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CERTIFICATION REPORT FOR AREA 1, PHASE III PART ONE

FERNALD ENVIRONMENTAL MANAGEMENT PROJECT
FERNALD, OHIO

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U.S. DEPARTMENT OF ENERGY
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LIST OF ACRONYMS AND ABBREVIATIONS

A1PIII	Area 1, Phase III
ASCOC	area-specific constituent of concern
ASL	analytical support level
CDL	Certification Design Letter
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
COC	constituent of concern
CRDL	contract required detection limit
CU	certification unit
DOE	U.S. Department of Energy
EM	electromagnetic conductivity
EPA	U.S. Environmental Protection Agency
FEMP	Fernald Environmental Management Project
FRL	final remediation level
HAMDC	highest allowable minimum detectable concentration
HPGe	high-purity germanium detector
ICP-AES	inductively coupled plasma – atomic emission spectroscopy
LCS	laboratory control sample
µg/g	micrograms per gram
MDC	minimum detectable concentration
mg/kg	milligrams per kilogram
NaI	sodium iodide
OEPA	Ohio Environmental Protection Agency
OSDF	On-Site Disposal Facility
OU	Operable Unit
pCi/g	picoCuries per gram
PSP	Project Specific Plan
QA/QC	Quality Assurance/Quality Control
RAWP	Remedial Action Work Plan
ROD	Record of Decision
RSS	Radiation Scanning System
RTRAK	Radiation Tracking System
SCQ	Sitewide CERCLA Quality Assurance Project Plan
SED	Sitewide Environmental Database
SEP	Sitewide Excavation Plan
TPU	total propagated uncertainty
UCL	upper confidence level
V/FCN	Variance/Field Change Notice
V&V	verification and validation
WAC	waste acceptance criteria

EXECUTIVE SUMMARY

This certification report presents the information and data used by the U.S. Department of Energy (DOE) to determine that existing area-specific constituents of concern (ASCOCs) concentrations do not exceed the final remediation levels (FRLs) in Area 1, Phase III (A1PIII) Part One at the Fernald Environmental Management Project (FEMP). On the basis of this reported information and supporting project files, DOE has determined that no remedial action and no further debris removal is required in this area of the site and, therefore, it can be considered "certified." A1PIII Part One will be considered certified when the U.S. Environmental Protection Agency (EPA) and Ohio Environmental Protection Agency (OEPA) agree that the certification criteria have been achieved within all 26 relevant certification units (CUs) into which the area was divided. Upon approval from the regulatory agencies, DOE will proceed with planning the natural resource restoration activities for A1PIII Part One, as outlined in the Natural Resource Restoration Plan (DOE 1998a).

A1PIII Part One was initially divided into 25 CUs. However, during development of the Certification Design Letter (CDL) for A1PIII Part One, non-native debris was discovered within the area. The debris, both surface and subsurface, was removed and an additional CU was established within the footprint of the subsurface debris removal. Delineation of CUs 01 through 25 is described in the CDL for A1PIII (DOE 2000a) (This certification area was not identified as "part one" until after the submittal of the CDL and the Project Specific Plan). Delineation of CU 26 is described in Variance/Field Change Notice (V/FCN) 20720-PSP-0001-4. Certification sampling was conducted in this area of the site to verify that the certification criteria were achieved. These criteria state that: 1) the mean concentrations or activities of the primary ASCOCs within a CU are less than the FRLs at the 95 percent upper confidence level; and 2) no certification result can exceed two-times the FRL (i.e., the hot spot criterion). If either of these criteria is not met, then further investigation and possible excavation is required. If both of these criteria are met for a CU, then it can be released for development of the final land use.

A1PIII Part One is heavily wooded, making it impractical to conduct a precertification scan without extensive clearing of vegetation. Therefore, existing historical data and land use information were used to verify the certification readiness and to establish CU boundaries. Based on this information, certification began without conducting remedial activities. A "supplemental" real-time scan was conducted in conjunction with certification sampling activities. The "supplemental" real-time scanning

data indicated no above-FRL radiological contamination present. The A1PIII Part One certification samples were analyzed at the FEMP on-site laboratory, following guidelines outlined in the Sitewide Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) Quality Assurance Project Plan (SCQ, Procedure FD-1000) and the Sitewide Excavation Plan (SEP, DOE 1998b). Samples from twelve locations in each CU were analyzed and reported at the required analytical support level. Analytical data packages included sample results with associated quality assurance/quality control data and all applicable raw data. The data were also subjected to the required validation and verification process, which did not identify any significant quality concerns. All A1PIII Part One CUs achieved the certification criteria. The determination of passing or failing certification was based on a review of certification sample analytical results from each CU against the certification criteria. Statistical analysis was required for only one ASCOC in one CU to determine if it passed certification. All other results were below their associated FRLs. Based on the analytical results, and the one statistical analysis, all 26 CUs under the scope of this certification effort achieved the certification criteria. DOE has restricted access to certified areas in order to maintain their integrity prior to development of the final land use.

1.0 INTRODUCTION

1.1 PURPOSE

This Certification Report presents the information and data used by the U.S. Department of Energy (DOE) to determine that existing concentrations of area-specific constituents of concern (ASCOC) in soils do not exceed the final remediation levels (FRLs) within Area 1, Phase III (A1PIII) Part One. As discussed in the Certification Design Letter (CDL, DOE 2000a) for A1PIII Part One, this soil is being certified in order to proceed with final land use activities.

1.2 BACKGROUND

In the 1996 Operable Unit (OU) 5 Record of Decision (ROD, DOE 1996a), DOE committed to excavating contaminated soil that exceeds health-based FRLs, with final disposition of the excavated material in the On-Site Disposal Facility (OSDF) or at an off-site disposal facility if the material exceeds OSDF waste acceptance criteria (WAC). The OU5 Remedial Investigation Report (DOE 1995) defined the extent of soil contamination exceeding the FRLs and, in general, indicated widespread contamination occurring in approximately 430 acres of the 1,050-acre Fernald Environmental Management Project (FEMP). In the OU5 Remedial Action Work Plan (RAWP, DOE 1996b), DOE committed to preparing a Sitewide Excavation Plan (SEP, DOE 1998b) to define the overall approach to implementing the soil and at- and below-grade debris cleanup obligations identified in the OU2, OU3, and OU5 RODs.

In the SEP, the FEMP has been divided into distinct remedial areas and phases for soil remediation, based on the operable units' remediation schedule. After all necessary remediation is completed within each area/phase, the soil is certified as having attained all clean up goals (i.e., FRLs). The SEP describes the general soil remediation and certification process at the FEMP. Based on existing soil analytical data, historical land use and location, no soil excavation was anticipated in A1PIII Part One. Consequently, excavation Approach E was followed in A1PIII Part One, and no Integrated Remedial Design Package was submitted. However, during development of the A1PIII Part One CDL, surface and subsurface, non-native debris (fencing, concrete, metal, etc.) was discovered in previously disturbed areas. Per the Ohio Environmental Protection Agency (OEPA), removal of the non-native debris was necessary to complete certification of the area. The general approach for the removal of the debris followed "Excavation Approach A – Shallow Excavation of Impacted On-Property Area Outside the Former Production Area and Other Waste Storage/Management Areas" described in Section 4.1 of the

SEP. The performance requirements for implementing this approach are presented in the Implementation Plan for Paddys Run Debris Removal/Bank Stabilization and Area 1, Phase III (DOE 2001).

Typically, a precertification scan is conducted prior to issuance of the CDL. The data from these scans are used to: 1) verify that no localized contamination (i.e., "hot spots") are present, 2) provide a preliminary indication if an area will likely pass certification, and 3) bias CU boundaries so pockets of elevated activity are contained. Because A1PIII Part One is primarily wooded, it was not practical to conduct a precertification scan without large-scale vegetation removal. This would not support natural resource restoration goals, considering this area contains a sensitive habitat, the forested wetland, in the center and a mature forest in the west. Existing historical data and land use information were used to verify the certification readiness and to establish CU boundaries.

As an added measure to verify that no hot spots are present, real-time scanning was conducted as part of the certification process in the A1PIII Part One disturbed areas. This "supplemental" real-time scanning is discussed further in Section 2.2.2, and details of the fieldwork are presented in the Project Specific Plan (PSP) for A1PIII Certification Sampling (DOE 2000b). (This certification area was not identified as "part one" until after the submittal of the CDL and the PSP.) Following the review of the historical data and land use information, a CDL (DOE 2000a) was developed to proceed with the certification process.

Location of debris and associated field activities, which were required prior to final certification, are described in the Implementation Plan for Paddys Run Debris Removal/Bank Stabilization and Area 1, Phase III, and are also discussed in Section 2.2.2. All certification activities for this area were conducted in compliance with the SEP.

1.3 AREA DESCRIPTION

A1PIII Part One includes the northern portion of the FEMP between Paddys Run and the old north access road. The A1PIII Part One boundary has been modified from the SEP to follow the existing fence around the northern wood lot. This fence was installed following construction of the rail yard (located just south of A1PIII Part One). Several acres adjacent to the railroad line that were formerly part of

A1PIII Part One are no longer part of this certification effort. This land will now be considered A1PIII Part Three. These areas are identified on Figure 1-1.

With the revised boundary, A1PIII Part One is a 107.4-acre parcel of primarily wooded land with a forested wetland habitat and several open areas of formerly grazed meadow. The topography of A1PIII Part One is variable, with an overall slope to the south-southwest. Several small drainage ditches enter A1PIII Part One from an off-property agricultural area and eventually disperse within A1PIII Part One to form the wetlands.

It is unlikely that the majority of A1PIII Part One has been impacted from former FEMP production activities for several reasons. First, A1PIII Part One is located to the north and northwest (generally upwind) of the Former Production Area and, therefore, should have minimal impacts from airborne contamination. Secondly, A1PIII Part One does not receive drainage from any other part of the FEMP site. Finally, as stated in the OU5 Remedial Investigation (DOE 1995), no known disposal or plant-related activities were associated with this region of the FEMP. While this is the case, a review of aerial photographs and visual examinations of the area show several soil disturbances in A1PIII Part One, as follows:

- During plant construction (early 1950s prior to operations), fill was deposited over the hillside in the northeast corner of this area (Northeast Fill Area, Figure 1-2). The amount of bedrock in this fill indicates it likely originated from where the old access road (a.k.a., construction road) was cut through the hillside.

- Aerial photos from the mid-1970s show earthwork in the southwest corner of A1PIII Part One just north of the railroad tracks (Northeast Fill Area, Figure 1-2). A large area of dispersed fill is evident in this area upon visual inspection.

- Aerial photos from the 1960s and 1970s show several cleared paths running throughout this area that were used for security patrols during production.

- A 1977 aerial photo showed a small excavation beginning at the north property boundary, approximately 700 feet east of Paddys Run, and extending in a southwest direction toward Paddys Run. Based on the trenched shape of the excavation and the saturated soil conditions in this area, this was probably an effort to divert drainage toward Paddys Run.

- More recently during construction of the railyard, several brush piles and small soil piles containing concrete debris were placed along the southern edge of what is now A1PIII Part One (located inside the new fence, Figure 1-2). Information on these piles was documented in Variance/Field Change Notice (V/FCN) 20720-PSP-0001-1 to the A1PIII Certification Sampling PSP (DOE 1999).

For the purpose of this certification report, these areas collectively will be referred to as the "A1PIII Part One disturbed areas." There is some uncertainty as to the origin of the fill material. Figure 1-2 shows the fill areas, topography, and surface features of the area. As previously mentioned in Section 1.2, all identified, accessible non-native debris in A1PIII Part One was removed. All accessible anomalies in the northeast fill area were removed. Since the 1970s, a local farmer has been using this area for grazing cattle.

1.4 SCOPE

The scope of this report includes the certification of A1PIII Part One. A1PIII Part One was initially divided into 25 certification units (CUs). The certification design for these 25 CUs was completed in accordance with Section 3.4 of the SEP. An additional CU (CU 26) was established following removal of the non-native subsurface debris located within CU 24. The certification design for CU 26 was also completed in accordance with Section 3.4 of the SEP.

1.5 OBJECTIVES

The objectives of this Certification Report are:

- Describe the analytical methods, data validation processes, data reduction and statistical processes used to support the certification process;
- Present certification sampling results for the 26 CUs;
- Present the statistical analysis showing that all 26 CUs have passed the certification criteria, including FRL attainment and hot spot criteria;
- Describe "supplemental" real-time scanning; and
- Describe access controls implemented to prevent recontamination.

1.6 REPORT FORMAT

This certification report is presented in six sections with supporting documentation and data in the appendices. These sections are as follows:

Section 1.0	Introduction: Purpose, background, area description, scope, and objectives of the report.
Section 2.0	Certification Approach: The approach to sampling and analysis used for certification
Section 3.0	Overview of Field Activities: Historical data evaluation, "supplemental" real-time scanning, debris removal, certification sampling, and changes to work scope
Section 4.0	Analytical Methodologies, Data Validation Processes, and Data Reduction
Section 5.0	Certification Evaluation and Conclusions
Section 6.0	Protection of Certified Areas
Appendix A	Data Tables and Maps from Supplemental Real-Time Scans
Appendix B	Variances/Field Change Noticess for A1PIII Certification Sampling PSP
Appendix C	Certification Samples, Results and Statistics Tables

1.7 FEMP CERTIFICATION MASTER MAP

In order to track the status of certification at the FEMP, DOE will include a site map showing the status of the soil remediation areas and phased areas with all Certification Reports. This map is included in this Certification Report as Figure 1-3, and has been revised to reflect the status of A1PIII Part One.

