	EPA 901.1M	6/15/04 14:05	MS
BI-214	1.146	0.0866	0.020	pCi/g	EPA 901.1M	6/15/04 14:05	MS
PB-212	2.238	0.1056	0.015	pCi/g	EPA 901.1M	6/15/04 14:05	MS
AM-241	-0.023	-0.0918	0.031	pCi/g	EPA 901.1M	6/15/04 14:05	MS
Total Activity	36.620	NA	NA	pCi/g	EPA 901.1M	6/15/04 14:05	MS
Percent Moisture	10.110	N/A	N/A	%	Moisture	6/15/04 14:05	JF

Notes: Project Number: Curtis Bay Army Depot

Quality Assurance Review

Notes: American Radiation Services, Inc. assumes no liability for the use or interpretation of any analytical results provided other than the cost of the analysis itself. Reproduction of this report in less than full requires the written consent of the client.

K613-01



2609 North River Road Port Allen, Louisiana 70767
1 (800) 401-4277 FAX (225) 381-2996

ARS Tracking Number: ARS041133
Client ID: 406128-042-042
Date Sampled: 6/9/04
Time Sampled: NA
Type of Sample: Solid

Request or PO Number: 406128
ARS Sample ID: ARS041133-3837
Date Received: 6/30/04
Time Received: 1100
Date of Report: 7/14/04

Analysis Description	Analysis Results	Analysis Error +/- 2 Sigma	MDC	Analysis Units	Analysis Test Method	Analysis Date / Time	Analysis Technician
RA-226	0.709	0.2923	0.102	pCi/g	EPA 901.1M	7/03/04 06:46	MS
Ra-228	0.820	0.0733	0.016	pCi/g	EPA 901.1M	7/03/04 06:46	MS
PB-210	0.843	0.2973	0.137	pCi/g	EPA 901.1M	7/03/04 06:46	MS
U-238	0.749	0.8973	0.156	pCi/g	EPA 901.1M	7/03/04 06:46	MS
K-40	3.439	0.2744	0.048	pCi/g	EPA 901.1M	7/03/04 06:46	MS
BI-214	0.483	0.0419	0.012	pCi/g	EPA 901.1M	7/03/04 06:46	MS
PB-212	0.918	0.0472	0.009	pCi/g	EPA 901.1M	7/03/04 06:46	MS
CS-137	0.112	0.0198	0.006	pCi/g	EPA 901.1M	7/03/04 06:46	MS
CO-60	-0.004	-0.0092	0.004	pCi/g	EPA 901.1M	7/03/04 06:46	MS
M-241	0.001	0.0297	0.017	pCi/g	EPA 901.1M	7/03/04 06:46	MS
Gamma Activity	18.832	NA	NA	pCi/g	EPA 901.1M	7/03/04 06:46	MS
Percent Moisture	14.740	N/A	N/A	%	Moisture	7/02/04 11:20	KB

Notes: Project Name: Curtis Bay Army Depot

Quality Assurance Review

Notes: American Radiation Services, Inc. assumes no liability for the use or interpretation of any analytical results provided other than the cost of the analysis itself. Reproduction of this report in less than full requires the written consent of the client.



2609 North River Road Port Allen, Louisiana 70767
1 (800) 401-4277 FAX (225) 381-2996

ARS Tracking Number: ARS041133

Request or PO Number: 406128

Client ID: 406128-043-043

ARS Sample ID: ARS041133-3838

Date Sampled: 6/9/04

Date Received: 6/30/04

Time Sampled: NA

Time Received: 1100

Type of Sample: Solid

Date of Report: 7/14/04

Analysis Description	Analysis Results	Analysis Error +/- 2 Sigma	MDC	Analysis Units	Analysis Test Method	Analysis Date / Time	Analysis Technician
RA-226	1.696	0.5392	0.192	pCi/g	EPA 901.1M	7/03/04 10:17	MS
Ra-228	1.862	0.1334	0.024	pCi/g	EPA 901.1M	7/03/04 10:17	MS
PB-210	1.211	0.3660	0.204	pCi/g	EPA 901.1M	7/03/04 10:17	MS
U-238	2.906	0.5485	0.183	pCi/g	EPA 901.1M	7/03/04 10:17	MS
K-40	3.312	0.3761	0.086	pCi/g	EPA 901.1M	7/03/04 10:17	MS
Bi-214	1.227	0.0813	0.017	pCi/g	EPA 901.1M	7/03/04 10:17	MS
PB-212	2.181	0.1022	0.014	pCi/g	EPA 901.1M	7/03/04 10:17	MS
CS-137	0.005	0.0192	0.011	pCi/g	EPA 901.1M	7/03/04 10:17	MS
CO-60	-0.002	-0.0274	0.008	pCi/g	EPA 901.1M	7/03/04 10:17	MS
Th-232	0.015	0.0481	0.028	pCi/g	EPA 901.1M	7/03/04 10:17	MS
Total Activity	36.495	NA	NA	pCi/g	EPA 901.1M	7/03/04 10:17	MS
Percent Moisture	7.268	N/A	N/A	%	Moisture	7/02/04 11:20	KB

Notes: Project Name: Curtis Bay Army Depot

Quality Assurance Review

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KG15-05



2609 North River Road Port Allen, Louisiana 70767
1 (800) 401-4277 FAX (225) 381-2996

ARS Tracking Number: ARS041133
Client ID: 406128-044-044
Date Sampled: 6/9/04
Time Sampled: NA
Type of Sample: Solid

Request or PO Number: 406128
ARS Sample ID: ARS041133-3839
Date Received: 6/30/04
Time Received: 1100
Date of Report: 7/14/04

Analysis Description	Analysis Results	Analysis Error +/- 2 Sigma	MDC	Analysis Units	Analysis Test Method	Analysis Date / Time	Analysis Technician
RA-226	1.880	0.3810	0.564	pCi/g	EPA 901.1M	7/10/04 14:09	MS
Ra-228	1.110	0.0646	0.178	pCi/g	EPA 901.1M	7/10/04 14:09	MS
PB-210	0.992	0.2510	0.592	pCi/g	EPA 901.1M	7/10/04 14:09	MS
U-238	2.190	0.9550	0.857	pCi/g	EPA 901.1M	7/10/04 14:09	MS
K-40	8.370	0.5400	0.257	pCi/g	EPA 901.1M	7/10/04 14:09	MS
BI-214	0.813	0.0510	0.055	pCi/g	EPA 901.1M	7/10/04 14:09	MS
PB-212	1.140	0.0518	0.286	pCi/g	EPA 901.1M	7/10/04 14:09	MS
AM-241	0.010	0.0700	0.093	pCi/g	EPA 901.1M	7/10/04 14:09	MS
Total Activity	17.652	NA	NA	pCi/g	EPA 901.1M	7/10/04 14:09	MS
Percent Moisture	19.460	N/A	N/A	%	Moisture	7/02/04 11:20	KB

Notes: Project Name: Curtis Bay Army Depot

Quality Assurance Review

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12613-007



2609 North River Road Port Allen, Louisiana 70767
1 (800) 401-4277 FAX (225) 381-2996

ARS Tracking Number: ARS041133
Client ID: 406128-045-045
Date Sampled: 6/9/04
Time Sampled: NA
Type of Sample: Solid

Request or PO Number: 406128
ARS Sample ID: ARS041133-3840
Date Received: 6/30/04
Time Received: 1100
Date of Report: 7/14/04

Analysis Description	Analysis Results	Analysis Error +/- 2 Sigma	MDC	Analysis Units	Analysis Test Method	Analysis Date / Time	Analysis Technician
RA-226	0.834	0.4399	0.158	pCi/g	EPA 901.1M	7/03/04 00:40	MS
Ra-228	1.599	0.1163	0.021	pCi/g	EPA 901.1M	7/03/04 00:40	MS
PB-210	1.691	0.3362	0.177	pCi/g	EPA 901.1M	7/03/04 00:40	MS
U-238	0.000	0.0000	0.239	pCi/g	EPA 901.1M	7/03/04 00:40	MS
K-40	4.113	0.3513	0.065	pCi/g	EPA 901.1M	7/03/04 00:40	MS
BI-214	0.932	0.0695	0.016	pCi/g	EPA 901.1M	7/03/04 00:40	MS
PB-212	1.842	0.0874	0.013	pCi/g	EPA 901.1M	7/03/04 00:40	MS
CS-137	0.276	0.0289	0.008	pCi/g	EPA 901.1M	7/03/04 00:40	MS
CO-60	0.001	0.0134	0.008	pCi/g	EPA 901.1M	7/03/04 00:40	MS
AM-241	0.013	0.0434	0.025	pCi/g	EPA 901.1M	7/03/04 00:40	MS
Total Activity	28.914	NA	NA	pCi/g	EPA 901.1M	7/03/04 00:40	MS
Percent Moisture	12.360	N/A	N/A	%	Moisture	7/02/04 11:20	KB

Notes: Project Name: Curtis Bay Army Depot

Quality Assurance Review

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K613-00



2609 North River Road Port Allen, Louisiana 70767

1 (800) 401-4277 FAX (225) 381-2996

ARS Tracking Number: ARS041133

Request or PO Number: 406128

Client ID: 406128-011-011

ARS Sample ID: ARS041133-3806

Date Sampled: 6/21/04

Date Received: 6/30/04

Time Sampled: NA

Time Received: 1100

Type of Sample: Solid

Date of Report: 7/14/04

Analysis Description	Analysis Results	Analysis Error +/- 2 Sigma	MDC	Analysis Units	Analysis Test Method	Analysis Date / Time	Analysis Technician
RA-226	0.541	0.5457	0.205	pCi/g	EPA 901.1M	7/08/04 16:52	MS
Ra-228	1.611	0.1073	0.023	pCi/g	EPA 901.1M	7/08/04 16:52	MS
PB-210	3.339	0.4633	0.225	pCi/g	EPA 901.1M	7/08/04 16:52	MS
U-238	1.547	0.7527	0.350	pCi/g	EPA 901.1M	7/08/04 16:52	MS
K-40	5.250	0.4838	0.095	pCi/g	EPA 901.1M	7/08/04 16:52	MS
BI-214	1.200	0.0920	0.024	pCi/g	EPA 901.1M	7/08/04 16:52	MS
PB-212	1.924	0.0955	0.015	pCi/g	EPA 901.1M	7/08/04 16:52	MS
CS-137	0.412	0.0397	0.011	pCi/g	EPA 901.1M	7/08/04 16:52	MS
CO-60	-0.001	-0.0252	0.012	pCi/g	EPA 901.1M	7/08/04 16:52	MS
M-241	0.008	0.0525	0.031	pCi/g	EPA 901.1M	7/08/04 16:52	MS
Total Activity	37.065	NA	NA	pCi/g	EPA 901.1M	7/08/04 16:52	MS
Percent Moisture	14.800	N/A	N/A	%	Moisture	7/02/04 11:20	KB

Notes: Project Name: Curtis Bay Army Depot

Quality Assurance Review

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12615-06



2609 North River Road Port Allen, Louisiana 70767
1 (800) 401-4277 FAX (225) 381-2996

ARS Tracking Number: ARS041133

Request or PO Number: 406128

Client ID: 406128-046-046

ARS Sample ID: ARS041133-3841

Date Sampled: 6/9/04

Date Received: 6/30/04

Time Sampled: NA

Time Received: 1100

Type of Sample: Solid

Date of Report: 7/14/04

Analysis Description	Analysis Results	Analysis Error +/- 2 Sigma	MDC	Analysis Units	Analysis Test Method	Analysis Date / Time	Analysis Technician
RA-226	0.197	0.3617	0.141	pCi/g	EPA 901.1M	7/03/04 17:39	EAM
Ra-228	0.799	0.0850	0.018	pCi/g	EPA 901.1M	7/03/04 17:39	EAM
PB-210	1.110	0.3793	0.171	pCi/g	EPA 901.1M	7/03/04 17:39	EAM
U-238	0.761	0.6218	0.196	pCi/g	EPA 901.1M	7/03/04 17:39	EAM
K-40	4.792	0.3716	0.059	pCi/g	EPA 901.1M	7/03/04 17:39	EAM
BI-214	0.579	0.0504	0.014	pCi/g	EPA 901.1M	7/03/04 17:39	EAM
PB-212	0.946	0.0521	0.010	pCi/g	EPA 901.1M	7/03/04 17:39	EAM
CS-137	0.124	0.0185	0.005	pCi/g	EPA 901.1M	7/03/04 17:39	EAM
CO-60	-0.003	-0.0655	0.007	pCi/g	EPA 901.1M	7/03/04 17:39	EAM
U-234	-0.015	-0.0731	0.020	pCi/g	EPA 901.1M	7/03/04 17:39	EAM
Total Activity	19.057	NA	NA	pCi/g	EPA 901.1M	7/03/04 17:39	EAM
Percent Moisture	11.650	N/A	N/A	%	Moisture	7/02/04 11:20	KB

Notes: Project Name: Curtis Bay Army Depot

Quality Assurance Review

Notes: American Radiation Services, Inc. assumes no liability for the use or interpretation of any analytical results provided other than the cost of the analysis itself. Reproduction of this report in less than full requires the written consent of the client.

KG15-07



2609 North River Road Port Allen, Louisiana 70767
1 (800) 401-4277 FAX (225) 381-2996

ARS Tracking Number: ARS041133
Client ID: 406128-047-047
Date Sampled: 6/9/04
Time Sampled: NA
Type of Sample: Solid

Request or PO Number: 406128
ARS Sample ID: ARS041133-3842
Date Received: 6/30/04
Time Received: 1100
Date of Report: 7/14/04

Analysis Description	Analysis Results	Analysis Error +/- 2 Sigma	MDC	Analysis Units	Analysis Test Method	Analysis Date / Time	Analysis Technician
RA-226	1.649	0.4370	0.143	pCi/g	EPA 901.1M	7/14/04 01:48	CS
Ra-228	0.698	0.0945	0.024	pCi/g	EPA 901.1M	7/14/04 01:48	CS
PB-210	0.660	0.4440	0.216	pCi/g	EPA 901.1M	7/14/04 01:48	CS
U-238	0.000	0.0000	0.274	pCi/g	EPA 901.1M	7/14/04 01:48	CS
K-40	3.659	0.4154	0.080	pCi/g	EPA 901.1M	7/14/04 01:48	CS
Bi-214	0.518	0.0638	0.019	pCi/g	EPA 901.1M	7/14/04 01:48	CS
PB-212	0.826	0.0570	0.013	pCi/g	EPA 901.1M	7/14/04 01:48	CS
AM-241	-0.001	-0.0612	0.026	pCi/g	EPA 901.1M	7/14/04 01:48	CS
Total Activity	16.638	NA	NA	pCi/g	EPA 901.1M	7/14/04 01:48	CS
Percent Moisture	15.600	N/A	N/A	%	Moisture	7/02/04 11:20	KB

Notes: Project Name: Curtis Bay Army Depot

Quality Assurance Review

Notes: American Radiation Services, Inc. assumes no liability for the use or interpretation of any analytical results provided other than the cost of the analysis itself. Reproduction of this report in less than full requires the written consent of the client.

R-15-00



2609 North River Road Port Allen, Louisiana 70767

1 (800) 401-4277 FAX (225) 381-2996

ARS Tracking Number: ARS041133

Request or PO Number: 406128

Client ID: 406128-048-048

ARS Sample ID: ARS041133-3843

Date Sampled: 6/9/04

Date Received: 6/30/04

Time Sampled: NA

Time Received: 1100

Type of Sample: Solid

Date of Report: 7/14/04

Analysis Description	Analysis Results	Analysis Error +/- 2 Sigma	MDC	Analysis Units	Analysis Test Method	Analysis Date / Time	Analysis Technician
RA-226	1.658	0.5994	0.214	pCi/g	EPA 901.1M	7/03/04 19:42	EAM
Ra-228	2.412	0.1559	0.023	pCi/g	EPA 901.1M	7/03/04 19:42	EAM
PB-210	2.540	0.4491	0.232	pCi/g	EPA 901.1M	7/03/04 19:42	EAM
U-238	2.121	0.6933	0.314	pCi/g	EPA 901.1M	7/03/04 19:42	EAM
K-40	4.604	0.4147	0.107	pCi/g	EPA 901.1M	7/03/04 19:42	EAM
BI-214	1.397	0.1002	0.023	pCi/g	EPA 901.1M	7/03/04 19:42	EAM
PB-212	2.949	0.1347	0.016	pCi/g	EPA 901.1M	7/03/04 19:42	EAM
CS-137	0.242	0.0445	0.012	pCi/g	EPA 901.1M	7/03/04 19:42	EAM
CO-60	-0.012	-0.0677	0.012	pCi/g	EPA 901.1M	7/03/04 19:42	EAM
AM-241	-0.014	-0.1676	0.034	pCi/g	EPA 901.1M	7/03/04 19:42	EAM
Total Activity	39.740	NA	NA	pCi/g	EPA 901.1M	7/03/04 19:42	EAM
Percent Moisture	9.538	N/A	N/A	%	Moisture	7/02/04 11:20	KB

Notes: Project Name: Curtis Bay Army Depot

Quality Assurance Review

Notes: American Radiation Services, Inc. assumes no liability for the use or interpretation of any analytical results provided other than the cost of the analysis itself. Reproduction of this report in less than full requires the written consent of the client.

K615-07



2609 North River Road Port Allen, Louisiana 70767

1 (800) 401-4277 FAX (225) 381-2996

ARS Tracking Number: ARS041133

Request or PO Number: 406128

Client ID: 406128-012-012

ARS Sample ID: ARS041133-3807

Date Sampled: 6/21/04

Date Received: 6/30/04

Time Sampled: NA

Time Received: 1100

Type of Sample: Solid

Date of Report: 7/14/04

Analysis Description	Analysis Results	Analysis Error +/- 2 Sigma	MDC	Analysis Units	Analysis Test Method	Analysis Date / Time	Analysis Technician
RA-226	1.669	0.6513	0.240	pCi/g	EPA 901.1M	7/09/04 08:47	MS
Ra-228	2.447	0.1815	0.033	pCi/g	EPA 901.1M	7/09/04 08:47	MS
PB-210	2.031	0.4633	0.250	pCi/g	EPA 901.1M	7/09/04 08:47	MS
U-238	1.857	0.8699	0.524	pCi/g	EPA 901.1M	7/09/04 08:47	MS
K-40	4.915	0.4853	0.107	pCi/g	EPA 901.1M	7/09/04 08:47	MS
BI-214	1.734	0.1100	0.025	pCi/g	EPA 901.1M	7/09/04 08:47	MS
PB-212	3.139	0.1421	0.017	pCi/g	EPA 901.1M	7/09/04 08:47	MS
CS-137	0.128	0.0269	0.010	pCi/g	EPA 901.1M	7/09/04 08:47	MS
CO-60	-0.010	-0.0993	0.012	pCi/g	EPA 901.1M	7/09/04 08:47	MS
^M-241	0.016	0.0608	0.035	pCi/g	EPA 901.1M	7/09/04 08:47	MS
Total Activity	49.659	NA	NA	pCi/g	EPA 901.1M	7/09/04 08:47	MS
Percent Moisture	6.250	N/A	N/A	%	Moisture	7/02/04 11:20	KB

Notes: Project Name: Curtis Bay Army Depot

Quality Assurance Review

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12615-10



2609 North River Road Port Allen, Louisiana 70767
1 (800) 401-4277 FAX (225) 381-2996

ARS Tracking Number: ARS041133

Request or PO Number: 406128

Client ID: 406128-049-049

ARS Sample ID: ARS041133-3844

Date Sampled: 6/9/04

Date Received: 6/30/04

Time Sampled: NA

Time Received: 1100

Type of Sample: Solid

Date of Report: 7/14/04

Analysis Description	Analysis Results	Analysis Error +/- 2 Sigma	MDC	Analysis Units	Analysis Test Method	Analysis Date / Time	Analysis Technician
RA-226	0.762	0.3698	0.124	pCi/g	EPA 901.1M	7/02/04 16:46	EAM
Ra-228	0.819	0.0849	0.018	pCi/g	EPA 901.1M	7/02/04 16:46	EAM
PB-210	1.136	0.2931	0.160	pCi/g	EPA 901.1M	7/02/04 16:46	EAM
U-238	2.658	0.3543	0.243	pCi/g	EPA 901.1M	7/02/04 16:46	EAM
K-40	4.594	0.4013	0.077	pCi/g	EPA 901.1M	7/02/04 16:46	EAM
BI-214	0.519	0.0597	0.018	pCi/g	EPA 901.1M	7/02/04 16:46	EAM
PB-212	0.894	0.0512	0.010	pCi/g	EPA 901.1M	7/02/04 16:46	EAM
CS-137	0.035	0.0163	0.009	pCi/g	EPA 901.1M	7/02/04 16:46	EAM
CO-60	-0.005	-0.1535	0.008	pCi/g	EPA 901.1M	7/02/04 16:46	EAM
AM-241	0.005	0.0369	0.021	pCi/g	EPA 901.1M	7/02/04 16:46	EAM
total Activity	19.165	NA	NA	pCi/g	EPA 901.1M	7/02/04 16:46	EAM
Percent Moisture	11.960	N/A	N/A	%	Moisture	7/02/04 11:20	KB

Notes: Project Name: Curtis Bay Army Depot

Quality Assurance Review

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2612 71



2609 North River Road Port Allen, Louisiana 70767
1 (800) 401-4277 FAX (225) 331-2996

ARS Tracking Number: ARS041133
Client ID: 406128-050-050
Date Sampled: 6/9/04
Time Sampled: NA
Type of Sample: Solid

Request or PO Number: 406128
ARS Sample ID: ARS041133-3845
Date Received: 6/30/04
Time Received: 1100
Date of Report: 7/14/04

Analysis Description	Analysis Results	Analysis Error +/- 2 Sigma	MDC	Analysis Units	Analysis Test Method	Analysis Date / Time	Analysis Technician
RA-226	2.020	0.4730	0.721	pCi/g	EPA 901.1M	7/10/04 16:18	MS
Ra-228	0.788	0.0568	0.146	pCi/g	EPA 901.1M	7/10/04 16:18	MS
PB-210	0.752	0.3870	0.618	pCi/g	EPA 901.1M	7/10/04 16:18	MS
U-238	1.460	0.8820	0.787	pCi/g	EPA 901.1M	7/10/04 16:18	MS
K-40	6.100	0.4450	0.229	pCi/g	EPA 901.1M	7/10/04 16:18	MS
BI-214	0.628	0.0449	0.046	pCi/g	EPA 901.1M	7/10/04 16:18	MS
PB-212	0.881	0.0452	0.247	pCi/g	EPA 901.1M	7/10/04 16:18	MS
AM-241	-0.055	0.0658	0.085	pCi/g	EPA 901.1M	7/10/04 16:18	MS
Total Activity	13.569	NA	NA	pCi/g	EPA 901.1M	7/10/04 16:18	MS
Percent Moisture	10.790	N/A	N/A	%	Moisture	7/02/04 11:20	KB

Notes: Project Name: Curtis Bay Army Depot

Quality Assurance Review

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KG-15-12



2609 North River Road Port Allen, Louisiana 70767
1 (800) 401-4277 FAX (225) 381-2996

ARS Tracking Number: ARS041133
Client ID: 406128-051-051
Date Sampled: 6/9/04
Time Sampled: NA
Type of Sample: Solid

Request or PO Number: 406128
ARS Sample ID: ARS041133-3846
Date Received: 6/30/04
Time Received: 1100
Date of Report: 7/14/04

Analysis Description	Analysis Results	Analysis Error +/- 2 Sigma	MDC	Analysis Units	Analysis Test Method	Analysis Date / Time	Analysis Technician
RA-226	2.690	0.6330	0.963	pCi/g	EPA 901.1M	7/10/04 22:40	MS
Ra-228	1.140	0.0712	0.644	pCi/g	EPA 901.1M	7/10/04 22:40	MS
PB-210	2.290	0.3860	0.834	pCi/g	EPA 901.1M	7/10/04 22:40	MS
U-238	1.990	1.2100	1.080	pCi/g	EPA 901.1M	7/10/04 22:40	MS
K-40	3.780	0.3930	0.303	pCi/g	EPA 901.1M	7/10/04 22:40	MS
BI-214	0.978	0.0635	0.064	pCi/g	EPA 901.1M	7/10/04 22:40	MS
PB-212	1.140	0.0566	0.247	pCi/g	EPA 901.1M	7/10/04 22:40	MS
AM-241	0.044	0.0963	0.118	pCi/g	EPA 901.1M	7/10/04 22:40	MS
Total Activity	15.148	NA	NA	pCi/g	EPA 901.1M	7/10/04 22:40	MS
Percent Moisture	16.610	N/A	N/A	%	Moisture	7/02/04 11:20	KB

Notes: Project Name: Curtis Bay Army Depot

Quality Assurance Review

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K615-13



2609 North River Road Port Allen, Louisiana 70767

1 (800) 401-4277 FAX (225) 381-2996

ARS Tracking Number: ARS041133

Request or PO Number: 406128

Client ID: 406128-052-052

ARS Sample ID: ARS041133-3847

Date Sampled: 6/9/04

Date Received: 6/30/04

Time Sampled: NA

Time Received: 1100

Type of Sample: Solid

Date of Report: 7/14/04

Analysis Description	Analysis Results	Analysis Error +/- 2 Sigma	MDC	Analysis Units	Analysis Test Method	Analysis Date / Time	Analysis Technician
RA-226	0.850	0.4434	0.155	pCi/g	EPA 901.1M	7/09/04 12:56	MS
Ra-228	1.192	0.1086	0.021	pCi/g	EPA 901.1M	7/09/04 12:56	MS
PB-210	2.800	0.5287	0.215	pCi/g	EPA 901.1M	7/09/04 12:56	MS
U-238	0.734	0.9859	0.249	pCi/g	EPA 901.1M	7/09/04 12:56	MS
K-40	4.124	0.3585	0.066	pCi/g	EPA 901.1M	7/09/04 12:56	MS
BI-214	0.961	0.0784	0.019	pCi/g	EPA 901.1M	7/09/04 12:56	MS
PB-212	1.376	0.0712	0.012	pCi/g	EPA 901.1M	7/09/04 12:56	MS
CS-137	0.356	0.0303	0.007	pCi/g	EPA 901.1M	7/09/04 12:56	MS
CO-60	0.000	0.0135	0.008	pCi/g	EPA 901.1M	7/09/04 12:56	MS
M-241	0.000	0.0437	0.026	pCi/g	EPA 901.1M	7/09/04 12:56	MS
Total Activity	29.465	NA	NA	pCi/g	EPA 901.1M	7/09/04 12:56	MS
Percent Moisture	12.070	N/A	N/A	%	Moisture	7/02/04 11:20	KB

Notes: Project Name: Curtis Bay Army Depot

Quality Assurance Review

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K615-14



2609 North River Road Port Allen, Louisiana 70767
1 (800) 401-4277 FAX (225) 331-2996

ARS Tracking Number: ARS041133
Client ID: 406128-053-053
Date Sampled: 6/9/04
Time Sampled: NA
Type of Sample: Solid

Request or PO Number: 406128
ARS Sample ID: ARS041133-3848
Date Received: 6/30/04
Time Received: 1100
Date of Report: 7/14/04

Analysis Description	Analysis Results	Analysis Error +/- 2 Sigma	MDC	Analysis Units	Analysis Test Method	Analysis Date / Time	Analysis Technician
RA-226	0.815	0.3969	0.140	pCi/g	EPA 901.1M	7/02/04 14:40	MS
Ra-228	0.803	0.0848	0.018	pCi/g	EPA 901.1M	7/02/04 14:40	MS
PB-210	1.238	0.3068	0.167	pCi/g	EPA 901.1M	7/02/04 14:40	MS
U-238	0.569	0.8328	0.214	pCi/g	EPA 901.1M	7/02/04 14:40	MS
K-40	5.536	0.4440	0.076	pCi/g	EPA 901.1M	7/02/04 14:40	MS
BI-214	0.492	0.0540	0.017	pCi/g	EPA 901.1M	7/02/04 14:40	MS
PB-212	0.904	0.0527	0.011	pCi/g	EPA 901.1M	7/02/04 14:40	MS
CS-137	0.057	0.0169	0.006	pCi/g	EPA 901.1M	7/02/04 14:40	MS
CO-60	-0.006	-0.0001	0.004	pCi/g	EPA 901.1M	7/02/04 14:40	MS
AM-241	-0.011	-0.1318	0.022	pCi/g	EPA 901.1M	7/02/04 14:40	MS
total Activity	19.706	NA	NA	pCi/g	EPA 901.1M	7/02/04 14:40	MS
Percent Moisture	13.310	N/A	N/A	%	Moisture	7/02/04 11:20	KB

Notes: Project Name: Curtis Bay Army Depot

Quality Assurance Review

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K615-13



2609 North River Road Port Allen, Louisiana 70767
1 (800) 401-4277 FAX (225) 381-2996

ARS Tracking Number: ARS041133 Request or PO Number: 406128
Client ID: 406128-054-054 ARS Sample ID: ARS041133-3849
Date Sampled: 6/9/04 Date Received: 6/30/04
Time Sampled: NA Time Received: 1100
Type of Sample: Solid Date of Report: 7/14/04

Analysis Description	Analysis Results	Analysis Error +/- 2 Sigma	MDC	Analysis Units	Analysis Test Method	Analysis Date / Time	Analysis Technician
RA-226	3.206	0.4238	0.209	pCi/g	EPA 901.1M	7/06/04 13:32	MS
Ra-228	1.769	0.1269	0.024	pCi/g	EPA 901.1M	7/06/04 13:32	MS
PB-210	1.391	0.3521	0.192	pCi/g	EPA 901.1M	7/06/04 13:32	MS
U-238	0.000	0.0000	0.257	pCi/g	EPA 901.1M	7/06/04 13:32	MS
K-40	3.713	0.3380	0.091	pCi/g	EPA 901.1M	7/06/04 13:32	MS
BI-214	1.200	0.0807	0.018	pCi/g	EPA 901.1M	7/06/04 13:32	MS
PB-212	2.213	0.1026	0.014	pCi/g	EPA 901.1M	7/06/04 13:32	MS
CS-137	0.119	0.0209	0.008	pCi/g	EPA 901.1M	7/06/04 13:32	MS
CO-60	-0.008	-0.0869	0.010	pCi/g	EPA 901.1M	7/06/04 13:32	MS
AM-241	-0.004	-0.3326	0.029	pCi/g	EPA 901.1M	7/06/04 13:32	MS
al Activity	30.208	NA	NA	pCi/g	EPA 901.1M	7/06/04 13:32	MS
Percent Moisture	5.202	N/A	N/A	%	Moisture	7/02/04 11:20	KB

Notes: Project Name: Curtis Bay Army Depot

Quality Assurance Review

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12615-16



2609 North River Road Port Allen, Louisiana 70767
1 (800) 401-4277 FAX (225) 381-2996

ARS Tracking Number: ARS041133
Client ID: 406128-013-013
Date Sampled: 6/21/04
Time Sampled: NA
Type of Sample: Solid

Request or PO Number: 406128
ARS Sample ID: ARS041133-3808
Date Received: 6/30/04
Time Received: 1100
Date of Report: 7/14/04

Analysis Description	Analysis Results	Analysis Error +/- 2 Sigma	MDC	Analysis Units	Analysis Test Method	Analysis Date / Time	Analysis Technician
RA-226	1.072	0.5739	0.213	pCi/g	EPA 901.1M	7/07/04 09:58	MS
Ra-228	2.408	0.1726	0.030	pCi/g	EPA 901.1M	7/07/04 09:58	MS
PB-210	2.139	0.4385	0.233	pCi/g	EPA 901.1M	7/07/04 09:58	MS
U-238	1.686	0.7829	0.326	pCi/g	EPA 901.1M	7/07/04 09:58	MS
K-40	5.143	0.4896	0.101	pCi/g	EPA 901.1M	7/07/04 09:58	MS
BI-214	1.637	0.1072	0.024	pCi/g	EPA 901.1M	7/07/04 09:58	MS
PB-212	3.015	0.1358	0.015	pCi/g	EPA 901.1M	7/07/04 09:58	MS
CS-137	0.076	0.0253	0.013	pCi/g	EPA 901.1M	7/07/04 09:58	MS
CO-60	-0.007	-0.3938	0.012	pCi/g	EPA 901.1M	7/07/04 09:58	MS
AM-241	-0.022	-0.1048	0.033	pCi/g	EPA 901.1M	7/07/04 09:58	MS
Total Activity	44.456	NA	NA	pCi/g	EPA 901.1M	7/07/04 09:58	MS
Percent Moisture	8.608	N/A	N/A	%	Moisture	7/02/04 11:20	KB

Notes: Project Name: Curtis Bay Army Depot

Quality Assurance Review

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K615-17



2609 North River Road Port Allen, Louisiana 70767
1 (800) 401-4277 FAX (225) 381-2996

ARS Tracking Number: ARS041133
Client ID: 406128-055-055
Date Sampled: 6/9/04
Time Sampled: NA
Type of Sample: Solid

Request or PO Number: 406128
ARS Sample ID: ARS041133-3850
Date Received: 6/30/04
Time Received: 1100
Date of Report: 7/14/04

Analysis Description	Analysis Results	Analysis Error +/- 2 Sigma	MDC	Analysis Units	Analysis Test Method	Analysis Date / Time	Analysis Technician
RA-226	0.421	0.4416	0.163	pCi/g	EPA 901.1M	7/03/04 15:36	EAM
Ra-228	0.801	0.0859	0.019	pCi/g	EPA 901.1M	7/03/04 15:36	EAM
PB-210	2.064	0.3850	0.199	pCi/g	EPA 901.1M	7/03/04 15:36	EAM
U-238	1.040	0.7280	0.275	pCi/g	EPA 901.1M	7/03/04 15:36	EAM
K-40	5.777	0.4977	0.091	pCi/g	EPA 901.1M	7/03/04 15:36	EAM
BI-214	0.570	0.0676	0.020	pCi/g	EPA 901.1M	7/03/04 15:36	EAM
PB-212	0.952	0.0578	0.013	pCi/g	EPA 901.1M	7/03/04 15:36	EAM
CS-137	0.403	0.0338	0.007	pCi/g	EPA 901.1M	7/03/04 15:36	EAM
CO-60	0.007	0.0158	0.009	pCi/g	EPA 901.1M	7/03/04 15:36	EAM
M-241	-0.010	-0.2466	0.025	pCi/g	EPA 901.1M	7/03/04 15:36	EAM
Total Activity	22.386	NA	NA	pCi/g	EPA 901.1M	7/03/04 15:36	EAM
Percent Moisture	18.690	N/A	N/A	%	Moisture	7/02/04 11:20	KB

Notes: Project Name: Curtis Bay Army Depot

Quality Assurance Review

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K 615-10



2609 North River Road Port Allen, Louisiana 70767

1 (800) 401-4277 FAX (225) 381-2996

ARS Tracking Number: ARS041134

Request or PO Number: 406153

Client ID: 406153-061-061

ARS Sample ID: ARS041134-3911

Date Sampled: 6/22/04

Date Received: 6/30/04

Time Sampled: NA

Time Received: 1100

Type of Sample: Solid

Date of Report: 7/19/04

Analysis Description	Analysis Results	Analysis Error +/- 2 Sigma	MDC	Analysis Units	Analysis Test Method	Analysis Date / Time	Analysis Technician
RA-226	1.633	0.7163	0.251	pCi/g	EPA 901.1M	7/17/04 14:14	BJD
Ra-228	2.209	0.1857	0.028	pCi/g	EPA 901.1M	7/17/04 14:14	BJD
PB-210	1.285	0.5419	0.267	pCi/g	EPA 901.1M	7/17/04 14:14	BJD
U-238	1.683	1.6891	0.431	pCi/g	EPA 901.1M	7/17/04 14:14	BJD
K-40	3.869	0.4575	1.290	pCi/g	EPA 901.1M	7/17/04 14:14	BJD
BI-214	1.317	0.1091	0.026	pCi/g	EPA 901.1M	7/17/04 14:14	BJD
PB-212	2.603	0.1312	0.020	pCi/g	EPA 901.1M	7/17/04 14:14	BJD
CS-137	0.073	0.0304	0.016	pCi/g	EPA 901.1M	7/17/04 14:14	BJD
CO-60	-0.005	-11.4850	0.013	pCi/g	EPA 901.1M	7/17/04 14:14	BJD
1-241	-0.005	-1.8138	0.040	pCi/g	EPA 901.1M	7/17/04 14:14	BJD
Cal Activity	34.782	NA	NA	pCi/g	EPA 901.1M	7/17/04 14:14	BJD
Percent Moisture	7.332	N/A	N/A	%	Moisture	7/07/04 08:20	KB

Notes: Project Name: Curtis Bay Army Depot

Quality Assurance Review

Notes: American Radiation Services, Inc. assumes no liability for the use or interpretation of any analytical results provided other than the cost of the analysis itself. Reproduction of this report in less than full requires the written consent of the client.

406128-016



2609 North River Road Port Allen, Louisiana 70767
1 (800) 401-4277 FAX (225) 381-2996

ARS Tracking Number: ARS041133
Client ID: 406128-016-016
Date Sampled: 6/18/04
Time Sampled: NA
Type of Sample: Solid

Request or PO Number: 406128
ARS Sample ID: ARS041133-3811
Date Received: 6/30/04
Time Received: 1100
Date of Report: 7/14/04

Analysis Description	Analysis Results	Analysis Error +/- 2 Sigma	MDC	Analysis Units	Analysis Test Method	Analysis Date / Time	Analysis Technician
RA-226	3.774	0.4428	0.212	pCi/g	EPA 901.1M	7/08/04 11:52	MS
Ra-228	1.542	0.1290	0.024	pCi/g	EPA 901.1M	7/08/04 11:52	MS
PB-210	1.355	0.3570	0.196	pCi/g	EPA 901.1M	7/08/04 11:52	MS
U-238	1.462	0.8711	0.279	pCi/g	EPA 901.1M	7/08/04 11:52	MS
K-40	2.563	0.3051	0.077	pCi/g	EPA 901.1M	7/08/04 11:52	MS
BI-214	1.420	0.0898	0.018	pCi/g	EPA 901.1M	7/08/04 11:52	MS
PB-212	1.865	0.0898	0.014	pCi/g	EPA 901.1M	7/08/04 11:52	MS
CS-137	0.036	0.0191	0.010	pCi/g	EPA 901.1M	7/08/04 11:52	MS
CO-60	-0.006	-0.1781	0.009	pCi/g	EPA 901.1M	7/08/04 11:52	MS
AM-241	-0.004	-0.3279	0.027	pCi/g	EPA 901.1M	7/08/04 11:52	MS
Total Activity	34.700	NA	NA	pCi/g	EPA 901.1M	7/08/04 11:52	MS
Percent Moisture	12.630	N/A	N/A	%	Moisture	7/02/04 11:20	KB

Notes: Project Name: Curtis Bay Army Depot

Quality Assurance Review

Notes: American Radiation Services, Inc. assumes no liability for the use or interpretation of any analytical results provided other than the cost of the analysis itself. Reproduction of this report in less than full requires the written consent of the client.



2609 North River Road Port Allen, Louisiana 70767
1 (800) 401-4277 FAX (225) 381-2996

ARS Tracking Number: ARS041133
Client ID: 406128-017-017
Date Sampled: 6/18/04
Time Sampled: NA
Type of Sample: Solid

Request or PO Number: 406128
ARS Sample ID: ARS041133-3812
Date Received: 6/30/04
Time Received: 1100
Date of Report: 7/14/04

Analysis Description	Analysis Results	Analysis Error +/- 2 Sigma	MDC	Analysis Units	Analysis Test Method	Analysis Date / Time	Analysis Technician
RA-226	2.395	0.3440	0.170	pCi/g	EPA 901.1M	7/02/04 08:25	MS
Ra-228	1.210	0.0994	0.021	pCi/g	EPA 901.1M	7/02/04 08:25	MS
PB-210	1.434	0.3021	0.160	pCi/g	EPA 901.1M	7/02/04 08:25	MS
U-238	1.358	0.4903	0.247	pCi/g	EPA 901.1M	7/02/04 08:25	MS
K-40	3.562	0.3363	0.072	pCi/g	EPA 901.1M	7/02/04 08:25	MS
BI-214	0.695	0.0553	0.015	pCi/g	EPA 901.1M	7/02/04 08:25	MS
PB-212	1.506	0.0733	0.011	pCi/g	EPA 901.1M	7/02/04 08:25	MS
CS-137	0.114	0.0181	0.006	pCi/g	EPA 901.1M	7/02/04 08:25	MS
CO-60	0.003	0.0126	0.007	pCi/g	EPA 901.1M	7/02/04 08:25	MS
AM-241	-0.005	-0.8774	0.023	pCi/g	EPA 901.1M	7/02/04 08:25	MS
Total Activity	27.307	NA	NA	pCi/g	EPA 901.1M	7/02/04 08:25	MS
Percent Moisture	16.300	N/A	N/A	%	Moisture	7/02/04 11:20	KB

Notes: Project Name: Curtis Bay Army Depot

Quality Assurance Review

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2609 North River Road Port Allen, Louisiana 70767
1 (800) 401-4277 FAX (225) 381-2996

ARS Tracking Number: ARS041134

Request or PO Number: 406153

Client ID: 406153-019-019

ARS Sample ID: ARS041134-3869

Date Sampled: 6/23/04

Date Received: 6/30/04

Time Sampled: NA

Time Received: 1100

Type of Sample: Solid

Date of Report: 7/19/04

Analysis Description	Analysis Results	Analysis Error +/- 2 Sigma	MDC	Analysis Units	Analysis Test Method	Analysis Date / Time	Analysis Technician
RA-226	1.053	0.3194	0.166	pCi/g	EPA 901.1M	7/14/04 07:16	CSG
Ra-228	0.484	0.0574	0.021	pCi/g	EPA 901.1M	7/14/04 07:16	CSG
PB-210	0.929	0.3695	0.174	pCi/g	EPA 901.1M	7/14/04 07:16	CSG
U-238	0.000	0.0000	0.208	pCi/g	EPA 901.1M	7/14/04 07:16	CSG
K-40	3.820	0.3751	0.060	pCi/g	EPA 901.1M	7/14/04 07:16	CSG
BI-214	0.480	0.0549	0.015	pCi/g	EPA 901.1M	7/14/04 07:16	CSG
PB-212	0.626	0.0446	0.011	pCi/g	EPA 901.1M	7/14/04 07:16	CSG
CS-137	0.006	0.0139	0.008	pCi/g	EPA 901.1M	7/14/04 07:16	CSG
CO-60	-0.004	-0.4976	0.008	pCi/g	EPA 901.1M	7/14/04 07:16	CSG
AM-241	-0.003	-0.5500	0.023	pCi/g	EPA 901.1M	7/14/04 07:16	CSG
Total Activity	12.003	NA	NA	pCi/g	EPA 901.1M	7/14/04 07:16	CSG
Percent Moisture	14.580	N/A	N/A	%	Moisture	7/07/04 08:20	KB

Notes: Project Name: Curtis Bay Army Depot

Quality Assurance Review

Notes: American Radiation Services, Inc. assumes no liability for the use or interpretation of any analytical results provided other than the cost of the analysis itself. Reproduction of this report in less than full requires the written consent of the client.



2609 North River Road Port Allen, Louisiana 70767
1 (800) 401-4277 FAX (225) 381-2996

ARS Tracking Number: ARS041134
Client ID: 406153-020-020
Date Sampled: 6/23/04
Time Sampled: NA
Type of Sample: Solid

Request or PO Number: 406153
ARS Sample ID: ARS041134-3870
Date Received: 6/30/04
Time Received: 1100
Date of Report: 7/19/04

Analysis Description	Analysis Results	Analysis Error +/- 2 Sigma	MDC	Analysis Units	Analysis Test Method	Analysis Date / Time	Analysis Technician
RA-226	0.205	0.4234	0.158	pCi/g	EPA 901.1M	7/14/04 09:27	MS
Ra-228	0.978	0.0915	0.018	pCi/g	EPA 901.1M	7/14/04 09:27	MS
PB-210	0.866	0.3403	0.189	pCi/g	EPA 901.1M	7/14/04 09:27	MS
U-238	0.000	0.0000	0.238	pCi/g	EPA 901.1M	7/14/04 09:27	MS
K-40	4.474	0.3717	0.056	pCi/g	EPA 901.1M	7/14/04 09:27	MS
BI-214	0.482	0.0497	0.015	pCi/g	EPA 901.1M	7/14/04 09:27	MS
PB-212	1.063	0.0482	0.012	pCi/g	EPA 901.1M	7/14/04 09:27	MS
CS-137	0.026	0.0180	0.010	pCi/g	EPA 901.1M	7/14/04 09:27	MS
CO-60	-0.007	-0.0522	0.009	pCi/g	EPA 901.1M	7/14/04 09:27	MS
AM-241	-0.015	-0.0820	0.027	pCi/g	EPA 901.1M	7/14/04 09:27	MS
Total Activity	15.067	NA	NA	pCi/g	EPA 901.1M	7/14/04 09:27	MS
Percent Moisture	16.040	N/A	N/A	%	Moisture	7/07/04 08:20	KB

Notes: Project Name: Curtis Bay Army Depot

Quality Assurance Review

Notes: American Radiation Services, Inc. assumes no liability for the use or interpretation of any analytical results provided other than the cost of the analysis itself. Reproduction of this report in less than full requires the written consent of the client.



2609 North River Road Port Allen, Louisiana 70767

1 (800) 401-4277 FAX (225) 381-2996

ARS Tracking Number: ARS041133

Request or PO Number: 406128

Client ID: 406128-018-018

ARS Sample ID: ARS041133-3813

Date Sampled: 6/18/04

Date Received: 6/30/04

Time Sampled: NA

Time Received: 1100

Type of Sample: Solid

Date of Report: 7/14/04

Analysis Description	Analysis Results	Analysis Error +/- 2 Sigma	MDC	Analysis Units	Analysis Test Method	Analysis Date / Time	Analysis Technician
RA-226	1.794	0.5393	0.190	pCi/g	EPA 901.1M	7/03/04 04:22	MS
Ra-228	2.453	0.1614	0.026	pCi/g	EPA 901.1M	7/03/04 04:22	MS
PB-210	1.934	0.3886	0.207	pCi/g	EPA 901.1M	7/03/04 04:22	MS
U-238	1.879	0.7846	0.280	pCi/g	EPA 901.1M	7/03/04 04:22	MS
K-40	5.566	0.4558	0.086	pCi/g	EPA 901.1M	7/03/04 04:22	MS
BI-214	1.463	0.1044	0.022	pCi/g	EPA 901.1M	7/03/04 04:22	MS
PB-212	2.870	0.1272	0.015	pCi/g	EPA 901.1M	7/03/04 04:22	MS
CS-137	0.105	0.0262	0.010	pCi/g	EPA 901.1M	7/03/04 04:22	MS
CO-60	-0.012	-0.0441	0.011	pCi/g	EPA 901.1M	7/03/04 04:22	MS
AM-241	-0.006	-0.5397	0.030	pCi/g	EPA 901.1M	7/03/04 04:22	MS
Total Activity	44.517	NA	NA	pCi/g	EPA 901.1M	7/03/04 04:22	MS
Percent Moisture	13.680	N/A	N/A	%	Moisture	7/02/04 11:20	KB

Notes: Project Name: Curtis Bay Army Depot

Quality Assurance Review

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2609 North River Road Port Allen, Louisiana 70767
1 (800) 401-4277 FAX (225) 381-2996

ARS Tracking Number: ARS041133
Client ID: 406128-019-019
Date Sampled: 6/18/04
Time Sampled: NA
Type of Sample: Solid

Request or PO Number: 406128
ARS Sample ID: ARS041133-3814
Date Received: 6/30/04
Time Received: 1100
Date of Report: 7/14/04

Analysis Description	Analysis Results	Analysis Error +/- 2 Sigma	MDC	Analysis Units	Analysis Test Method	Analysis Date / Time	Analysis Technician
RA-226	1.603	0.4826	0.164	pCi/g	EPA 901.1M	7/09/04 10:54	MS
Ra-228	1.078	0.1075	0.023	pCi/g	EPA 901.1M	7/09/04 10:54	MS
PB-210	2.558	0.4199	0.186	pCi/g	EPA 901.1M	7/09/04 10:54	MS
U-238	1.331	1.1192	0.254	pCi/g	EPA 901.1M	7/09/04 10:54	MS
K-40	5.988	0.4688	0.082	pCi/g	EPA 901.1M	7/09/04 10:54	MS
BI-214	1.213	0.0828	0.018	pCi/g	EPA 901.1M	7/09/04 10:54	MS
PB-212	1.225	0.0654	0.013	pCi/g	EPA 901.1M	7/09/04 10:54	MS
CS-137	0.307	0.0289	0.007	pCi/g	EPA 901.1M	7/09/04 10:54	MS
CO-60	-0.006	-0.1900	0.010	pCi/g	EPA 901.1M	7/09/04 10:54	MS
AM-241	-0.001	-0.0691	0.024	pCi/g	EPA 901.1M	7/09/04 10:54	MS
Total Activity	29.657	NA	NA	pCi/g	EPA 901.1M	7/09/04 10:54	MS
Percent Moisture	20.410	N/A	N/A	%	Moisture	7/02/04 11:20	KB

Notes: Project Name: Curtis Bay Army Depot

Quality Assurance Review

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2609 North River Road Port Allen, Louisiana 70767

1 (800) 401-4277 FAX (225) 381-2996

ARS Tracking Number: ARS041133

Request or PO Number: 406128

Client ID: 406128-020-020

ARS Sample ID: ARS041133-3815

Date Sampled: 6/18/04

Date Received: 6/30/04

Time Sampled: NA

Time Received: 1100

Type of Sample: Solid

Date of Report: 7/14/04

Analysis Description	Analysis Results	Analysis Error +/- 2 Sigma	MDC	Analysis Units	Analysis Test Method	Analysis Date / Time	Analysis Technician
RA-226	0.748	0.3920	0.143	pCi/g	EPA 901.1M	7/13/04 17:34	MS
Ra-228	1.109	0.0757	0.020	pCi/g	EPA 901.1M	7/13/04 17:34	MS
PB-210	1.371	0.2942	0.157	pCi/g	EPA 901.1M	7/13/04 17:34	MS
U-238	3.077	0.3447	0.254	pCi/g	EPA 901.1M	7/13/04 17:34	MS
K-40	3.428	0.3150	0.063	pCi/g	EPA 901.1M	7/13/04 17:34	MS
BI-214	0.881	0.0604	0.015	pCi/g	EPA 901.1M	7/13/04 17:34	MS
PB-212	1.349	0.0667	0.011	pCi/g	EPA 901.1M	7/13/04 17:34	MS
AM-241	-0.014	-0.0748	0.022	pCi/g	EPA 901.1M	7/13/04 17:34	MS
Total Activity	24.583	NA	NA	pCi/g	EPA 901.1M	7/13/04 17:34	MS
Percent Moisture	13.200	N/A	N/A	%	Moisture	7/02/04 11:20	KB

Notes: Project Name: Curtis Bay Army Depot

Quality Assurance Review

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2609 North River Road Port Allen, Louisiana 70767
1 (800) 401-4277 FAX (225) 381-2996

ARS Tracking Number: ARS041134

Request or PO Number: 406153

Client ID: 406153-021-021

ARS Sample ID: ARS041134-3871

Date Sampled: 6/23/04

Date Received: 6/30/04

Time Sampled: NA

Time Received: 1100

Type of Sample: Solid

Date of Report: 7/19/04

Analysis Description	Analysis Results	Analysis Error +/- 2 Sigma	MDC	Analysis Units	Analysis Test Method	Analysis Date / Time	Analysis Technician
RA-226	0.143	0.4927	0.184	pCi/g	EPA 901.1M	7/15/04 08:08	MS
Ra-228	0.900	0.1067	0.020	pCi/g	EPA 901.1M	7/15/04 08:08	MS
PB-210	1.092	0.4235	0.204	pCi/g	EPA 901.1M	7/15/04 08:08	MS
U-238	0.842	0.8302	0.269	pCi/g	EPA 901.1M	7/15/04 08:08	MS
K-40	3.810	0.4205	0.076	pCi/g	EPA 901.1M	7/15/04 08:08	MS
BI-214	0.537	0.0592	0.018	pCi/g	EPA 901.1M	7/15/04 08:08	MS
PB-212	1.053	0.0665	0.014	pCi/g	EPA 901.1M	7/15/04 08:08	MS
CS-137	0.168	0.0282	0.007	pCi/g	EPA 901.1M	7/15/04 08:08	MS
CO-60	-0.006	-0.1274	0.010	pCi/g	EPA 901.1M	7/15/04 08:08	MS
AM-241	-0.010	-0.1429	0.028	pCi/g	EPA 901.1M	7/15/04 08:08	MS
Total Activity	19.000	NA	NA	pCi/g	EPA 901.1M	7/15/04 08:08	MS
Percent Moisture	14.390	N/A	N/A	%	Moisture	7/07/04 08:20	KB

Notes: Project Name: Curtis Bay Army Depot

Quality Assurance Review

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K616-07



2609 North River Road Port Allen, Louisiana 70767

1 (800) 401-4277 FAX (225) 381-2996

ARS Tracking Number: ARS041134

Request or PO Number: 406153

Client ID: 406153-022-022

ARS Sample ID: ARS041134-3872

Date Sampled: 6/23/04

Date Received: 6/30/04

Time Sampled: NA

Time Received: 1100

Type of Sample: Solid

Date of Report: 7/19/04

Analysis Description	Analysis Results	Analysis Error +/- 2 Sigma	MDC	Analysis Units	Analysis Test Method	Analysis Date / Time	Analysis Technician
RA-226	0.409	0.4269	0.160	pCi/g	EPA 901.1M	7/16/04 03:13	CSG
Ra-228	0.652	0.0743	0.019	pCi/g	EPA 901.1M	7/16/04 03:13	CSG
PB-210	0.938	0.3411	0.187	pCi/g	EPA 901.1M	7/16/04 03:13	CSG
U-238	0.607	0.8328	0.237	pCi/g	EPA 901.1M	7/16/04 03:13	CSG
K-40	5.228	0.4676	0.066	pCi/g	EPA 901.1M	7/16/04 03:13	CSG
BI-214	0.464	0.0552	0.016	pCi/g	EPA 901.1M	7/16/04 03:13	CSG
PB-212	0.836	0.0553	0.012	pCi/g	EPA 901.1M	7/16/04 03:13	CSG
CS-137	0.011	0.0140	0.008	pCi/g	EPA 901.1M	7/16/04 03:13	CSG
CO-60	-0.004	-0.0069	0.006	pCi/g	EPA 901.1M	7/16/04 03:13	CSG
AM-241	0.004	0.0424	0.025	pCi/g	EPA 901.1M	7/16/04 03:13	CSG
Total Activity	17.028	NA	NA	pCi/g	EPA 901.1M	7/16/04 03:13	CSG
Percent Moisture	12.900	N/A	N/A	%	Moisture	7/07/04 08:20	KB

Notes: Project Name: Curtis Bay Army Depot

Quality Assurance Review

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2609 North River Road Port Allen, Louisiana 70767
1 (800) 401-4277 FAX (225) 381-2996

ARS Tracking Number: ARS041133
Client ID: 406128-021-021
Date Sampled: 6/18/04
Time Sampled: NA
Type of Sample: Solid

Request or PO Number: 406128
ARS Sample ID: ARS041133-3816
Date Received: 6/30/04
Time Received: 1100
Date of Report: 7/14/04

Analysis Description	Analysis Results	Analysis Error +/- 2 Sigma	MDC	Analysis Units	Analysis Test Method	Analysis Date / Time	Analysis Technician
RA-226	2.540	0.4940	0.725	pCi/g	EPA 901.1M	7/11/04 10:59	BJD
Ra-228	1.240	0.0715	0.500	pCi/g	EPA 901.1M	7/11/04 10:59	BJD
PB-210	2.460	0.6110	0.929	pCi/g	EPA 901.1M	7/11/04 10:59	BJD
U-238	3.000	0.2750	0.986	pCi/g	EPA 901.1M	7/11/04 10:59	BJD
K-40	4.520	0.3950	0.247	pCi/g	EPA 901.1M	7/11/04 10:59	BJD
BI-214	0.831	0.0548	0.061	pCi/g	EPA 901.1M	7/11/04 10:59	BJD
PB-212	1.280	0.0582	0.227	pCi/g	EPA 901.1M	7/11/04 10:59	BJD
AM-241	-0.018	0.0714	0.107	pCi/g	EPA 901.1M	7/11/04 10:59	BJD
Total Activity	17.196	NA	NA	pCi/g	EPA 901.1M	7/11/04 10:59	BJD
Percent Moisture	19.190	N/A	N/A	%	Moisture	7/02/04 11:20	KB

Notes: Project Name: Curtis Bay Army Depot

Quality Assurance Review

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2609 North River Road Port Allen, Louisiana 70767

1 (800) 401-4277 FAX (225) 381-2996

ARS Tracking Number: ARS041133

Request or PO Number: 406128

Client ID: 406128-022-022

ARS Sample ID: ARS041133-3817

Date Sampled: 6/18/04

Date Received: 6/30/04

Time Sampled: NA

Time Received: 1100

Type of Sample: Solid

Date of Report: 7/14/04

Analysis Description	Analysis Results	Analysis Error +/- 2 Sigma	MDC	Analysis Units	Analysis Test Method	Analysis Date / Time	Analysis Technician
RA-226	1.612	0.3796	0.191	pCi/g	EPA 901.1M	7/14/04 24:27	CS
Ra-228	0.612	0.0901	0.019	pCi/g	EPA 901.1M	7/14/04 24:27	CS
PB-210	0.664	0.4269	0.207	pCi/g	EPA 901.1M	7/14/04 24:27	CS
U-238	0.568	0.9977	0.250	pCi/g	EPA 901.1M	7/14/04 24:27	CS
K-40	10.143	0.7199	0.077	pCi/g	EPA 901.1M	7/14/04 24:27	CS
BI-214	0.546	0.0670	0.019	pCi/g	EPA 901.1M	7/14/04 24:27	CS
PB-212	0.661	0.0499	0.013	pCi/g	EPA 901.1M	7/14/04 24:27	CS
AM-241	0.005	0.0425	0.025	pCi/g	EPA 901.1M	7/14/04 24:27	CS
Total Activity	23.307	NA	NA	pCi/g	EPA 901.1M	7/14/04 24:27	CS
Percent Moisture	10.360	N/A	N/A	%	Moisture	7/02/04 11:20	KB

Notes: Project Name: Curtis Bay Army Depot

Quality Assurance Review

Notes: American Radiation Services, Inc. assumes no liability for the use or interpretation of any analytical results provided other than the cost of the analysis itself. Reproduction of this report in less than full requires the written consent of the client.

K616-12



2609 North River Road Port Allen, Louisiana 70767
1 (800) 401-4277 FAX (225) 381-2996

ARS Tracking Number: ARS041134

Request or PO Number: 406153

Client ID: 406153-023-023

ARS Sample ID: ARS041134-3873

Date Sampled: 6/23/04

Date Received: 6/30/04

Time Sampled: NA

Time Received: 1100

Type of Sample: Solid

Date of Report: 7/19/04

Analysis Description	Analysis Results	Analysis Error +/- 2 Sigma	MDC	Analysis Units	Analysis Test Method	Analysis Date / Time	Analysis Technician
RA-226	1.558	0.3342	0.164	pCi/g	EPA 901.1M	7/14/04 13:02	MS
Ra-228	0.616	0.0667	0.015	pCi/g	EPA 901.1M	7/14/04 13:02	MS
PB-210	1.401	0.4739	0.200	pCi/g	EPA 901.1M	7/14/04 13:02	MS
U-238	0.793	0.6154	0.242	pCi/g	EPA 901.1M	7/14/04 13:02	MS
K-40	3.383	0.3710	0.088	pCi/g	EPA 901.1M	7/14/04 13:02	MS
BI-214	0.480	0.0530	0.015	pCi/g	EPA 901.1M	7/14/04 13:02	MS
PB-212	0.678	0.0484	0.012	pCi/g	EPA 901.1M	7/14/04 13:02	MS
CS-137	0.026	0.0148	0.008	pCi/g	EPA 901.1M	7/14/04 13:02	MS
CO-60	-0.004	-1.2075	0.008	pCi/g	EPA 901.1M	7/14/04 13:02	MS
AM-241	-0.021	-0.0632	0.024	pCi/g	EPA 901.1M	7/14/04 13:02	MS
Total Activity	18.393	NA	NA	pCi/g	EPA 901.1M	7/14/04 13:07	MS
Percent Moisture	12.090	N/A	N/A	%	Moisture	7/07/04 08:20	KB

Notes: Project Name: Curtis Bay Army Depot

Quality Assurance Review

Notes: American Radiation Services, Inc. assumes no liability for the use or interpretation of any analytical results provided other than the cost of the analysis itself. Reproduction of this report in less than full requires the written consent of the client.