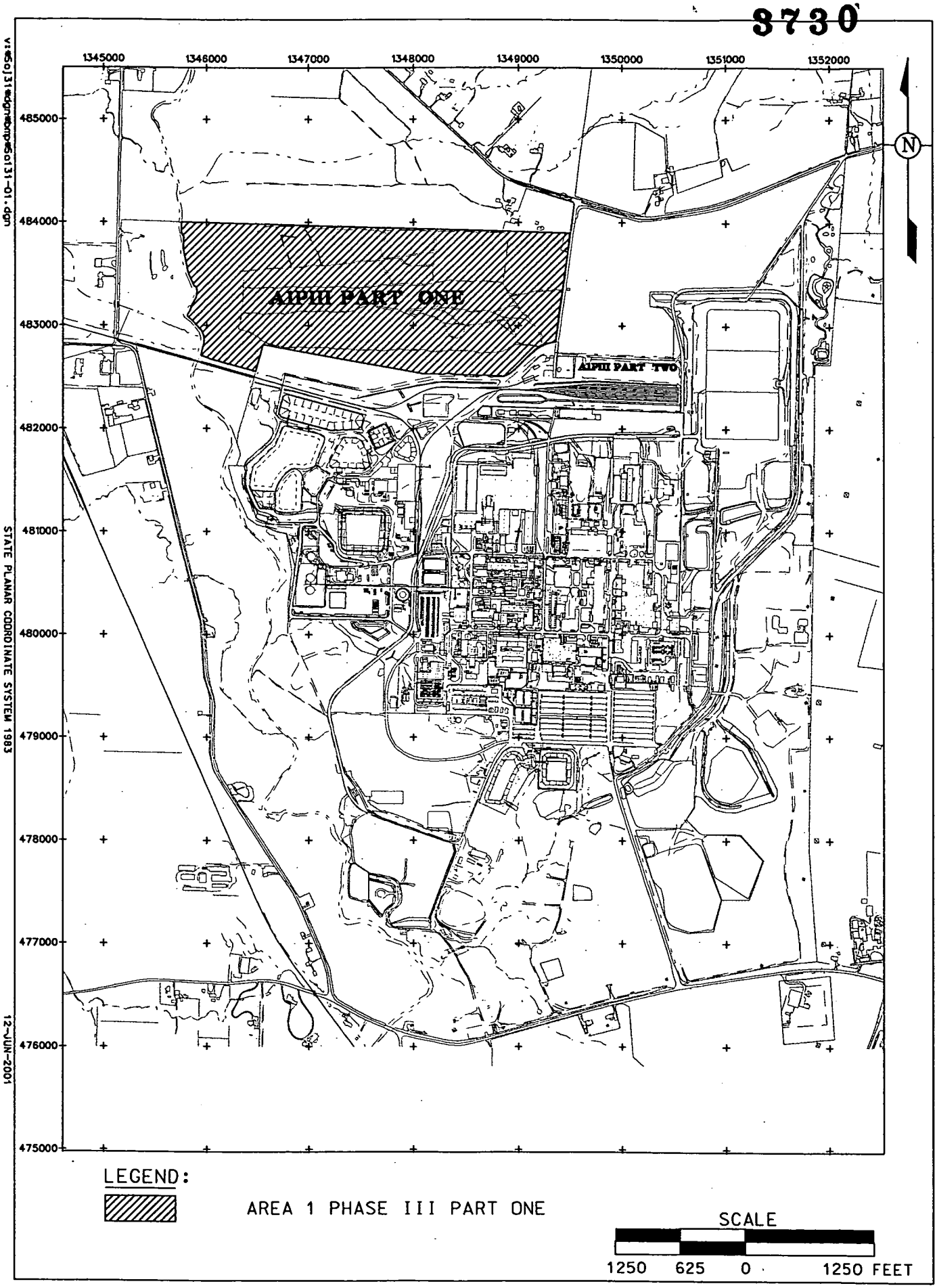
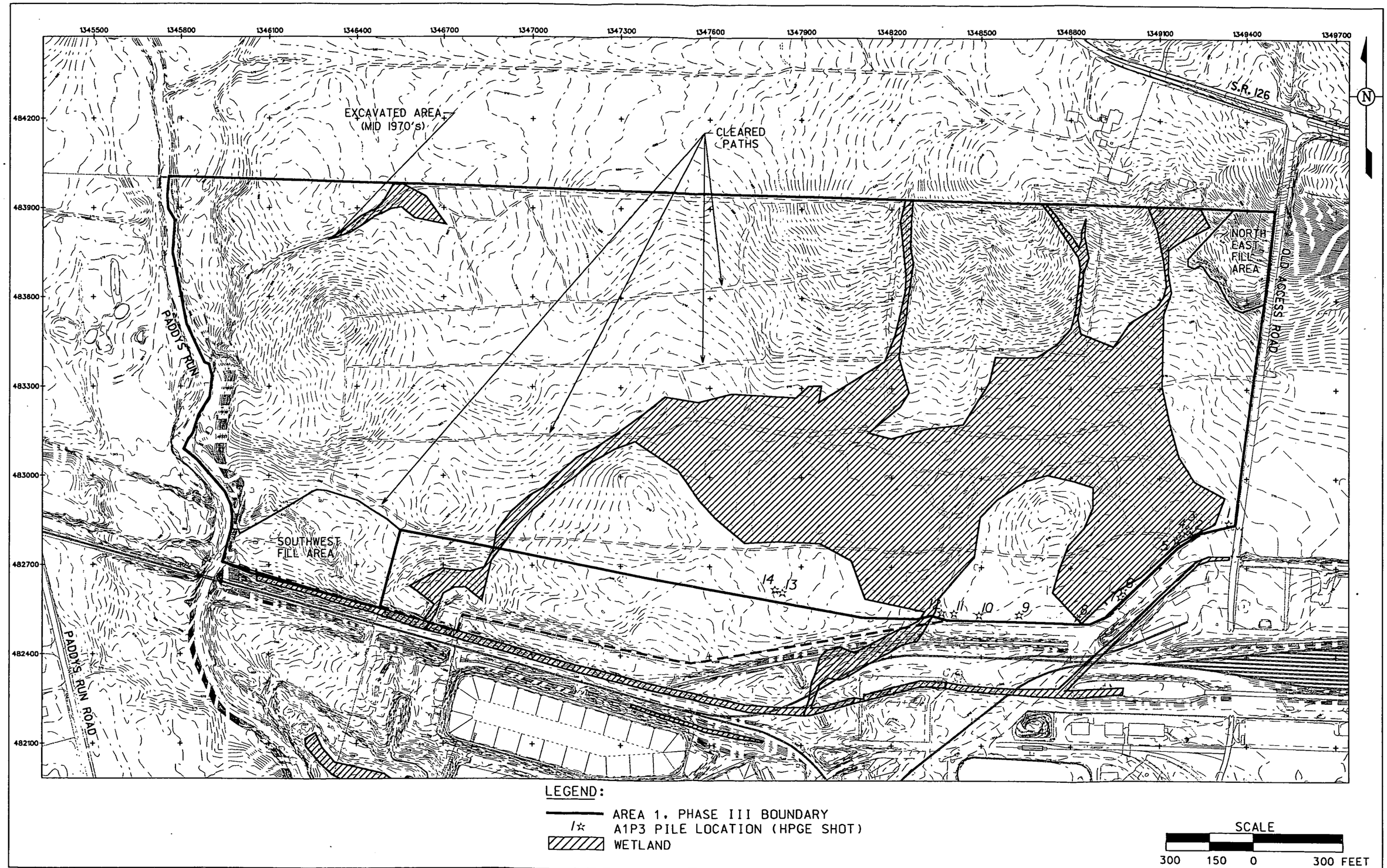
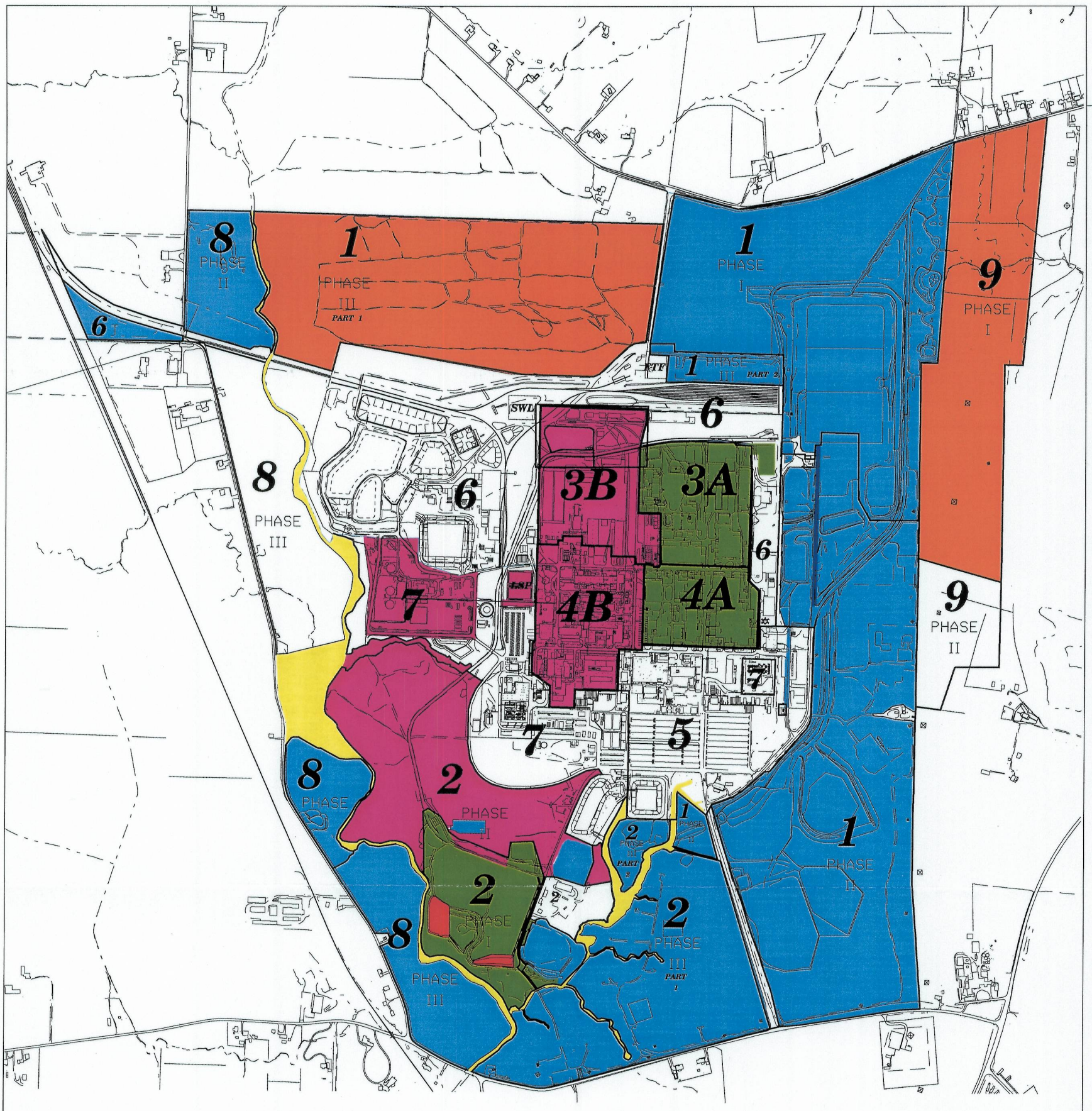


FIGURE 1-1. AREA 1, PHASE III LOCATION MAP



v:\5o131\dgn\bmp\5o131-02.dgn STATE PLANAR COORDINATE SYSTEM 1983 06-JUN-2001

FIGURE 1-2. AREA 1, PHASE III TOPOGRAPHY AND SURFACE FEATURES



AREAS	TOTAL ACRES	APPROVED CERT. ACRES	CERT. ACRES IN PROGRESS	REMEDIATION ACRES IN PROGRESS	PREDESIGN ACRES IN PROGRESS	REMAINING ACRES
AREA 1	389.2	281.5	106.9	0	0	* 0.8
AREA 2	175.2	82.6	0	26.0	57.9	**8.7
AREA 3A/4A	42.8	0	0	42.8	0	0
AREA 3B/4B	56.9	0	0	0	56.9	0
AREA 5	53.2	0	0	0	0	53.2
AREA 6	135.3	4.4	0	0	0	130.9
AREA 7	70.1	0	0	0	19.1	51.0
AREA 8	98.5	60.2	0	0	0	38.3
PR/SSOD/PPDD	*** 27.7	0	0	0	2.1	25.6
TOTAL ON SITE	1048.9	428.7	106.9	68.8	136.0	308.4
AREA 9	89.6	0	71.9	0	0	17.7
TOTAL OFF SITE	89.6	0	71.9	0	0	17.7

* AREA 1 REMAINING ACRES INCLUDES THE DISSOLVED OXYGEN FACILITY AREA. THE OSDF EQUIPMENT WASH FACILITY AND INTERIM LEACHATE LINE CORRIDOR IS INCLUDED IN AREA 6

** AREA 2 REMAINING ACRES INCLUDES 2.3 ACRES OF CHARACTERIZED FOR REUSE AREAS (BASIN 1 AND 2), THE CONSTRUCTION SUPPORT AREA, AND SUBSURFACE SOIL FOR THE UTILITY CORRIDORS/TRANSFER LINES WITHIN THE AFP CERTIFICATION AREA.

*** PADDYS RUN/STORMSEWER OUTFALL DITCH CORRIDOR IS IDENTIFIED IN .

AIPI ROADS EXCLUDED FROM CERTIFICATION.

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SCALE

1100 550 0 1100 FEET

FIGURE 1-3. FEMP CONTROLLED CERTIFICATION MAP

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STATE PLANAR COORDINATE SYSTEM 1983

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2.0 CERTIFICATION APPROACH

2.1 CERTIFICATION STRATEGY

This section summarizes the ASCOC selection process and the certification approach, including CU establishment, sampling design, and statistical analysis. The general purpose of certification sampling is to verify that the mean concentrations or activities of primary ASCOCs remaining in the soil of a CU following remedial activities are less than the FRLs at the 95 percent upper confidence level (UCL), and at the 90 percent UCL for secondary ASCOCs. The certification process also includes the hot spot criterion, which states that if any of the certification results exceeds two-times the FRL, then further action is required, as discussed in Section 3.4.5 of the SEP. If the mean residual ASCOC concentrations or activities are below the FRLs within the respective confidence bounds, and the hot spot criterion is met, then the remedial objectives have been achieved for the CU. It can then be released for restoration and development of a final land use as appropriate. The general certification strategy is described in Section 3.4 of the SEP, and the A1PIII Part One specific strategy is described in the CDL for A1PIII Part One.

2.1.1 Selection of Area-Specific Constituents of Concern

The OU5 ROD lists 80 soil constituents of concern (COCs) with established FRLs. These COCs were retained for further investigation based on a screening process that considered the presence of the constituent in site soil and the potential risk to a receptor exposed to soil containing that contaminant. Many of the COCs with established FRLs have a limited distribution in site soil, or the presence of the COC is based on high contract required detection limits (CRDLs). When FRLs were established for these COCs in the OU5 ROD, they were initially screened against site data presented on spatial maps to establish a picture of potential remediation areas.

By reviewing existing remedial investigation data presented on spatial distribution maps, it was possible to reduce the sitewide list of soil COCs from the 80 listed in the OU5 ROD to 30. This reduction was possible because the majority of the COCs with FRLs listed in the OU5 ROD have no on-site detections above their corresponding FRL, thus eliminating them from further consideration. The 30 remaining sitewide COCs account for over 99 percent of the combined risk to a site receptor model, and they comprise the list from which all of the remediation ASCOCs are drawn.

As stated in the SEP, the primary radiological COCs (i.e., total uranium, radium-226, radium-228, thorium-228, and thorium-232) will be retained sitewide as ASCOCs in each remediation area. The selection process for retaining secondary ASCOCs for a remediation area is driven by applying a set of decision criteria, as follows:

- It is listed as a soil COC in the OU5 ROD, and it is listed as an ASCOC in Table 2-7 of the SEP for the Remediation Area of Interest;
- Analytical results show that a contaminant is present above its FRL, and the above-FRL concentrations are not attributable to false positives or elevated CRDLs;
- It can be traced to site use, either through process knowledge or known release of the constituent to the environment; and
- Physical characteristics of the contaminant, such as degradation rate and volatility, indicate it is likely to persist in the soil between time of release and remediation.