2609 North River Road Port Allen, Louisiana 70767
1 (800) 401-4277 FAX (225) 381-2996

ARS Tracking Number: ARS041133
Client ID: 406128-023-023
Date Sampled: 6/18/04
Time Sampled: NA
Type of Sample: Solid

Request or PO Number: 406128
ARS Sample ID: ARS041133-3818
Date Received: 6/30/04
Time Received: 1100
Date of Report: 7/14/04

Analysis Description	Analysis Results	Analysis Error +/- 2 Sigma	MDC	Analysis Units	Analysis Test Method	Analysis Date / Time	Analysis Technician
RA-226	1.988	0.5044	0.174	pCi/g	EPA 901.1M	7/02/04 10:30	MS
Ra-228	1.671	0.1091	0.025	pCi/g	EPA 901.1M	7/02/04 10:30	MS
PB-210	1.783	0.3752	0.200	pCi/g	EPA 901.1M	7/02/04 10:30	MS
U-238	1.651	1.2266	0.282	pCi/g	EPA 901.1M	7/02/04 10:30	MS
K-40	4.654	0.4013	0.074	pCi/g	EPA 901.1M	7/02/04 10:30	MS
BI-214	0.998	0.0792	0.019	pCi/g	EPA 901.1M	7/02/04 10:30	MS
PB-212	2.138	0.1000	0.013	pCi/g	EPA 901.1M	7/02/04 10:30	MS
CS-137	0.262	0.0279	0.008	pCi/g	EPA 901.1M	7/02/04 10:30	MS
CO-60	-0.003	-0.0605	0.009	pCi/g	EPA 901.1M	7/02/04 10:30	MS
AM-241	0.009	0.0474	0.028	pCi/g	EPA 901.1M	7/02/04 10:30	MS
Total Activity	36.173	NA	NA	pCi/g	EPA 901.1M	7/02/04 10:30	MS
Percent Moisture	14.370	N/A	N/A	%	Moisture	7/02/04 11:20	KB

Notes: Project Name: Curtis Bay Army Depot

Quality Assurance Review

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2609 North River Road Port Allen, Louisiana 70767
1 (800) 401-4277 FAX (225) 381-2996

ARS Tracking Number: ARS041133

Request or PO Number: 406128

Client ID: 406128-024-024

ARS Sample ID: ARS041133-3819

Date Sampled: 6/18/04

Date Received: 6/30/04

Time Sampled: NA

Time Received: 1100

Type of Sample: Solid

Date of Report: 7/14/04

Analysis Description	Analysis Results	Analysis Error +/- 2 Sigma	MDC	Analysis Units	Analysis Test Method	Analysis Date / Time	Analysis Technician
RA-226	1.590	1.9900	0.699	pCi/g	EPA 901.1M	7/10/04 18:21	MS
Ra-228	1.130	0.0684	0.186	pCi/g	EPA 901.1M	7/10/04 18:21	MS
PB-210	1.500	0.2700	0.633	pCi/g	EPA 901.1M	7/10/04 18:21	MS
U-238	2.170	1.0000	0.893	pCi/g	EPA 901.1M	7/10/04 18:21	MS
K-40	4.210	0.3610	0.292	pCi/g	EPA 901.1M	7/10/04 18:21	MS
BI-214	1.410	0.0697	0.051	pCi/g	EPA 901.1M	7/10/04 18:21	MS
PB-212	1.180	0.0567	0.297	pCi/g	EPA 901.1M	7/10/04 18:21	MS
AM-241	-0.034	0.0761	0.096	pCi/g	EPA 901.1M	7/10/04 18:21	MS
Total Activity	14.784	NA	NA	pCi/g	EPA 901.1M	7/10/04 18:21	MS
Percent Moisture	11.310	N/A	N/A	%	Moisture	7/02/04 11:20	KB

Notes: Project Name: Curtis Bay Army Depot

Quality Assurance Review

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2609 North River Road Port Allen, Louisiana 70767
1 (800) 401-4277 FAX (225) 381-2996

406153-13

ARS Tracking Number: ARS041134

Request or PO Number: 406153

Client ID: 406153-024-024

ARS Sample ID: ARS041134-3874

Date Sampled: 6/23/04

Date Received: 6/30/04

Time Sampled: NA

Time Received: 1100

Type of Sample: Solid

Date of Report: 7/19/04

Analysis Description	Analysis Results	Analysis Error +/- 2 Sigma	MDC	Analysis Units	Analysis Test Method	Analysis Date / Time	Analysis Technician
RA-226	0.428	0.2624	0.143	pCi/g	EPA 901.1M	7/14/04 18:03	DM
Ra-228	0.483	0.0584	0.013	pCi/g	EPA 901.1M	7/14/04 18:03	DM
PB-210	0.643	0.3287	0.167	pCi/g	EPA 901.1M	7/14/04 18:03	DM
U-238	0.000	0.0000	0.216	pCi/g	EPA 901.1M	7/14/04 18:03	DM
K-40	3.213	0.3472	0.059	pCi/g	EPA 901.1M	7/14/04 18:03	DM
BI-214	0.328	0.0499	0.017	pCi/g	EPA 901.1M	7/14/04 18:03	DM
PB-212	0.549	0.0422	0.011	pCi/g	EPA 901.1M	7/14/04 18:03	DM
CS-137	0.015	0.0151	0.008	pCi/g	EPA 901.1M	7/14/04 18:03	DM
CO-60	-0.004	-0.3758	0.008	pCi/g	EPA 901.1M	7/14/04 18:03	DM
AM-241	0.011	0.0362	0.021	pCi/g	EPA 901.1M	7/14/04 18:03	DM
Total Activity	11.064	NA	NA	pCi/g	EPA 901.1M	7/14/04 18:03	DM
Percent Moisture	12.570	N/A	N/A	%	Moisture	7/07/04 08:20	KB

Notes: Project Name: Curtis Bay Army Depot

Quality Assurance Review

Notes: American Radiation Services, Inc. assumes no liability for the use or interpretation of any analytical results provided other than the cost of the analysis itself. Reproduction of this report in less than full requires the written consent of the client.

1029




2609 North River Road Port Allen, Louisiana 70767
1 (800) 401-4277 FAX (225) 381-2996

ARS Tracking Number: ARS041134
Client ID: 406153-025-025
Date Sampled: 6/23/04
Time Sampled: NA
Type of Sample: Solid

Request or PO Number: 406153
ARS Sample ID: ARS041134-3875
Date Received: 6/30/04
Time Received: 1100
Date of Report: 7/19/04

Analysis Description	Analysis Results	Analysis Error +/- 2 Sigma	MDC	Analysis Units	Analysis Test Method	Analysis Date / Time	Analysis Technician
RA-226	0.718	0.4678	0.173	pCi/g	EPA 901.1M	7/15/04 03:38	DM
Ra-228	0.844	0.1026	0.018	pCi/g	EPA 901.1M	7/15/04 03:38	DM
PB-210	0.907	0.4999	0.228	pCi/g	EPA 901.1M	7/15/04 03:38	DM
U-238	2.036	0.4303	0.302	pCi/g	EPA 901.1M	7/15/04 03:38	DM
K-40	5.463	0.5131	0.084	pCi/g	EPA 901.1M	7/15/04 03:38	DM
BI-214	0.535	0.0608	0.017	pCi/g	EPA 901.1M	7/15/04 03:38	DM
PB-212	0.955	0.0619	0.013	pCi/g	EPA 901.1M	7/15/04 03:38	DM
CS-137	0.026	0.0172	0.009	pCi/g	EPA 901.1M	7/15/04 03:38	DM
CO-60	-0.001	-0.0307	0.010	pCi/g	EPA 901.1M	7/15/04 03:38	DM
AM-241	0.018	0.0459	0.027	pCi/g	EPA 901.1M	7/15/04 03:38	DM
Total Activity	18.839	NA	NA	pCi/g	EPA 901.1M	7/15/04 03:38	DM
Percent Moisture	11.830	N/A	N/A	%	Moisture	7/07/04 08:20	KB

Notes: Project Name: Curtis Bay Army Depot


Quality Assurance Review

Notes: American Radiation Services, Inc. assumes no liability for the use or interpretation of any analytical results provided other than the cost of the analysis itself. Reproduction of this report in less than full requires the written consent of the client.



2609 North River Road Port Allen, Louisiana 70767
1 (800) 401-4277 FAX (225) 331-2996

ARS Tracking Number: ARS041133

Request or PO Number: 406128

Client ID: 406128-025-025

ARS Sample ID: ARS041133-3820

Date Sampled: 6/18/04

Date Received: 6/30/04

Time Sampled: NA

Time Received: 1100

Type of Sample: Solid

Date of Report: 7/14/04

Analysis Description	Analysis Results	Analysis Error +/- 2 Sigma	MDC	Analysis Units	Analysis Test Method	Analysis Date / Time	Analysis Technician
RA-226	0.727	0.4388	0.161	pCi/g	EPA 901.1M	7/03/04 13:31	EAM
Ra-228	1.518	0.1219	0.022	pCi/g	EPA 901.1M	7/03/04 13:31	EAM
PB-210	1.360	0.3734	0.177	pCi/g	EPA 901.1M	7/03/04 13:31	EAM
U-238	1.381	0.7044	0.243	pCi/g	EPA 901.1M	7/03/04 13:31	EAM
K-40	4.305	0.3575	0.064	pCi/g	EPA 901.1M	7/03/04 13:31	EAM
BI-214	1.102	0.0698	0.016	pCi/g	EPA 901.1M	7/03/04 13:31	EAM
PB-212	1.838	0.0868	0.013	pCi/g	EPA 901.1M	7/03/04 13:31	EAM
CS-137	0.259	0.0263	0.008	pCi/g	EPA 901.1M	7/03/04 13:31	EAM
CO-60	-0.005	-0.0321	0.004	pCi/g	EPA 901.1M	7/03/04 13:31	EAM
AM-241	0.001	0.0431	0.025	pCi/g	EPA 901.1M	7/03/04 13:31	EAM
Total Activity	29.813	NA	NA	pCi/g	EPA 901.1M	7/03/04 13:31	EAM
Percent Moisture	9.692	N/A	N/A	%	Moisture	7/02/04 11:20	KB

Notes: Project Name: Curtis Bay Army Depot

Quality Assurance Review

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2609 North River Road Port Allen, Louisiana 70767

1 (800) 401-4277 FAX (225) 381-2996

ARS Tracking Number: ARS041133

Request or PO Number: 406128

Client ID: 406128-026-026

ARS Sample ID: ARS041133-3821

Date Sampled: 6/18/04

Date Received: 6/30/04

Time Sampled: NA

Time Received: 1100

Type of Sample: Solid

Date of Report: 7/14/04

Analysis Description	Analysis Results	Analysis Error +/- 2 Sigma	MDC	Analysis Units	Analysis Test Method	Analysis Date / Time	Analysis Technician
RA-226	0.524	0.3816	0.143	pCi/g	EPA 901.1M	7/07/04 07:54	MS
Ra-228	0.815	0.0802	0.021	pCi/g	EPA 901.1M	7/07/04 07:54	MS
PB-210	2.174	0.3203	0.158	pCi/g	EPA 901.1M	7/07/04 07:54	MS
U-238	1.002	0.6436	0.209	pCi/g	EPA 901.1M	7/07/04 07:54	MS
K-40	3.648	0.3473	0.077	pCi/g	EPA 901.1M	7/07/04 07:54	MS
BI-214	0.921	0.0633	0.014	pCi/g	EPA 901.1M	7/07/04 07:54	MS
PB-212	0.891	0.0495	0.011	pCi/g	EPA 901.1M	7/07/04 07:54	MS
CS-137	0.259	0.0229	0.005	pCi/g	EPA 901.1M	7/07/04 07:54	MS
CO-60	0.000	0.0123	0.007	pCi/g	EPA 901.1M	7/07/04 07:54	MS
AM-241	-0.002	-0.0899	0.021	pCi/g	EPA 901.1M	7/07/04 07:54	MS
Total Activity	31.454	NA	NA	pCi/g	EPA 901.1M	7/07/04 07:54	MS
Percent Moisture	10.120	N/A	N/A	%	Moisture	7/02/04 11:20	KB

Notes: Project Name: Curtis Bay Army Depot

Quality Assurance Review

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2609 North River Road Port Allen, Louisiana 70767
1 (800) 401-4277 FAX (225) 381-2996

ARS Tracking Number: ARS041133
Client ID: 406128-014-056
Date Sampled: 6/9/04
Time Sampled: NA
Type of Sample: Liquid

Request or PO Number: 406128
ARS Sample ID: ARS041133-3809
Date Received: 6/30/04
Time Received: 1100
Date of Report: 7/15/04

Analysis Description	Analysis Results	Analysis Error +/- 2 Sigma	MDC	Analysis Units	Analysis Test Method	Analysis Date / Time	Analysis Technician
Ra-228	5.475	4.3784	5.160	pCi/L	EPA 901.1M	7/03/04 21:49	EAM
PB-210	-99.490	-38.9960	27.800	pCi/L	EPA 901.1M	7/03/04 21:49	EAM
U-238	105.390	22.5960	27.800	pCi/L	EPA 901.1M	7/03/04 21:49	EAM
K-40	-167.130	-99.5740	25.500	pCi/L	EPA 901.1M	7/03/04 21:49	EAM
BI-214	-56.083	-21.7080	4.730	pCi/L	EPA 901.1M	7/03/04 21:49	EAM
PB-212	6.787	2.2288	2.540	pCi/L	EPA 901.1M	7/03/04 21:49	EAM
CS-137	-1.040	-4.4017	1.610	pCi/L	EPA 901.1M	7/03/04 21:49	EAM
CO-60	-3.182	-4.8045	1.710	pCi/L	EPA 901.1M	7/03/04 21:49	EAM
AM-241	-2.065	-5.7272	2.510	pCi/L	EPA 901.1M	7/03/04 21:49	EAM

Notes: Project Name: Curtis Bay Army Depot

Quality Assurance Review

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2609 North River Road Port Allen, Louisiana 70767
1 (800) 401-4277 FAX (225) 381-2996

ARS Tracking Number: ARS041133

Request or PO Number: 406128

Client ID: 406128-015-057

ARS Sample ID: ARS041133-3810

Date Sampled: 6/14/04

Date Received: 6/30/04

Time Sampled: NA

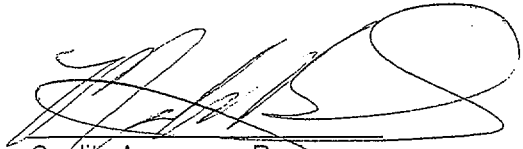
Time Received: 1100

Type of Sample: Liquid

Date of Report: 7/15/04

Analysis Description	Analysis Results	Analysis Error +/- 2 Sigma	MDC	Analysis Units	Analysis Test Method	Analysis Date / Time	Analysis Technician
Ra-228	6.333	5.2442	6.180	pCi/L	EPA 901.1M	7/01/04 17:20	MS
PB-210	-178.780	-61.5010	33.100	pCi/L	EPA 901.1M	7/01/04 17:20	MS
U-238	106.990	24.2750	27.100	pCi/L	EPA 901.1M	7/01/04 17:20	MS
K-40	-185.530	-107.9300	30.900	pCi/L	EPA 901.1M	7/01/04 17:20	MS
Bi-214	-66.638	-25.6740	5.490	pCi/L	EPA 901.1M	7/01/04 17:20	MS
PB-212	6.710	2.2200	2.890	pCi/L	EPA 901.1M	7/01/04 17:20	MS
CS-137	-1.509	-7.9436	1.940	pCi/L	EPA 901.1M	7/01/04 17:20	MS
CO-60	-5.201	-15.1170	2.100	pCi/L	EPA 901.1M	7/01/04 17:20	MS
AM-241	-4.304	-25.6540	2.980	pCi/L	EPA 901.1M	7/01/04 17:20	MS

Notes: Project Name: Curtis Bay Army Depot


Quality Assurance Review

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Analytical Summary Report

Client Name:	MKM Engineers, Inc.	Sample Matrix:	WATER
Client Sample ID:	K616 POND	Lab Sample ID:	406028-009-009-1/1
Sample Date/Time:	05/13/2004 00:00	Percent Moisture:	NA
Receipt Date/Time:	06/03/2004 10:00	Preparation Method:	SW6020
Prepared Date/Time:	06/22/2004 00:00	Analytical Method:	SW6020

#	Parameter	Reported Result	Q	Reporting Limit	Dil Fact	Units	Analysis Date/Time
1)	Thorium	8.0		2	1	ug/L	06/28/04 15:48



2609 North River Road Port Allen, Louisiana 70767
1 (800) 401-4277 FAX (225) 381-2996

J621-01

ARS Tracking Number: ARS040993
Client ID: 406059-038-038
Date Sampled: 6/4/04
Time Sampled: NA
Type of Sample: Solid

Request or PO Number: 406059
ARS Sample ID: ARS040993-3330
Date Received: 6/11/04
Time Received: 1020
Date of Report: 6/22/04

Analysis Description	Analysis Results	Analysis Error +/- 2 Sigma	MDC	Analysis Units	Analysis Test Method	Analysis Date / Time	Analysis Technician
RA-226	1.275	0.5347	0.280	pCi/g	EPA 901.1M	6/19/04 15:02	WLM
Ra-228	0.832	0.1186	0.048	pCi/g	EPA 901.1M	6/19/04 15:02	WLM
PB-210	2.705	0.6443	0.328	pCi/g	EPA 901.1M	6/19/04 15:02	WLM
U-238	2.988	0.6892	0.462	pCi/g	EPA 901.1M	6/19/04 15:02	WLM
K-40	5.279	0.6971	0.204	pCi/g	EPA 901.1M	6/19/04 15:02	WLM
BI-214	0.758	0.1112	0.034	pCi/g	EPA 901.1M	6/19/04 15:02	WLM
PB-212	1.040	0.0845	0.023	pCi/g	EPA 901.1M	6/19/04 15:02	WLM
AM-241	0.008	0.0657	0.038	pCi/g	EPA 901.1M	6/19/04 15:02	WLM
Total Activity	22.056	NA	NA	pCi/g	EPA 901.1M	6/19/04 15:02	WLM
Percent Moisture	19.710	N/A	N/A	%	Moisture	6/19/04 15:02	JF

Notes: Project Number: Curtis Bay Army Depot

Quality Assurance Review

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7621-06



2609 North River Road Port Allen, Louisiana 70767
1 (800) 401-4277 FAX (225) 381-2996

ARS Tracking Number: ARS040993
Client ID: 406059-039-039
Date Sampled: 6/4/04
Time Sampled: NA
Type of Sample: Solid

Request or PO Number: 406059
ARS Sample ID: ARS040993-3331
Date Received: 6/11/04
Time Received: 1020
Date of Report: 6/22/04

Analysis Description	Analysis Results	Analysis Error +/- 2 Sigma	MDC	Analysis Units	Analysis Test Method	Analysis Date / Time	Analysis Technician
RA-226	0.890	0.5736	0.317	pCi/g	EPA 901.1M	6/19/04 05:06	MS
Ra-228	1.411	0.1499	0.030	pCi/g	EPA 901.1M	6/19/04 05:06	MS
PB-210	2.704	0.6300	0.323	pCi/g	EPA 901.1M	6/19/04 05:06	MS
U-238	3.493	0.6696	0.458	pCi/g	EPA 901.1M	6/19/04 05:06	MS
K-40	11.175	0.9188	0.117	pCi/g	EPA 901.1M	6/19/04 05:06	MS
BI-214	0.925	0.1014	0.028	pCi/g	EPA 901.1M	6/19/04 05:06	MS
PB-212	1.546	0.0988	0.020	pCi/g	EPA 901.1M	6/19/04 05:06	MS
AM-241	-0.012	-0.3143	0.042	pCi/g	EPA 901.1M	6/19/04 05:06	MS
Total Activity	35.900	NA	NA	pCi/g	EPA 901.1M	6/19/04 05:06	MS
Percent Moisture	17.340	N/A	N/A	%	Moisture	6/19/04 05:06	JF

Notes: Project Number: Curtis Bay Army Depot

Quality Assurance Review

Notes: American Radiation Services, Inc. assumes no liability for the use or interpretation of any analytical results provided other than the cost of the analysis itself. Reproduction of this report in less than full requires the written consent of the client.

JG:1-05



2609 North River Road Port Allen, Louisiana 70767
1 (800) 401-4277 FAX (225) 381-2996

ARS Tracking Number: ARS040993

Request or PO Number: 406059

Client ID: 406059-040-040

ARS Sample ID: ARS040993-3332

Date Sampled: 6/4/04

Date Received: 6/11/04

Time Sampled: NA

Time Received: 1020

Type of Sample: Solid

Date of Report: 6/22/04

Analysis Description	Analysis Results	Analysis Error +/- 2 Sigma	MDC	Analysis Units	Analysis Test Method	Analysis Date / Time	Analysis Technician
RA-226	0.361	0.6932	0.261	pCi/g	EPA 901.1M	6/20/04 17:24	WLM
Ra-228	0.767	0.1269	0.035	pCi/g	EPA 901.1M	6/20/04 17:24	WLM
PB-210	2.837	0.7496	0.324	pCi/g	EPA 901.1M	6/20/04 17:24	WLM
U-238	0.379	1.8016	0.387	pCi/g	EPA 901.1M	6/20/04 17:24	WLM
K-40	5.986	0.6657	0.116	pCi/g	EPA 901.1M	6/20/04 17:24	WLM
BI-214	0.565	0.0932	0.032	pCi/g	EPA 901.1M	6/20/04 17:24	WLM
PB-212	0.756	0.0785	0.023	pCi/g	EPA 901.1M	6/20/04 17:24	WLM
AM-241	-0.009	-0.0315	0.020	pCi/g	EPA 901.1M	6/20/04 17:24	WLM
Total Activity	19.439	NA	NA	pCi/g	EPA 901.1M	6/20/04 17:24	WLM
Percent Moisture	18.900	N/A	N/A	%	Moisture	6/20/04 17:24	JF

Notes: Project Number: Curtis Bay Army Depot

Quality Assurance Review

Notes: American Radiation Services, Inc. assumes no liability for the use or interpretation of any analytical results provided other than the cost of the analysis itself. Reproduction of this report in less than full requires the written consent of the client.

J621-04



2609 North River Road Port Allen, Louisiana 70767

1 (800) 401-4277 FAX (225) 381-2996

ARS Tracking Number: ARS040993

Request or PO Number: 406059

Client ID: 406059-041-041

ARS Sample ID: ARS040993-3333

Date Sampled: 6/4/04

Date Received: 6/11/04

Time Sampled: NA

Time Received: 1020

Type of Sample: Solid

Date of Report: 6/22/04

Analysis Description	Analysis Results	Analysis Error +/- 2 Sigma	MDC	Analysis Units	Analysis Test Method	Analysis Date / Time	Analysis Technician
RA-226	0.669	0.5346	0.189	pCi/g	EPA 901.1M	6/18/04 12:14	MS
Ra-228	0.423	0.0827	0.032	pCi/g	EPA 901.1M	6/18/04 12:14	MS
PB-210	1.826	0.6105	0.255	pCi/g	EPA 901.1M	6/18/04 12:14	MS
U-238	0.000	0.0000	0.274	pCi/g	EPA 901.1M	6/18/04 12:14	MS
K-40	6.222	0.5465	0.092	pCi/g	EPA 901.1M	6/18/04 12:14	MS
BI-214	0.427	0.0651	0.023	pCi/g	EPA 901.1M	6/18/04 12:14	MS
PB-212	0.566	0.0459	0.015	pCi/g	EPA 901.1M	6/18/04 12:14	MS
AM-241	-0.013	-0.1301	0.027	pCi/g	EPA 901.1M	6/18/04 12:14	MS
Total Activity	15.040	NA	NA	pCi/g	EPA 901.1M	6/18/04 12:14	MS
Percent Moisture	12.380	N/A	N/A	%	Moisture	6/18/04 12:14	JF

Notes: Project Number: Curtis Bay Army Depot

Quality Assurance Review

Notes: American Radiation Services, Inc. assumes no liability for the use or interpretation of any analytical results provided other than the cost of the analysis itself. Reproduction of this report in less than full requires the written consent of the client.

J621-05



2609 North River Road Port Allen, Louisiana 70767
1 (800) 401-4277 FAX (225) 381-2996

ARS Tracking Number: ARS040993

Request or PO Number: 406059

Client ID: 406059-042-042

ARS Sample ID: ARS040993-3334

Date Sampled: 6/4/04

Date Received: 6/11/04

Time Sampled: NA

Time Received: 1020

Type of Sample: Solid

Date of Report: 6/22/04

Analysis Description	Analysis Results	Analysis Error +/- 2 Sigma	MDC	Analysis Units	Analysis Test Method	Analysis Date / Time	Analysis Technician
RA-226	2.406	0.5007	0.239	pCi/g	EPA 901.1M	6/18/04 02:22	SMB
Ra-228	0.949	0.0957	0.026	pCi/g	EPA 901.1M	6/18/04 02:22	SMB
PB-210	1.962	0.5440	0.264	pCi/g	EPA 901.1M	6/18/04 02:22	SMB
U-238	0.759	0.9123	0.372	pCi/g	EPA 901.1M	6/18/04 02:22	SMB
K-40	7.040	0.6826	0.107	pCi/g	EPA 901.1M	6/18/04 02:22	SMB
BI-214	0.697	0.0840	0.025	pCi/g	EPA 901.1M	6/18/04 02:22	SMB
PB-212	1.035	0.0747	0.018	pCi/g	EPA 901.1M	6/18/04 02:22	SMB
AM-241	0.015	0.0579	0.034	pCi/g	EPA 901.1M	6/18/04 02:22	SMB
Total Activity	21.509	NA	NA	pCi/g	EPA 901.1M	6/18/04 02:22	SMB
Percent Moisture	16.860	N/A	N/A	%	Moisture	6/18/04 02:22	JF

Notes: Project Number: Curtis Bay Army Depot


Quality Assurance Review

Notes: American Radiation Services, Inc. assumes no liability for the use or interpretation of any analytical results provided other than the cost of the analysis itself. Reproduction of this report in less than full requires the written consent of the client.

J621-06



2609 North River Road Port Allen, Louisiana 70767
1 (800) 401-4277 FAX (225) 381-2996

ARS Tracking Number: ARS040993

Request or PO Number: 406059

Client ID: 406059-043-043

ARS Sample ID: ARS040993-3335

Date Sampled: 6/4/04

Date Received: 6/11/04

Time Sampled: NA

Time Received: 1020

Type of Sample: Solid

Date of Report: 6/22/04

Analysis Description	Analysis Results	Analysis Error +/- 2 Sigma	MDC	Analysis Units	Analysis Test Method	Analysis Date / Time	Analysis Technician
RA-226	2.894	0.6165	0.302	pCi/g	EPA 901.1M	6/18/04 14:32	MS
Ra-228	1.053	0.1223	0.038	pCi/g	EPA 901.1M	6/18/04 14:32	MS
PB-210	2.211	0.8743	0.374	pCi/g	EPA 901.1M	6/18/04 14:32	MS
U-238	1.445	0.9359	0.409	pCi/g	EPA 901.1M	6/18/04 14:32	MS
K-40	9.250	0.8351	0.120	pCi/g	EPA 901.1M	6/18/04 14:32	MS
BI-214	0.870	0.1044	0.030	pCi/g	EPA 901.1M	6/18/04 14:32	MS
PB-212	1.221	0.0868	0.021	pCi/g	EPA 901.1M	6/18/04 14:32	MS
AM-241	0.001	0.0674	0.039	pCi/g	EPA 901.1M	6/18/04 14:32	MS
Total Activity	35.434	NA	NA	pCi/g	EPA 901.1M	6/18/04 14:32	MS
Percent Moisture	19.310	N/A	N/A	%	Moisture	6/18/04 14:32	JF

Notes: Project Number: Curtis Bay Army Depot

Quality Assurance Review

Notes: American Radiation Services, Inc. assumes no liability for the use or interpretation of any analytical results provided other than the cost of the analysis itself. Reproduction of this report in less than full requires the written consent of the client.

J 621-07



2609 North River Road Port Allen, Louisiana 70767
1 (800) 401-4277 FAX (225) 381-2996

ARS Tracking Number: ARS040993

Request or PO Number: 406059

Client ID: 406059-044-044

ARS Sample ID: ARS040993-3336

Date Sampled: 6/4/04

Date Received: 6/11/04

Time Sampled: NA

Time Received: 1020

Type of Sample: Solid

Date of Report: 6/22/04

Analysis Description	Analysis Results	Analysis Error +/- 2 Sigma	MDC	Analysis Units	Analysis Test Method	Analysis Date / Time	Analysis Technician
RA-226	1.246	0.7527	0.272	pCi/g	EPA 901.1M	6/18/04 15:33	MS
Ra-228	1.764	0.1657	0.026	pCi/g	EPA 901.1M	6/18/04 15:33	MS
PB-210	2.293	0.5368	0.276	pCi/g	EPA 901.1M	6/18/04 15:33	MS
U-238	1.291	1.2396	0.401	pCi/g	EPA 901.1M	6/18/04 15:33	MS
K-40	4.063	0.5094	0.105	pCi/g	EPA 901.1M	6/18/04 15:33	MS
Bi-214	1.167	0.1083	0.028	pCi/g	EPA 901.1M	6/18/04 15:33	MS
PB-212	2.125	0.1167	0.020	pCi/g	EPA 901.1M	6/18/04 15:33	MS
AM-241	-0.011	-0.2501	0.041	pCi/g	EPA 901.1M	6/18/04 15:33	MS
Total Activity	34.155	NA	NA	pCi/g	EPA 901.1M	6/18/04 15:33	MS
Percent Moisture	9.570	N/A	N/A	%	Moisture	6/18/04 15:33	JF

Notes: Project Number: Curtis Bay Army Depot

Quality Assurance Review

Notes: American Radiation Services, Inc. assumes no liability for the use or interpretation of any analytical results provided other than the cost of the analysis itself. Reproduction of this report in less than full requires the written consent of the client.

J621-08



2609 North River Road Port Allen, Louisiana 70767
1 (800) 401-4277 FAX (225) 381-2996

ARS Tracking Number: ARS040993
Client ID: 406059-045-045
Date Sampled: 6/7/04
Time Sampled: NA
Type of Sample: Solid

Request or PO Number: 406059
ARS Sample ID: ARS040993-3337
Date Received: 6/11/04
Time Received: 1020
Date of Report: 6/22/04

Analysis Description	Analysis Results	Analysis Error +/- 2 Sigma	MDC	Analysis Units	Analysis Test Method	Analysis Date / Time	Analysis Technician
RA-226	2.692	0.5479	0.271	pCi/g	EPA 901.1M	6/18/04 17:38	MS
Ra-228	1.141	0.1313	0.033	pCi/g	EPA 901.1M	6/18/04 17:38	MS
PB-210	3.296	0.7033	0.292	pCi/g	EPA 901.1M	6/18/04 17:38	MS
U-238	0.000	0.0000	0.372	pCi/g	EPA 901.1M	6/18/04 17:38	MS
K-40	9.649	0.7624	0.084	pCi/g	EPA 901.1M	6/18/04 17:38	MS
BI-214	0.783	0.0951	0.025	pCi/g	EPA 901.1M	6/18/04 17:38	MS
PB-212	1.293	0.0830	0.018	pCi/g	EPA 901.1M	6/18/04 17:38	MS
AM-241	-0.007	-1.1660	0.036	pCi/g	EPA 901.1M	6/18/04 17:38	MS
Total Activity	31.355	NA	NA	pCi/g	EPA 901.1M	6/18/04 17:38	MS
Percent Moisture	22.030	N/A	N/A	%	Moisture	6/18/04 17:38	JF

Notes: Project Number: Curtis Bay Army Depot

Quality Assurance Review

Notes: American Radiation Services, Inc. assumes no liability for the use or interpretation of any analytical results provided other than the cost of the analysis itself. Reproduction of this report in less than full requires the written consent of the client.



2609 North River Road Port Allen, Louisiana 70767

1 (800) 401-4277

FAX (225) 381-2996

ARS Tracking Number: ARS040993

Request or PO Number: 406059

Client ID: 406059-046-046

ARS Sample ID: ARS040993-3338

Date Sampled: 6/7/04

Date Received: 6/11/04

Time Sampled: NA

Time Received: 1020

Type of Sample: Solid

Date of Report: 6/22/04

Analysis Description	Analysis Results	Analysis Error +/- 2 Sigma	MDC	Analysis Units	Analysis Test Method	Analysis Date / Time	Analysis Technician
RA-226	0.895	0.5558	0.204	pCi/g	EPA 901.1M	6/18/04 09:34	MS
Ra-228	0.974	0.1147	0.024	pCi/g	EPA 901.1M	6/18/04 09:34	MS
PB-210	1.472	0.5925	0.257	pCi/g	EPA 901.1M	6/18/04 09:34	MS
U-238	0.769	1.1050	0.298	pCi/g	EPA 901.1M	6/18/04 09:34	MS
K-40	7.432	0.6185	0.092	pCi/g	EPA 901.1M	6/18/04 09:34	MS
BI-214	0.718	0.0708	0.020	pCi/g	EPA 901.1M	6/18/04 09:34	MS
PB-212	1.234	0.0731	0.015	pCi/g	EPA 901.1M	6/18/04 09:34	MS
AM-241	0.014	0.0518	0.030	pCi/g	EPA 901.1M	6/18/04 09:34	MS
Total Activity	26.230	NA	NA	pCi/g	EPA 901.1M	6/18/04 09:34	MS
Percent Moisture	14.870	N/A	N/A	%	Moisture	6/18/04 09:34	JF

Notes: Project Number: Curtis Bay Army Depot

Quality Assurance Review

Notes: American Radiation Services, Inc. assumes no liability for the use or interpretation of any analytical results provided other than the cost of the analysis itself. Reproduction of this report in less than full requires the written consent of the client.



2609 North River Road Port Allen, Louisiana 70767
1 (800) 401-4277 FAX (225) 381-2996

ARS Tracking Number: ARS040993

Request or PO Number: 406059

Client ID: 406059-047-047

ARS Sample ID: ARS040993-3339

Date Sampled: 6/7/04

Date Received: 6/11/04

Time Sampled: NA

Time Received: 1020

Type of Sample: Solid

Date of Report: 6/22/04

Analysis Description	Analysis Results	Analysis Error +/- 2 Sigma	MDC	Analysis Units	Analysis Test Method	Analysis Date / Time	Analysis Technician
RA-226	1.718	0.4579	0.236	pCi/g	EPA 901.1M	6/18/04 13:30	MS
Ra-228	1.512	0.1241	0.019	pCi/g	EPA 901.1M	6/18/04 13:30	MS
PB-210	1.031	0.5541	0.258	pCi/g	EPA 901.1M	6/18/04 13:30	MS
U-238	1.149	1.0093	0.331	pCi/g	EPA 901.1M	6/18/04 13:30	MS
K-40	2.950	0.4044	0.090	pCi/g	EPA 901.1M	6/18/04 13:30	MS
BI-214	0.877	0.0847	0.022	pCi/g	EPA 901.1M	6/18/04 13:30	MS
PB-212	1.696	0.0953	0.017	pCi/g	EPA 901.1M	6/18/04 13:30	MS
AM-241	-0.006	-0.7297	0.033	pCi/g	EPA 901.1M	6/18/04 13:30	MS
Total Activity	26.568	NA	NA	pCi/g	EPA 901.1M	6/18/04 13:30	MS
Percent Moisture	9.402	N/A	N/A	%	Moisture	6/18/04 13:30	JF

Notes: Project Number: Curtis Bay Army Depot

Quality Assurance Review

Notes: American Radiation Services, Inc. assumes no liability for the use or interpretation of any analytical results provided other than the cost of the analysis itself. Reproduction of this report in less than full requires the written consent of the client.

J621-11



2609 North River Road Port Allen, Louisiana 70767
1 (800) 401-4277 FAX (225) 381-2996

ARS Tracking Number: ARS040993

Request or PO Number: 406059

Client ID: 406059-048-048

ARS Sample ID: ARS040993-3340

Date Sampled: 6/7/04

Date Received: 6/11/04

Time Sampled: NA

Time Received: 1020

Type of Sample: Solid

Date of Report: 6/22/04

Analysis Description	Analysis Results	Analysis Error +/- 2 Sigma	MDC	Analysis Units	Analysis Test Method	Analysis Date / Time	Analysis Technician
RA-226	0.797	0.5173	0.193	pCi/g	EPA 901.1M	6/18/04 18:38	MS
Ra-228	0.881	0.0796	0.026	pCi/g	EPA 901.1M	6/18/04 18:38	MS
PB-210	1.872	0.4331	0.204	pCi/g	EPA 901.1M	6/18/04 18:38	MS
U-238	1.202	1.3082	0.259	pCi/g	EPA 901.1M	6/18/04 18:38	MS
K-40	7.711	0.6096	0.073	pCi/g	EPA 901.1M	6/18/04 18:38	MS
BI-214	0.555	0.0618	0.017	pCi/g	EPA 901.1M	6/18/04 18:38	MS
PB-212	0.985	0.0654	0.017	pCi/g	EPA 901.1M	6/18/04 18:38	MS
AM-241	0.015	0.0502	0.029	pCi/g	EPA 901.1M	6/18/04 18:38	MS
Total Activity	24.272	NA	NA	pCi/g	EPA 901.1M	6/18/04 18:38	MS
Percent Moisture	13.820	N/A	N/A	%	Moisture	6/18/04 18:38	JF

Notes: Project Number: Curtis Bay Army Depot

Quality Assurance Review

Notes: American Radiation Services, Inc. assumes no liability for the use or interpretation of any analytical results provided other than the cost of the analysis itself. Reproduction of this report in less than full requires the written consent of the client.



2609 North River Road Port Allen, Louisiana 70767
1 (800) 401-4277 FAX (225) 381-2996

ARS Tracking Number: ARS040993

Request or PO Number: 406059

Client ID: 406059-049-049

ARS Sample ID: ARS040993-3341

Date Sampled: 6/7/04

Date Received: 6/11/04

Time Sampled: NA

Time Received: 1020

Type of Sample: Solid

Date of Report: 6/22/04

Analysis Description	Analysis Results	Analysis Error +/- 2 Sigma	MDC	Analysis Units	Analysis Test Method	Analysis Date / Time	Analysis Technician
RA-226	2.120	0.5156	0.256	pCi/g	EPA 901.1M	6/18/04 16:35	MS
Ra-228	0.677	0.1083	0.035	pCi/g	EPA 901.1M	6/18/04 16:35	MS
PB-210	2.822	0.7360	0.298	pCi/g	EPA 901.1M	6/18/04 16:35	MS
U-238	0.733	1.0448	0.352	pCi/g	EPA 901.1M	6/18/04 16:35	MS
K-40	5.843	0.6300	0.115	pCi/g	EPA 901.1M	6/18/04 16:35	MS
BI-214	0.616	0.0853	0.027	pCi/g	EPA 901.1M	6/18/04 16:35	MS
PB-212	1.014	0.0722	0.015	pCi/g	EPA 901.1M	6/18/04 16:35	MS
AM-241	0.000	0.0576	0.034	pCi/g	EPA 901.1M	6/18/04 16:35	MS
Total Activity	22.714	NA	NA	pCi/g	EPA 901.1M	6/18/04 16:35	MS
Percent Moisture	17.920	N/A	N/A	%	Moisture	6/18/04 16:35	JF

Notes: Project Number: Curtis Bay Army Depot

Quality Assurance Review

Notes: American Radiation Services, Inc. assumes no liability for the use or interpretation of any analytical results provided other than the cost of the analysis itself. Reproduction of this report in less than full requires the written consent of the client.

J 621-15



2609 North River Road Port Allen, Louisiana 70767
1 (800) 401-4277 FAX (225) 381-2996

ARS Tracking Number: ARS040993

Request or PO Number: 406059

Client ID: 406059-050-050

ARS Sample ID: ARS040993-3342

Date Sampled: 6/7/04

Date Received: 6/11/04

Time Sampled: NA

Time Received: 1020

Type of Sample: Solid

Date of Report: 6/22/04

Analysis Description	Analysis Results	Analysis Error +/- 2 Sigma	MDC	Analysis Units	Analysis Test Method	Analysis Date / Time	Analysis Technician
RA-226	1.130	0.5468	0.188	pCi/g	EPA 901.1M	6/18/04 03:28	SMB
Ra-228	0.921	0.1240	0.027	pCi/g	EPA 901.1M	6/18/04 03:28	SMB
PB-210	1.515	0.6074	0.264	pCi/g	EPA 901.1M	6/18/04 03:28	SMB
U-238	1.622	0.5603	0.289	pCi/g	EPA 901.1M	6/18/04 03:28	SMB
K-40	6.987	0.5966	0.091	pCi/g	EPA 901.1M	6/18/04 03:28	SMB
BI-214	0.756	0.0753	0.020	pCi/g	EPA 901.1M	6/18/04 03:28	SMB
PB-212	1.109	0.0691	0.015	pCi/g	EPA 901.1M	6/18/04 03:28	SMB
AM-241	0.000	-0.0577	0.030	pCi/g	EPA 901.1M	6/18/04 03:28	SMB
Total Activity	26.684	NA	NA	pCi/g	EPA 901.1M	6/18/04 03:28	SMB
Percent Moisture	17.500	N/A	N/A	%	Moisture	6/18/04 03:28	JF

Notes: Project Number: Curtis Bay Army Depot

Quality Assurance Review

Notes: American Radiation Services, Inc. assumes no liability for the use or interpretation of any analytical results provided other than the cost of the analysis itself. Reproduction of this report in less than full requires the written consent of the client.

J621-18



2609 North River Road Port Allen, Louisiana 70767

1 (800) 401-4277 FAX (225) 331-2996

ARS Tracking Number: ARS040993

Request or PO Number: 406059

Client ID: 406059-051-051

ARS Sample ID: ARS040993-3343

Date Sampled: 6/7/04

Date Received: 6/11/04

Time Sampled: NA

Time Received: 1020

Type of Sample: Solid

Date of Report: 6/22/04

Analysis Description	Analysis Results	Analysis Error +/- 2 Sigma	MDC	Analysis Units	Analysis Test Method	Analysis Date / Time	Analysis Technician
RA-226	2.450	0.5708	0.295	pCi/g	EPA 901.1M	6/17/04 18:06	MS
Ra-228	2.440	0.2043	0.034	pCi/g	EPA 901.1M	6/17/04 18:06	MS
PB-210	1.867	0.5490	0.295	pCi/g	EPA 901.1M	6/17/04 18:06	MS
U-238	1.710	1.8630	0.398	pCi/g	EPA 901.1M	6/17/04 18:06	MS
K-40	4.642	0.5354	0.163	pCi/g	EPA 901.1M	6/17/04 18:06	MS
BI-214	1.471	0.1113	0.025	pCi/g	EPA 901.1M	6/17/04 18:06	MS
PB-212	2.841	0.1421	0.021	pCi/g	EPA 901.1M	6/17/04 18:06	MS
AM-241	0.013	0.0748	0.044	pCi/g	EPA 901.1M	6/17/04 18:06	MS
Total Activity	38.903	NA	NA	pCi/g	EPA 901.1M	6/17/04 18:06	MS
Percent Moisture	10.250	N/A	N/A	%	Moisture	6/17/04 18:06	JF

Notes: Project Number: Curtis Bay Army Depot

Quality Assurance Review

Notes: American Radiation Services, Inc. assumes no liability for the use or interpretation of any analytical results provided other than the cost of the analysis itself. Reproduction of this report in less than full requires the written consent of the client.



2609 North River Road Port Allen, Louisiana 70767
1 (800) 401-4277 FAX (225) 381-2996

ARS Tracking Number: ARS040993
Client ID: 406059-024-024
Date Sampled: 6/4/04
Time Sampled: NA
Type of Sample: Solid

Request or PO Number: 406059
ARS Sample ID: ARS040993-3316
Date Received: 6/11/04
Time Received: 1020
Date of Report: 6/22/04

Analysis Description	Analysis Results	Analysis Error +/- 2 Sigma	MDC	Analysis Units	Analysis Test Method	Analysis Date / Time	Analysis Technician
RA-226	0.137	0.4276	0.164	pCi/g	EPA 901.1M	6/14/04 19:23	MS
Ra-228	1.051	0.0981	0.020	pCi/g	EPA 901.1M	6/14/04 19:23	MS
PB-210	1.563	0.3665	0.198	pCi/g	EPA 901.1M	6/14/04 19:23	MS
U-238	0.000	0.0000	0.233	pCi/g	EPA 901.1M	6/14/04 19:23	MS
K-40	3.902	0.3582	0.075	pCi/g	EPA 901.1M	6/14/04 19:23	MS
BI-214	0.741	0.0643	0.018	pCi/g	EPA 901.1M	6/14/04 19:23	MS
PB-212	1.226	0.0652	0.014	pCi/g	EPA 901.1M	6/14/04 19:23	MS
AM-241	-0.029	-0.0625	0.025	pCi/g	EPA 901.1M	6/14/04 19:23	MS
Total Activity	24.593	NA	NA	pCi/g	EPA 901.1M	6/14/04 19:23	MS
Percent Moisture	8.426	N/A	N/A	%	Moisture	6/14/04 19:23	JF

Notes: Project Number: Curtis Bay Army Depot

Quality Assurance Review

Notes: American Radiation Services, Inc. assumes no liability for the use or interpretation of any analytical results provided other than the cost of the analysis itself. Reproduction of this report in less than full requires the written consent of the client.



2609 North River Road Port Allen, Louisiana 70767

1 (800) 401-4277

FAX (225) 381-2996

ARS Tracking Number: ARS040993

Request or PO Number: 406059

Client ID: 406059-025-025

ARS Sample ID: ARS040993-3317

Date Sampled: 6/4/04

Date Received: 6/11/04

Time Sampled: NA

Time Received: 1020

Type of Sample: Solid

Date of Report: 6/22/04

Analysis Description	Analysis Results	Analysis Error +/- 2 Sigma	MDC	Analysis Units	Analysis Test Method	Analysis Date / Time	Analysis Technician
RA-226	0.604	0.4296	0.164	pCi/g	EPA 901.1M	6/13/04 06:30	SMB
Ra-228	1.192	0.1015	0.020	pCi/g	EPA 901.1M	6/13/04 06:30	SMB
PB-210	1.325	0.3629	0.168	pCi/g	EPA 901.1M	6/13/04 06:30	SMB
U-238	1.488	0.6216	0.232	pCi/g	EPA 901.1M	6/13/04 06:30	SMB
K-40	3.029	0.3042	0.069	pCi/g	EPA 901.1M	6/13/04 06:30	SMB
BI-214	1.155	0.0757	0.015	pCi/g	EPA 901.1M	6/13/04 06:30	SMB
PB-212	1.393	0.0688	0.011	pCi/g	EPA 901.1M	6/13/04 06:30	SMB
AM-241	0.002	0.0370	0.022	pCi/g	EPA 901.1M	6/13/04 06:30	SMB
Total Activity	31.269	NA	NA	pCi/g	EPA 901.1M	6/13/04 06:30	SMB
Percent Moisture	8.105	N/A	N/A	%	Moisture	6/13/04 06:30	JF

Notes: Project Number: Curtis Bay Army Depot

Quality Assurance Review

Notes: American Radiation Services, Inc. assumes no liability for the use or interpretation of any analytical results provided other than the cost of the analysis itself. Reproduction of this report in less than full requires the written consent of the client.



2609 North River Road Port Allen, Louisiana 70767
1 (800) 401-4277 FAX (225) 381-2996

ARS Tracking Number: ARS040993

Request or PO Number: 406059

Client ID: 406059-026-026

ARS Sample ID: ARS040993-3318

Date Sampled: 6/4/04

Date Received: 6/11/04

Time Sampled: NA

Time Received: 1020

Type of Sample: Solid

Date of Report: 6/22/04

Analysis Description	Analysis Results	Analysis Error +/- 2 Sigma	MDC	Analysis Units	Analysis Test Method	Analysis Date / Time	Analysis Technician
RA-226	3.093	0.3835	0.187	pCi/g	EPA 901.1M	6/13/04 13:17	BJD
Ra-228	1.627	0.1213	0.021	pCi/g	EPA 901.1M	6/13/04 13:17	BJD
PB-210	1.665	0.3336	0.177	pCi/g	EPA 901.1M	6/13/04 13:17	BJD
U-238	1.587	0.6096	0.292	pCi/g	EPA 901.1M	6/13/04 13:17	BJD
K-40	4.158	0.3560	0.068	pCi/g	EPA 901.1M	6/13/04 13:17	BJD
BI-214	1.084	0.0769	0.018	pCi/g	EPA 901.1M	6/13/04 13:17	BJD
PB-212	1.981	0.0921	0.013	pCi/g	EPA 901.1M	6/13/04 13:17	BJD
AM-241	0.019	0.0420	0.024	pCi/g	EPA 901.1M	6/13/04 13:17	BJD
Total Activity	36.342	NA	NA	pCi/g	EPA 901.1M	6/13/04 13:17	BJD
Percent Moisture	7.200	N/A	N/A	%	Moisture	6/13/04 13:17	JF

Notes: Project Number: Curtis Bay Army Depot

Quality Assurance Review

Notes: American Radiation Services, Inc. assumes no liability for the use or interpretation of any analytical results provided other than the cost of the analysis itself. Reproduction of this report in less than full requires the written consent of the client.

UG22-05



2609 North River Road Port Allen, Louisiana 70767
1 (800) 401-4277 FAX (225) 381-2996

ARS Tracking Number: ARS040993

Request or PO Number: 406059

Client ID: 406059-027-027

ARS Sample ID: ARS040993-3319

Date Sampled: 6/4/04

Date Received: 6/11/04

Time Sampled: NA

Time Received: 1020

Type of Sample: Solid

Date of Report: 6/22/04

Analysis Description	Analysis Results	Analysis Error +/- 2 Sigma	MDC	Analysis Units	Analysis Test Method	Analysis Date / Time	Analysis Technician
RA-226	2.421	0.3770	0.184	pCi/g	EPA 901.1M	6/14/04 13:50	MS
Ra-228	1.061	0.1097	0.023	pCi/g	EPA 901.1M	6/14/04 13:50	MS
PB-210	2.184	0.5871	0.243	pCi/g	EPA 901.1M	6/14/04 13:50	MS
U-238	1.055	0.8135	0.245	pCi/g	EPA 901.1M	6/14/04 13:50	MS
K-40	5.773	0.4729	0.083	pCi/g	EPA 901.1M	6/14/04 13:50	MS
BI-214	0.757	0.0804	0.023	pCi/g	EPA 901.1M	6/14/04 13:50	MS
PB-212	1.167	0.0648	0.013	pCi/g	EPA 901.1M	6/14/04 13:50	MS
AM-241	-0.001	-0.0524	0.025	pCi/g	EPA 901.1M	6/14/04 13:50	MS
Total Activity	26.076	NA	NA	pCi/g	EPA 901.1M	6/14/04 13:50	MS
Percent Moisture	15.090	N/A	N/A	%	Moisture	6/14/04 13:50	JF

Notes: Project Number: Curtis Bay Army Depot

Quality Assurance Review

Notes: American Radiation Services, Inc. assumes no liability for the use or interpretation of any analytical results provided other than the cost of the analysis itself. Reproduction of this report in less than full requires the written consent of the client.

J622-05



2609 North River Road Port Allen, Louisiana 70767
1 (800) 401-4277 FAX (225) 381-2996

ARS Tracking Number: ARS040993

Request or PO Number: 406059

Client ID: 406059-028-028

ARS Sample ID: ARS040993-3320

Date Sampled: 6/4/04

Date Received: 6/11/04

Time Sampled: NA

Time Received: 1020

Type of Sample: Solid

Date of Report: 6/22/04

Analysis Description	Analysis Results	Analysis Error +/- 2 Sigma	MDC	Analysis Units	Analysis Test Method	Analysis Date / Time	Analysis Technician
RA-226	1.156	0.4990	0.265	pCi/g	EPA 901.1M	6/19/04 17:17	WLM
Ra-228	1.066	0.1066	0.026	pCi/g	EPA 901.1M	6/19/04 17:17	WLM
PB-210	1.681	0.5938	0.279	pCi/g	EPA 901.1M	6/19/04 17:17	WLM
U-238	0.000	0.0000	0.430	pCi/g	EPA 901.1M	6/19/04 17:17	WLM
K-40	7.858	0.7259	0.101	pCi/g	EPA 901.1M	6/19/04 17:17	WLM
BI-214	0.746	0.0937	0.028	pCi/g	EPA 901.1M	6/19/04 17:17	WLM
PB-212	1.166	0.0828	0.020	pCi/g	EPA 901.1M	6/19/04 17:17	WLM
AM-241	0.008	0.0637	0.037	pCi/g	EPA 901.1M	6/19/04 17:17	WLM
Total Activity	28.246	NA	NA	pCi/g	EPA 901.1M	6/19/04 17:17	WLM
Percent Moisture	18.240	N/A	N/A	%	Moisture	6/19/04 17:17	JF

Notes: Project Number: Curtis Bay Army Depot

Quality Assurance Review

Notes: American Radiation Services, Inc. assumes no liability for the use or interpretation of any analytical results provided other than the cost of the analysis itself. Reproduction of this report in less than full requires the written consent of the client.

5622-00



2609 North River Road Port Allen, Louisiana 70767

1 (800) 401-4277 FAX (225) 381-2996

ARS Tracking Number: ARS040993

Request or PO Number: 406059

Client ID: 406059-029-029

ARS Sample ID: ARS040993-3321

Date Sampled: 6/4/04

Date Received: 6/11/04

Time Sampled: NA

Time Received: 1020

Type of Sample: Solid

Date of Report: 6/22/04

Analysis Description	Analysis Results	Analysis Error +/- 2 Sigma	MDC	Analysis Units	Analysis Test Method	Analysis Date / Time	Analysis Technician
RA-226	0.953	0.3807	0.200	pCi/g	EPA 901.1M	6/19/04 06:11	MS
Ra-228	0.549	0.0705	0.025	pCi/g	EPA 901.1M	6/19/04 06:11	MS
PB-210	0.437	0.4143	0.216	pCi/g	EPA 901.1M	6/19/04 06:11	MS
U-238	0.000	0.0000	0.250	pCi/g	EPA 901.1M	6/19/04 06:11	MS
K-40	1.219	0.2974	0.125	pCi/g	EPA 901.1M	6/19/04 06:11	MS
BI-214	0.346	0.0570	0.021	pCi/g	EPA 901.1M	6/19/04 06:11	MS
PB-212	0.637	0.0507	0.015	pCi/g	EPA 901.1M	6/19/04 06:11	MS
AM-241	-0.008	-0.2686	0.026	pCi/g	EPA 901.1M	6/19/04 06:11	MS
Total Activity	7.207	NA	NA	pCi/g	EPA 901.1M	6/19/04 06:11	MS
Percent Moisture	10.120	N/A	N/A	%	Moisture	6/19/04 06:11	JF

Notes: Project Number: Curtis Bay Army Depot

Quality Assurance Review

Notes: American Radiation Services, Inc. assumes no liability for the use or interpretation of any analytical results provided other than the cost of the analysis itself. Reproduction of this report in less than full requires the written consent of the client.

J622-01



2609 North River Road Port Allen, Louisiana 70767

1 (800) 401-4277

FAX (225) 381-2996

ARS Tracking Number: ARS040993

Request or PO Number: 406059

Client ID: 406059-030-030

ARS Sample ID: ARS040993-3322

Date Sampled: 6/4/04

Date Received: 6/11/04

Time Sampled: NA

Time Received: 1020

Type of Sample: Solid

Date of Report: 6/22/04

Analysis Description	Analysis Results	Analysis Error +/- 2 Sigma	MDC	Analysis Units	Analysis Test Method	Analysis Date / Time	Analysis Technician
RA-226	1.202	0.4717	0.248	pCi/g	EPA 901.1M	6/17/04 23:10	SMB
Ra-228	0.879	0.1176	0.026	pCi/g	EPA 901.1M	6/17/04 23:10	SMB
PB-210	2.024	0.7010	0.305	pCi/g	EPA 901.1M	6/17/04 23:10	SMB
U-238	2.865	0.5695	0.383	pCi/g	EPA 901.1M	6/17/04 23:10	SMB
K-40	4.362	0.5434	0.143	pCi/g	EPA 901.1M	6/17/04 23:10	SMB
BI-214	0.723	0.0906	0.026	pCi/g	EPA 901.1M	6/17/04 23:10	SMB
PB-212	1.167	0.0807	0.019	pCi/g	EPA 901.1M	6/17/04 23:10	SMB
AM-241	0.032	0.0605	0.035	pCi/g	EPA 901.1M	6/17/04 23:10	SMB
Total Activity	30.505	NA	NA	pCi/g	EPA 901.1M	6/17/04 23:10	SMB
Percent Moisture	13.940	N/A	N/A	%	Moisture	6/17/04 23:10	JF

Notes: Project Number: Curtis Bay Army Depot

Quality Assurance Review

Notes: American Radiation Services, Inc. assumes no liability for the use or interpretation of any analytical results provided other than the cost of the analysis itself. Reproduction of this report in less than full requires the written consent of the client.

5622-06



2609 North River Road Port Allen, Louisiana 70767
1 (800) 401-4277 FAX (225) 381-2996

ARS Tracking Number: ARS040993

Request or PO Number: 406059

Client ID: 406059-031-031

ARS Sample ID: ARS040993-3323

Date Sampled: 6/4/04

Date Received: 6/11/04

Time Sampled: NA

Time Received: 1020

Type of Sample: Solid

Date of Report: 6/22/04

Analysis Description	Analysis Results	Analysis Error +/- 2 Sigma	MDC	Analysis Units	Analysis Test Method	Analysis Date / Time	Analysis Technician
RA-226	0.472	0.6529	0.253	pCi/g	EPA 901.1M	6/18/04 08:05	SMB
Ra-228	0.983	0.1087	0.038	pCi/g	EPA 901.1M	6/18/04 08:05	SMB
PB-210	1.183	0.5457	0.307	pCi/g	EPA 901.1M	6/18/04 08:05	SMB
U-238	2.706	0.5859	0.429	pCi/g	EPA 901.1M	6/18/04 08:05	SMB
K-40	7.681	0.7170	0.107	pCi/g	EPA 901.1M	6/18/04 08:05	SMB
BI-214	0.829	0.0934	0.027	pCi/g	EPA 901.1M	6/18/04 08:05	SMB
PB-212	1.222	0.0834	0.019	pCi/g	EPA 901.1M	6/18/04 08:05	SMB
AM-241	0.001	0.0650	0.038	pCi/g	EPA 901.1M	6/18/04 08:05	SMB
Total Activity	28.244	NA	NA	pCi/g	EPA 901.1M	6/18/04 08:05	SMB
Percent Moisture	16.300	N/A	N/A	%	Moisture	6/18/04 08:05	JF

Notes: Project Number: Curtis Bay Army Depot

Quality Assurance Review

Notes: American Radiation Services, Inc. assumes no liability for the use or interpretation of any analytical results provided other than the cost of the analysis itself. Reproduction of this report in less than full requires the written consent of the client.