2.1.2 ASCOC Selection Process for A1PIII Part One

Total uranium, radium-226, radium-228, thorium-228 and thorium-232 are sitewide primary COCs, and were retained as ASCOCs throughout A1PIII Part One. Beryllium was also retained as an ASCOC in specific CUs since an above-FRL result was found in the historical data set. As stated earlier (Section 1.3), it is unlikely that the majority of A1PIII Part One has been impacted from former FEMP production activities. Below-FRL results bound the above-FRL result to the north, east, and west, thus demonstrating that beryllium contamination is not widespread. However, there is still uncertainty about concentrations in soil to the south. Therefore, beryllium was retained as an ASCOC in the CU that contains the above-FRL result (CU 15), as well as in the CUs located to the south (CUs 05, 16, 23, 25 and 26). As an added conservative measure, it was also retained as an ASCOC in the CUs adjacent to the above-FRL beryllium concentration (CUs 04, 14 and 19). Aroclor-1254, aroclor-1260, dieldrin, 3,3-dichlorobenzidine, and N-nitroso-di-n-propylamine are COCs that had results greater than the FRL because the CRDL was higher than the FRL. There is no evidence to include that these COCs would be found in A1PIII Part One given its location and historical land use. Per ASCOC selection criteria, they were not retained as ASCOCs.

In conclusion, the sitewide primary COCs were retained as the ASCOCs for all A1PIII Part One CUs. In addition, beryllium was retained as an ASCOC in nine selected CUs based on an above-FRL result from

the historical data set. The selected A1PIII Part One ASCOCs are listed on Table 2-1 along with their applicable FRLs.

2.2 CERTIFICATION APPROACH

The certification design for A1PIII Part One follows the general approach outlined in Section 3.4 of the SEP. Because A1PIII Part One is considered a "non-impacted area," Excavation Approach E, Section 4.5 of the SEP was used as a basis for the certification design. As a result, 25 Group 2 CUs, which can be as large as 250,000 square feet, have been located within A1PIII Part One.

However, due to the debris discovered during the development of the CDL, additional activities were required prior to certification. Excavation Approach A, Section 4.1 of the SEP was followed for the removal of the debris within CU 24. An additional CU (CU 26) was established in the post-debris removal footprint. CU 26 was also a Group 2 CU.

2.2.1 Certification Design

Taking into account the limited historical data, land uses and the inability to perform a comprehensive precertification scan, the following eight objectives were used to establish the CU design for A1PIII Part One:

1. Isolate the cleared paths and a 25-foot area around them, to the extent practical, into CUs since these areas are potential locations for isolated contamination.

2. Isolate the excavated strip near the northwest corner of A1PIII Part One into one CU.

3. Isolate the fill areas in the northeast and southwest corners of A1PIII Part One into CUs.

4. Isolate the disturbed area along the southern boundary (adjacent to the rail yard) into a single CU, which will also contain the small soil/debris piles found in this area.

5. Contain the soil closest to the fire training facility (excluding the CU from Objective 4, above) into a CU, since this represents the most likely part of A1PIII Part One to have been affected by airborne contamination.

6. Divide the remaining portions of A1PIII Part One into logical CUs no larger than 250,000 square feet.

7. Remove all identified non-native surface and subsurface debris.

8. Establish an additional CU, no larger than 250,000 square feet, in the post subsurface debris removal footprint within the southwest fill area.

CUs 01 through 05 have been established to meet Objective 1, while CU 07 was established to meet Objective 2. To meet Objective 3, CU 21 isolates the fill in the northeast corner of A1PIII Part One, and CU 24 isolates the fill in the southwest corner. To meet Objective 4, CU 25 was established. The boundary of CU 25 follows the old cattle fence where it is still present, thereby containing portions of A1PIII Part One that were not enclosed in the woodlot by the old cattle fence during the production years. Otherwise the boundary extends 40 feet north of the southern A1PIII Part One boundary. Objective 5 is met by CU 23, which (along with CU 16) will also serve as a buffer to CU 25. The remaining CUs (6, 8, 9, 10, 11, 12, 13, 14, 15, 17, 18, 19, 20, and 22) were established per Objective 6 to include the remaining portions of A1PIII Part One. All initial 25 A1PIII Part One CUs are shown in Figure 2-1 along with their sizes.

Following removal of the non-native, subsurface debris (Objective 7) within CU 24 (southwest fill areas), CU 26 was established (Objective 8) and is illustrated in Figure 2-2.

2.2.2 Supplemental Real-Time Scanning

As added verification that no hot spots would be missed during certification, real-time data were collected to supplement soil certification in the A1PIII Part One disturbed areas (Section 1.3). This "supplemental scanning" was a logical alternative to traditional precertification since the disturbed areas in A1PIII Part One are the most likely locations for contamination. It is important to note that this scan was conducted in conjunction with certification sampling.

The supplemental real-time scan followed the precertification parameters except for complete coverage of the entire area. Data Quality Objectives of this scan were the same as precertification scanning with an action level of three times the FRL hot spot level for the mobile sodium iodide (NaI) detectors, and one times the FRL trigger level for the HPGe. If a result exceeded these values, then a hot spot confirmation would be required per the User Guidelines, Measurement Strategies, and Operational Factors for Deployment of In Situ Gamma Spectrometry at the Fernald Site (User's Manual, DOE 1998c). If a hot spot were confirmed during the supplemental scan, then it would be excavated before the area is considered certified. The results of this supplemental real-time scan are presented in

the form of data tables and maps in this A1PIII Part One Certification Report (Appendix A). Details of this scan are presented in the PSP for A1PIII Certification. The results are included in Section 3.1 of this Certification Report.

In addition, HPGe measurements were collected from the subsurface debris removal footprint within the southwest fill area following all debris removal activities. All precertification parameters described above applied. The results of the post debris removal scan are also presented in the form of tables and maps in Appendix A and the results are discussed in Section 3.1

2.2.3 Sample Selection Process

For unimpacted areas such as A1PIII Part One, two certification approaches have been applied, one for open field and one for fill areas (such as the stockpiles in Area 2, Phase III). Most A1PIII Part One CUs are open field, however CUs 21, 24, and 25 contain fill material. The extent of the fill is difficult to determine through visual inspection because the fill is spread out, rather than stockpiled, and is covered with vegetation.

These factors, combined with the fact that Geoprobe® access to most of these areas is impossible without a large scale removal of trees, meant the approach used to certify stockpiles in A2PIII was not applied in A1PIII Part One. Instead, a supplemental scan was completed to certify the areas containing fill. The HPGe results in CUs 21, 24 and 25 were evaluated as follows:

- If HPGe results indicate the area was not impacted above the FRL, then the CU will be certified as an open field CU (i.e., surface samples collected and analyzed at 12 of 16 locations, etc).

- If the HPGe scan reveals isolated above-FRL results (but no hot spots), then the fill CU will be certified as an open field CU; however, all 16 locations will be collected and analyzed as an added measure to verify that the CU is not impacted above the FRL.

- If the HPGe readings show hot spots of a pattern or widespread above-FRL results, then the CU will be certified similar to a stockpile CU. A boring will be conducted at each of the 16 predetermined locations to a depth of 6 inches below native soil. The entire core will then be frisked with a beta/gamma frisker, and the 6-inch interval with the highest activity will be submitted for analysis. If no fill is present, then a 6-inch sample will be collected as usual.

The results of the HPGe supplemental scan of the CUs containing fill material (CUs 21, 24, 25) were all below the FRLs. Therefore, CUs 21, 24 and 25 were certified as open field and standard certification sampling was conducted in these areas. In addition, subsurface debris removal was conducted within CU 24 and certification samples were collected over the debris removal footprint, using standard certification methods.

The selection of certification sampling locations was conducted according to Section 3.4.2 of the SEP. Each CU was first divided into 16 approximately equal sub-CUs. Sample locations were then generated by randomly selecting an easting and northing coordinate within the boundaries of each sub-CU, then testing those locations against the minimum distance criterion for the CU. If the minimum distance was not achieved, then an alternative random location was selected for that sub-CU, and all the locations were re-tested. This process continued, until all 16 random locations met the minimum distance criterion. All 26 CUs in the scope of this report, and the selected certification sampling locations for all the CUs, are shown in Figures 2-2 and 2-3.

Prior to certification sampling, all 16 sample locations in each CU were surveyed to verify that no surface obstacle would prevent sample collection. During sample collection, planned sampling locations may be moved up to 3 feet from the original location to avoid subsurface obstacles such as tree roots and rocks, which are both quite prevalent in A1PIII Part One. Any sampling point that is moved a distance greater than 3 feet must be documented by a V/FCN, which was not required for A1PIII Part One (Section 3.2). Also, the new location must remain within the same CU and sub-CU boundary and meet the minimum distance requirement.

2.2.4 Certification Sampling and Analysis

Each sample was collected from the 0 to 6-inch (surface) soil interval at the designated and surveyed location. Four of the 16 certification locations per CU (one per each quadrant of the CU) were randomly selected for archiving (identified in the field, but not collected), and the other 12 locations were collected and submitted for analysis. All samples were analyzed at the FEMP on-site laboratory for the ASCOCs (Table 2-1).

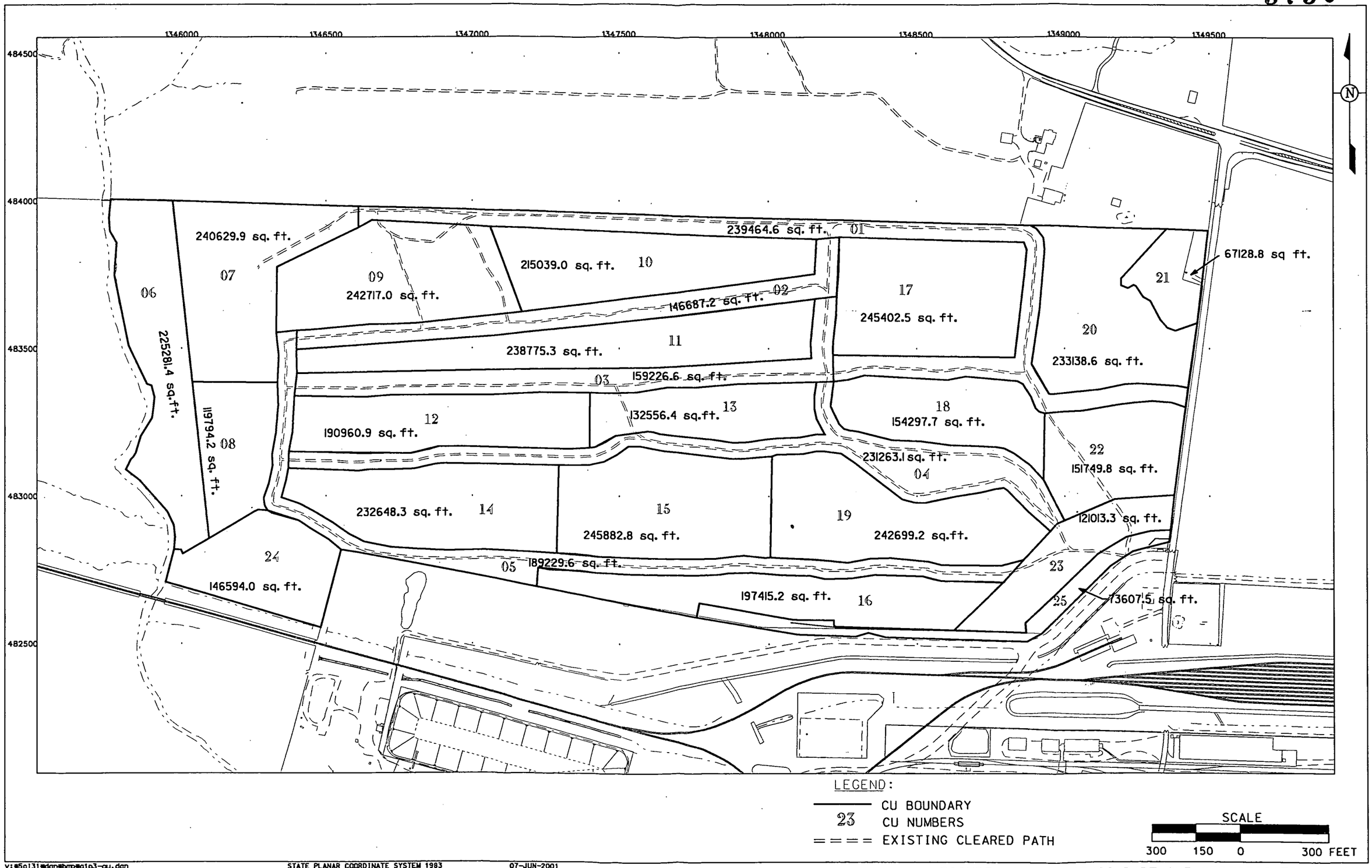
2.2.5 Statistical Analysis

The statistical analysis of certification samples is discussed in Appendix G of the SEP. Per Section G.2.3 of the SEP, statistical analysis of certification results is not necessary to determine if an ASCOC passed certification in a CU if all of the results for that ASCOC in that CU were below the FRL. If any sample result(s) does exceed the associated FRL, then statistical analyses will be performed and two criteria must be met for the CU to pass certification. If the data distribution is normal or lognormal, then the first criterion is to compare the 95 percent UCL on the mean of each primary ASCOC and the 90 percent UCL on the mean of each secondary ASCOC, to their respective FRLs, resulting in the pass/fail decision on each individual CU. If the data distribution is not normal or lognormal, then the appropriate nonparametric approach discussed in Appendix G of the SEP is used to evaluate the 95 percent UCL on the mean. The second criterion is related to the hot spot criterion, which states that if a certification sample for a primary radiological ASCOC exceeds two times the FRL, then further action is necessary per Section 3.4.5 and Figure 3-11 of the SEP. When the given UCL on the mean for each COC is less than its FRL, and the hot spot criterion is met, the CU will be considered certified.