5622-41



2609 North River Road Port Allen, Louisiana 70767
1 (800) 401-4277 FAX (225) 381-2996

ARS Tracking Number: ARS040993

Request or PO Number: 406059

Client ID: 406059-032-032

ARS Sample ID: ARS040993-3324

Date Sampled: 6/4/04

Date Received: 6/11/04

Time Sampled: NA

Time Received: 1020

Type of Sample: Solid

Date of Report: 6/22/04

Analysis Description	Analysis Results	Analysis Error +/- 2 Sigma	MDC	Analysis Units	Analysis Test Method	Analysis Date / Time	Analysis Technician
RA-226	3.078	0.6173	0.298	pCi/g	EPA 901.1M	6/19/04 16:10	WLM
Ra-228	1.342	0.1354	0.034	pCi/g	EPA 901.1M	6/19/04 16:10	WLM
PB-210	1.643	0.8437	0.374	pCi/g	EPA 901.1M	6/19/04 16:10	WLM
U-238	0.000	0.0000	0.399	pCi/g	EPA 901.1M	6/19/04 16:10	WLM
K-40	3.556	0.5237	0.158	pCi/g	EPA 901.1M	6/19/04 16:10	WLM
BI-214	1.011	0.1060	0.029	pCi/g	EPA 901.1M	6/19/04 16:10	WLM
PB-212	1.570	0.1010	0.021	pCi/g	EPA 901.1M	6/19/04 16:10	WLM
AM-241	-0.031	-0.1180	0.041	pCi/g	EPA 901.1M	6/19/04 16:10	WLM
Total Activity	24.711	NA	NA	pCi/g	EPA 901.1M	6/19/04 16:10	WLM
Percent Moisture	14.610	N/A	N/A	%	Moisture	6/19/04 16:10	JF

Notes: Project Number: Curtis Bay Army Depot

Quality Assurance Review

Notes: American Radiation Services, Inc. assumes no liability for the use or interpretation of any analytical results provided other than the cost of the analysis itself. Reproduction of this report in less than full requires the written consent of the client.

J 6 6 1 5



2609 North River Road Port Allen, Louisiana 70767
1 (800) 401-4277 FAX (225) 381-2996

ARS Tracking Number: ARS040993

Request or PO Number: 406059

Client ID: 406059-033-033

ARS Sample ID: ARS040993-3325

Date Sampled: 6/4/04

Date Received: 6/11/04

Time Sampled: NA


Time Received: 1020

Type of Sample: Solid

Date of Report: 6/22/04

Analysis Description	Analysis Results	Analysis Error +/- 2 Sigma	MDC	Analysis Units	Analysis Test Method	Analysis Date / Time	Analysis Technician
RA-226	1.658	0.5706	0.299	pCi/g	EPA 901.1M	6/20/04 15:06	WLM
Ra-228	1.235	0.1474	0.032	pCi/g	EPA 901.1M	6/20/04 15:06	WLM
PB-210	1.517	0.7650	0.356	pCi/g	EPA 901.1M	6/20/04 15:06	WLM
U-238	0.000	0.0000	0.419	pCi/g	EPA 901.1M	6/20/04 15:06	WLM
K-40	9.480	0.8628	0.141	pCi/g	EPA 901.1M	6/20/04 15:06	WLM
BI-214	1.118	0.1149	0.031	pCi/g	EPA 901.1M	6/20/04 15:06	WLM
PB-212	1.531	0.0993	0.021	pCi/g	EPA 901.1M	6/20/04 15:06	WLM
AM-241	-0.029	-0.1262	0.043	pCi/g	EPA 901.1M	6/20/04 15:06	WLM
Total Activity	33.734	NA	NA	pCi/g	EPA 901.1M	6/20/04 15:06	WLM
Percent Moisture	16.690	N/A	N/A	%	Moisture	6/20/04 15:06	JF

Notes: Project Number: Curtis Bay Army Depot


Quality Assurance Review

Notes: American Radiation Services, Inc. assumes no liability for the use or interpretation of any analytical results provided other than the cost of the analysis itself. Reproduction of this report in less than full requires the written consent of the client.

5622-11



2609 North River Road Port Allen, Louisiana 70767
1 (800) 401-4277 FAX (225) 381-2996

ARS Tracking Number: ARS040993
Client ID: 406059-034-034
Date Sampled: 6/4/04
Time Sampled: NA
Type of Sample: Solid

Request or PO Number: 406059
ARS Sample ID: ARS040993-3326
Date Received: 6/11/04
Time Received: 1020
Date of Report: 6/22/04

Analysis Description	Analysis Results	Analysis Error +/- 2 Sigma	MDC	Analysis Units	Analysis Test Method	Analysis Date / Time	Analysis Technician
RA-226	0.054	0.4257	0.155	pCi/g	EPA 901.1M	6/18/04 07:04	SMB
Ra-228	0.251	0.0577	0.025	pCi/g	EPA 901.1M	6/18/04 07:04	SMB
PB-210	0.385	0.3444	0.174	pCi/g	EPA 901.1M	6/18/04 07:04	SMB
U-238	0.719	0.2523	0.171	pCi/g	EPA 901.1M	6/18/04 07:04	SMB
K-40	2.118	0.3325	0.103	pCi/g	EPA 901.1M	6/18/04 07:04	SMB
BI-214	0.250	0.0488	0.018	pCi/g	EPA 901.1M	6/18/04 07:04	SMB
PB-212	0.397	0.0379	0.011	pCi/g	EPA 901.1M	6/18/04 07:04	SMB
AM-241	0.000	-0.0302	0.018	pCi/g	EPA 901.1M	6/18/04 07:04	SMB
Total Activity	5.156	NA	NA	pCi/g	EPA 901.1M	6/18/04 07:04	SMB
Percent Moisture	12.690	N/A	N/A	%	Moisture	6/18/04 07:04	JF

Notes: Project Number: Curtis Bay Army Depot

Quality Assurance Review

Notes: American Radiation Services, Inc. assumes no liability for the use or interpretation of any analytical results provided other than the cost of the analysis itself. Reproduction of this report in less than full requires the written consent of the client.

J 622 -16



2609 North River Road Port Allen, Louisiana 70767
1 (800) 401-4277 FAX (225) 381-2996

ARS Tracking Number: ARS040993

Request or PO Number: 406059

Client ID: 406059-035-035

ARS Sample ID: ARS040993-3327

Date Sampled: 6/4/04

Date Received: 6/11/04

Time Sampled: NA

Time Received: 1020

Type of Sample: Solid

Date of Report: 6/22/04

Analysis Description	Analysis Results	Analysis Error +/- 2 Sigma	MDC	Analysis Units	Analysis Test Method	Analysis Date / Time	Analysis Technician
RA-226	2.559	0.4965	0.245	pCi/g	EPA 901.1M	6/19/04 13:50	WLM
Ra-228	1.216	0.1168	0.028	pCi/g	EPA 901.1M	6/19/04 13:50	WLM
PB-210	1.976	0.6218	0.271	pCi/g	EPA 901.1M	6/19/04 13:50	WLM
U-238	2.132	0.5993	0.394	pCi/g	EPA 901.1M	6/19/04 13:50	WLM
K-40	9.915	0.7605	0.094	pCi/g	EPA 901.1M	6/19/04 13:50	WLM
BI-214	0.969	0.0914	0.023	pCi/g	EPA 901.1M	6/19/04 13:50	WLM
PB-212	1.369	0.0824	0.016	pCi/g	EPA 901.1M	6/19/04 13:50	WLM
AM-241	-0.005	-1.4778	0.035	pCi/g	EPA 901.1M	6/19/04 13:50	WLM
Total Activity	32.676	NA	NA	pCi/g	EPA 901.1M	6/19/04 13:50	WLM
Percent Moisture	16.670	N/A	N/A	%	Moisture	6/19/04 13:50	JF

Notes: Project Number: Curtis Bay Army Depot

Quality Assurance Review

Notes: American Radiation Services, Inc. assumes no liability for the use or interpretation of any analytical results provided other than the cost of the analysis itself. Reproduction of this report in less than full requires the written consent of the client.

J622-15



2609 North River Road Port Allen, Louisiana 70767
1 (800) 401-4277 FAX (225) 381-2996

ARS Tracking Number: ARS040993

Request or PO Number: 406059

Client ID: 406059-036-036

ARS Sample ID: ARS040993-3328

Date Sampled: 6/4/04

Date Received: 6/11/04

Time Sampled: NA

Time Received: 1020

Type of Sample: Solid

Date of Report: 6/22/04

Analysis Description	Analysis Results	Analysis Error +/- 2 Sigma	MDC	Analysis Units	Analysis Test Method	Analysis Date / Time	Analysis Technician
RA-226	0.699	0.7143	0.278	pCi/g	EPA 901.1M	6/19/04 08:58	MS
Ra-228	1.919	0.1753	0.028	pCi/g	EPA 901.1M	6/19/04 08:58	MS
PB-210	2.326	0.8033	0.337	pCi/g	EPA 901.1M	6/19/04 08:58	MS
U-238	0.000	0.0000	0.453	pCi/g	EPA 901.1M	6/19/04 08:58	MS
K-40	4.484	0.5200	0.147	pCi/g	EPA 901.1M	6/19/04 08:58	MS
Bi-214	1.441	0.1204	0.028	pCi/g	EPA 901.1M	6/19/04 08:58	MS
PB-212	2.233	0.1195	0.020	pCi/g	EPA 901.1M	6/19/04 08:58	MS
AM-241	0.014	0.0710	0.041	pCi/g	EPA 901.1M	6/19/04 08:58	MS
Total Activity	29.584	NA	NA	pCi/g	EPA 901.1M	6/19/04 08:58	MS
Percent Moisture	7.937	N/A	N/A	%	Moisture	6/19/04 08:58	JF

Notes: Project Number: Curtis Bay Army Depot

Quality Assurance Review

Notes: American Radiation Services, Inc. assumes no liability for the use or interpretation of any analytical results provided other than the cost of the analysis itself. Reproduction of this report in less than full requires the written consent of the client.



2609 North River Road Port Allen, Louisiana 70767

1 (800) 401-4277

FAX (225) 381-2996

ARS Tracking Number: ARS040993

Request or PO Number: 406059

Client ID: 406059-037-037

ARS Sample ID: ARS040993-3329

Date Sampled: 6/4/04

Date Received: 6/11/04

Time Sampled: NA

Time Received: 1020

Type of Sample: Solid

Date of Report: 6/22/04

Analysis Description	Analysis Results	Analysis Error +/- 2 Sigma	MDC	Analysis Units	Analysis Test Method	Analysis Date / Time	Analysis Technician
RA-226	2.183	0.6167	0.321	pCi/g	EPA 901.1M	6/19/04 04:04	MS
Ra-228	1.610	0.1917	0.040	pCi/g	EPA 901.1M	6/19/04 04:04	MS
PB-210	2.011	0.7752	0.352	pCi/g	EPA 901.1M	6/19/04 04:04	MS
U-238	1.902	1.1859	0.439	pCi/g	EPA 901.1M	6/19/04 04:04	MS
K-40	5.006	0.5818	0.110	pCi/g	EPA 901.1M	6/19/04 04:04	MS
BI-214	1.603	0.1384	0.032	pCi/g	EPA 901.1M	6/19/04 04:04	MS
PB-212	1.849	0.1117	0.024	pCi/g	EPA 901.1M	6/19/04 04:04	MS
AM-241	0.016	0.0748	0.043	pCi/g	EPA 901.1M	6/19/04 04:04	MS
Total Activity	36.577	NA	NA	pCi/g	EPA 901.1M	6/19/04 04:04	MS
Percent Moisture	12.830	N/A	N/A	%	Moisture	6/19/04 04:04	JF

Notes: Project Number: Curtis Bay Army Depot

Quality Assurance Review

Notes: American Radiation Services, Inc. assumes no liability for the use or interpretation of any analytical results provided other than the cost of the analysis itself. Reproduction of this report in less than full requires the written consent of the client.

AB-01



2609 North River Road Port Allen, Louisiana 70767
1 (800) 401-4277 FAX (225) 381-2996

ARS Tracking Number: ARS041134
Client ID: 406153-040-040
Date Sampled: 6/22/04
Time Sampled: NA
Type of Sample: Solid

Request or PO Number: 406153
ARS Sample ID: ARS041134-3890
Date Received: 6/30/04
Time Received: 1100
Date of Report: 7/19/04

Analysis Description	Analysis Results	Analysis Error +/- 2 Sigma	MDC	Analysis Units	Analysis Test Method	Analysis Date / Time	Analysis Technician
RA-226	0.494	0.6325	0.243	pCi/g	EPA 901.1M	7/17/04 00:16	DM
Ra-228	1.724	0.1522	0.027	pCi/g	EPA 901.1M	7/17/04 00:16	DM
PB-210	1.903	0.5153	0.274	pCi/g	EPA 901.1M	7/17/04 00:16	DM
U-238	1.832	1.6088	0.400	pCi/g	EPA 901.1M	7/17/04 00:16	DM
K-40	3.276	0.4117	0.114	pCi/g	EPA 901.1M	7/17/04 00:16	DM
BI-214	1.187	0.0980	0.023	pCi/g	EPA 901.1M	7/17/04 00:16	DM
PB-212	2.108	0.1111	0.018	pCi/g	EPA 901.1M	7/17/04 00:16	DM
CS-137	0.201	0.0405	0.012	pCi/g	EPA 901.1M	7/17/04 00:16	DM
CO-60	-0.008	-0.0758	0.012	pCi/g	EPA 901.1M	7/17/04 00:16	DM
AM-241	-0.022	-0.1068	0.038	pCi/g	EPA 901.1M	7/17/04 00:16	DM
Total Activity	29.154	NA	NA	pCi/g	EPA 901.1M	7/17/04 00:16	DM
Percent Moisture	14.980	N/A	N/A	%	Moisture	7/07/04 08:20	KB

Notes: Project Name: Curtis Bay Army Depot.

Quality Assurance Review

Notes: American Radiation Services, Inc. assumes no liability for the use or interpretation of any analytical results provided other than the cost of the analysis itself. Reproduction of this report in less than full requires the written consent of the client.

KB-02



2609 North River Road Port Allen, Louisiana 70767
1 (800) 401-4277 FAX (225) 581-2996

ARS Tracking Number: ARS041134

Request or PO Number: 406153

Client ID: 406153-041-041

ARS Sample ID: ARS041134-3891

Date Sampled: 6/22/04

Date Received: 6/30/04

Time Sampled: NA

Time Received: 1100

Type of Sample: Solid

Date of Report: 7/19/04

Analysis Description	Analysis Results	Analysis Error +/- 2 Sigma	MDC	Analysis Units	Analysis Test Method	Analysis Date / Time	Analysis Technician
RA-226	1.640	0.4116	0.202	pCi/g	EPA 901.1M	7/17/04 13:12	BJD
Ra-228	0.498	0.0922	0.030	pCi/g	EPA 901.1M	7/17/04 13:12	BJD
PB-210	2.478	0.5618	0.236	pCi/g	EPA 901.1M	7/17/04 13:12	BJD
U-238	0.606	1.1275	0.277	pCi/g	EPA 901.1M	7/17/04 13:12	BJD
K-40	2.571	0.3967	0.122	pCi/g	EPA 901.1M	7/17/04 13:12	BJD
BI-214	0.436	0.0630	0.021	pCi/g	EPA 901.1M	7/17/04 13:12	BJD
PB-212	0.613	0.0537	0.016	pCi/g	EPA 901.1M	7/17/04 13:12	BJD
CS-137	0.421	0.0401	0.006	pCi/g	EPA 901.1M	7/17/04 13:12	BJD
CO-60	-0.010	-0.0675	0.011	pCi/g	EPA 901.1M	7/17/04 13:12	BJD
AM-241	-0.022	-0.0883	0.029	pCi/g	EPA 901.1M	7/17/04 13:12	BJD
Total Activity	13.382	NA	NA	pCi/g	EPA 901.1M	7/17/04 13:12	BJD
Percent Moisture	26.610	N/A	N/A	%	Moisture	7/07/04 08:20	KB

Notes: Project Name: Curtis Bay Army Depot

Quality Assurance Review

Notes: American Radiation Services, Inc. assumes no liability for the use or interpretation of any analytical results provided other than the cost of the analysis itself. Reproduction of this report in less than full requires the written consent of the client.



2609 North River Road Port Allen, Louisiana 70767
1 (800) 401-4277 FAX (225) 381-2996

K5-03

ARS Tracking Number: ARS041134

Request or PO Number: 406153

Client ID: 406153-042-042

ARS Sample ID: ARS041134-3892

Date Sampled: 6/22/04

Date Received: 6/30/04

Time Sampled: NA

Time Received: 1100

Type of Sample: Solid

Date of Report: 7/19/04

Analysis Description	Analysis Results	Analysis Error +/- 2 Sigma	MDC	Analysis Units	Analysis Test Method	Analysis Date / Time	Analysis Technician
RA-226	1.405	0.7490	0.274	pCi/g	EPA 901.1M	7/17/04 06:21	DM
Ra-228	2.199	0.1877	0.028	pCi/g	EPA 901.1M	7/17/04 06:21	DM
PB-210	2.264	0.5522	0.290	pCi/g	EPA 901.1M	7/17/04 06:21	DM
U-238	0.000	0.0000	0.400	pCi/g	EPA 901.1M	7/17/04 06:21	DM
K-40	3.699	0.4538	0.132	pCi/g	EPA 901.1M	7/17/04 06:21	DM
BI-214	1.278	0.1085	0.026	pCi/g	EPA 901.1M	7/17/04 06:21	DM
PB-212	2.547	0.1295	0.020	pCi/g	EPA 901.1M	7/17/04 06:21	DM
CS-137	0.458	0.0462	0.011	pCi/g	EPA 901.1M	7/17/04 06:21	DM
CO-60	0.005	0.0194	0.011	pCi/g	EPA 901.1M	7/17/04 06:21	DM
AM-241	-0.029	-0.1068	0.043	pCi/g	EPA 901.1M	7/17/04 06:21	DM
Total Activity	32.852	NA	NA	pCi/g	EPA 901.1M	7/17/04 06:21	DM
Percent Moisture	21.250	N/A	N/A	%	Moisture	7/07/04 08:20	KB

Notes: Project Name: Curtis Bay Army Depot

Quality Assurance Review

Notes: American Radiation Services, Inc. assumes no liability for the use or interpretation of any analytical results provided other than the cost of the analysis itself. Reproduction of this report in less than full requires the written consent of the client.

KB-04



2609 North River Road Port Allen, Louisiana 70767
1 (800) 401-4277 FAX (225) 381-2996

ARS Tracking Number: ARS041134

Request or PO Number: 406153

Client ID: 406153-043-043

ARS Sample ID: ARS041134-3893

Date Sampled: 6/22/04

Date Received: 6/30/04

Time Sampled: NA

Time Received: 1100

Type of Sample: Solid

Date of Report: 7/19/04

Analysis Description	Analysis Results	Analysis Error +/- 2 Sigma	MDC	Analysis Units	Analysis Test Method	Analysis Date / Time	Analysis Technician
RA-226	1.714	0.9248	0.311	pCi/g	EPA 901.1M	7/16/04 05:41	CSG
Ra-228	1.596	0.1679	0.044	pCi/g	EPA 901.1M	7/16/04 05:41	CSG
PB-210	2.801	1.0262	0.447	pCi/g	EPA 901.1M	7/16/04 05:41	CSG
U-238	1.693	1.4016	0.557	pCi/g	EPA 901.1M	7/16/04 05:41	CSG
K-40	7.073	0.7820	0.136	pCi/g	EPA 901.1M	7/16/04 05:41	CSG
BI-214	0.985	0.1118	0.033	pCi/g	EPA 901.1M	7/16/04 05:41	CSG
PB-212	1.774	0.1195	0.026	pCi/g	EPA 901.1M	7/16/04 05:41	CSG
CS-137	0.395	0.0571	0.014	pCi/g	EPA 901.1M	7/16/04 05:41	CSG
CO-60	-0.010	-2.6936	0.020	pCi/g	EPA 901.1M	7/16/04 05:41	CSG
AM-241	0.022	0.0824	0.048	pCi/g	EPA 901.1M	7/16/04 05:41	CSG
Total Activity	35.233	NA	NA	pCi/g	EPA 901.1M	7/16/04 05:41	CSG
Percent Moisture	16.770	N/A	N/A	%	Moisture	7/07/04 08:20	KB

Notes: Project Name: Curtis Bay Army Depot

Quality Assurance Review

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2609 North River Road Port Allen, Louisiana 70767
1 (800) 401-4277 FAX (225) 381-2996

ARS Tracking Number: ARS041134
Client ID: 406153-044-044
Date Sampled: 6/22/04
Time Sampled: NA
Type of Sample: Solid

Request or PO Number: 406153
ARS Sample ID: ARS041134-3894
Date Received: 6/30/04
Time Received: 1100
Date of Report: 7/19/04

Analysis Description	Analysis Results	Analysis Error +/- 2 Sigma	MDC	Analysis Units	Analysis Test Method	Analysis Date / Time	Analysis Technician
RA-226	3.296	0.6544	0.320	pCi/g	EPA 901.1M	7/14/04 10:28	MS
Ra-228	1.526	0.1539	0.027	pCi/g	EPA 901.1M	7/14/04 10:28	MS
PB-210	2.962	0.6621	0.337	pCi/g	EPA 901.1M	7/14/04 10:28	MS
U-238	0.000	0.0000	0.451	pCi/g	EPA 901.1M	7/14/04 10:28	MS
K-40	7.222	0.7373	0.128	pCi/g	EPA 901.1M	7/14/04 10:28	MS
BI-214	1.090	0.1125	0.032	pCi/g	EPA 901.1M	7/14/04 10:28	MS
PB-212	1.735	0.1071	0.021	pCi/g	EPA 901.1M	7/14/04 10:28	MS
CS-137	0.257	0.0439	0.012	pCi/g	EPA 901.1M	7/14/04 10:28	MS
CO-60	-0.017	-0.0754	0.018	pCi/g	EPA 901.1M	7/14/04 10:28	MS
AM-241	0.026	0.0786	0.046	pCi/g	EPA 901.1M	7/14/04 10:28	MS
Total Activity	37.597	NA	NA	pCi/g	EPA 901.1M	7/14/04 10:28	MS
Percent Moisture	20.600	N/A	N/A	%	Moisture	7/07/04 08:20	KB

Notes: Project Name: Curtis Bay Army Depot

Quality Assurance Review

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2609 North River Road Port Allen, Louisiana 70767
1 (800) 401-4277 FAX (225) 381-2996

ARS Tracking Number: ARS041134
Client ID: 406153-045-045
Date Sampled: 6/22/04
Time Sampled: NA
Type of Sample: Solid

Request or PO Number: 406153
ARS Sample ID: ARS041134-3895
Date Received: 6/30/04
Time Received: 1100
Date of Report: 7/19/04

Analysis Description	Analysis Results	Analysis Error +/- 2 Sigma	MDC	Analysis Units	Analysis Test Method	Analysis Date / Time	Analysis Technician
RA-226	0.896	0.7468	0.278	pCi/g	EPA 901.1M	7/15/04 19:08	CSG
Ra-228	1.137	0.1428	0.027	pCi/g	EPA 901.1M	7/15/04 19:08	CSG
PB-210	4.220	0.7148	0.337	pCi/g	EPA 901.1M	7/15/04 19:08	CSG
U-238	0.000	0.0000	0.417	pCi/g	EPA 901.1M	7/15/04 19:08	CSG
K-40	8.108	0.7637	0.147	pCi/g	EPA 901.1M	7/15/04 19:08	CSG
BI-214	0.903	0.1115	0.031	pCi/g	EPA 901.1M	7/15/04 19:08	CSG
PB-212	1.212	0.0743	0.021	pCi/g	EPA 901.1M	7/15/04 19:08	CSG
CS-137	0.281	0.0459	0.012	pCi/g	EPA 901.1M	7/15/04 19:08	CSG
CO-60	-0.008	-0.8594	0.015	pCi/g	EPA 901.1M	7/15/04 19:08	CSG
AM-241	-0.001	-0.0812	0.042	pCi/g	EPA 901.1M	7/15/04 19:08	CSG
Total Activity	25.719	NA	NA	pCi/g	EPA 901.1M	7/15/04 19:08	CSG
Percent Moisture	32.020	N/A	N/A	%	Moisture	7/07/04 08:20	KB

Notes: Project Name: Curtis Bay Army Depot

Quality Assurance Review

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2609 North River Road Port Allen, Louisiana 70767
1 (800) 401-4277 FAX (225) 381-2996

KB-07

ARS Tracking Number: ARS041134

Request or PO Number: 406153

Client ID: 406153-046-046

ARS Sample ID: ARS041134-3896

Date Sampled: 6/22/04

Date Received: 6/30/04

Time Sampled: NA

Time Received: 1100

Type of Sample: Solid

Date of Report: 7/19/04

Analysis Description	Analysis Results	Analysis Error +/- 2 Sigma	MDC	Analysis Units	Analysis Test Method	Analysis Date / Time	Analysis Technician
RA-226	1.231	0.6040	0.220	pCi/g	EPA 901.1M	7/17/04 12:11	BJD
Ra-228	1.179	0.1286	0.022	pCi/g	EPA 901.1M	7/17/04 12:11	BJD
PB-210	1.164	0.4196	0.230	pCi/g	EPA 901.1M	7/17/04 12:11	BJD
U-238	1.316	0.9493	0.335	pCi/g	EPA 901.1M	7/17/04 12:11	BJD
K-40	2.169	0.3369	0.110	pCi/g	EPA 901.1M	7/17/04 12:11	BJD
Bi-214	0.934	0.0804	0.020	pCi/g	EPA 901.1M	7/17/04 12:11	BJD
PB-212	1.463	0.0842	0.016	pCi/g	EPA 901.1M	7/17/04 12:11	BJD
CS-137	0.123	0.0286	0.008	pCi/g	EPA 901.1M	7/17/04 12:11	BJD
CO-60	-0.005	-0.0547	0.004	pCi/g	EPA 901.1M	7/17/04 12:11	BJD
AM-241	0.019	0.0535	0.031	pCi/g	EPA 901.1M	7/17/04 12:11	BJD
Total Activity	22.472	NA	NA	pCi/g	EPA 901.1M	7/17/04 12:11	BJD
Percent Moisture	12.670	N/A	N/A	%	Moisture	7/07/04 08:20	KB

Notes: Project Name: Curtis Bay Army Depot

Quality Assurance Review

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KB-08



2609 North River Road Port Allen, Louisiana 70767
1 (800) 401-4277 FAX (225) 381-2996

ARS Tracking Number: ARS041134
Client ID: 406153-047-047
Date Sampled: 6/22/04
Time Sampled: NA
Type of Sample: Solid

Request or PO Number: 406153
ARS Sample ID: ARS041134-3897
Date Received: 6/30/04
Time Received: 1100
Date of Report: 7/19/04

Analysis Description	Analysis Results	Analysis Error +/- 2 Sigma	MDC	Analysis Units	Analysis Test Method	Analysis Date / Time	Analysis Technician
RA-226	0.350	0.6422	0.250	pCi/g	EPA 901.1M	7/17/04 02:17	DM
Ra-228	0.938	0.1335	0.026	pCi/g	EPA 901.1M	7/17/04 02:17	DM
PB-210	2.693	0.5617	0.280	pCi/g	EPA 901.1M	7/17/04 02:17	DM
U-238	0.000	0.0000	0.345	pCi/g	EPA 901.1M	7/17/04 02:17	DM
K-40	5.409	0.5961	0.143	pCi/g	EPA 901.1M	7/17/04 02:17	DM
BI-214	0.665	0.0931	0.028	pCi/g	EPA 901.1M	7/17/04 02:17	DM
PB-212	1.048	0.0743	0.017	pCi/g	EPA 901.1M	7/17/04 02:17	DM
CS-137	0.568	0.0532	0.011	pCi/g	EPA 901.1M	7/17/04 02:17	DM
CO-60	-0.006	-1.4167	0.013	pCi/g	EPA 901.1M	7/17/04 02:17	DM
AM-241	-0.007	-1.3519	0.036	pCi/g	EPA 901.1M	7/17/04 02:17	DM
Total Activity	16.241	NA	NA	pCi/g	EPA 901.1M	7/17/04 02:17	DM
Percent Moisture	29.140	N/A	N/A	%	Moisture	7/07/04 08:20	KB

Notes: Project Name: Curtis Bay Army Depot

Quality Assurance Review

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KB-09



2609 North River Road Port Allen, Louisiana 70767
1 (800) 401-4277 FAX (225) 381-2996

ARS Tracking Number: ARS041134

Request or PO Number: 406153

Client ID: 406153-048-048

ARS Sample ID: ARS041134-3898

Date Sampled: 6/22/04

Date Received: 6/30/04

Time Sampled: NA

Time Received: 1100

Type of Sample: Solid

Date of Report: 7/19/04

Analysis Description	Analysis Results	Analysis Error +/- 2 Sigma	MDC	Analysis Units	Analysis Test Method	Analysis Date / Time	Analysis Technician
RA-226	1.929	1.0278	0.370	pCi/g	EPA 901.1M	7/16/04 17:46	MS
Ra-228	2.430	0.2355	0.038	pCi/g	EPA 901.1M	7/16/04 17:46	MS
PB-210	3.031	1.0109	0.443	pCi/g	EPA 901.1M	7/16/04 17:46	MS
U-238	2.103	1.5878	0.577	pCi/g	EPA 901.1M	7/16/04 17:46	MS
K-40	5.338	0.7977	0.187	pCi/g	EPA 901.1M	7/16/04 17:46	MS
BI-214	1.688	0.1662	0.042	pCi/g	EPA 901.1M	7/16/04 17:46	MS
PB-212	3.050	0.1668	0.029	pCi/g	EPA 901.1M	7/16/04 17:46	MS
CS-137	0.509	0.0617	0.016	pCi/g	EPA 901.1M	7/16/04 17:46	MS
CO-60	-0.013	-0.1475	0.019	pCi/g	EPA 901.1M	7/16/04 17:46	MS
AM-241	0.015	0.0918	0.053	pCi/g	EPA 901.1M	7/16/04 17:46	MS
Total Activity	48.565	NA	NA	pCi/g	EPA 901.1M	7/16/04 17:46	MS
Percent Moisture	12.310	N/A	N/A	%	ASTM D 5174-97	7/07/04 08:20	KB