TABLE 2-1
ASCOC LIST FOR ALL A1PIII PART ONE CERTIFICATION UNITS

ASCOC	FRL	Reason Retained
Total Uranium	82 mg/kg	Retained as a primary ASCOC sitewide
Radium-226	1.7 pCi/g	Retained as a primary ASCOC sitewide
Radium-228	1.8 pCi/g	Retained as a primary ASCOC sitewide
Thorium-228	1.7 pCi/g	Retained as a primary ASCOC sitewide
Thorium-232	1.5 pCi/g	Retained as a primary ASCOC sitewide
Beryllium*	1.5 mg/kg	FRL exceedances found in historical data set

* Beryllium will only be retained as an ASCOC in CUs 04, 05, 14, 15, 16, 19, 23, 25 and 26.
mg/kg – milligrams per kilogram; also equal to µg/g (micrograms per gram)
pCi/g – picoCuries per gram



v:\5oj31\dgn\bmp\a1p3-cu.dgn STATE PLANAR COORDINATE SYSTEM 1983 07-JUN-2001

FIGURE 2-1. A1PIII PART ONE CERTIFICATION UNITS

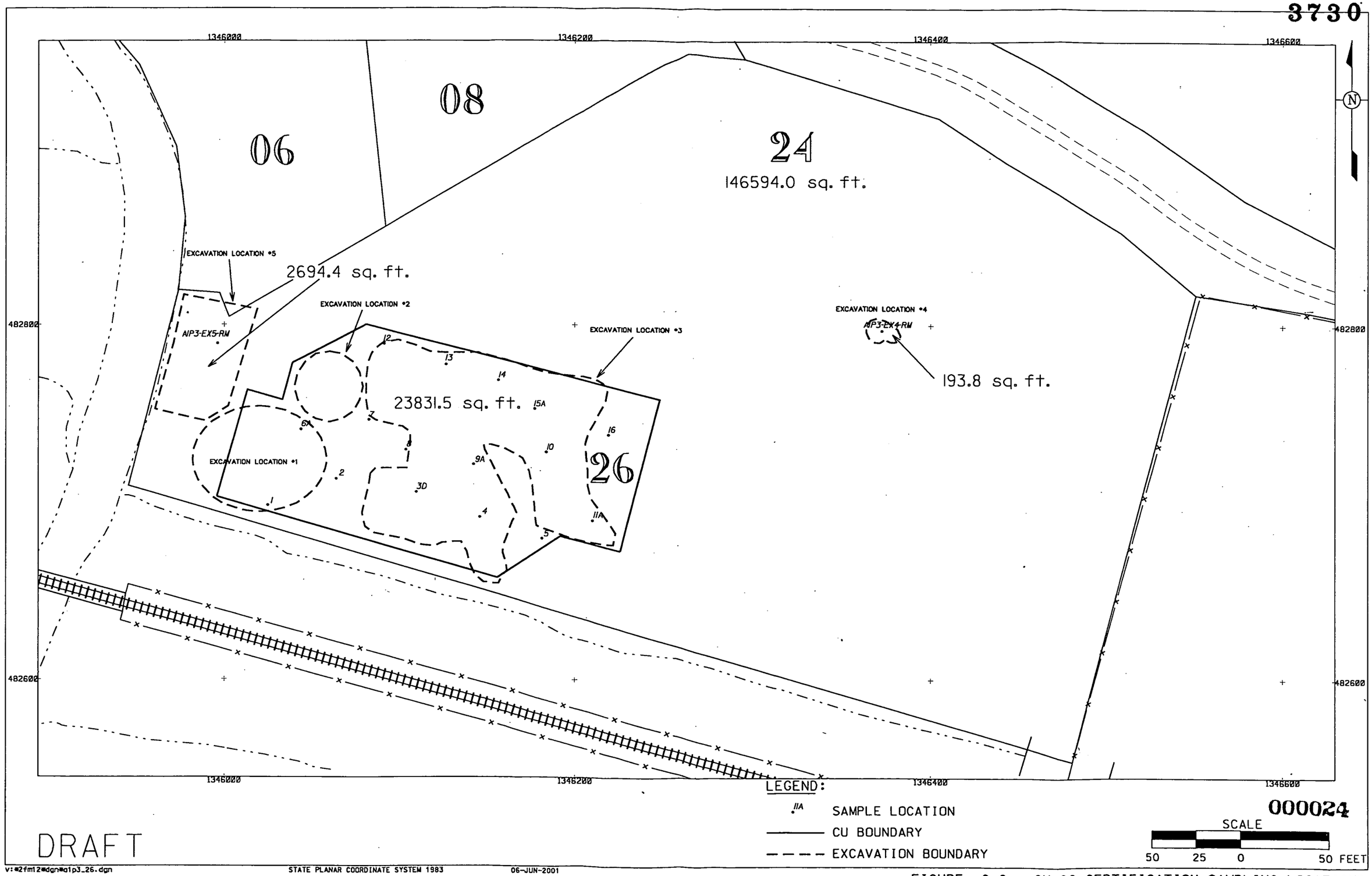


FIGURE 2-2. CU-26 CERTIFICATION SAMPLING LOCATIONS

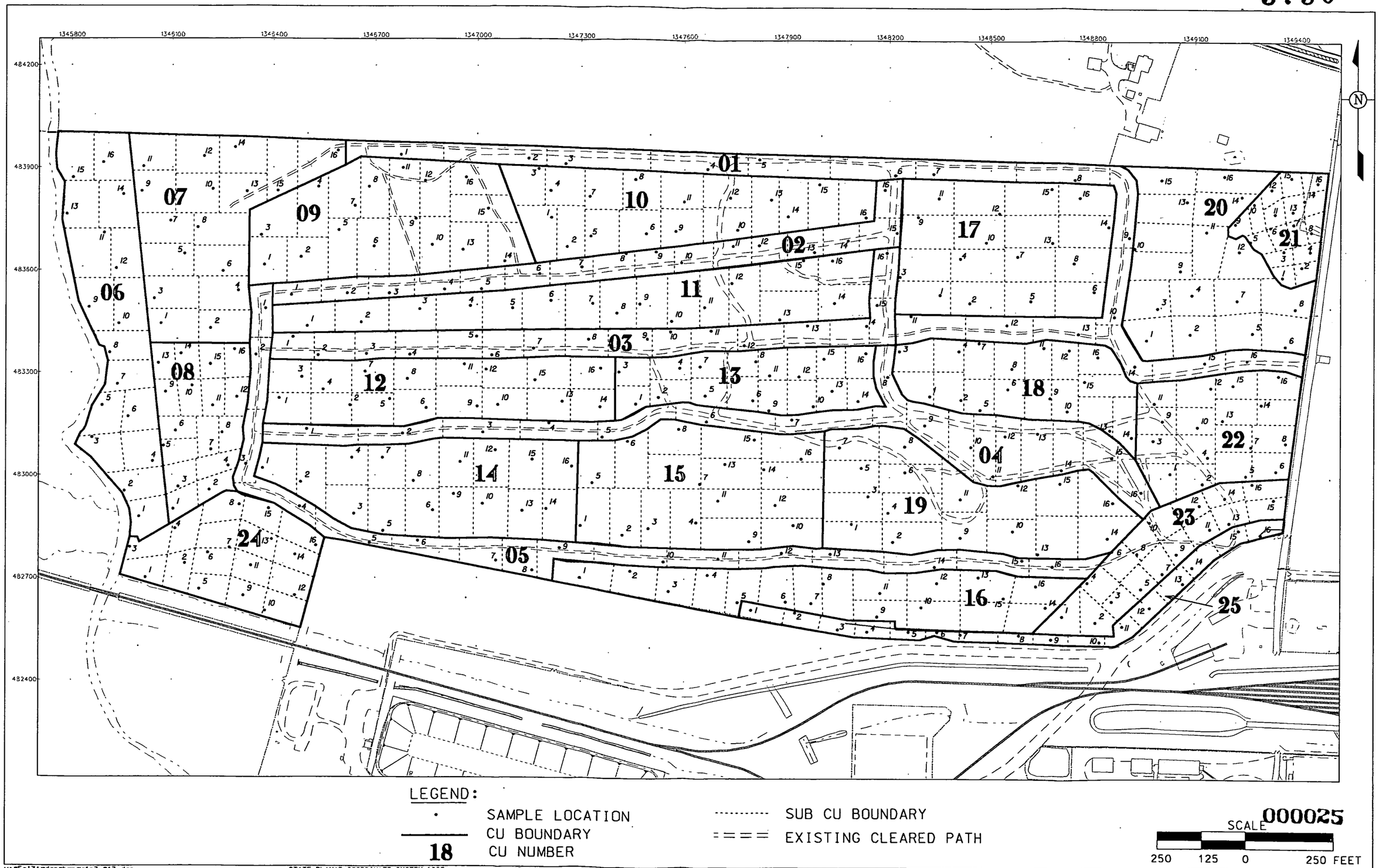


FIGURE 2-3. A1PIII SUB-CUs AND CERTIFICATION SAMPLING LOCATIONS

3.0 OVERVIEW OF FIELD ACTIVITIES

3.1 DATA EVALUATION, SUPPLEMENTAL REAL-TIME SCAN, AND DEBRIS REMOVAL

Based on historical data from A1PIII Part One, no soil remediation activities were required prior to certification sampling (see Section 1.2). The historical data from this part of the FEMP site are discussed in detail in the A1PIII Part One CDL.

Beginning in August 1999, supplemental real-time scans of A1PIII Part One were conducted using the Radiation Tracking System (RTRAK), the Radiation Scanning System (RSS) and the high-purity germanium (HPGe) detectors. The mobile NaI detectors (RTRAK and RSS) were used to scan existing "roadways." The HPGe was used to scan the debris in the NE (CU 21) and SW (CU 24) corners and along the southern border (CU 25). From February 8 through February 20, 2001, the HPGe was also used to scan the footprint of the subsurface debris removal area within CU 26.

Data collected during these scans were displayed for total gamma activity (as counts per second), total uranium, radium-226, and thorium-232. Results demonstrate total uranium, thorium-232, and radium-226 to be below their respective FRLs. With regard to the total uranium, thorium-232, and radium-226, no mobile NaI results exceeded three times the FRL, and no HPGe readings of the debris piles and fill areas exceeded one time the FRL; therefore, no hot spots were identified. Tables and maps demonstrating the results of these supplemental real-time scans are included as Appendix A.

In May 2000, certification sampling began in the majority of the A1PIII Part One area. All the required samples associated with CUs 01 through 25 were collected.

In response to an OEPA comment issued during development of the CDL, Electromagnetic Conductivity (EM) profiling was conducted in the southwest and northeast fill areas in September 2000. Using the EM information regarding potential surface and subsurface anomalies, an Implementation Plan was developed for the debris removal and bank stabilization along Paddys Run. The draft Implementation Plan was completed in December 2000 and the final Implementation Plan was issued in February 2001. In preparation for truck routes, cultural resource surveying was conducted during the winter months.

Under the direction of Fluor Fernald construction personnel, field implementation of the debris removal by WISE Construction was initiated in February 2001. The subsurface debris removal and investigation in the southwest area along Paddys Run was completed by the end of February. In the northeast fill area, many of the anomalies identified during the electromagnetic survey were investigated. The following types of debris were removed: wood, fragments of clay pipe and glass, rebar and concrete, bricks, and scrap metal (t-post). Some of the anomalies were not evident at the surface and were not further investigated due to the fact that potential excavation would require extensive clearing of vegetation. This agreement was determined in the field between Fluor Fernald personnel and OEPA representatives.

All the discovered debris was temporarily staged prior to hauling to the OMTA (OSD-035). Approximately 70 cubic yards of debris (Category 2) was excavated and dispositioned to OMTA with final disposition into the OSDF. The debris was tracked under material tracking log MTL-A13-002. All the debris removed, except for one wire choker cable (approximately 8 feet long), had no detectable activity. The wire choker was staged in a separate controlled area prior to disposition in the OSDF.

Upon removal of the subsurface debris, supplemental HPGe measurements were collected prior to regrading of the subsurface debris footprint (noted as Excavation locations 1, 2, and 3 in Figure 2-3). In April 2001, certification samples associated with CU 26 and excavation locations 4 and 5 were collected, and the soil displaced during debris removal was regraded into the existing topography. A summary of complete project costs can be found in Table 3-1. This chronological summary of the field work meets the requirements for a project closeout report.

3.2 CHANGES TO SCOPE OF WORK

The scope of work for A1PIII Part One certification sampling was documented in the final CDL. All final certification sampling locations and CU boundaries remained as identified in the CDL, and all analyses were carried out as planned. There were additions and changes to the scope as documented in V/FCNs 20720-PSP-0001-2 through -4. These V/FCNs, with the exception of V/FCN 20720-PSP-0001-1, are included in this Certification Report as Appendix B. V/FCN 20720-PSP-0001-1 was written against Revision 0 of the PSP and was incorporated into Revision 1 on February 17, 2000. The remaining V/FCNs were written against Revision 1 of the PSP.

- **V/FCN 20720-PSP-0001-1** - The area along the southern boundary (CU 25) of AIPIII was added to the scope of the mobile NaI scan. The two fill areas in the NE (CU 21) and SW (CU 24) corners and the small soil/concrete debris piles along the southern boundary (CU 25) of AIPIII were added to the scope of the HPGe readings.

- **V/FCN 20720-PSP-0001-2** - Rinsates and container blanks will be listed on a separate chain of custody form. Also, rinsates should include the CU number in the ID

- **V/FCN 20720-PSP-0001-4** - Directed real-time monitoring and PID measurements for excavation locations in the southwest fill area. Also defined the boundaries of CU 26 and directed sampling and analysis of samples collected in the CU and other (smaller) excavation locations.

TABLE 3-1
PROJECT COSTS FOR A1PIII

ACTIVITY	COST
Engineering/debris removal	$134,200
Supplemental scanning/certification	$188,500

Note: These costs are a summary of A1PIII Part One and Part Two activities.

4.0 ANALYTICAL METHODOLOGIES, DATA VALIDATION PROCESSES AND DATA REDUCTION

4.1 ANALYTICAL METHODOLOGIES

The samples for A1PIII Part One were analyzed at the FEMP on-site laboratory, which meets requirements of the Sitewide Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) Quality Assurance Project Plan (SCQ, Procedure FD-1000). The SCQ is the source for analytical methodologies (Appendix G), data validation and verification, and analytical and field quality assurance/quality control (QA/QC) requirements.

For all the certification data, laboratory analysis met all requirements for Analytical Support Level (ASL) D. Because a different level of detection (10 percent of the FRL) was used for all target analytes, these analyses are classified as ASL E, though all ASL D analytical requirements were achieved per Appendix G of the SCQ. Also, the on-site laboratory prepared an ASL D data package, which included sample results with associated QA/QC data and all applicable raw data. Certification analytical results are provided in Appendix B, and a summary of the analytical methods follows.

4.1.1 Radiochemical Methods

Gamma spectrometry was the analytical method used. Performance-based specification criteria included highest allowable minimum detectable concentration (HAMDC), percent overall tracer/chemical recovery, percent matrix spike recovery, method blank concentration, percent recovery of laboratory control sample, and percent recovery for duplicate samples were specified for each analyte. Laboratories were required to meet these specifications using the methodologies described below.

Total Uranium

Samples were analyzed for uranium-238 using gamma spectrometry, and the results were used to calculate the total uranium value. The calculation used was as follows:

$$\text{Total uranium (mg/kg)} = (2.998544) \times \text{uranium-238 gamma spectrometry result (pCi/g)}$$

The validation qualifier assigned to the total uranium value was the same as the uranium-238 qualifier.

Radium-226

Samples were analyzed by gamma spectrometry, and radium-226 was quantified by measuring gamma rays emitted by members of its decay chain. This method does not require chemical separation, but the samples must be allowed a 20-day progeny ingrowth period before counting. The on-site laboratory used the same gamma ray emission lines and error weighted average methodology to calculate all A1PIII Part One certification results.

Radium-228

Following gamma spectrometry analysis, radium-228 was also quantified by measuring gamma rays emitted by members of its decay chain. The on-site laboratory used the same gamma ray emission lines and error weighted average methodology to calculate all A1PIII Part One certification results.

Isotopic Thorium

Isotopic thorium was also quantified by gamma spectrometry. The on-site laboratory used the same gamma ray emission lines and error weighted average methodology to calculate all A1PIII Part One certification results.

4.1.2 Chemical Methods

Samples were analyzed for beryllium using inductively coupled plasma – atomic emission spectroscopy (ICP-AES) which is a SEP-approved method of analysis.

4.2 DATA VERIFICATION AND VALIDATION

This section discusses the data verification and validation (V&V) process used to examine the quality of field and laboratory results. Data were qualified to indicate the level of data usability, or level of confidence in the reported analytical results. The U.S. Environmental Protection Agency's (EPA's) National Functional Guidelines for Data Review (EPA 1994), as adapted and approved by EPA Region V, was used for this process.

Specific parameters associated with the data were evaluated during V&V to determine whether or not the data quality objectives were met. Five principal quality assurance parameters, i.e., precision, accuracy, completeness, comparability, and representativeness, were addressed during V&V. Field sampling and

handling, laboratory analysis and reporting, and nonconformances and discrepancies in the data were examined to ensure compliance with appropriate and applicable procedures.

The V&V process evaluated the following parameters:

- Specific Field Forms for sample collection and handling
- Chain of Custody forms
- Completeness of Laboratory Data Deliverable.

The data validation process examined the data to determine the level of confidence of the results. General areas examined include the following:

- Holding Times
- Instrument calibrations
- Calculation of results
- Laboratory/field duplicate precision
- Field/Laboratory Blank contamination
- Dry weight correction for solid samples
- Correct detection limits reported
- Laboratory control sample (LCS) recoveries and compliance with established limits.

Parameters unique to the evaluation of radiochemical analyses include:

- Calibration data for specific energies
- Background checks
- Relative Error ratios
- Tracer yields
- Detector efficiencies
- Background count correction.

All laboratory results were validated to ASL B, and a minimum 10 percent of the results were validated to ASL D. Since each CU represents one analytical release, an ASL D package was provided for each sample from three of the 25 CUs (CU 20, 22 and 04), including one CU where beryllium was analyzed (CU 04).

Following V&V, qualifier codes were applied to specific data points, reflecting the level of confidence assigned to the particular datum. These codes can include the following:

-	No qualification; the positive result or detection limit is confident as reported
J	Positive result is estimated or imprecise; data point is usable for decision-making purposes. Positive results less than the contract required reporting limit are also qualified in this manner
R	Positive result or detection limit is considered unreliable - data point should NOT be used for decision-making purposes
U	Undetected result at the stated limit of detection
UJ	Undetected result; detection limit is considered estimated or imprecise; the data point is usable for decision-making purposes
N	Positive result is tentatively identified - that is, there is some question regarding the actual identification and quantification of the result. Compound reported is best professional judgement of the interpretation of the supporting data, such as mass spectra. Caution must be exercised with the use of this data
NV	Not Validated. The results for this sample were not validated
Z	This result, or detection limit in this analysis, is not the best one to use; another analysis (e.g., the dilution or re-analysis) contains a more confident and usable result.

The V&V of this data set did not identify any problems. The majority of the results received no qualification (a - qualifier). Some of the total uranium results received a J qualifier due to elevated uncertainty or a U qualifier when the result was reported at the minimum detectable concentration. Some of the beryllium results received a U qualifier when the result was reported at the minimum detectable concentration. Some of the thorium and radium results received a J qualifier due to elevated uncertainty. No results for any of the analytes were qualified as rejected.

4.3 DATA REDUCTION

Each sample used to support the A1PIII Part One certification decision was entered into the FEMP Sitewide Environmental Database (SED) with the following information.

Field Information

- Sample Identification Number - A unique number assigned to each discrete sample point
- Coordinate Information - Northing and Easting locations
- Certification Unit - Each sample is assigned to a CU based on location

Laboratory Information

For each sample result the following information is entered:

- Laboratory Result - The reported analytical value from the laboratory
- Laboratory Qualifier - The qualifier reported from the lab. For radiological parameters non-detect values are assigned a U qualifier
- Total Propagated Uncertainty (TPU) - This value represents the uncertainty associated with the reported result. TPU includes the counting error, as well as uncertainty from other laboratory measurements and data reduction. (Applicable to radiological parameters only)
- Units - The units in which the Laboratory Result is reported

Validation Information

- Validation Result - The result based on the validation process. During the validation process, sample results may be adjusted. If the laboratory result is less than the associated minimum detectable concentration (MDC), the validation result becomes the MDC value
- Validation TPU - The TPU based on the validation process
- Validation Qualifier - The qualifier assigned as a result of the data validation process
- Validation Units - The units in which the Validation Result is reported

Using the information as summarized above, the following actions were taken for data reduction of each CU data set.

1. All the data for each CU were queried from SED. All the data were used even if the CU had more than the minimum required data points (though this is not the case for any of the CUs under this scope).
2. The data from the validation fields were used for statistical calculations.
3. Data with a qualifier of R or Z was not used in the statistical calculations.
4. The highest of the two duplicate results was used in the statistical calculations.
5. One half of the non-detect (U or UJ) values was used in the statistical calculations.

5.0 CERTIFICATION EVALUATION AND CONCLUSIONS

5.1 CERTIFICATION RESULTS AND EVALUATION

All CUs for A1PIII Part One met the certification criteria. The determination of successful certification or certification failure was based on a review of certification sample data from each CU against criteria discussed in Section 2.2.4. All but one result for one of the 26 CUs were below the FRLs. Sample A1P3-C-25-05RM (CU 25, location 5) had a result of 82.69 µg/g for total uranium. The FRL for total uranium is 82 µg/g (or mg/kg as in Table 2-1). However, the statistical analysis of the total uranium results for samples collected in CU 26 determined that the CU met all certification criteria discussed in Section 2.2.4. Therefore, all 26 CUs passed on the first round of certification. No additional corrective actions were necessary, and the archive samples were not necessary for analysis. Final certification data are presented in Appendix C. A statistical analysis was only required for total uranium results from CU 25 due to the above-FRL result at sample point 05. All other results were below the FRLs and no statistical analysis of the data was required (as is indicated on Tables C-2 through C-27, Note 1).

5.2 A1PIII PART ONE CERTIFICATION CONCLUSIONS

Based on the analytical results, and completion of surface and subsurface non-native debris removal, DOE has determined that the remedial objectives in the OU5 ROD have been achieved in A1PIII Part One. Therefore, upon EPA and OEPA concurrence, this portion of the site will be released for final land use.

5.3 LESSONS LEARNED

A new approach to the real-time scan was utilized, along with subsurface investigations using ground penetrating radar and electromagnetic surveying. Since the area is so heavily wooded, only the accessible and high traffic areas were scanned with the RTRAK and RSS. The use of EM to identify debris focused the excavation and reduced vegetation and tree disturbance. Another lesson learned is the importance of thorough walk-downs of isolated areas prior to implementation of field work. A more complete walk-down of the isolated areas in A1PIII Part One could have resulted in the investigation of debris and its removal prior to precertification and certification activities.

6.0 PROTECTION OF CERTIFIED AREAS

DOE has restricted access to certified areas in order to maintain their integrity prior to transferal for final land use. FEMP Procedure EP-0008, Access to a Certified Area, has been developed to implement a process to protect certified areas.

The procedure is summarized as follows:

- Prior to the initiation of certification sampling activities for a remediation area, temporary fencing will be installed to delineate the perimeter of the "certified" area if existing fencing is not already present.
- Signs indicating approval for entry into the "certified" area is required will be posted along the perimeter at all access points.
- Personnel desiring admittance to a "certified area to conduct work will submit a written request to gain access, using Form FS-F-4878, to the Stewardship Management Section.
- The purpose of the entry, including any proposed chemical applications such as pesticides or herbicides, must be described on the form.
- Any equipment to be used within the "certified" area must be free of contamination. If the equipment is used off-road in an uncertified area, it must be washed and/or decontaminated per applicable requirements prior to entering a certified area.
- Entry team members must be briefed on conditions for entry listed on the approved Form FS-F-4878.

Following approval of this certification report by the EPA and OEPA, DOE will proceed with planning the natural resource restoration and the development of final land use for the area.

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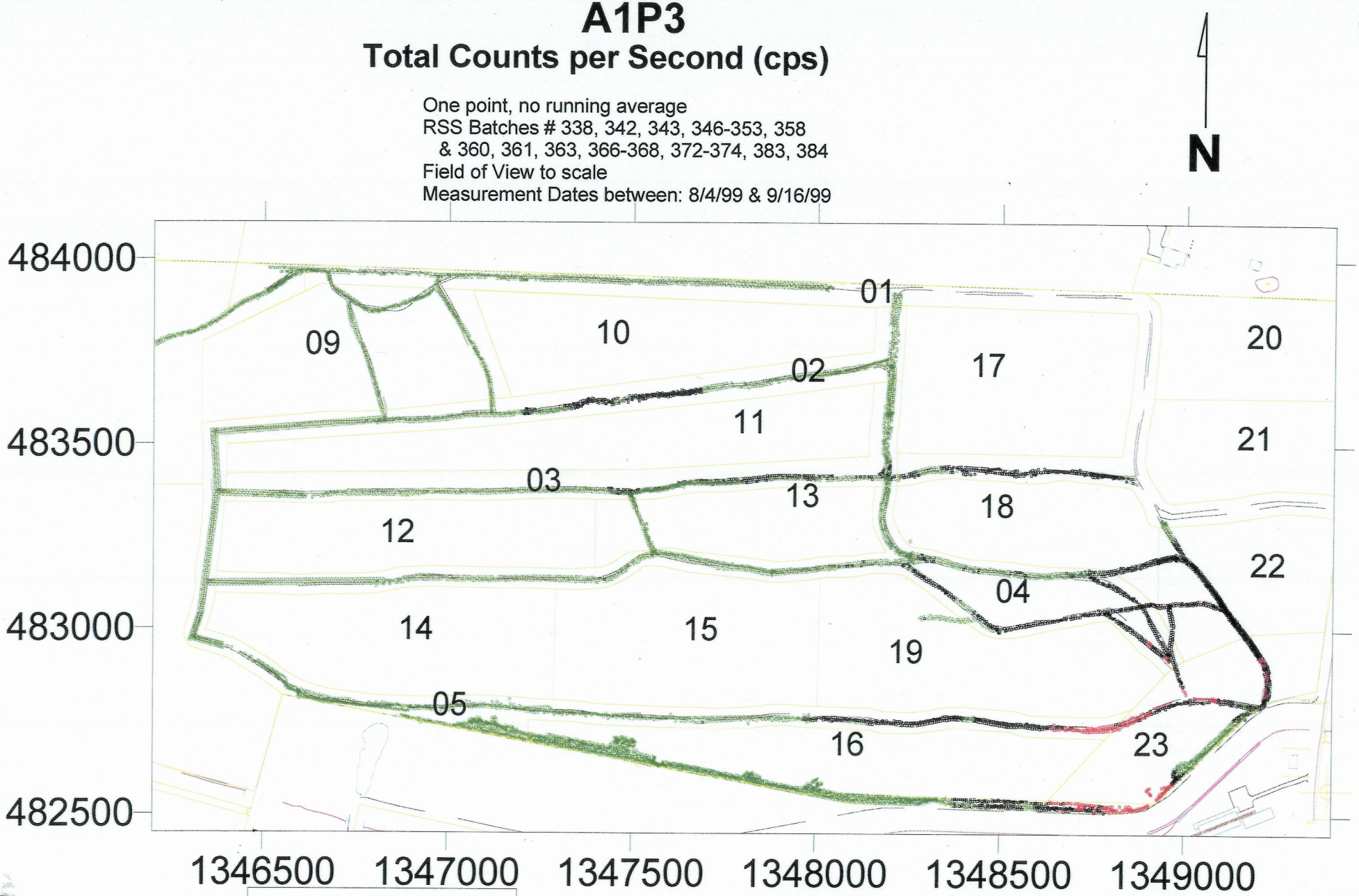
APPENDIX A

DATA TABLES AND MAPS FROM SUPPLEMENTAL REAL-TIME SCANS

A1P3

Total Counts per Second (cps)

One point, no running average
RSS Batches # 338, 342, 343, 346-353, 358
& 360, 361, 363, 366-368, 372-374, 383, 384
Field of View to scale
Measurement Dates between: 8/4/99 & 9/16/99



Total Cps
- 0.00 to 3500.00
- 3500.00 to 4000.00
- 4000.00 to 4500.00

RTIMP DWG Title: A1P3-SS-TC-1PT-MC
Project: 20720-PSP-0001
Name: Area 1, Phase III Certification Sampling
Prepared by: David Allen
File: A1P3_SS_TC_1PT_MC.srf
Date Prepared: 9/20/99

000039

3730

MAXIMUM RSS READINGS PER CERTIFICATION UNIT

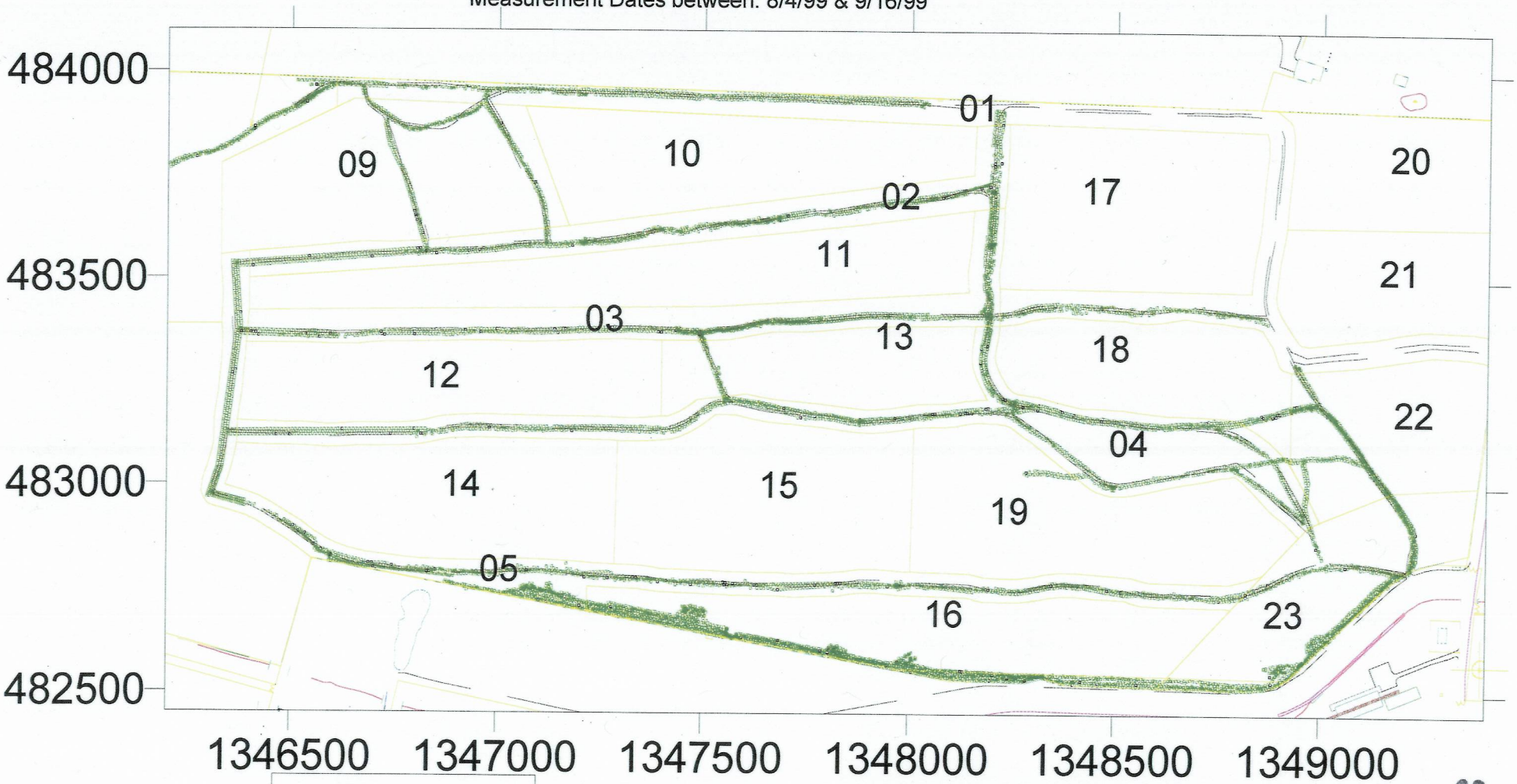
CU	TOTAL COUNTS (CPS)	RA 226 (PCI/G)	TH 232 (PCI/G)	TOTAL U (PPM)
01	3760	2.288	1.37	89.31
02	3729	2.416	1.48	98.75
03	3657	2.482	1.35	90.24
04	4211	2.572	1.49	95.6
05	4347	2.885	1.45	87.41
09	3226	2.622	1.34	78.94
13	3322	2.074	1.28	58.46
FE	5159	2.156	1.54	97.66