Notes: Project Name: Curtis Bay Army Depot

Quality Assurance Review

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KB-10



2609 North River Road Port Allen, Louisiana 70767

1 (800) 401-4277 FAX (225) 381-2996

ARS Tracking Number: ARS041134

Request or PO Number: 406153

Client ID: 406153-049-049

ARS Sample ID: ARS041134-3899

Date Sampled: 6/22/04

Date Received: 6/30/04

Time Sampled: NA


Time Received: 1100

Type of Sample: Solid

Date of Report: 7/19/04

Analysis Description	Analysis Results	Analysis Error +/- 2 Sigma	MDC	Analysis Units	Analysis Test Method	Analysis Date / Time	Analysis Technician
RA-226	2.874	0.6229	0.305	pCi/g	EPA 901.1M	7/16/04 14:06	MS
Ra-228	1.306	0.1344	0.041	pCi/g	EPA 901.1M	7/16/04 14:06	MS
PB-210	2.581	0.8085	0.354	pCi/g	EPA 901.1M	7/16/04 14:06	MS
U-238	1.780	0.6554	0.301	pCi/g	EPA 901.1M	7/16/04 14:06	MS
K-40	5.484	0.6461	0.124	pCi/g	EPA 901.1M	7/16/04 14:06	MS
BI-214	0.858	0.1079	0.033	pCi/g	EPA 901.1M	7/16/04 14:06	MS
PB-212	1.636	0.1055	0.022	pCi/g	EPA 901.1M	7/16/04 14:06	MS
CS-137	0.568	0.0592	0.014	pCi/g	EPA 901.1M	7/16/04 14:06	MS
CO-60	-0.004	-0.0755	0.015	pCi/g	EPA 901.1M	7/16/04 14:06	MS
AM-241	-0.029	-0.1311	0.043	pCi/g	EPA 901.1M	7/16/04 14:06	MS
Total Activity	32.370	NA	NA	pCi/g	EPA 901.1M	7/16/04 14:06	MS
Percent Moisture	19.350	N/A	N/A	%	Moisture	7/07/04 08:20	KB

Notes: Project Name: Curtis Bay Army Depot


 Quality Assurance Review

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KB-11



2609 North River Road Port Allen, Louisiana 70767
1 (800) 401-4277 FAX (225) 381-2996

ARS Tracking Number: ARS041134

Request or PO Number: 406153

Client ID: 406153-050-050

ARS Sample ID: ARS041134-3900

Date Sampled: 6/22/04

Date Received: 6/30/04

Time Sampled: NA

Time Received: 1100

Type of Sample: Solid

Date of Report: 7/19/04

Analysis Description	Analysis Results	Analysis Error +/- 2 Sigma	MDC	Analysis Units	Analysis Test Method	Analysis Date / Time	Analysis Technician
RA-226	0.291	0.6858	0.254	pCi/g	EPA 901.1M	7/16/04 19:48	DM
Ra-228	1.060	0.1224	0.030	pCi/g	EPA 901.1M	7/16/04 19:48	DM
PB-210	2.278	0.6135	0.322	pCi/g	EPA 901.1M	7/16/04 19:48	DM
U-238	0.000	0.0000	0.410	pCi/g	EPA 901.1M	7/16/04 19:48	DM
K-40	5.838	0.6984	0.140	pCi/g	EPA 901.1M	7/16/04 19:48	DM
BI-214	0.825	0.1023	0.028	pCi/g	EPA 901.1M	7/16/04 19:48	DM
PB-212	1.247	0.0895	0.020	pCi/g	EPA 901.1M	7/16/04 19:48	DM
CS-137	0.202	0.0419	0.012	pCi/g	EPA 901.1M	7/16/04 19:48	DM
CO-60	-0.007	-0.7827	0.016	pCi/g	EPA 901.1M	7/16/04 19:48	DM
AM-241	-0.012	-0.3973	0.041	pCi/g	EPA 901.1M	7/16/04 19:48	DM
Total Activity	28.007	NA	NA	pCi/g	EPA 901.1M	7/16/04 19:48	DM
Percent Moisture	15.370	N/A	N/A	%	Moisture	7/07/04 08:20	KB

Notes: Project Name: Curtis Bay Army Depot

Quality Assurance Review

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2609 North River Road Port Allen, Louisiana 70767
1 (800) 401-4277 FAX (225) 381-2996

KB-12

ARS Tracking Number: ARS041134

Request or PO Number: 406153

Client ID: 406153-051-051

ARS Sample ID: ARS041134-3901

Date Sampled: 6/22/04

Date Received: 6/30/04

Time Sampled: NA

Time Received: 1100

Type of Sample: Solid

Date of Report: 7/19/04

Analysis Description	Analysis Results	Analysis Error +/- 2 Sigma	MDC	Analysis Units	Analysis Test Method	Analysis Date / Time	Analysis Technician
RA-226	1.307	0.4367	0.225	pCi/g	EPA 901.1M	7/16/04 16:42	MS
Ra-228	1.208	0.1160	0.029	pCi/g	EPA 901.1M	7/16/04 16:42	MS
PB-210	2.418	0.5328	0.269	pCi/g	EPA 901.1M	7/16/04 16:42	MS
U-238	0.000	0.0000	0.336	pCi/g	EPA 901.1M	7/16/04 16:42	MS
K-40	3.432	0.4894	0.155	pCi/g	EPA 901.1M	7/16/04 16:42	MS
BI-214	0.667	0.0847	0.025	pCi/g	EPA 901.1M	7/16/04 16:42	MS
PB-212	1.368	0.0876	0.018	pCi/g	EPA 901.1M	7/16/04 16:42	MS
CS-137	0.219	0.0367	0.010	pCi/g	EPA 901.1M	7/16/04 16:42	MS
CO-60	-0.005	-0.1419	0.013	pCi/g	EPA 901.1M	7/16/04 16:42	MS
AM-241	0.000	0.0598	0.035	pCi/g	EPA 901.1M	7/16/04 16:42	MS
Total Activity	21.261	NA	NA	pCi/g	EPA 901.1M	7/16/04 16:42	MS
Percent Moisture	13.140	N/A	N/A	%	Moisture	7/07/04 08:20	KB

Notes: Project Name: Curtis Bay Army Depot

Quality Assurance Review

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KB-13



2609 North River Road Port Allen, Louisiana 70767
1 (800) 401-4277 FAX (225) 381-2996

ARS Tracking Number: ARS041134

Request or PO Number: 406153

Client ID: 406153-052-052

ARS Sample ID: ARS041134-3902

Date Sampled: 6/22/04

Date Received: 6/30/04

Time Sampled: NA

Time Received: 1100

Type of Sample: Solid

Date of Report: 7/19/04

Analysis Description	Analysis Results	Analysis Error +/- 2 Sigma	MDC	Analysis Units	Analysis Test Method	Analysis Date / Time	Analysis Technician
RA-226	0.757	0.4847	0.262	pCi/g	EPA 901.1M	7/16/04 20:49	DM
Ra-228	0.613	0.0987	0.043	pCi/g	EPA 901.1M	7/16/04 20:49	DM
PB-210	2.172	0.7746	0.355	pCi/g	EPA 901.1M	7/16/04 20:49	DM
U-238	0.000	0.0000	0.373	pCi/g	EPA 901.1M	7/16/04 20:49	DM
K-40	6.313	0.6980	0.121	pCi/g	EPA 901.1M	7/16/04 20:49	DM
Bi-214	0.558	0.0922	0.031	pCi/g	EPA 901.1M	7/16/04 20:49	DM
PB-212	0.816	0.0788	0.022	pCi/g	EPA 901.1M	7/16/04 20:49	DM
CS-137	0.092	0.0316	0.015	pCi/g	EPA 901.1M	7/16/04 20:49	DM
CO-60	-0.008	-0.0108	0.012	pCi/g	EPA 901.1M	7/16/04 20:49	DM
AM-241	0.003	0.0630	0.037	pCi/g	EPA 901.1M	7/16/04 20:49	DM
Total Activity	25.269	NA	NA	pCi/g	EPA 901.1M	7/16/04 20:49	DM
Percent Moisture	17.040	N/A	N/A	%	Moisture	7/07/04 08:20	KB

Notes: Project Name: Curtis Bay Army Depot

Quality Assurance Review

Notes: American Radiation Services, Inc. assumes no liability for the use or interpretation of any analytical results provided other than the cost of the analysis itself. Reproduction of this report in less than full requires the written consent of the client.



2609 North River Road Port Allen, Louisiana 70767
1 (800) 401-4277 FAX (225) 381-2996

KB-14

ARS Tracking Number: ARS041134

Request or PO Number: 406153

Client ID: 406153-053-053

ARS Sample ID: ARS041134-3903

Date Sampled: 6/22/04

Date Received: 6/30/04

Time Sampled: NA

Time Received: 1100

Type of Sample: Solid

Date of Report: 7/19/04

Analysis Description	Analysis Results	Analysis Error +/- 2 Sigma	MDC	Analysis Units	Analysis Test Method	Analysis Date / Time	Analysis Technician
RA-226	0.769	0.5921	0.211	pCi/g	EPA 901.1M	7/17/04 17:32	SMB
Ra-228	0.700	0.0817	0.017	pCi/g	EPA 901.1M	7/17/04 17:32	SMB
PB-210	2.121	0.6061	0.264	pCi/g	EPA 901.1M	7/17/04 17:32	SMB
U-238	0.830	0.7580	0.321	pCi/g	EPA 901.1M	7/17/04 17:32	SMB
K-40	4.945	0.5534	0.124	pCi/g	EPA 901.1M	7/17/04 17:32	SMB
Bi-214	0.476	0.0692	0.024	pCi/g	EPA 901.1M	7/17/04 17:32	SMB
PB-212	0.804	0.0684	0.016	pCi/g	EPA 901.1M	7/17/04 17:32	SMB
CS-137	0.233	0.0361	0.009	pCi/g	EPA 901.1M	7/17/04 17:32	SMB
CO-60	-0.006	-0.0002	0.005	pCi/g	EPA 901.1M	7/17/04 17:32	SMB
AM-241	0.011	0.0532	0.031	pCi/g	EPA 901.1M	7/17/04 17:32	SMB
Total Activity	12.856	NA	NA	pCi/g	EPA 901.1M	7/17/04 17:32	SMB
Percent Moisture	14.630	N/A	N/A	%	Moisture	7/07/04 08:20	KB

Notes: Project Name: Curtis Bay Army Depot

Quality Assurance Review

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KA-01



2609 North River Road Port Allen, Louisiana 70767
1 (800) 401-4277 FAX (225) 381-2996

ARS Tracking Number: ARS041134

Request or PO Number: 406153

Client ID: 406153-026-026

ARS Sample ID: ARS041134-3876

Date Sampled: 6/22/04

Date Received: 6/30/04

Time Sampled: NA

Time Received: 1100

Type of Sample: Solid

Date of Report: 7/19/04

Analysis Description	Analysis Results	Analysis Error +/- 2 Sigma	MDC	Analysis Units	Analysis Test Method	Analysis Date / Time	Analysis Technician
RA-226	1.457	0.5074	0.263	pCi/g	EPA 901.1M	7/14/04 22:06	DM
Ra-228	1.162	0.1471	0.025	pCi/g	EPA 901.1M	7/14/04 22:06	DM
PB-210	2.090	0.5628	0.295	pCi/g	EPA 901.1M	7/14/04 22:06	DM
U-238	1.159	1.3241	0.386	pCi/g	EPA 901.1M	7/14/04 22:06	DM
K-40	5.164	0.5751	0.117	pCi/g	EPA 901.1M	7/14/04 22:06	DM
BI-214	0.945	0.0925	0.027	pCi/g	EPA 901.1M	7/14/04 22:06	DM
PB-212	1.227	0.0706	0.019	pCi/g	EPA 901.1M	7/14/04 22:06	DM
CS-137	0.276	0.0391	0.010	pCi/g	EPA 901.1M	7/14/04 22:06	DM
CO-60	-0.007	-0.0588	0.008	pCi/g	EPA 901.1M	7/14/04 22:06	DM
AM-241	0.024	0.0661	0.038	pCi/g	EPA 901.1M	7/14/04 22:06	DM
Total Activity	22.750	NA	NA	pCi/g	EPA 901.1M	7/14/04 22:06	DM
Percent Moisture	11.370	N/A	N/A	%	Moisture	7/07/04 08:20	KB

Notes: Project Name: Curtis Bay Army Depot

Quality Assurance Review

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KA-06



2609 North River Road Port Allen, Louisiana 70767
1 (800) 401-4277 FAX (225) 381-2996

ARS Tracking Number: ARS041134
Client ID: 406153-027-027
Date Sampled: 6/22/04
Time Sampled: NA
Type of Sample: Solid

Request or PO Number: 406153
ARS Sample ID: ARS041134-3877
Date Received: 6/30/04
Time Received: 1100
Date of Report: 7/19/04

Analysis Description	Analysis Results	Analysis Error +/- 2 Sigma	MDC	Analysis Units	Analysis Test Method	Analysis Date / Time	Analysis Technician
RA-226	1.496	0.5996	0.208	pCi/g	EPA 901.1M	7/14/04 15:58	MS
Ra-228	1.302	0.1374	0.024	pCi/g	EPA 901.1M	7/14/04 15:58	MS
PB-210	2.058	0.5853	0.253	pCi/g	EPA 901.1M	7/14/04 15:58	MS
U-238	1.442	0.5809	0.358	pCi/g	EPA 901.1M	7/14/04 15:58	MS
K-40	2.631	0.3605	0.104	pCi/g	EPA 901.1M	7/14/04 15:58	MS
BI-214	0.759	0.0749	0.020	pCi/g	EPA 901.1M	7/14/04 15:58	MS
PB-212	1.389	0.0816	0.016	pCi/g	EPA 901.1M	7/14/04 15:58	MS
CS-137	0.367	0.0406	0.010	pCi/g	EPA 901.1M	7/14/04 15:58	MS
CO-60	-0.006	-0.1289	0.010	pCi/g	EPA 901.1M	7/14/04 15:58	MS
AM-241	0.024	0.0559	0.032	pCi/g	EPA 901.1M	7/14/04 15:58	MS
Total Activity	20.826	NA	NA	pCi/g	EPA 901.1M	7/14/04 15:58	MS
Percent Moisture	10.270	N/A	N/A	%	Moisture	7/07/04 08:20	KB

Notes: Project Name: Curtis Bay Army Depot

Quality Assurance Review

Notes: American Radiation Services, Inc. assumes no liability for the use or interpretation of any analytical results provided other than the cost of the analysis itself. Reproduction of this report in less than full requires the written consent of the client.

KA-05



2609 North River Road Port Allen, Louisiana 70767
1 (800) 401-4277 FAX (225) 381-2996

ARS Tracking Number: ARS041134

Request or PO Number: 406153

Client ID: 406153-028-028

ARS Sample ID: ARS041134-3878

Date Sampled: 6/22/04

Date Received: 6/30/04

Time Sampled: NA

Time Received: 1100

Type of Sample: Solid

Date of Report: 7/19/04

Analysis Description	Analysis Results	Analysis Error +/- 2 Sigma	MDC	Analysis Units	Analysis Test Method	Analysis Date / Time	Analysis Technician
RA-226	0.825	0.3922	0.207	pCi/g	EPA 901.1M	7/14/04 19:04	DM
Ra-228	0.641	0.1028	0.017	pCi/g	EPA 901.1M	7/14/04 19:04	DM
PB-210	2.043	0.6159	0.271	pCi/g	EPA 901.1M	7/14/04 19:04	DM
U-238	0.000	0.0000	0.303	pCi/g	EPA 901.1M	7/14/04 19:04	DM
K-40	4.702	0.5578	0.121	pCi/g	EPA 901.1M	7/14/04 19:04	DM
BI-214	0.407	0.0669	0.025	pCi/g	EPA 901.1M	7/14/04 19:04	DM
PB-212	0.651	0.0577	0.018	pCi/g	EPA 901.1M	7/14/04 19:04	DM
CS-137	0.110	0.0285	0.008	pCi/g	EPA 901.1M	7/14/04 19:04	DM
CO-60	-0.014	-0.0670	0.014	pCi/g	EPA 901.1M	7/14/04 19:04	DM
AM-241	0.032	0.0366	0.019	pCi/g	EPA 901.1M	7/14/04 19:04	DM
total Activity	14.692	NA	NA	pCi/g	EPA 901.1M	7/14/04 19:04	DM
percent Moisture	16.720	N/A	N/A	%	Moisture	7/07/04 08:20	KB

Notes: Project Name: Curtis Bay Army Depot

Quality Assurance Review

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KA-04



2609 North River Road Port Allen, Louisiana 70767
1 (800) 401-4277 FAX (225) 381-2996

ARS Tracking Number: ARS041134

Request or PO Number: 406153

Client ID: 406153-029-029

ARS Sample ID: ARS041134-3879

Date Sampled: 6/22/04

Date Received: 6/30/04

Time Sampled: NA

Time Received: 1100

Type of Sample: Solid

Date of Report: 7/19/04

Analysis Description	Analysis Results	Analysis Error +/- 2 Sigma	MDC	Analysis Units	Analysis Test Method	Analysis Date / Time	Analysis Technician
RA-226	0.761	0.3507	0.185	pCi/g	EPA 901.1M	7/14/04 21:05	DM
Ra-228	0.652	0.0824	0.031	pCi/g	EPA 901.1M	7/14/04 21:05	DM
PB-210	1.768	0.5895	0.256	pCi/g	EPA 901.1M	7/14/04 21:05	DM
U-238	0.711	1.0713	0.290	pCi/g	EPA 901.1M	7/14/04 21:05	DM
K-40	3.046	0.4199	0.132	pCi/g	EPA 901.1M	7/14/04 21:05	DM
BI-214	0.407	0.0698	0.023	pCi/g	EPA 901.1M	7/14/04 21:05	DM
PB-212	0.832	0.0595	0.017	pCi/g	EPA 901.1M	7/14/04 21:05	DM
CS-137	0.125	0.0326	0.009	pCi/g	EPA 901.1M	7/14/04 21:05	DM
CO-60	-0.010	-0.0729	0.011	pCi/g	EPA 901.1M	7/14/04 21:05	DM
AM-241	-0.012	-0.1562	0.029	pCi/g	EPA 901.1M	7/14/04 21:05	DM
total Activity	9.833	NA	NA	pCi/g	EPA 901.1M	7/14/04 21:05	DM
percent Moisture	12.730	N/A	N/A	%	Moisture	7/07/04 08:20	KB

Notes: Project Name: Curtis Bay Army Depot

Quality Assurance Review

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KA-05



2609 North River Road Port Allen, Louisiana 70767
1 (800) 401-4277 FAX (225) 381-2996

ARS Tracking Number: ARS041134

Request or PO Number: 406153

Client ID: 406153-030-030

ARS Sample ID: ARS041134-3880

Date Sampled: 6/22/04

Date Received: 6/30/04

Time Sampled: NA

Time Received: 1100

Type of Sample: Solid

Date of Report: 7/19/04

Analysis Description	Analysis Results	Analysis Error +/- 2 Sigma	MDC	Analysis Units	Analysis Test Method	Analysis Date / Time	Analysis Technician
RA-226	0.149	0.6397	0.240	pCi/g	EPA 901.1M	7/14/04 23:08	DM
Ra-228	0.959	0.1129	0.027	pCi/g	EPA 901.1M	7/14/04 23:08	DM
PB-210	2.586	0.6829	0.293	pCi/g	EPA 901.1M	7/14/04 23:08	DM
U-238	1.607	0.8624	0.405	pCi/g	EPA 901.1M	7/14/04 23:08	DM
K-40	5.898	0.6078	0.102	pCi/g	EPA 901.1M	7/14/04 23:08	DM
BI-214	0.700	0.0919	0.027	pCi/g	EPA 901.1M	7/14/04 23:08	DM
PB-212	1.092	0.0760	0.017	pCi/g	EPA 901.1M	7/14/04 23:08	DM
CS-137	0.206	0.0342	0.009	pCi/g	EPA 901.1M	7/14/04 23:08	DM
CO-60	-0.013	-0.0801	0.016	pCi/g	EPA 901.1M	7/14/04 23:08	DM
AM-241	-0.007	-0.0501	0.015	pCi/g	EPA 901.1M	7/14/04 23:08	DM
Total Activity	19.611	NA	NA	pCi/g	EPA 901.1M	7/14/04 23:08	DM
Percent Moisture	16.780	N/A	N/A	%	Moisture	7/07/04 08:20	KB

Notes: Project Name: Curtis Bay Army Depot

Quality Assurance Review

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KA-06



2609 North River Road Port Allen, Louisiana 70767
1 (800) 401-4277 FAX (225) 381-2996

ARS Tracking Number: ARS041134

Request or PO Number: 406153

Client ID: 406153-031-031

ARS Sample ID: ARS041134-3881

Date Sampled: 6/22/04

Date Received: 6/30/04

Time Sampled: NA

Time Received: 1100

Type of Sample: Solid

Date of Report: 7/19/04

Analysis Description	Analysis Results	Analysis Error +/- 2 Sigma	MDC	Analysis Units	Analysis Test Method	Analysis Date / Time	Analysis Technician
RA-226	0.979	0.6607	0.247	pCi/g	EPA 901.1M	7/15/04 02:37	DM
Ra-228	1.656	0.1319	0.029	pCi/g	EPA 901.1M	7/15/04 02:37	DM
PB-210	1.865	0.6557	0.295	pCi/g	EPA 901.1M	7/15/04 02:37	DM
U-238	0.000	0.0000	0.560	pCi/g	EPA 901.1M	7/15/04 02:37	DM
K-40	3.661	0.4699	0.143	pCi/g	EPA 901.1M	7/15/04 02:37	DM
BI-214	1.195	0.1013	0.025	pCi/g	EPA 901.1M	7/15/04 02:37	DM
PB-212	1.970	0.1071	0.016	pCi/g	EPA 901.1M	7/15/04 02:37	DM
CS-137	0.230	0.0378	0.011	pCi/g	EPA 901.1M	7/15/04 02:37	DM
CO-60	-0.006	-0.4026	0.013	pCi/g	EPA 901.1M	7/15/04 02:37	DM
AM-241	0.022	0.0655	0.038	pCi/g	EPA 901.1M	7/15/04 02:37	DM
total Activity	25.404	NA	NA	pCi/g	EPA 901.1M	7/15/04 02:37	DM
percent Moisture	15.380	N/A	N/A	%	Moisture	7/07/04 08:20	KB

Notes: Project Name: Curtis Bay Army Depot

Quality Assurance Review

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KA-07



2609 North River Road Port Allen, Louisiana 70767
1 (800) 401-4277 FAX (225) 381-2996

ARS Tracking Number: ARS041134
Client ID: 406153-032-032
Date Sampled: 6/22/04
Time Sampled: NA
Type of Sample: Solid

Request or PO Number: 406153
ARS Sample ID: ARS041134-3882
Date Received: 6/30/04
Time Received: 1100
Date of Report: 7/19/04

Analysis Description	Analysis Results	Analysis Error +/- 2 Sigma	MDC	Analysis Units	Analysis Test Method	Analysis Date / Time	Analysis Technician
RA-226	1.843	0.8456	0.297	pCi/g	EPA 901.1M	7/15/04 09:38	MS
Ra-228	2.133	0.2113	0.042	pCi/g	EPA 901.1M	7/15/04 09:38	MS
PB-210	3.202	0.6833	0.348	pCi/g	EPA 901.1M	7/15/04 09:38	MS
U-238	1.646	1.4606	0.478	pCi/g	EPA 901.1M	7/15/04 09:38	MS
K-40	5.224	0.7046	0.156	pCi/g	EPA 901.1M	7/15/04 09:38	MS
BI-214	1.609	0.1335	0.030	pCi/g	EPA 901.1M	7/15/04 09:38	MS
PB-212	2.532	0.1379	0.023	pCi/g	EPA 901.1M	7/15/04 09:38	MS
CS-137	0.266	0.0493	0.014	pCi/g	EPA 901.1M	7/15/04 09:38	MS
CO-60	0.001	0.0290	0.017	pCi/g	EPA 901.1M	7/15/04 09:38	MS
AM-241	-0.003	-0.1805	0.047	pCi/g	EPA 901.1M	7/15/04 09:38	MS
Total Activity	44.400	NA	NA	pCi/g	EPA 901.1M	7/15/04 09:38	MS
Percent Moisture	14.050	N/A	N/A	%	Moisture	7/07/04 08:20	KB

Notes: Project Name: Curtis Bay Army Depot

Quality Assurance Review

Notes: American Radiation Services, Inc. assumes no liability for the use or interpretation of any analytical results provided other than the cost of the analysis itself. Reproduction of this report in less than full requires the written consent of the client.

KA-06



2609 North River Road Port Allen, Louisiana 70767
1 (800) 401-4277 FAX (225) 381-2996

ARS Tracking Number: ARS041134

Request or PO Number: 406153

Client ID: 406153-033-033

ARS Sample ID: ARS041134-3883

Date Sampled: 6/22/04

Date Received: 6/30/04

Time Sampled: NA

Time Received: 1100

Type of Sample: Solid

Date of Report: 7/19/04

Analysis Description	Analysis Results	Analysis Error +/- 2 Sigma	MDC	Analysis Units	Analysis Test Method	Analysis Date / Time	Analysis Technician
RA-226	1.890	0.4649	0.231	pCi/g	EPA 901.1M	7/17/04 15:24	SMB
Ra-228	0.748	0.0850	0.021	pCi/g	EPA 901.1M	7/17/04 15:24	SMB
PB-210	2.501	0.6587	0.277	pCi/g	EPA 901.1M	7/17/04 15:24	SMB
U-238	0.000	0.0000	0.300	pCi/g	EPA 901.1M	7/17/04 15:24	SMB
K-40	4.474	0.5225	0.131	pCi/g	EPA 901.1M	7/17/04 15:24	SMB
BI-214	0.506	0.0859	0.028	pCi/g	EPA 901.1M	7/17/04 15:24	SMB
PB-212	0.835	0.0628	0.015	pCi/g	EPA 901.1M	7/17/04 15:24	SMB
CS-137	0.341	0.0383	0.008	pCi/g	EPA 901.1M	7/17/04 15:24	SMB
CO-60	-0.006	-0.6922	0.011	pCi/g	EPA 901.1M	7/17/04 15:24	SMB
AM-241	0.023	0.0508	0.029	pCi/g	EPA 901.1M	7/17/04 15:24	SMB
Total Activity	15.833	NA	NA	pCi/g	EPA 901.1M	7/17/04 15:24	SMB
Percent Moisture	22.220	N/A	N/A	%	Moisture	7/07/04 08:20	KB

Notes: Project Name: Curtis Bay Army Depot

Quality Assurance Review

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KA-09



2609 North River Road Port Allen, Louisiana 70767
1 (800) 401-4277 FAX (225) 381-2996

ARS Tracking Number: ARS041134

Request or PO Number: 406153

Client ID: 406153-034-034

ARS Sample ID: ARS041134-3884

Date Sampled: 6/22/04

Date Received: 6/30/04

Time Sampled: NA

Time Received: 1100

Type of Sample: Solid

Date of Report: 7/19/04

Analysis Description	Analysis Results	Analysis Error +/- 2 Sigma	MDC	Analysis Units	Analysis Test Method	Analysis Date / Time	Analysis Technician
RA-226	1.057	0.5245	0.282	pCi/g	EPA 901.1M	7/16/04 15:14	MS
Ra-228	0.949	0.1240	0.028	pCi/g	EPA 901.1M	7/16/04 15:14	MS
PB-210	3.082	0.8591	0.364	pCi/g	EPA 901.1M	7/16/04 15:14	MS
U-238	2.078	0.7188	0.306	pCi/g	EPA 901.1M	7/16/04 15:14	MS
K-40	7.136	0.7430	0.163	pCi/g	EPA 901.1M	7/16/04 15:14	MS
BI-214	0.727	0.0927	0.028	pCi/g	EPA 901.1M	7/16/04 15:14	MS
PB-212	1.193	0.0861	0.020	pCi/g	EPA 901.1M	7/16/04 15:14	MS
CS-137	0.469	0.0541	0.012	pCi/g	EPA 901.1M	7/16/04 15:14	MS
CO-60	-0.005	-0.1015	0.015	pCi/g	EPA 901.1M	7/16/04 15:14	MS
AM-241	-0.012	-0.3344	0.040	pCi/g	EPA 901.1M	7/16/04 15:14	MS
Total Activity	22.549	NA	NA	pCi/g	EPA 901.1M	7/16/04 15:14	MS
Percent Moisture	32.530	N/A	N/A	%	Moisture	7/07/04 08:20	KB

Notes: Project Name: Curtis Bay Army Depot

Quality Assurance Review

Notes: American Radiation Services, Inc. assumes no liability for the use or interpretation of any analytical results provided other than the cost of the analysis itself. Reproduction of this report in less than full requires the written consent of the client.