FE=CUs 16 and 25 along the fence at the southern boundary of A1PIII

A1P3

Moisture and Radon corrected Radium 226

Two point running average
RSS Batches # 338, 342, 343, 346-353, 358
& 360, 361, 363, 366-368, 372-374, 383, 384
Field of View to scale
Measurement Dates between: 8/4/99 & 9/16/99



pCi/gm Ra-226
- -0.20 to 1.70
- 1.70 to 5.10
- 5.10 to 1000.00

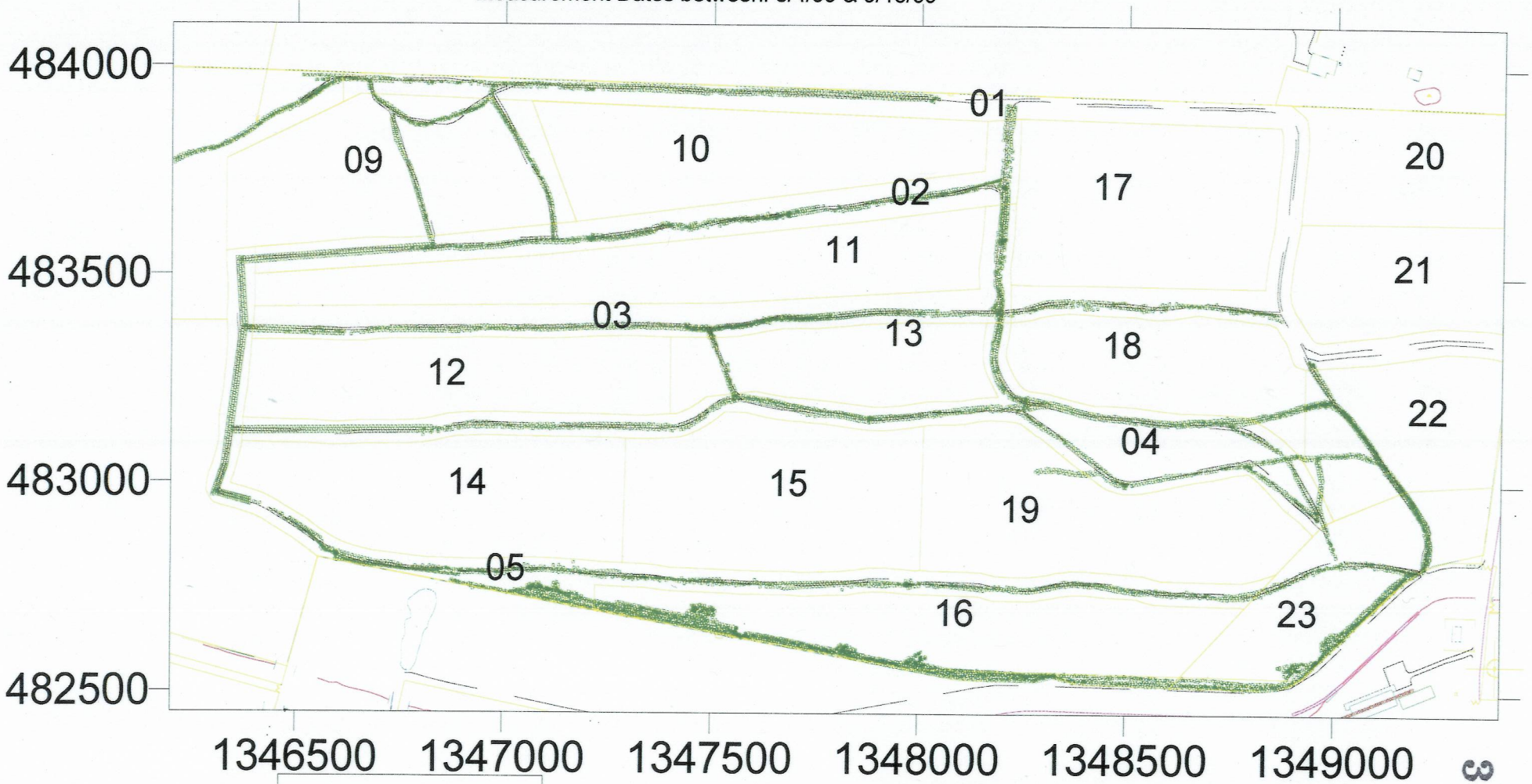
RTIMP DWG Title: A1P3-SS-RA-2PT-MC
Project: 20720-PSP-0001
Name: Area 1, Phase III Certification Sampling
Prepared by: David Allen
File: A1P3_SS_RA_2PT_MC.srf
Date Prepared: 9/20/99

000041

37330

A1P3
Moisture corrected Thorium 232

Two point running average
RSS Batches # 338, 342, 343, 346-353, 358
& 360, 361, 363, 366-368, 372-374, 383, 384
Field of View to scale
Measurement Dates between: 8/4/99 & 9/16/99



pCi/gm Th-232
- 0.00 to 1.50
- 1.50 to 4.50
- 4.50 to 1000.00

RTIMP DWG Title: A1P3-SS-TH-2PT-MC
Project: 20720-PSP-0001
Name: Area 1, Phase III Certification Sampling
Prepared by: David Allen
File: A1P3_SS_TH_2PT_MC.srf
Date Prepared: 9/20/99

37730

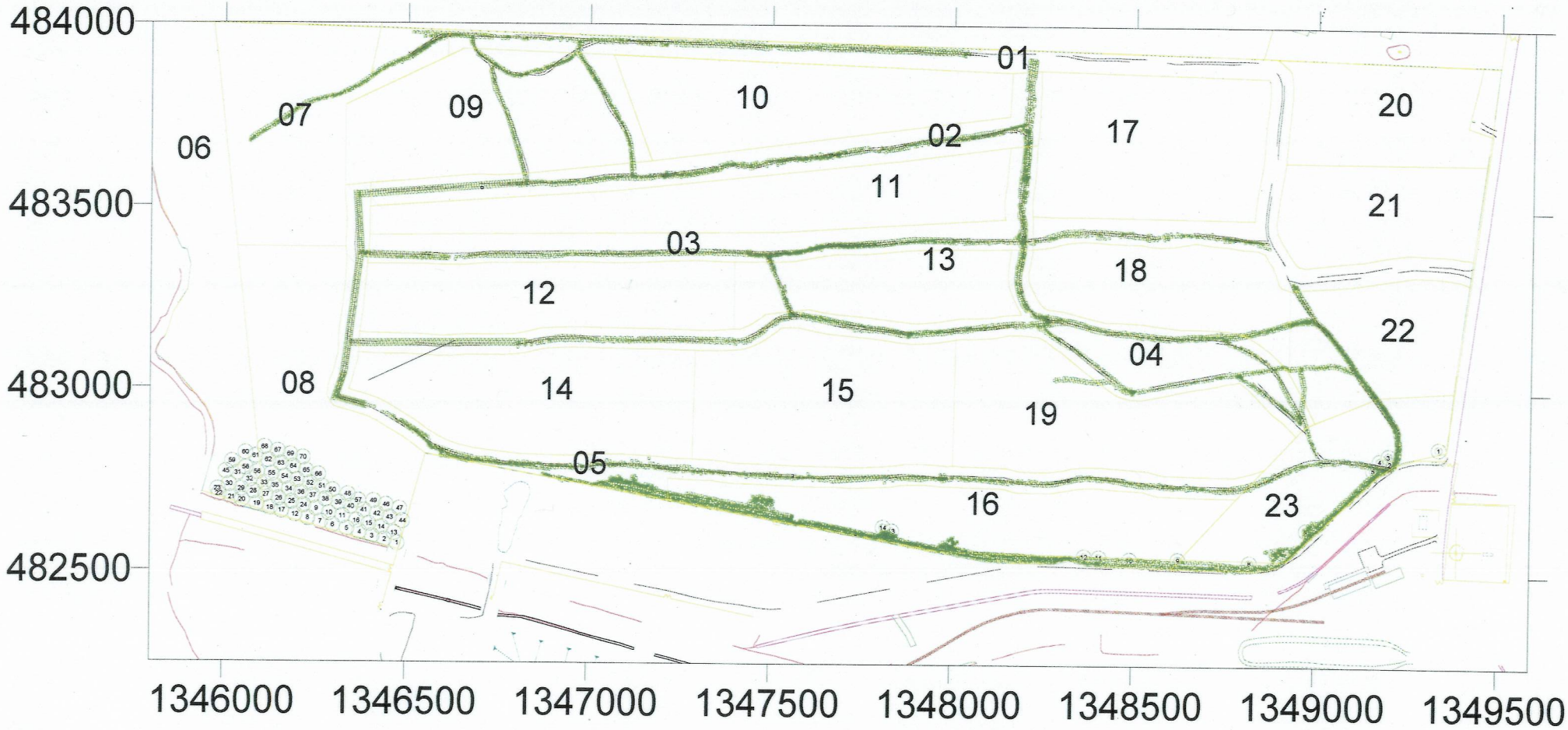
000042

A1P3

Moisture corrected Total Uranium

Two point running average
RSS Batches # 338, 342, 343, 346-353, 358
& 360, 361, 363, 366-368, 372-374, 383, 384
Field of View to scale
Measurement Dates between: 8/4/99 & 9/16/99

N



RMS Total Uranium (ppm)
-65.00 to 82.00
82.00 to 246.00
246.00 to 10000.00

HPGe Total Uranium (ppm)
0.00 to 82.00
82.00 to 246.00
246.00 to 10000.00

RTIMP DWG Title: A1P3-SS-TU-2PT-MC
Project: 20720-PSP-0001
Name: Area 1, Phase III Certification Sampling
Prepared by: David Allen
File: A1P3_SS_TU_2PT_MC.srf
Date Prepared: 06/27/00

000043

37630

A1PIII NORTHEAST FILL AREA HPGe DATA

Map ID	Sample ID	Northing	Easting	Det. Height	Ra-226 (pCi/g)	Th-232 (pCi/g)	Tot. U (ppm)
1	A1P3-P1-NE-1-1G	483552.28	1349404.5	100cm	1.186	0.843	14.5
2	A1P3-P1-NE-2-1G	483557.67	1349369.29	100cm	1.289	0.959	11.8
3	A1P3-P1-NE-3-1G	483576.26	1349341.58	100cm	1.138	0.812	11.5
4	A1P3-P1-NE-4-1G	483603.27	1349320.96	100cm	1.221	0.746	15
5	A1P3-P1-NE-5-1G	483638.29	1349307.79	100cm	1.082	0.672	12.3
6	A1P3-P1-NE-6-1G	483661.33	1349285.67	100cm	1.044	0.669	12.2
7	A1P3-P1-NE-7-1G	483685.26	1349260.91	100cm	1.137	0.756	15.2
8	A1P3-P1-NE-8-1G	483711.68	1349237.36	100cm	0.986	0.779	13.9
9	A1P3-P1-NE-9-1G	483739.7	1349215.88	100cm	0.962	0.743	16.5
10	A1P3-P1-NE-10-1G	483775.52	1349211.28	100cm	1.077	0.699	14.7
10	A1P3-P1-NE-10-1G-D	483775.52	1349211.28	100cm	0.956	0.701	14.9
11	A1P3-P1-NE-11-1G	483748.36	1349416.07	100cm	0.949	0.741	11.4
12	A1P3-P1-NE-12-1G	483755.2	1349378	100cm	0.586	0.814	8.51E-02
13	A1P3-P1-NE-13-1G	483741.4	1349450.78	100cm	0.741	0.535	2.66E-02
14	A1P3-P1-NE-14-1G	483768.65	1349473.21	100cm	0.943	0.878	7.48
15	A1P3-P1-NE-15-1G	483775.2	1349437	100cm	1.003	0.729	13
16	A1P3-P1-NE-16-1G	483781.8	1349400.9	100cm	0.862	0.79	11
17	A1P3-P1-NE-17-1G	483810	1349427.56	100cm	1.101	0.932	15.8
18	A1P3-P1-NE-18-1G	483805.39	1349459.21	100cm	1.034	0.838	14.4
19	A1P3-P1-NE-19-1G	483813.3	1349390	100cm	1.009	0.826	13.6
20	A1P3-P1-NE-20-1G	483841.6	1349413	100cm	0.92	0.908	16.3
21	A1P3-P1-NE-21-1G	483868.5	1349436.92	100cm	0.778	0.987	16.6
22	A1P3-P1-NE-22-1G	483872.18	1349401.62	100cm	0.632	0.986	14.2
23	A1P3-P1-NE-23-1G	483901.04	1349421.69	100cm	0.966	0.959	14.1
23	A1P3-P1-NE-23-1G-D	483901.04	1349421.69	100cm	0.999	1	14.6
24	A1P3-P1-NE-24-1G	483901.44	1349445.18	100cm	1.149	1.03	15
25	A1P3-P1-NE-25-1G	483901.51	1349388.69	100cm	1.063	1.04	14.1
26	A1P3-P1-NE-26-1G	483873.4	1349367.98	100cm	1.071	0.987	17.1
27	A1P3-P1-NE-27-1G	483903.4	1349350.7	100cm	1.041	0.992	17.2
28	A1P3-P1-NE-28-1G	483875.58	1349341.86	100cm	0.989	1.01	21.6
29	A1P3-P1-NE-29-1G	483844.2	1349387	100cm	0.995	0.936	14.1
30	A1P3-P1-NE-30-1G	483841.4	1349344	100cm	0.959	0.907	20.4
31	A1P3-P1-NE-31-1G	483736.3	1349484	100cm	0.778	0.438	9.5
34	A1P3-P1-NE-34-1G	483707.8	1349461	100cm	0.885	0.5	9.65
35	A1P3-P1-NE-35-1G	483714.4	1349426	100cm	0.91	0.633	8.73

000044

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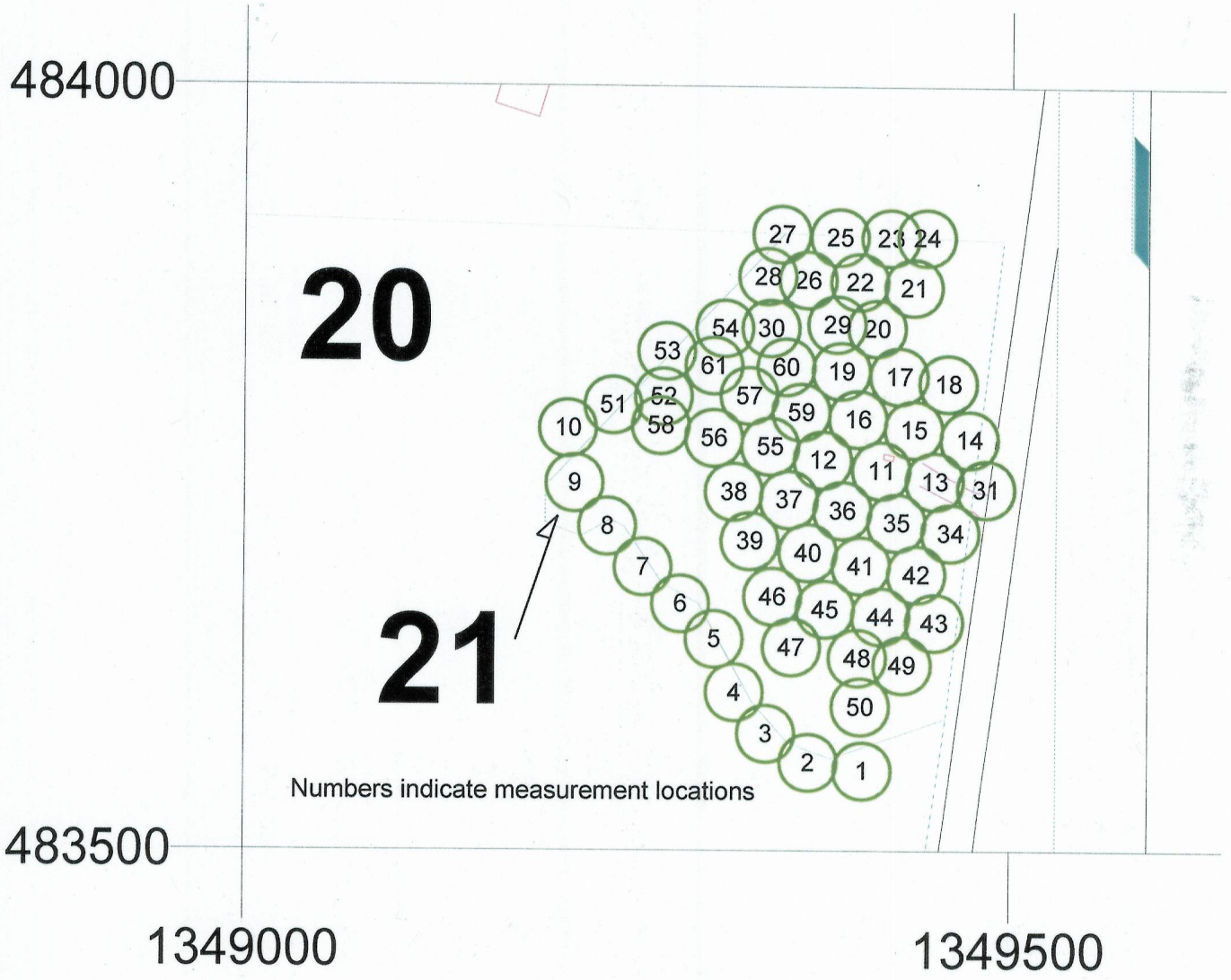
A1PIII NORTHEAST FILL AREA HPGe DATA

Map ID	Sample ID	Northing	Easting	Det. Height	Ra-226 (pCi/g)	Th-232 (pCi/g)	Tot. U (ppm)
36	A1P3-P1-NE-36-1G	483722.3	1349390.82	100cm	0.92	0.762	14.3
37	A1P3-P1-NE-37-1G	483729.3	1349356.13	100cm	0.887	0.83	12.3
38	A1P3-P1-NE-38-1G	483734.3	1349320	100cm	0.997	0.745	13.7
39	A1P3-P1-NE-39-1G	483702.35	1349330.67	100cm	0.939	0.702	12.2
40	A1P3-P1-NE-40-1G	483694.69	1349368.66	100cm	1.002	0.855	13.4
41	A1P3-P1-NE-41-1G	483686.39	1349403.16	100cm	1.121	0.779	12.5
42	A1P3-P1-NE-42-1G	483680.7	1349439	100cm	0.977	0.782	15.2
43	A1P3-P1-NE-43-1G	483649.3	1349451	100cm	0.859	0.59	9.68
44	A1P3-P1-NE-44-1G	483653.2	1349416	100cm	1.073	0.865	14.7
44	A1P3-P1-NE-44-1G-D	483653.2	1349416	100cm	0.98	0.843	13.5
45	A1P3-P1-NE-45-1G	483657.8	1349380	100cm	1.044	0.864	13.8
46	A1P3-P1-NE-46-1G	483666.05	1349345.7	100cm	0.959	0.821	12.6
47	A1P3-P1-NE-47-1G	483633	1349358	100cm	1.03	0.895	13.1
48	A1P3-P1-NE-48-1G	483626	1349401	100cm	1.078	0.989	14.3
49	A1P3-P1-NE-49-1G	483621.4	1349430	100cm	1.02	0.89	14.1
50	A1P3-P1-NE-50-1G	483594.05	1349403.03	100cm	0.996	0.791	11.2
51	A1P3-P1-NE-51-1G	483790.7	1349241	100cm	0.929	0.731	12
52	A1P3-P1-NE-52-1G	483796.3	1349274	100cm	0.939	0.662	13.6
53	A1P3-P1-NE-53-1G	483826.2	1349276	100cm	1.017	0.729	12.8
54	A1P3-P1-NE-54-1G	483841.3	1349314	100cm	0.943	0.815	14.8
55	A1P3-P1-NE-55-1G	483763.8	1349343.78	100cm	0.99	0.691	14.7
56	A1P3-P1-NE-56-1G	483769.4	1349307	100cm	0.987	0.726	8.27
57	A1P3-P1-NE-57-1G	483797.1	1349330	100cm	1.062	0.736	13.8
58	A1P3-P1-NE-58-1G	483777.5	1349272	100cm	0.968	0.811	15.3
59	A1P3-P1-NE-59-1G	483786.3	1349364	100cm	1.017	0.687	11.7
60	A1P3-P1-NE-60-1G	483816.1	1349354	100cm	1.115	0.743	13.6
60	A1P3-P1-NE-60-1G-D	483816.1	1349354	100cm	1.086	0.772	17.5
61	A1P3-P1-NE-61-1G	483816.8	1349307	100cm	0.973	0.694	11.8

000045

A1P3
Northeast Fill Area
Moisture & Radon corrected Radium-226

HPGE
Field of View to scale
Measurement Dates between: 9-15-2000 through 9-19-2000



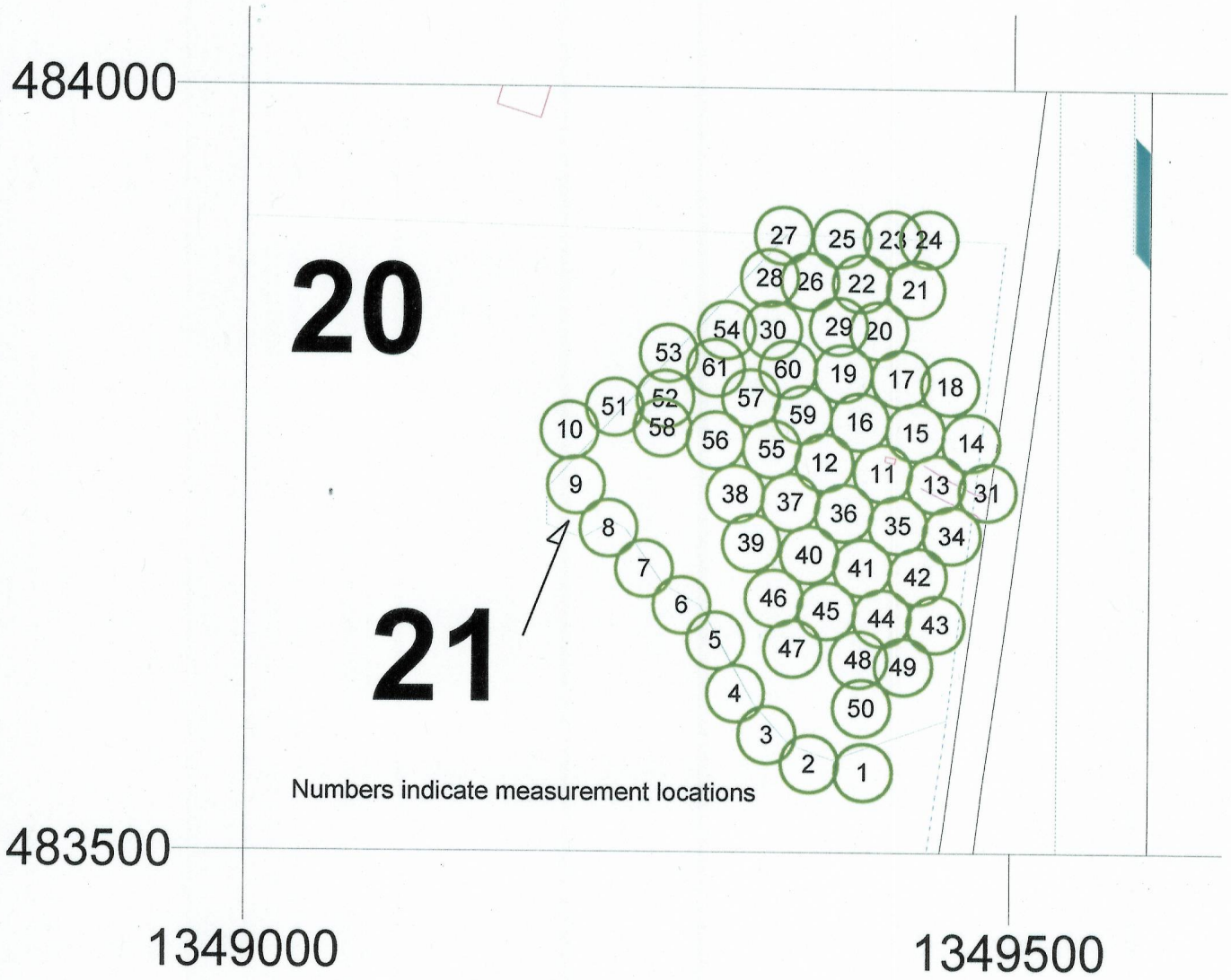
Ra-226 (pCi/g)
- 0.00 to 1.70
- 1.70 to 3.40
- 3.40 to 5.10
- 5.10 to 1000.00

RTIMP DWG Title: A1P3-NE-RA-1PT-MC
Project: 20720-PSP-0001
Name: Area 1, Phase III Certification Sampling
Prepared by: David Allen
File: A1P3_NE_RA_1PT_MC.srf
Date Prepared: 10/2/00

A1P3
Northeast Fill Area

Moisture corrected Thorium-232

HPGE
Field of View to scale
Measurement Dates between: 9-15-2000 through 9-19-2000

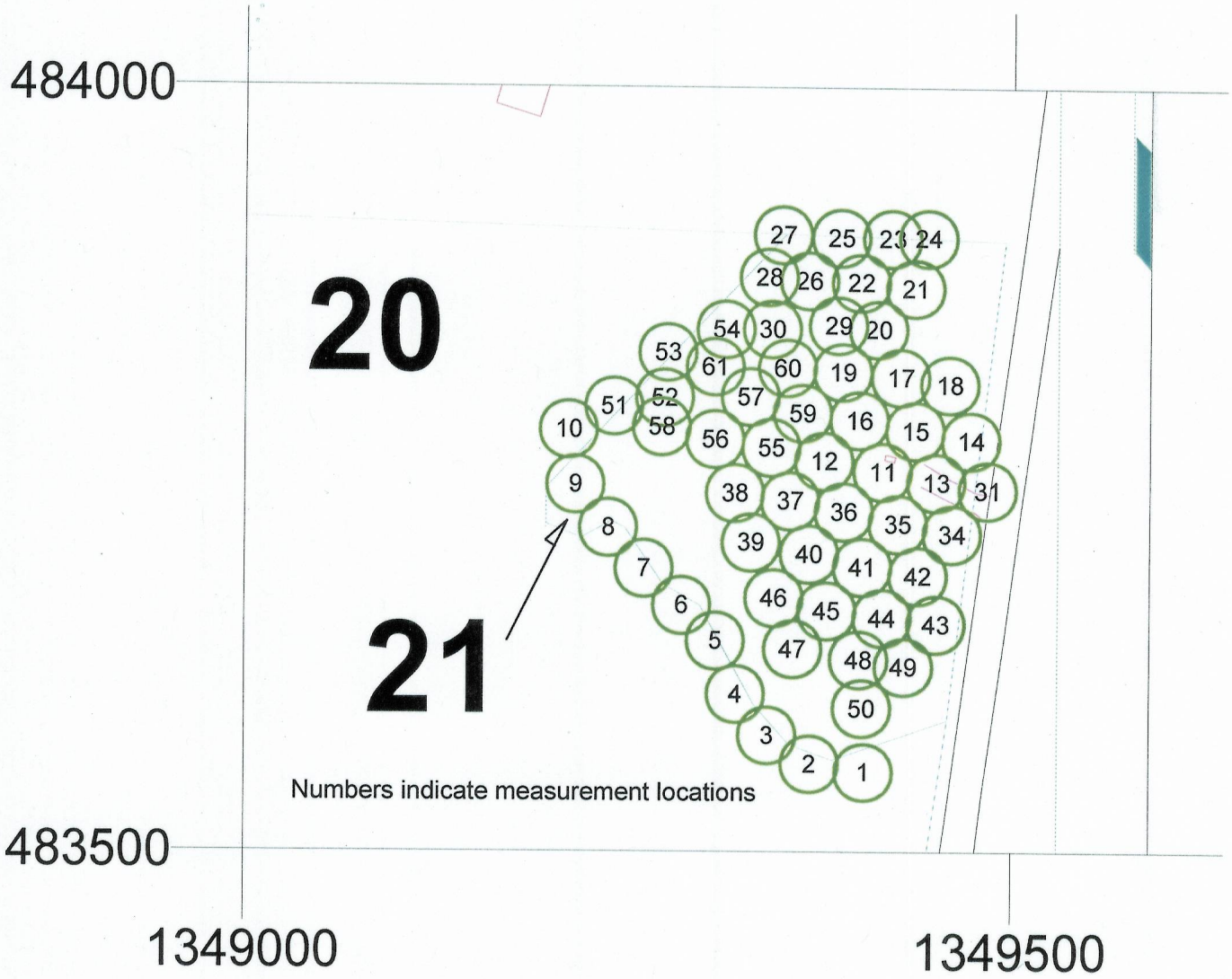


Th-232 (pCi/g)
- 0.00 to 1.50
- 1.50 to 3.00
- 3.00 to 4.50
- 4.50 to 1000.00

RTIMP DWG Title: A1P3-NE-TH-1PT-MC
Project: 20720-PSP-0001
Name: Area 1, Phase III Certification Sampling
Prepared by: David Allen
File: A1P3_NE_TH_1PT_MC.srf
Date Prepared: 10/2/00

A1P3
Northeast Fill Area
Moisture corrected Total Uranium

HPGE
Field of View to scale
Measurement Dates between: 9-15-2000 through 9-19-2000