KA-10



2609 North River Road Port Allen, Louisiana 70767
1 (800) 401-4277 FAX (225) 381-2996

ARS Tracking Number: ARS041134

Request or PO Number: 406153

Client ID: 406153-035-035

ARS Sample ID: ARS041134-3885

Date Sampled: 6/22/04

Date Received: 6/30/04

Time Sampled: NA

Time Received: 1100

Type of Sample: Solid

Date of Report: 7/19/04

Analysis Description	Analysis Results	Analysis Error +/- 2 Sigma	MDC	Analysis Units	Analysis Test Method	Analysis Date / Time	Analysis Technician
RA-226	0.266	0.6869	0.268	pCi/g	EPA 901.1M	7/17/04 08:36	BJD
Ra-228	1.006	0.1291	0.025	pCi/g	EPA 901.1M	7/17/04 08:36	BJD
PB-210	3.195	0.7497	0.310	pCi/g	EPA 901.1M	7/17/04 08:36	BJD
U-238	1.966	0.6886	0.380	pCi/g	EPA 901.1M	7/17/04 08:36	BJD
K-40	8.392	0.7301	0.100	pCi/g	EPA 901.1M	7/17/04 08:36	BJD
Bi-214	0.874	0.1025	0.028	pCi/g	EPA 901.1M	7/17/04 08:36	BJD
PB-212	1.139	0.0779	0.018	pCi/g	EPA 901.1M	7/17/04 08:36	BJD
CS-137	0.499	0.0496	0.011	pCi/g	EPA 901.1M	7/17/04 08:36	BJD
CO-60	-0.006	-7.8382	0.013	pCi/g	EPA 901.1M	7/17/04 08:36	BJD
AM-241	0.007	0.0638	0.037	pCi/g	EPA 901.1M	7/17/04 08:36	BJD
total Activity	28.062	NA	NA	pCi/g	EPA 901.1M	7/17/04 08:36	BJD
percent Moisture	29.630	N/A	N/A	%	Moisture	7/07/04 08:20	KB

Notes: Project Name: Curtis Bay Army Depot

Quality Assurance Review

Notes: American Radiation Services, Inc. assumes no liability for the use or interpretation of any analytical results provided other than the cost of the analysis itself. Reproduction of this report in less than full requires the written consent of the client.

KA-11



2609 North River Road Port Allen, Louisiana 70767
1 (800) 401-4277 FAX (225) 381-2996

ARS Tracking Number: ARS041134

Request or PO Number: 406153

Client ID: 406153-036-036

ARS Sample ID: ARS041134-3886

Date Sampled: 6/22/04

Date Received: 6/30/04

Time Sampled: NA

Time Received: 1100

Type of Sample: Solid

Date of Report: 7/19/04

Analysis Description	Analysis Results	Analysis Error +/- 2 Sigma	MDC	Analysis Units	Analysis Test Method	Analysis Date / Time	Analysis Technician
RA-226	0.532	0.7317	0.280	pCi/g	EPA 901.1M	7/17/04 05:20	DM
Ra-228	0.995	0.1387	0.031	pCi/g	EPA 901.1M	7/17/04 05:20	DM
PB-210	3.149	0.7190	0.315	pCi/g	EPA 901.1M	7/17/04 05:20	DM
U-238	0.990	0.9868	0.394	pCi/g	EPA 901.1M	7/17/04 05:20	DM
K-40	7.633	0.7539	0.175	pCi/g	EPA 901.1M	7/17/04 05:20	DM
BI-214	0.793	0.0952	0.028	pCi/g	EPA 901.1M	7/17/04 05:20	DM
PB-212	1.323	0.0877	0.017	pCi/g	EPA 901.1M	7/17/04 05:20	DM
CS-137	0.566	0.0536	0.011	pCi/g	EPA 901.1M	7/17/04 05:20	DM
CO-60	-0.004	-0.0816	0.015	pCi/g	EPA 901.1M	7/17/04 05:20	DM
AM-241	0.000	-0.0692	0.040	pCi/g	EPA 901.1M	7/17/04 05:20	DM
Total Activity	20.878	NA	NA	pCi/g	EPA 901.1M	7/17/04 05:20	DM
Percent Moisture	33.620	N/A	N/A	%	Moisture	7/07/04 08:20	KB

Notes: Project Name: Curtis Bay Army Depot

Quality Assurance Review

Notes: American Radiation Services, Inc. assumes no liability for the use or interpretation of any analytical results provided other than the cost of the analysis itself. Reproduction of this report in less than full requires the written consent of the client.



2609 North River Road Port Allen, Louisiana 70767
1 (800) 401-4277 FAX (225) 381-2996

KA-12

ARS Tracking Number: ARS041134

Request or PO Number: 406153

Client ID: 406153-037-037

ARS Sample ID: ARS041134-3887

Date Sampled: 6/22/04

Date Received: 6/30/04

Time Sampled: NA

Time Received: 1100

Type of Sample: Solid

Date of Report: 7/19/04

Analysis Description	Analysis Results	Analysis Error +/- 2 Sigma	MDC	Analysis Units	Analysis Test Method	Analysis Date / Time	Analysis Technician
RA-226	1.928	0.5443	0.280	pCi/g	EPA 901.1M	7/16/04 18:48	DM
Ra-228	0.991	0.1108	0.034	pCi/g	EPA 901.1M	7/16/04 18:48	DM
PB-210	2.788	0.6335	0.283	pCi/g	EPA 901.1M	7/16/04 18:48	DM
U-238	0.000	0.0000	0.366	pCi/g	EPA 901.1M	7/16/04 18:48	DM
K-40	6.816	0.7006	0.126	pCi/g	EPA 901.1M	7/16/04 18:48	DM
Bi-214	0.830	0.1000	0.028	pCi/g	EPA 901.1M	7/16/04 18:48	DM
PB-212	1.205	0.0834	0.020	pCi/g	EPA 901.1M	7/16/04 18:48	DM
CS-137	0.484	0.0518	0.011	pCi/g	EPA 901.1M	7/16/04 18:48	DM
CO-60	0.006	0.0238	0.014	pCi/g	EPA 901.1M	7/16/04 18:48	DM
AM-241	0.007	0.0661	0.038	pCi/g	EPA 901.1M	7/16/04 18:48	DM
Total Activity	21.892	NA	NA	pCi/g	EPA 901.1M	7/16/04 18:48	DM
Percent Moisture	23.190	N/A	N/A	%	Moisture	7/07/04 08:20	KB

Notes: Project Name: Curtis Bay Army Depot

Quality Assurance Review

Notes: American Radiation Services, Inc. assumes no liability for the use or interpretation of any analytical results provided other than the cost of the analysis itself. Reproduction of this report in less than full requires the written consent of the client.

KA-13



2609 North River Road Port Allen, Louisiana 70767
1 (800) 401-4277 FAX (225) 381-2996

ARS Tracking Number: ARS041134

Request or PO Number: 406153

Client ID: 406153-038-038

ARS Sample ID: ARS041134-3888

Date Sampled: 6/22/04

Date Received: 6/30/04

Time Sampled: NA

Time Received: 1100

Type of Sample: Solid

Date of Report: 7/19/04

Analysis Description	Analysis Results	Analysis Error +/- 2 Sigma	MDC	Analysis Units	Analysis Test Method	Analysis Date / Time	Analysis Technician
RA-226	1.549	0.7997	0.278	pCi/g	EPA 901.1M	7/16/04 21:50	DM
Ra-228	1.439	0.1463	0.030	pCi/g	EPA 901.1M	7/16/04 21:50	DM
PB-210	2.233	0.7015	0.330	pCi/g	EPA 901.1M	7/16/04 21:50	DM
U-238	0.905	1.5538	0.442	pCi/g	EPA 901.1M	7/16/04 21:50	DM
K-40	12.038	0.9843	0.132	pCi/g	EPA 901.1M	7/16/04 21:50	DM
BI-214	1.118	0.1236	0.032	pCi/g	EPA 901.1M	7/16/04 21:50	DM
PB-212	1.572	0.1014	0.021	pCi/g	EPA 901.1M	7/16/04 21:50	DM
CS-137	0.022	0.0291	0.016	pCi/g	EPA 901.1M	7/16/04 21:50	DM
CO-60	-0.008	-1.1393	0.017	pCi/g	EPA 901.1M	7/16/04 21:50	DM
AM-241	0.024	0.0744	0.043	pCi/g	EPA 901.1M	7/16/04 21:50	DM
Total Activity	36.945	NA	NA	pCi/g	EPA 901.1M	7/16/04 21:50	DM
Percent Moisture	21.570	N/A	N/A	%	Moisture	7/07/04 08:20	KB

Notes: Project Name: Curtis Bay Army Depot

Quality Assurance Review

Notes: American Radiation Services, Inc. assumes no liability for the use or interpretation of any analytical results provided other than the cost of the analysis itself. Reproduction of this report in less than full requires the written consent of the client.

KA-14



2609 North River Road Port Allen, Louisiana 70767
1 (800) 401-4277 FAX (225) 331-2996

ARS Tracking Number: ARS041134

Request or PO Number: 406153

Client ID: 406153-039-039

ARS Sample ID: ARS041134-3889

Date Sampled: 6/22/04

Date Received: 6/30/04

Time Sampled: NA


Time Received: 1100

Type of Sample: Solid

Date of Report: 7/19/04

Analysis Description	Analysis Results	Analysis Error +/- 2 Sigma	MDC	Analysis Units	Analysis Test Method	Analysis Date / Time	Analysis Technician
RA-226	1.009	0.7300	0.259	pCi/g	EPA 901.1M	7/17/04 04:19	DM
Ra-228	0.994	0.1618	0.034	pCi/g	EPA 901.1M	7/17/04 04:19	DM
PB-210	2.257	0.5903	0.284	pCi/g	EPA 901.1M	7/17/04 04:19	DM
U-238	0.915	1.5438	0.345	pCi/g	EPA 901.1M	7/17/04 04:19	DM
K-40	6.412	0.6798	0.117	pCi/g	EPA 901.1M	7/17/04 04:19	DM
BI-214	0.794	0.0894	0.026	pCi/g	EPA 901.1M	7/17/04 04:19	DM
PB-212	1.234	0.0863	0.020	pCi/g	EPA 901.1M	7/17/04 04:19	DM
CS-137	0.160	0.0336	0.009	pCi/g	EPA 901.1M	7/17/04 04:19	DM
CO-60	-0.011	-0.1018	0.014	pCi/g	EPA 901.1M	7/17/04 04:19	DM
AM-241	0.023	0.0650	0.038	pCi/g	EPA 901.1M	7/17/04 04:19	DM
Total Activity	21.389	NA	NA	pCi/g	EPA 901.1M	7/17/04 04:19	DM
Percent Moisture	25.380	N/A	N/A	%	Moisture	7/07/04 08:20	KB

Notes: Project Name: Curtis Bay Army Depot



Quality Assurance Review

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2609 North River Road Port Allen, Louisiana 70767
1 (800) 401-4277 FAX (225) 381-2996

ARS Tracking Number: ARS041134

Request or PO Number: 406153

Client ID: 406153-054-054

ARS Sample ID: ARS041134-3904

Date Sampled: 6/22/04

Date Received: 6/30/04

Time Sampled: NA

Time Received: 1100

Type of Sample: Solid

Date of Report: 7/19/04

Analysis Description	Analysis Results	Analysis Error +/- 2 Sigma	MDC	Analysis Units	Analysis Test Method	Analysis Date / Time	Analysis Technician
RA-226	1.202	0.6704	0.245	pCi/g	EPA 901.1M	7/17/04 16:27	SMB
Ra-228	1.549	0.1506	0.028	pCi/g	EPA 901.1M	7/17/04 16:27	SMB
PB-210	1.750	0.6261	0.276	pCi/g	EPA 901.1M	7/17/04 16:27	SMB
U-238	1.612	0.8815	0.390	pCi/g	EPA 901.1M	7/17/04 16:27	SMB
K-40	4.291	0.5015	0.100	pCi/g	EPA 901.1M	7/17/04 16:27	SMB
BI-214	1.034	0.0945	0.023	pCi/g	EPA 901.1M	7/17/04 16:27	SMB
PB-212	1.840	0.1015	0.018	pCi/g	EPA 901.1M	7/17/04 16:27	SMB
CS-137	0.122	0.0289	0.009	pCi/g	EPA 901.1M	7/17/04 16:27	SMB
CO-60	-0.006	-0.2505	0.012	pCi/g	EPA 901.1M	7/17/04 16:27	SMB
AM-241	-0.006	-1.3331	0.036	pCi/g	EPA 901.1M	7/17/04 16:27	SMB
Total Activity	29.243	NA	NA	pCi/g	EPA 901.1M	7/17/04 16:27	SMB
Percent Moisture	10.910	N/A	N/A	%	Moisture	7/07/04 08:20	KB

Notes: Project Name: Curtis Bay Army Depot

Quality Assurance Review

Notes: American Radiation Services, Inc. assumes no liability for the use or interpretation of any analytical results provided other than the cost of the analysis itself. Reproduction of this report in less than full requires the written consent of the client.



2609 North River Road Port Allen, Louisiana 70767
1 (800) 401-4277 FAX (225) 381-2996

ARS Tracking Number: ARS040993

Request or PO Number: 406059

Client ID: 406059-017-017

ARS Sample ID: ARS040993-3309

Date Sampled: 6/4/04

Date Received: 6/11/04

Time Sampled: NA

Time Received: 1020

Type of Sample: Solid

Date of Report: 6/22/04

Analysis Description	Analysis Results	Analysis Error +/- 2 Sigma	MDC	Analysis Units	Analysis Test Method	Analysis Date / Time	Analysis Technician
RA-226	1.962	0.3154	0.157	pCi/g	EPA 901.1M	6/15/04 11:52	MS
Ra-228	0.839	0.0696	0.018	pCi/g	EPA 901.1M	6/15/04 11:52	MS
PB-210	1.789	0.4049	0.176	pCi/g	EPA 901.1M	6/15/04 11:52	MS
U-238	1.104	0.5261	0.234	pCi/g	EPA 901.1M	6/15/04 11:52	MS
K-40	6.849	0.4908	0.075	pCi/g	EPA 901.1M	6/15/04 11:52	MS
BI-214	0.635	0.0528	0.015	pCi/g	EPA 901.1M	6/15/04 11:52	MS
PB-212	1.009	0.0546	0.011	pCi/g	EPA 901.1M	6/15/04 11:52	MS
AM-241	0.006	0.0368	0.021	pCi/g	EPA 901.1M	6/15/04 11:52	MS
Total Activity	25.248	NA	NA	pCi/g	EPA 901.1M	6/15/04 11:52	MS
Percent Moisture	13.850	N/A	N/A	%	Moisture	6/15/04 11:52	JF

Notes: Project Number: Curtis Bay Army Depot

Quality Assurance Review

Notes: American Radiation Services, Inc. assumes no liability for the use or interpretation of any analytical results provided other than the cost of the analysis itself. Reproduction of this report in less than full requires the written consent of the client.



2609 North River Road Port Allen, Louisiana 70767
1 (800) 401-4277 FAX (225) 381-2996

ARS Tracking Number: ARS041134

Request or PO Number: 406153

Client ID: 406153-055-055

ARS Sample ID: ARS041134-3905

Date Sampled: 6/22/04

Date Received: 6/30/04

Time Sampled: NA

Time Received: 1100

Type of Sample: Solid

Date of Report: 7/19/04

Analysis Description	Analysis Results	Analysis Error +/- 2 Sigma	MDC	Analysis Units	Analysis Test Method	Analysis Date / Time	Analysis Technician
RA-226	1.565	0.7563	0.273	pCi/g	EPA 901.1M	7/17/04 03:18	DM
Ra-228	2.250	0.1934	0.035	pCi/g	EPA 901.1M	7/17/04 03:18	DM
PB-210	1.670	0.5397	0.293	pCi/g	EPA 901.1M	7/17/04 03:18	DM
U-238	1.904	1.8011	0.399	pCi/g	EPA 901.1M	7/17/04 03:18	DM
K-40	4.672	0.5353	0.109	pCi/g	EPA 901.1M	7/17/04 03:18	DM
BI-214	1.480	0.1206	0.027	pCi/g	EPA 901.1M	7/17/04 03:18	DM
PB-212	2.615	0.1344	0.022	pCi/g	EPA 901.1M	7/17/04 03:18	DM
CS-137	0.156	0.0331	0.011	pCi/g	EPA 901.1M	7/17/04 03:18	DM
CO-60	-0.005	-0.0001	0.005	pCi/g	EPA 901.1M	7/17/04 03:18	DM
AM-241	-0.002	-0.1737	0.041	pCi/g	EPA 901.1M	7/17/04 03:18	DM
Total Activity	39.213	NA	NA	pCi/g	EPA 901.1M	7/17/04 03:18	DM
Percent Moisture	10.540	N/A	N/A	%	Moisture	7/07/04 08:20	KB

Notes: Project Name: Curtis Bay Army Depot

Quality Assurance Review

Notes: American Radiation Services, Inc. assumes no liability for the use or interpretation of any analytical results provided other than the cost of the analysis itself. Reproduction of this report in less than full requires the written consent of the client.

KC-07



2609 North River Road Port Allen, Louisiana 70767
1 (800) 401-4277 FAX (225) 381-2996

ARS Tracking Number: ARS040993
Client ID: 406059-018-018
Date Sampled: 6/4/04
Time Sampled: NA
Type of Sample: Solid

Request or PO Number: 406059
ARS Sample ID: ARS040993-3310
Date Received: 6/11/04
Time Received: 1020
Date of Report: 6/22/04

Analysis Description	Analysis Results	Analysis Error +/- 2 Sigma	MDC	Analysis Units	Analysis Test Method	Analysis Date / Time	Analysis Technician
RA-226	0.933	0.4071	0.149	pCi/g	EPA 901.1M	6/12/04 19:43	SMB
Ra-228	1.146	0.1059	0.022	pCi/g	EPA 901.1M	6/12/04 19:43	SMB
PB-210	1.873	0.3302	0.170	pCi/g	EPA 901.1M	6/12/04 19:43	SMB
U-238	1.054	1.0652	0.234	pCi/g	EPA 901.1M	6/12/04 19:43	SMB
K-40	4.291	0.3731	0.071	pCi/g	EPA 901.1M	6/12/04 19:43	SMB
BI-214	0.793	0.0678	0.017	pCi/g	EPA 901.1M	6/12/04 19:43	SMB
PB-212	1.347	0.0678	0.011	pCi/g	EPA 901.1M	6/12/04 19:43	SMB
AM-241	0.003	0.0401	0.023	pCi/g	EPA 901.1M	6/12/04 19:43	SMB
Total Activity	24.943	NA	NA	pCi/g	EPA 901.1M	6/12/04 19:43	SMB
Percent Moisture	7.619	N/A	N/A	%	Moisture	6/12/04 19:43	JF

Notes: Project Number: Curtis Bay Army Depot

Quality Assurance Review

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2609 North River Road Port Allen, Louisiana 70767
1 (800) 401-4277 FAX (225) 381-2996

ARS Tracking Number: ARS041134

Request or PO Number: 406153

Client ID: 406153-056-056

ARS Sample ID: ARS041134-3906

Date Sampled: 6/22/04

Date Received: 6/30/04

Time Sampled: NA

Time Received: 1100

Type of Sample: Solid

Date of Report: 7/19/04

Analysis Description	Analysis Results	Analysis Error +/- 2 Sigma	MDC	Analysis Units	Analysis Test Method	Analysis Date / Time	Analysis Technician
RA-226	1.287	0.4071	0.199	pCi/g	EPA 901.1M	7/17/04 07:21	DM
Ra-228	0.301	0.0818	0.032	pCi/g	EPA 901.1M	7/17/04 07:21	DM
PB-210	1.621	0.5879	0.270	pCi/g	EPA 901.1M	7/17/04 07:21	DM
U-238	1.167	0.5077	0.224	pCi/g	EPA 901.1M	7/17/04 07:21	DM
K-40	2.128	0.4224	0.150	pCi/g	EPA 901.1M	7/17/04 07:21	DM
BI-214	0.345	0.0644	0.025	pCi/g	EPA 901.1M	7/17/04 07:21	DM
PB-212	0.509	0.0590	0.017	pCi/g	EPA 901.1M	7/17/04 07:21	DM
CS-137	0.297	0.0383	0.007	pCi/g	EPA 901.1M	7/17/04 07:21	DM
CO-60	-0.009	-0.3129	0.012	pCi/g	EPA 901.1M	7/17/04 07:21	DM
AM-241	0.003	0.0462	0.027	pCi/g	EPA 901.1M	7/17/04 07:21	DM
Total Activity	9.154	NA	NA	pCi/g	EPA 901.1M	7/17/04 07:21	DM
Percent Moisture	12.890	N/A	N/A	%	Moisture	7/07/04 08:20	KB

Notes: Project Name: Curtis Bay Army Depot

Quality Assurance Review

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2609 North River Road Port Allen, Louisiana 70767
1 (800) 401-4277 FAX (225) 381-2996

ARS Tracking Number: ARS040993

Request or PO Number: 406059

Client ID: 406059-019-019

ARS Sample ID: ARS040993-3311

Date Sampled: 6/4/04

Date Received: 6/11/04

Time Sampled: NA

Time Received: 1020

Type of Sample: Solid

Date of Report: 6/23/04

Analysis Description	Analysis Results	Analysis Error +/- 2 Sigma	MDC	Analysis Units	Analysis Test Method	Analysis Date / Time	Analysis Technician
RA-226	0.696	0.3228	0.117	pCi/g	EPA 901.1M	6/12/04 16:45	SMB
Ra-228	0.701	0.0586	0.017	pCi/g	EPA 901.1M	6/12/04 16:45	SMB
PB-210	1.469	0.3658	0.161	pCi/g	EPA 901.1M	6/12/04 16:45	SMB
U-238	0.000	0.0000	0.185	pCi/g	EPA 901.1M	6/12/04 16:45	SMB
K-40	4.015	0.3244	0.054	pCi/g	EPA 901.1M	6/12/04 16:45	SMB
BI-214	0.450	0.0469	0.014	pCi/g	EPA 901.1M	6/12/04 16:45	SMB
PB-212	0.809	0.0457	0.009	pCi/g	EPA 901.1M	6/12/04 16:45	SMB
AM-241	0.005	0.0325	0.019	pCi/g	EPA 901.1M	6/12/04 16:45	SMB
Total Activity	18.955	NA	NA	pCi/g	EPA 901.1M	6/12/04 16:45	SMB
Percent Moisture	14.530	N/A	N/A	%	Moisture	6/12/04 16:45	JF

Notes: Project Number: Curtis Bay Army Depot

Quality Assurance Review

Notes: American Radiation Services, Inc. assumes no liability for the use or interpretation of any analytical results provided other than the cost of the analysis itself. Reproduction of this report in less than full requires the written consent of the client.



2609 North River Road Port Allen, Louisiana 70767

1 (800) 401-4277

FAX (225) 381-2996

ARS Tracking Number: ARS040993

Request or PO Number: 406059

Client ID: 406059-020-020

ARS Sample ID: ARS040993-3312

Date Sampled: 6/4/04

Date Received: 6/11/04

Time Sampled: NA

Time Received: 1020

Type of Sample: Solid

Date of Report: 6/22/04

Analysis Description	Analysis Results	Analysis Error +/- 2 Sigma	MDC	Analysis Units	Analysis Test Method	Analysis Date / Time	Analysis Technician
RA-226	0.405	0.3804	0.144	pCi/g	EPA 901.1M	6/13/04 17:31	BJD
Ra-228	0.827	0.0739	0.016	pCi/g	EPA 901.1M	6/13/04 17:31	BJD
PB-210	1.191	0.3643	0.172	pCi/g	EPA 901.1M	6/13/04 17:31	BJD
U-238	0.000	0.0000	0.429	pCi/g	EPA 901.1M	6/13/04 17:31	BJD
K-40	4.424	0.3729	0.066	pCi/g	EPA 901.1M	6/13/04 17:31	BJD
BI-214	0.524	0.0534	0.016	pCi/g	EPA 901.1M	6/13/04 17:31	BJD
PB-212	0.918	0.0520	0.011	pCi/g	EPA 901.1M	6/13/04 17:31	BJD
AM-241	0.006	0.0358	0.021	pCi/g	EPA 901.1M	6/13/04 17:31	BJD
Total Activity	19.835	NA	NA	pCi/g	EPA 901.1M	6/13/04 17:31	BJD
Percent Moisture	9.391	N/A	N/A	%	Moisture	6/13/04 17:31	JF

Notes: Project Number: Curtis Bay Army Depot

Quality Assurance Review

Notes: American Radiation Services, Inc. assumes no liability for the use or interpretation of any analytical results provided other than the cost of the analysis itself. Reproduction of this report in less than full requires the written consent of the client.



2609 North River Road Port Allen, Louisiana 70767
1 (800) 401-4277 FAX (225) 381-2996

ARS Tracking Number: ARS041134

Request or PO Number: 406153

Client ID: 406153-057-057

ARS Sample ID: ARS041134-3907

Date Sampled: 6/22/04

Date Received: 6/30/04

Time Sampled: NA

Time Received: 1100

Type of Sample: Solid

Date of Report: 7/19/04

Analysis Description	Analysis Results	Analysis Error +/- 2 Sigma	MDC	Analysis Units	Analysis Test Method	Analysis Date / Time	Analysis Technician
RA-226	2.354	0.7983	0.278	pCi/g	EPA 901.1M	7/16/04 13:03	MS
Ra-228	2.334	0.2037	0.035	pCi/g	EPA 901.1M	7/16/04 13:03	MS
PB-210	1.984	0.5609	0.300	pCi/g	EPA 901.1M	7/16/04 13:03	MS
U-238	0.000	0.0000	0.468	pCi/g	EPA 901.1M	7/16/04 13:03	MS
K-40	4.208	0.4958	0.140	pCi/g	EPA 901.1M	7/16/04 13:03	MS
BI-214	1.499	0.1186	0.026	pCi/g	EPA 901.1M	7/16/04 13:03	MS
PB-212	2.772	0.1390	0.019	pCi/g	EPA 901.1M	7/16/04 13:03	MS
CS-137	0.112	0.0318	0.016	pCi/g	EPA 901.1M	7/16/04 13:03	MS
CO-60	0.002	0.0235	0.014	pCi/g	EPA 901.1M	7/16/04 13:03	MS
AM-241	-0.005	-2.8529	0.043	pCi/g	EPA 901.1M	7/16/04 13:03	MS
Total Activity	36.730	NA	NA	pCi/g	EPA 901.1M	7/16/04 13:03	MS
Percent Moisture	6.780	N/A	N/A	%	Moisture	7/07/04 08:20	KB

Notes: Project Name: Curtis Bay Army Depot

Quality Assurance Review

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2609 North River Road Port Allen, Louisiana 70767

1 (800) 401-4277

FAX (225) 381-2996

ARS Tracking Number: ARS040993

Request or PO Number: 406059

Client ID: 406059-021-021

ARS Sample ID: ARS040993-3313

Date Sampled: 6/4/04

Date Received: 6/11/04

Time Sampled: NA

Time Received: 1020

Type of Sample: Solid

Date of Report: 6/22/04

Analysis Description	Analysis Results	Analysis Error +/- 2 Sigma	MDC	Analysis Units	Analysis Test Method	Analysis Date / Time	Analysis Technician
RA-226	0.561	0.2633	0.143	pCi/g	EPA 901.1M	6/12/04 23:30	SMB
Ra-228	0.513	0.0539	0.015	pCi/g	EPA 901.1M	6/12/04 23:30	SMB
PB-210	1.480	0.3211	0.171	pCi/g	EPA 901.1M	6/12/04 23:30	SMB
U-238	1.033	0.3345	0.153	pCi/g	EPA 901.1M	6/12/04 23:30	SMB
K-40	4.218	0.3865	0.076	pCi/g	EPA 901.1M	6/12/04 23:30	SMB
BI-214	0.383	0.0501	0.017	pCi/g	EPA 901.1M	6/12/04 23:30	SMB
PB-212	0.307	0.1095	0.054	pCi/g	EPA 901.1M	6/12/04 23:30	SMB
AM-241	-0.007	-0.8815	0.021	pCi/g	EPA 901.1M	6/12/04 23:30	SMB
Total Activity	15.682	NA	NA	pCi/g	EPA 901.1M	6/12/04 23:30	SMB
Percent Moisture	15.610	N/A	N/A	%	Moisture	6/12/04 23:30	JF

Notes: Project Number: Curtis Bay Army Depot

Quality Assurance Review

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2609 North River Road Port Allen, Louisiana 70767
1 (800) 401-4277 FAX (225) 381-2996

ARS Tracking Number: ARS041134

Request or PO Number: 406153

Client ID: 406153-058-058

ARS Sample ID: ARS041134-3908

Date Sampled: 6/22/04

Date Received: 6/30/04

Time Sampled: NA

Time Received: 1100

Type of Sample: Solid

Date of Report: 7/19/04

Analysis Description	Analysis Results	Analysis Error +/- 2 Sigma	MDC	Analysis Units	Analysis Test Method	Analysis Date / Time	Analysis Technician
RA-226	1.115	0.7241	0.262	pCi/g	EPA 901.1M	7/17/04 18:35	SMB
Ra-228	1.783	0.1682	0.035	pCi/g	EPA 901.1M	7/17/04 18:35	SMB
PB-210	2.149	0.5356	0.280	pCi/g	EPA 901.1M	7/17/04 18:35	SMB
U-238	1.195	1.2801	0.393	pCi/g	EPA 901.1M	7/17/04 18:35	SMB
K-40	4.674	0.5309	0.144	pCi/g	EPA 901.1M	7/17/04 18:35	SMB
BI-214	1.247	0.1070	0.026	pCi/g	EPA 901.1M	7/17/04 18:35	SMB
PB-212	2.083	0.1135	0.019	pCi/g	EPA 901.1M	7/17/04 18:35	SMB
CS-137	0.381	0.0434	0.011	pCi/g	EPA 901.1M	7/17/04 18:35	SMB
CO-60	-0.009	-0.0949	0.013	pCi/g	EPA 901.1M	7/17/04 18:35	SMB
AM-241	0.039	0.0683	0.039	pCi/g	EPA 901.1M	7/17/04 18:35	SMB
Total Activity	25.314	NA	NA	pCi/g	EPA 901.1M	7/17/04 18:35	SMB
Percent Moisture	6.831	N/A	N/A	%	Moisture	7/07/04 08:20	KB

Notes: Project Name: Curtis Bay Army Depot

Quality Assurance Review

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2609 North River Road Port Allen, Louisiana 70767

1 (800) 401-4277

FAX (225) 381-2996

ARS Tracking Number: ARS041134

Request or PO Number: 406153

Client ID: 406153-059-059

ARS Sample ID: ARS041134-3909

Date Sampled: 6/22/04

Date Received: 6/30/04

Time Sampled: NA

Time Received: 1100

Type of Sample: Solid

Date of Report: 7/19/04

Analysis Description	Analysis Results	Analysis Error +/- 2 Sigma	MDC	Analysis Units	Analysis Test Method	Analysis Date / Time	Analysis Technician
RA-226	0.835	0.6806	0.240	pCi/g	EPA 901.1M	7/17/04 09:39	BJD
Ra-228	0.844	0.1092	0.037	pCi/g	EPA 901.1M	7/17/04 09:39	BJD
PB-210	1.971	0.7245	0.322	pCi/g	EPA 901.1M	7/17/04 09:39	BJD
U-238	0.000	0.0000	0.407	pCi/g	EPA 901.1M	7/17/04 09:39	BJD
K-40	3.661	0.5656	0.176	pCi/g	EPA 901.1M	7/17/04 09:39	BJD
BI-214	0.605	0.0973	0.032	pCi/g	EPA 901.1M	7/17/04 09:39	BJD
PB-212	0.956	0.0829	0.022	pCi/g	EPA 901.1M	7/17/04 09:39	BJD
CS-137	0.124	0.0344	0.010	pCi/g	EPA 901.1M	7/17/04 09:39	BJD
CO-60	0.006	0.0233	0.014	pCi/g	EPA 901.1M	7/17/04 09:39	BJD
AM-241	-0.001	-0.0787	0.036	pCi/g	EPA 901.1M	7/17/04 09:39	BJD
Total Activity	16.186	NA	NA	pCi/g	EPA 901.1M	7/17/04 09:39	BJD
Percent Moisture	16.850	N/A	N/A	%	Moisture	7/07/04 08:20	KB

Notes: Project Name: Curtis Bay Army Depot

Quality Assurance Review

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2609 North River Road Port Allen, Louisiana 70767

1 (800) 401-4277 FAX (225) 381-2996

ARS Tracking Number: ARS040993

Request or PO Number: 406059

Client ID: 406059-022-022

ARS Sample ID: ARS040993-3314

Date Sampled: 6/4/04

Date Received: 6/11/04

Time Sampled: NA

Time Received: 1020

Type of Sample: Solid

Date of Report: 6/22/04

Analysis Description	Analysis Results	Analysis Error +/- 2 Sigma	MDC	Analysis Units	Analysis Test Method	Analysis Date / Time	Analysis Technician
RA-226	1.729	0.3510	0.178	pCi/g	EPA 901.1M	6/14/04 15:54	MS
Ra-228	0.767	0.0725	0.020	pCi/g	EPA 901.1M	6/14/04 15:54	MS
PB-210	1.501	0.4275	0.236	pCi/g	EPA 901.1M	6/14/04 15:54	MS
U-238	1.147	0.4403	0.288	pCi/g	EPA 901.1M	6/14/04 15:54	MS
K-40	4.818	0.4356	0.087	pCi/g	EPA 901.1M	6/14/04 15:54	MS
BI-214	0.532	0.0646	0.019	pCi/g	EPA 901.1M	6/14/04 15:54	MS
PB-212	0.799	0.0515	0.014	pCi/g	EPA 901.1M	6/14/04 15:54	MS
AM-241	0.009	0.0447	0.026	pCi/g	EPA 901.1M	6/14/04 15:54	MS
Total Activity	15.282	NA	NA	pCi/g	EPA 901.1M	6/14/04 15:54	MS
Percent Moisture	13.400	N/A	N/A	%	Moisture	6/14/04 15:54	JF

Notes: Project Number: Curtis Bay Army Depot

Quality Assurance Review

Notes: American Radiation Services, Inc. assumes no liability for the use or interpretation of any analytical results provided other than the cost of the analysis itself. Reproduction of this report in less than full requires the written consent of the client.

KC-15



2609 North River Road Port Allen, Louisiana 70767
1 (800) 401-4277 FAX (225) 381-2996

ARS Tracking Number: ARS040993

Request or PO Number: 406059

Client ID: 406059-023-023

ARS Sample ID: ARS040993-3315

Date Sampled: 6/4/04

Date Received: 6/11/04

Time Sampled: NA

Time Received: 1020

Type of Sample: Solid

Date of Report: 6/22/04

Analysis Description	Analysis Results	Analysis Error +/- 2 Sigma	MDC	Analysis Units	Analysis Test Method	Analysis Date / Time	Analysis Technician
RA-226	0.787	0.4062	0.153	pCi/g	EPA 901.1M	6/13/04 08:36	SMB
Ra-228	1.069	0.0732	0.018	pCi/g	EPA 901.1M	6/13/04 08:36	SMB
PB-210	1.097	0.3435	0.161	pCi/g	EPA 901.1M	6/13/04 08:36	SMB
U-238	1.419	0.5513	0.242	pCi/g	EPA 901.1M	6/13/04 08:36	SMB
K-40	1.748	0.2260	0.058	pCi/g	EPA 901.1M	6/13/04 08:36	SMB
BI-214	0.777	0.0574	0.015	pCi/g	EPA 901.1M	6/13/04 08:36	SMB
PB-212	0.841	0.1565	0.045	pCi/g	EPA 901.1M	6/13/04 08:36	SMB
AM-241	0.001	0.0370	0.022	pCi/g	EPA 901.1M	6/13/04 08:36	SMB
Total Activity	21.952	NA	NA	pCi/g	EPA 901.1M	6/13/04 08:36	SMB
Percent Moisture	6.167	N/A	N/A	%	Moisture	6/13/04 08:36	JF

Notes: Project Number: Curtis Bay Army Depot

Quality Assurance Review

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2609 North River Road Port Allen, Louisiana 70767

1 (800) 401-4277

FAX (225) 381-2996

ARS Tracking Number: ARS041134

Request or PO Number: 406153

Client ID: 406153-060-060

ARS Sample ID: ARS041134-3910

Date Sampled: 6/22/04

Date Received: 6/30/04

Time Sampled: NA

Time Received: 1100

Type of Sample: Solid

Date of Report: 7/19/04

Analysis Description	Analysis Results	Analysis Error +/- 2 Sigma	MDC	Analysis Units	Analysis Test Method	Analysis Date / Time	Analysis Technician
RA-226	2.057	0.5522	0.276	pCi/g	EPA 901.1M	7/17/04 01:17	DM
Ra-228	0.694	0.0879	0.029	pCi/g	EPA 901.1M	7/17/04 01:17	DM
PB-210	2.253	0.6850	0.314	pCi/g	EPA 901.1M	7/17/04 01:17	DM
U-238	2.104	0.7089	0.433	pCi/g	EPA 901.1M	7/17/04 01:17	DM
K-40	4.443	0.5492	0.108	pCi/g	EPA 901.1M	7/17/04 01:17	DM
BI-214	1.053	0.1146	0.030	pCi/g	EPA 901.1M	7/17/04 01:17	DM
PB-212	0.897	0.0699	0.015	pCi/g	EPA 901.1M	7/17/04 01:17	DM
CS-137	0.204	0.0327	0.008	pCi/g	EPA 901.1M	7/17/04 01:17	DM
CO-60	-0.010	-0.1758	0.015	pCi/g	EPA 901.1M	7/17/04 01:17	DM
AM-241	-0.020	-0.1495	0.038	pCi/g	EPA 901.1M	7/17/04 01:17	DM
Total Activity	20.753	NA	NA	pCi/g	EPA 901.1M	7/17/04 01:17	DM
Percent Moisture	9.928	N/A	N/A	%	Moisture	7/07/04 08:20	KB

Notes: Project Name: Curtis Bay Army Depot

Quality Assurance Review

Notes: American Radiation Services, Inc. assumes no liability for the use or interpretation of any analytical results provided other than the cost of the analysis itself. Reproduction of this report in less than full requires the written consent of the client.

Analytical Summary Report

Client Name:	MKM Engineers, Inc.	Sample Matrix:	WATER
Client Sample ID:	K616 POND	Lab Sample ID:	406028-009-009-1/1
Sample Date/Time:	05/13/2004 00:00	Percent Moisture:	NA
Receipt Date/Time:	06/03/2004 10:00	Preparation Method:	SW6020
Prepared Date/Time:	06/22/2004 00:00	Analytical Method:	SW6020

#	Parameter	Reported Result	Q	Reporting Limit	Dil Fact	Units	Analysis Date/Time
1)	Thorium	8.0		2	1	ug/L	06/28/04 15:48



2609 North River Road Port Allen, Louisiana 70767
1 (800) 401-4277 FAX (225) 381-2996

ARS Tracking Number: ARS041133

Request or PO Number: 406128

Client ID: 406128-014-056

ARS Sample ID: ARS041133-3809

Date Sampled: 6/9/04

Date Received: 6/30/04

Time Sampled: NA

Time Received: 1100

Type of Sample: Liquid

Date of Report: 7/15/04

Analysis Description	Analysis Results	Analysis Error +/- 2 Sigma	MDC	Analysis Units	Analysis Test Method	Analysis Date / Time	Analysis Technician
Ra-228	5.475	4.3784	5.160	pCi/L	EPA 901.1M	7/03/04 21:49	EAM
PB-210	-99.490	-38.9960	27.800	pCi/L	EPA 901.1M	7/03/04 21:49	EAM
U-238	105.390	22.5960	27.800	pCi/L	EPA 901.1M	7/03/04 21:49	EAM
K-40	-167.130	-99.5740	25.500	pCi/L	EPA 901.1M	7/03/04 21:49	EAM
BI-214	-56.083	-21.7080	4.730	pCi/L	EPA 901.1M	7/03/04 21:49	EAM
PB-212	6.787	2.2288	2.540	pCi/L	EPA 901.1M	7/03/04 21:49	EAM
CS-137	-1.040	-4.4017	1.610	pCi/L	EPA 901.1M	7/03/04 21:49	EAM
CO-60	-3.182	-4.8045	1.710	pCi/L	EPA 901.1M	7/03/04 21:49	EAM
AM-241	-2.065	-5.7272	2.510	pCi/L	EPA 901.1M	7/03/04 21:49	EAM

Notes: Project Name: Curtis Bay Army Depot

Quality Assurance Review

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2609 North River Road Port Allen, Louisiana 70767
1 (800) 401-4277 FAX (225) 381-2996

ARS Tracking Number: ARS041133

Request or PO Number: 406128

Client ID: 406128-015-057

ARS Sample ID: ARS041133-3810

Date Sampled: 6/14/04

Date Received: 6/30/04

Time Sampled: NA


Time Received: 1100

Type of Sample: Liquid

Date of Report: 7/15/04

Analysis Description	Analysis Results	Analysis Error +/- 2 Sigma	MDC	Analysis Units	Analysis Test Method	Analysis Date / Time	Analysis Technician
Ra-228	6.333	5.2442	6.180	pCi/L	EPA 901.1M	7/01/04 17:20	MS
PB-210	-178.780	-61.5010	33.100	pCi/L	EPA 901.1M	7/01/04 17:20	MS
U-238	106.990	24.2750	27.100	pCi/L	EPA 901.1M	7/01/04 17:20	MS
K-40	-185.530	-107.9300	30.900	pCi/L	EPA 901.1M	7/01/04 17:20	MS
BI-214	-66.638	-25.6740	5.490	pCi/L	EPA 901.1M	7/01/04 17:20	MS
PB-212	6.710	2.2200	2.890	pCi/L	EPA 901.1M	7/01/04 17:20	MS
CS-137	-1.509	-7.9436	1.940	pCi/L	EPA 901.1M	7/01/04 17:20	MS
CO-60	-5.201	-15.1170	2.100	pCi/L	EPA 901.1M	7/01/04 17:20	MS
AM-241	-4.304	-25.6540	2.980	pCi/L	EPA 901.1M	7/01/04 17:20	MS

Notes: Project Name: Curtis Bay Army Depot


Quality Assurance Review

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2609 North River Road Port Allen, Louisiana 70767
1 (800) 401-4277 FAX (225) 381-2996

ARS Tracking Number: ARS040986

Request or PO Number: 406029

Client ID: 406029-007-007

ARS Sample ID: ARS040986-3262

Date Sampled: 5/27/04

Date Received: 6/9/04

Time Sampled: NA

Time Received: 1100

Type of Sample: Solid

Date of Report: 6/17/04

Analysis Description	Analysis Results	Analysis Error ± 2 Sigma	MDC	Analysis Units	Analysis Test Method	Analysis Date / Time	Analysis Technician
RA-226	0.892	0.4127	0.149	pCi/g	EPA 901.1M	6/16/04 13:50	MS
Ra-228	1.317	0.0843	0.021	pCi/g	EPA 901.1M	6/16/04 13:50	MS
PB-210	1.238	0.3128	0.171	pCi/g	EPA 901.1M	6/16/04 13:50	MS
U-238	1.449	1.0246	0.204	pCi/g	EPA 901.1M	6/16/04 13:50	MS
K-40	4.433	0.3450	0.056	pCi/g	EPA 901.1M	6/16/04 13:50	MS
Bi-214	1.014	0.0651	0.015	pCi/g	EPA 901.1M	6/16/04 13:50	MS
PB-212	1.586	0.0756	0.011	pCi/g	EPA 901.1M	6/16/04 13:50	MS
CS-137	0.006	0.0158	0.009	pCi/g	EPA 901.1M	6/16/04 13:50	MS
CO-60	-0.012	-0.0323	0.009	pCi/g	EPA 901.1M	6/16/04 13:50	MS
AM-241	-0.009	-0.1353	0.024	pCi/g	EPA 901.1M	6/16/04 13:50	MS
Total Activity	29.340	NA	NA	pCi/g	EPA 901.1M	6/16/04 13:50	MS

Notes: Project Number: Curtis Bay Army Depot

Quality Assurance Review

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2609 North River Road Port Allen, Louisiana 70767
1 (800) 401-4277 FAX (225) 381-2996

ARS Tracking Number: ARS040993
Client ID: 406059-038-038
Date Sampled: 6/4/04
Time Sampled: NA
Type of Sample: Solid

Request or PO Number: 406059
ARS Sample ID: ARS040993-3330
Date Received: 6/11/04
Time Received: 1020
Date of Report: 6/22/04

Analysis Description	Analysis Results	Analysis Error +/- 2 Sigma	MDC	Analysis Units	Analysis Test Method	Analysis Date / Time	Analysis Technician
RA-226	1.275	0.5347	0.280	pCi/g	EPA 901.1M	6/19/04 15:02	WLM
Ra-228	0.832	0.1186	0.048	pCi/g	EPA 901.1M	6/19/04 15:02	WLM
PB-210	2.705	0.6443	0.328	pCi/g	EPA 901.1M	6/19/04 15:02	WLM
U-238	2.988	0.6892	0.462	pCi/g	EPA 901.1M	6/19/04 15:02	WLM
K-40	5.279	0.6971	0.204	pCi/g	EPA 901.1M	6/19/04 15:02	WLM
BI-214	0.758	0.1112	0.034	pCi/g	EPA 901.1M	6/19/04 15:02	WLM
PB-212	1.040	0.0845	0.023	pCi/g	EPA 901.1M	6/19/04 15:02	WLM
AM-241	0.008	0.0657	0.038	pCi/g	EPA 901.1M	6/19/04 15:02	WLM
Total Activity	22.056	NA	NA	pCi/g	EPA 901.1M	6/19/04 15:02	WLM
Percent Moisture	19.710	N/A	N/A	%	Moisture	6/19/04 15:02	JF

Notes: Project Number: Curtis Bay Army Depot

Quality Assurance Review

Notes: American Radiation Services, Inc. assumes no liability for the use or interpretation of any analytical results provided other than the cost of the analysis itself. Reproduction of this report in less than full requires the written consent of the client.



2609 North River Road Port Allen, Louisiana 70767
1 (800) 401-4277 FAX (225) 381-2996

ARS Tracking Number: ARS040993

Request or PO Number: 406059

Client ID: 406059-039-039

ARS Sample ID: ARS040993-3331

Date Sampled: 6/4/04

Date Received: 6/11/04

Time Sampled: NA

Time Received: 1020

Type of Sample: Solid

Date of Report: 6/22/04

Analysis Description	Analysis Results	Analysis Error +/- 2 Sigma	MDC	Analysis Units	Analysis Test Method	Analysis Date / Time	Analysis Technician
RA-226	0.890	0.5736	0.317	pCi/g	EPA 901.1M	6/19/04 05:06	MS
Ra-228	1.411	0.1499	0.030	pCi/g	EPA 901.1M	6/19/04 05:06	MS
PB-210	2.704	0.6300	0.323	pCi/g	EPA 901.1M	6/19/04 05:06	MS
U-238	3.493	0.6696	0.458	pCi/g	EPA 901.1M	6/19/04 05:06	MS
K-40	11.175	0.9188	0.117	pCi/g	EPA 901.1M	6/19/04 05:06	MS
BI-214	0.925	0.1014	0.028	pCi/g	EPA 901.1M	6/19/04 05:06	MS
PB-212	1.546	0.0988	0.020	pCi/g	EPA 901.1M	6/19/04 05:06	MS
AM-241	-0.012	-0.3143	0.042	pCi/g	EPA 901.1M	6/19/04 05:06	MS
Total Activity	35.900	NA	NA	pCi/g	EPA 901.1M	6/19/04 05:06	MS
Percent Moisture	17.340	N/A	N/A	%	Moisture	6/19/04 05:06	JF

Notes: Project Number: Curtis Bay Army Depot

Quality Assurance Review

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2609 North River Road Port Allen, Louisiana 70767

1 (800) 401-4277 FAX (225) 381-2996

ARS Tracking Number: ARS040993

Request or PO Number: 406059

Client ID: 406059-040-040

ARS Sample ID: ARS040993-3332

Date Sampled: 6/4/04

Date Received: 6/11/04

Time Sampled: NA

Time Received: 1020

Type of Sample: Solid

Date of Report: 6/22/04

Analysis Description	Analysis Results	Analysis Error +/- 2 Sigma	MDC	Analysis Units	Analysis Test Method	Analysis Date / Time	Analysis Technician
RA-226	0.361	0.6932	0.261	pCi/g	EPA 901.1M	6/20/04 17:24	WLM
Ra-228	0.767	0.1269	0.035	pCi/g	EPA 901.1M	6/20/04 17:24	WLM
PB-210	2.837	0.7496	0.324	pCi/g	EPA 901.1M	6/20/04 17:24	WLM
U-238	0.379	1.8016	0.387	pCi/g	EPA 901.1M	6/20/04 17:24	WLM
K-40	5.986	0.6657	0.116	pCi/g	EPA 901.1M	6/20/04 17:24	WLM
BI-214	0.565	0.0932	0.032	pCi/g	EPA 901.1M	6/20/04 17:24	WLM
PB-212	0.756	0.0785	0.023	pCi/g	EPA 901.1M	6/20/04 17:24	WLM
AM-241	-0.009	-0.0315	0.020	pCi/g	EPA 901.1M	6/20/04 17:24	WLM
Total Activity	19.439	NA	NA	pCi/g	EPA 901.1M	6/20/04 17:24	WLM
Percent Moisture	18.900	N/A	N/A	%	Moisture	6/20/04 17:24	JF

Notes: Project Number: Curtis Bay Army Depot

Quality Assurance Review

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2609 North River Road Port Allen, Louisiana 70767
1 (800) 401-4277 FAX (225) 381-2996

ARS Tracking Number: ARS040993

Request or PO Number: 406059

Client ID: 406059-024-024

ARS Sample ID: ARS040993-3316

Date Sampled: 6/4/04

Date Received: 6/11/04

Time Sampled: NA

Time Received: 1020

Type of Sample: Solid

Date of Report: 6/22/04

Analysis Description	Analysis Results	Analysis Error +/- 2 Sigma	MDC	Analysis Units	Analysis Test Method	Analysis Date / Time	Analysis Technician
RA-226	0.137	0.4276	0.164	pCi/g	EPA 901.1M	6/14/04 19:23	MS
Ra-228	1.051	0.0981	0.020	pCi/g	EPA 901.1M	6/14/04 19:23	MS
PB-210	1.563	0.3665	0.198	pCi/g	EPA 901.1M	6/14/04 19:23	MS
U-238	0.000	0.0000	0.233	pCi/g	EPA 901.1M	6/14/04 19:23	MS
K-40	3.902	0.3582	0.075	pCi/g	EPA 901.1M	6/14/04 19:23	MS
Bi-214	0.741	0.0643	0.018	pCi/g	EPA 901.1M	6/14/04 19:23	MS
PB-212	1.226	0.0652	0.014	pCi/g	EPA 901.1M	6/14/04 19:23	MS
AM-241	-0.029	-0.0625	0.025	pCi/g	EPA 901.1M	6/14/04 19:23	MS
Total Activity	24.593	NA	NA	pCi/g	EPA 901.1M	6/14/04 19:23	MS
Percent Moisture	8.426	N/A	N/A	%	Moisture	6/14/04 19:23	JF

Notes: Project Number: Curtis Bay Army Depot

Quality Assurance Review

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2609 North River Road Port Allen, Louisiana 70767
1 (800) 401-4277 FAX (225) 381-2996

ARS Tracking Number: ARS040993

Request or PO Number: 406059

Client ID: 406059-025-025

ARS Sample ID: ARS040993-3317

Date Sampled: 6/4/04

Date Received: 6/11/04

Time Sampled: NA

Time Received: 1020

Type of Sample: Solid

Date of Report: 6/22/04

Analysis Description	Analysis Results	Analysis Error +/- 2 Sigma	MDC	Analysis Units	Analysis Test Method	Analysis Date / Time	Analysis Technician
RA-226	0.604	0.4296	0.164	pCi/g	EPA 901.1M	6/13/04 06:30	SMB
Ra-228	1.192	0.1015	0.020	pCi/g	EPA 901.1M	6/13/04 06:30	SMB
PB-210	1.325	0.3629	0.168	pCi/g	EPA 901.1M	6/13/04 06:30	SMB
U-238	1.488	0.6216	0.232	pCi/g	EPA 901.1M	6/13/04 06:30	SMB
K-40	3.029	0.3042	0.069	pCi/g	EPA 901.1M	6/13/04 06:30	SMB
BI-214	1.155	0.0757	0.015	pCi/g	EPA 901.1M	6/13/04 06:30	SMB
PB-212	1.393	0.0688	0.011	pCi/g	EPA 901.1M	6/13/04 06:30	SMB
AM-241	0.002	0.0370	0.022	pCi/g	EPA 901.1M	6/13/04 06:30	SMB
Total Activity	31.269	NA	NA	pCi/g	EPA 901.1M	6/13/04 06:30	SMB
Percent Moisture	8.105	N/A	N/A	%	Moisture	6/13/04 06:30	JF

Notes: Project Number: Curtis Bay Army Depot

Quality Assurance Review

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2609 North River Road Port Allen, Louisiana 70767
1 (800) 401-4277 FAX (225) 381-2996

ARS Tracking Number: ARS040993

Request or PO Number: 406059

Client ID: 406059-026-026

ARS Sample ID: ARS040993-3318

Date Sampled: 6/4/04

Date Received: 6/11/04

Time Sampled: NA

Time Received: 1020

Type of Sample: Solid

Date of Report: 6/22/04

Analysis Description	Analysis Results	Analysis Error +/- 2 Sigma	MDC	Analysis Units	Analysis Test Method	Analysis Date / Time	Analysis Technician
RA-226	3.093	0.3835	0.187	pCi/g	EPA 901.1M	6/13/04 13:17	BJD
Ra-228	1.627	0.1213	0.021	pCi/g	EPA 901.1M	6/13/04 13:17	BJD
PB-210	1.665	0.3336	0.177	pCi/g	EPA 901.1M	6/13/04 13:17	BJD
U-238	1.587	0.6096	0.292	pCi/g	EPA 901.1M	6/13/04 13:17	BJD
K-40	4.158	0.3560	0.068	pCi/g	EPA 901.1M	6/13/04 13:17	BJD
BI-214	1.084	0.0769	0.018	pCi/g	EPA 901.1M	6/13/04 13:17	BJD
PB-212	1.981	0.0921	0.013	pCi/g	EPA 901.1M	6/13/04 13:17	BJD
AM-241	0.019	0.0420	0.024	pCi/g	EPA 901.1M	6/13/04 13:17	BJD
Total Activity	36.342	NA	NA	pCi/g	EPA 901.1M	6/13/04 13:17	BJD
Percent Moisture	7.200	N/A	N/A	%	Moisture	6/13/04 13:17	JF

Notes: Project Number: Curtis Bay Army Depot

Quality Assurance Review

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2609 North River Road Port Allen, Louisiana 70767
1 (800) 401-4277 FAX (225) 381-2996

ARS Tracking Number: ARS040986

Request or PO Number: 406029

Client ID: 406029-004-004

ARS Sample ID: ARS040986-3259

Date Sampled: 5/21/04

Date Received: 6/9/04

Time Sampled: NA

Time Received: 1100

Type of Sample: Solid

Date of Report: 6/17/04

Analysis Description	Analysis Results	Analysis Error +/- 2 Sigma	MDC	Analysis Units	Analysis Test Method	Analysis Date / Time	Analysis Technician
RA-226	0.561	0.2030	0.107	pCi/g	EPA 901.1M	6/16/04 18:34	CSG
Ra-228	0.471	0.0466	0.013	pCi/g	EPA 901.1M	6/16/04 18:34	CSG
PB-210	0.873	0.3228	0.146	pCi/g	EPA 901.1M	6/16/04 18:34	CSG
U-238	0.553	0.4405	0.174	pCi/g	EPA 901.1M	6/16/04 18:34	CSG
K-40	2.170	0.2359	0.048	pCi/g	EPA 901.1M	6/16/04 18:34	CSG
BI-214	0.277	0.0335	0.011	pCi/g	EPA 901.1M	6/16/04 18:34	CSG
PB-212	0.485	0.0329	0.008	pCi/g	EPA 901.1M	6/16/04 18:34	CSG
CS-137	0.105	0.0175	0.005	pCi/g	EPA 901.1M	6/16/04 18:34	CSG
CO-60	-0.001	-0.0180	0.006	pCi/g	EPA 901.1M	6/16/04 18:34	CSG
AM-241	0.006	0.0272	0.016	pCi/g	EPA 901.1M	6/16/04 18:34	CSG
Total Activity	10.188	NA	NA	pCi/g	EPA 901.1M	6/16/04 18:34	CSG

Notes: Project Number: Curtis Bay Army Depot


Quality Assurance Review

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2609 North River Road Port Allen, Louisiana 70767
1 (800) 401-4277 FAX (225) 381-2996

ARS Tracking Number: ARS040986

Request or PO Number: 406029

Client ID: 406029-005-005

ARS Sample ID: ARS040986-3260

Date Sampled: 5/21/04

Date Received: 6/9/04

Time Sampled: NA

Time Received: 1100

Type of Sample: Solid

Date of Report: 6/17/04

Analysis Description	Analysis Results	Analysis Error +/- 2 Sigma	MDC	Analysis Units	Analysis Test Method	Analysis Date / Time	Analysis Technician
RA-226	0.838	0.4153	0.148	pCi/g	EPA 901.1M	6/15/04 22:16	MS
Ra-228	0.889	0.0880	0.017	pCi/g	EPA 901.1M	6/15/04 22:16	MS
PB-210	1.713	0.3392	0.178	pCi/g	EPA 901.1M	6/15/04 22:16	MS
U-238	0.000	0.0000	0.194	pCi/g	EPA 901.1M	6/15/04 22:16	MS
K-40	5.138	0.4302	0.079	pCi/g	EPA 901.1M	6/15/04 22:16	MS
BI-214	0.685	0.0562	0.015	pCi/g	EPA 901.1M	6/15/04 22:16	MS
PB-212	0.988	0.0556	0.012	pCi/g	EPA 901.1M	6/15/04 22:16	MS
CS-137	0.113	0.0221	0.007	pCi/g	EPA 901.1M	6/15/04 22:16	MS
CO-60	-0.013	-0.0384	0.009	pCi/g	EPA 901.1M	6/15/04 22:16	MS
AM-241	-0.006	-0.0224	0.013	pCi/g	EPA 901.1M	6/15/04 22:16	MS
al Activity	18.839	NA	NA	pCi/g	EPA 901.1M	6/15/04 22:16	MS

Notes: Project Number: Curtis Bay Army Depot

Quality Assurance Review

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2609 North River Road Port Allen, Louisiana 70767
1 (800) 401-4277 FAX (225) 381-2996

ARS Tracking Number: ARS040986

Request or PO Number: 406029

Client ID: 406029-006-006

ARS Sample ID: ARS040986-3261

Date Sampled: 6/2/04

Date Received: 6/9/04

Time Sampled: NA

Time Received: 1100

Type of Sample: Solid

Date of Report: 6/17/04

Analysis Description	Analysis Results	Analysis Error +/- 2 Sigma	MDC	Analysis Units	Analysis Test Method	Analysis Date / Time	Analysis Technician
RA-226	0.526	0.3443	0.127	pCi/g	EPA 901.1M	6/17/04 07:21	MS
Ra-228	0.822	0.0625	0.019	pCi/g	EPA 901.1M	6/17/04 07:21	MS
PB-210	1.556	0.4039	0.175	pCi/g	EPA 901.1M	6/17/04 07:21	MS
U-238	0.601	0.6447	0.199	pCi/g	EPA 901.1M	6/17/04 07:21	MS
K-40	7.252	0.4680	0.053	pCi/g	EPA 901.1M	6/17/04 07:21	MS
BI-214	0.653	0.0539	0.013	pCi/g	EPA 901.1M	6/17/04 07:21	MS
PB-212	0.947	0.0507	0.009	pCi/g	EPA 901.1M	6/17/04 07:21	MS
CS-137	0.198	0.0215	0.005	pCi/g	EPA 901.1M	6/17/04 07:21	MS
CO-60	-0.006	-0.0450	0.008	pCi/g	EPA 901.1M	6/17/04 07:21	MS
AM-241	-0.003	-1.0870	0.022	pCi/g	EPA 901.1M	6/17/04 07:21	MS
Total Activity	23.327	NA	NA	pCi/g	EPA 901.1M	6/17/04 07:21	MS

Notes: Project Number: Curtis Bay Army Depot

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