Total Uranium (ppm)
- 0.00 to 82.00
- 82.00 to 164.00
- 164.00 to 246.00
- 246.00 to 10000.00

RTIMP DWG Title: A1P3-NE-TU-1PT-MC
Project: 20720-PSP-0001
Name: Area 1, Phase III Certification Sampling
Prepared by: David Allen
File: A1P3_NE_TU_1PT_MC.srf
Date Prepared: 10/2/00

A1PIII SOUTHWEST FILL AREA HPGe DATA

Map ID	Sample ID	Northing	Easting	Det. Height	Ra-226 (pCi/g)	Th-232 (pCi/g)	Tot. U (ppm)
1	A1P3-P1-SW-1-1G	482572.97	1346477.63	100cm	0.908	0.756	9.21
2	A1P3-P1-SW-2-1G	482582.64	1346443.19	100cm	0.861	0.712	8.32
3	A1P3-P1-SW-3-1G	482591.48	1346409.28	100cm	0.724	0.547	7.39
4	A1P3-P1-SW-4-1G	482602.1	1346374.77	100cm	0.864	0.614	9.45
5	A1P3-P1-SW-5-1G	482612.07	1346340.63	100cm	0.802	0.586	7.52
6	A1P3-P1-SW-6-1G	482621.46	1346301.12	100cm	0.848	0.627	5.89
7	A1P3-P1-SW-7-1G	482630.61	1346267.8	100cm	0.897	0.649	10
8	A1P3-P1-SW-8-1G	482640.35	1346232.83	100cm	0.891	0.663	3.82E-02
9	A1P3-P1-SW-9-1G	482665.89	1346256.4	100cm	1.047	0.861	14.7
10	A1P3-P1-SW-10-1G	482653.78	1346291.02	100cm	0.998	0.784	8.51
11	A1P3-P1-SW-11-1G	482645.83	1346328.16	100cm	0.871	0.675	2.88E-02
12	A1P3-P1-SW-12-1G	482649.56	1346197.59	100cm	0.755	0.647	6.89
13	A1P3-P1-SW-13-1G	482600.33	1346469.27	100cm	0.961	0.72	9.83
14	A1P3-P1-SW-14-1G	482616.02	1346434.22	100cm	0.9	0.701	7.42
15	A1P3-P1-SW-15-1G	482625.28	1346400.34	100cm	0.82	0.634	10.8
16	A1P3-P1-SW-16-1G	482633.06	1346366.22	100cm	0.902	0.633	7.17
17	A1P3-P1-SW-17-1G	482659.87	1346160.44	100cm	0.743	0.583	9.54
18	A1P3-P1-SW-18-1G	482667.5	1346128.62	100cm	0.75	0.693	8.48
19	A1P3-P1-SW-19-1G	482677.92	1346093.29	100cm	0.716	0.606	9.4
20	A1P3-P1-SW-20-1G	482689.01	1346052.5	100cm	0.685	0.582	9.77
21	A1P3-P1-SW-21-1G	482696.14	1346023.62	100cm	0.722	0.507	6.94
22	A1P3-P1-SW-22-1G	482705.03	1345989.56	100cm	0.673	0.528	7.67
23	A1P3-P1-SW-23-1G	482719.32	1345986.01	100cm	0.961	0.597	5.05
24	A1P3-P1-SW-24-1G	482674.85	1346221.68	100cm	1.113	0.882	15.5
25	A1P3-P1-SW-25-1G	482684.67	1346188.07	100cm	0.967	0.842	15
26	A1P3-P1-SW-26-1G	482693.21	1346152.79	100cm	1.14	0.865	13.4
27	A1P3-P1-SW-27-1G	482703.34	1346117.56	100cm	0.961	0.735	12
28	A1P3-P1-SW-28-1G	482712.27	1346083.97	100cm	1.028	0.892	13.3
29	A1P3-P1-SW-29-1G	482718.78	1346050.3	100cm	0.929	0.688	11.8
30	A1P3-P1-SW-30-1G	482731.52	1346016.72	100cm	0.918	0.732	12.1
31	A1P3-P1-SW-31-1G	482762.95	1346041.02	100cm	0.637	0.763	12.6
31	A1P3-P1-SW-31-1G-D	482762.95	1346041.02	100cm	1.026	0.818	15.1
32	A1P3-P1-SW-32-1G	482744.71	1346073.94	100cm	0.29	0.349	6.15
33	A1P3-P1-SW-33-1G	482734.93	1346113.11	100cm	0.681	0.644	14.4
34	A1P3-P1-SW-34-1G	482717.96	1346180.09	100cm	0.735	0.717	9.68

000049

37330

A1PIII SOUTHWEST FILL AREA HPGe DATA

Map ID	Sample ID	Northing	Easting	Det. Height	Ra-226 (pCi/g)	Th-232 (pCi/g)	Tot. U (ppm)
35	A1P3-P1-SW-35-1G	482727.66	1346142.92	100cm	0.818	0.768	12.4
36	A1P3-P1-SW-36-1G	482709.26	1346214.2	100cm	0.811	0.847	11.1
37	A1P3-P1-SW-37-1G	482700.78	1346246.78	100cm	0.837	0.877	12.7
38	A1P3-P1-SW-38-1G	482690.83	1346281.81	100cm	0.887	0.746	13.7
38	A1P3-P1-SW-38-1G-D	482690.83	1346281.81	100cm	0.72	0.731	11.5
39	A1P3-P1-SW-39-1G	482682.23	1346316.87	100cm	0.872	0.782	15.1
40	A1P3-P1-SW-40-1G	482671.89	1346350.66	100cm	0.878	0.791	15.9
41	A1P3-P1-SW-41-1G	482661.95	1346386.72	100cm	0.761	0.646	9.22
42	A1P3-P1-SW-42-1G	482652.29	1346422.08	100cm	0.891	0.679	7.36
43	A1P3-P1-SW-43-1G	482642.57	1346456.98	100cm	0.949	0.899	15.7
44	A1P3-P1-SW-44-1G	482633.09	1346492.22	100cm	1.028	0.767	10.7
45	A1P3-P1-SW-45-1G	482766.99	1346007.74	100cm	1.018	0.953	12
46	A1P3-P1-SW-46-1G	482677.4	1346447.13	100cm	1.098	0.742	9.76
47	A1P3-P1-SW-47-1G	482667.15	1346483.9	100cm	0.896	0.663	10.3
48	A1P3-P1-SW-48-1G	482705.74	1346342.35	100cm	0.887	0.802	12.7
49	A1P3-P1-SW-49-1G	482687.56	1346412.47	100cm	0.949	0.773	10
50	A1P3-P1-SW-50-1G	482716.4	1346300.66	100cm	0.667	0.777	11.7
51	A1P3-P1-SW-51-1G	482726.26	1346272.32	100cm	0.958	0.985	14.4
51	A1P3-P1-SW-51-1G-D	482726.26	1346272.32	100cm	0.887	0.903	14.3
52	A1P3-P1-SW-52-1G	482734.97	1346238.62	100cm	0.769	0.821	8.86
53	A1P3-P1-SW-53-1G	482743.99	1346203.18	100cm	0.857	0.876	12.7
54	A1P3-P1-SW-54-1G	482752.5	1346169.3	100cm	0.844	0.802	13.6
55	A1P3-P1-SW-55-1G	482760.3	1346133.78	100cm	1.016	0.891	13.3
56	A1P3-P1-SW-56-1G	482765.25	1346094.1	100cm	0.704	0.832	12.3
57	A1P3-P1-SW-57-1G	482688.31	1346371.66	100cm	0.9	0.848	11.3
58	A1P3-P1-SW-58-1G	482777.43	1346062.83	100cm	0.747	0.807	17.4
59	A1P3-P1-SW-59-1G	482795.1	1346024.76	100cm	0.57	0.688	14.3
59	A1P3-P1-SW-59-1G-D	482795.1	1346024.76	100cm	0.792	0.669	12.6
60	A1P3-P1-SW-60-1G	482818.8	1346061.62	100cm	0.943	0.809	11.6
61	A1P3-P1-SW-61-1G	482808.99	1346089.57	100cm	0.593	0.811	9.01
62	A1P3-P1-SW-62-1G	482797.78	1346124.02	100cm	0.588	0.832	13.7
63	A1P3-P1-SW-63-1G	482788.6	1346158	100cm	0.666	0.806	13.1
64	A1P3-P1-SW-64-1G	482780.28	1346192.07	100cm	0.603	0.746	13.3
65	A1P3-P1-SW-65-1G	482769.47	1346228.26	100cm	0.673	0.874	13.1
66	A1P3-P1-SW-66-1G	482759.44	1346262.04	100cm	0.678	1.01	11.6

000050

A1PIII SOUTHWEST FILL AREA HPGe DATA

Map ID	Sample ID	Northing	Easting	Det. Height	Ra-226 (pCi/g)	Th-232 (pCi/g)	Tot. U (ppm)
67	A1P3-P1-SW-67-1G	482823.65	1346149.16	100cm	0.572	0.716	9.46
68	A1P3-P1-SW-68-1G	482833.53	1346113.89	100cm	0.588	0.767	10.1
68	A1P3-P1-SW-68-1G-D	482833.53	1346113.89	100cm	0.597	0.813	13.5
69	A1P3-P1-SW-69-1G	482814.38	1346184.24	100cm	0.609	0.736	11.2
70	A1P3-P1-SW-70-1G	482805.51	1346219.31	100cm	0.69	0.781	14
70	A1P3-P1-SW-70-1G-D	482805.51	1346219.31	100cm	0.634	0.785	12.4
71	A1P3-P1-SW-71-1G	482796	1346252.83	100cm	0.95	0.743	13.7
72	A1P3-P1-SW-72-1G	482786.38	1346286.97	100cm	1.043	0.825	12.1
73	A1P3-P1-SW-73-1G	482775.45	1346321.62	100cm	0.816	0.751	12.3
73	A1P3-P1-SW-73-1G-D	482775.45	1346321.62	100cm	0.834	0.703	12.5
74	A1P3-P1-SW-74-1G	482764.87	1346355.86	100cm	0.961	0.933	11.1
74	A1P3-P1-SW-74-1G-D	482764.87	1346355.86	100cm	0.947	0.914	12.1
75	A1P3-P1-SW-75-1G	482754.53	1346390.46	100cm	0.766	0.779	13.6
76	A1P3-P1-SW-76-1G	482744.76	1346425.24	100cm	0.939	0.814	13.4
77	A1P3-P1-SW-77-1G	482733.47	1346461.3	100cm	0.934	0.924	16.4
78	A1P3-P1-SW-78-1G	482727.66	1346494.48	100cm	0.786	0.789	10.8
79	A1P3-P1-SW-79-1G	482761.85	1346484.95	100cm	1.045	0.881	12
80	A1P3-P1-SW-80-1G	482767.82	1346451.07	100cm	0.956	0.851	15
81	A1P3-P1-SW-81-1G	482702.11	1346469.03	100cm	0.935	0.731	11.3
82	A1P3-P1-SW-82-1G	482708	1346432.98	100cm	1.046	0.842	12.2
83	A1P3-P1-SW-83-1G	482716.32	1346398.78	100cm	1.07	0.836	12.4
84	A1P3-P1-SW-84-1G	482722.92	1346366.51	100cm	0.986	0.789	13.4
85	A1P3-P1-SW-85-1G	482736.49	1346329.88	100cm	1.052	0.894	11.9
86	A1P3-P1-SW-86-1G	482743.27	1346295.96	100cm	1.086	0.74	10.7
87	A1P3-P1-SW-87-1G	482778.35	1346414.3	100cm	0.968	0.832	13.3
88	A1P3-P1-SW-88-1G	482789.71	1346382.86	100cm	0.86	0.861	14.1
89	A1P3-P1-SW-89-1G	482802.82	1346345.42	100cm	0.869	0.82	12.9
90	A1P3-P1-SW-90-1G	482814.49	1346312.45	100cm	0.941	0.777	9.9
91	A1P3-P1-SW-91-1G	482825.24	1346275.77	100cm	0.867	0.758	10.8
92	A1P3-P1-SW-92-1G	482831.65	1346244.91	100cm	0.905	0.757	11.1
93	A1P3-P1-SW-93-1G	482839.9	1346208.89	100cm	0.89	0.795	11.5
94	A1P3-P1-SW-94-1G	482846.94	1346172.12	100cm	0.863	0.791	14.2
95	A1P3-P1-SW-95-1G	482855.07	1346136.13	100cm	0.897	0.806	12.7
96	A1P3-P1-SW-96-1G	482883.6	1346164.67	100cm	0.852	0.785	11.1
97	A1P3-P1-SW-97-1G	482874.88	1346200.09	100cm	0.891	0.742	13.7

000051

3730

A1PIII SOUTHWEST FILL AREA HPGe DATA

Map ID	Sample ID	Northing	Easting	Det. Height	Ra-226 (pCi/g)	Th-232 (pCi/g)	Tot. U (ppm)
98	A1P3-P1-SW-98-1G	482864.4	1346234.37	100cm	0.992	0.699	12.8
99	A1P3-P1-SW-99-1G	482854.86	1346270.37	100cm	1.036	0.712	12.2
100	A1P3-P1-SW-100-1G	482845.5	1346304.1	100cm	0.916	0.796	12.7
101	A1P3-P1-SW-101-1G	482835.03	1346339.37	100cm	0.925	0.739	8.98
102	A1P3-P1-SW-102-1G	482824.83	1346373.87	100cm	0.938	0.89	10.7
103	A1P3-P1-SW-103-1G	482814.92	1346408.06	100cm	0.84	0.673	9.29
104	A1P3-P1-SW-104-1G	482805.37	1346444.31	100cm	0.834	0.754	10.6
105	A1P3-P1-SW-105-1G	482799.13	1346476.26	100cm	0.859	0.745	13.6
105	A1P3-P1-SW-105-1G-D	482799.13	1346476.26	100cm	0.942	0.738	10.5
106	A1P3-P1-SW-106-1G	482783.48	1346511.53	100cm	0.978	0.814	10
107	A1P3-P1-SW-107-1G	482819.7	1346503.86	100cm	1.093	0.86	11.9
108	A1P3-P1-SW-108-1G	482827.52	1346470.11	100cm	1.161	0.92	12.9
109	A1P3-P1-SW-109-1G	482838.7	1346434.75	100cm	0.985	0.835	11.5
110	A1P3-P1-SW-110-1G	482849.44	1346399.34	100cm	1.008	0.848	13.1
111	A1P3-P1-SW-111-1G	482859.97	1346364.72	100cm	0.948	0.842	9.93
112	A1P3-P1-SW-112-1G	482869.69	1346330.07	100cm	0.92	0.742	12.3
113	A1P3-P1-SW-113-1G	482880.5	1346294.13	100cm	0.893	0.873	13.5
114	A1P3-P1-SW-114-1G	482889.93	1346261.24	100cm	0.749	0.694	12.9
115	A1P3-P1-SW-115-1G	482899.5	1346225.13	100cm	0.8	0.744	12.4
116	A1P3-P1-SW-116-1G	482925.97	1346259.83	100cm	0.776	0.722	13.8
117	A1P3-P1-SW-117-1G	482915.01	1346286.14	100cm	0.909	0.811	15.9
117	A1P3-P1-SW-117-1G-D	482915.01	1346286.14	100cm	0.927	0.812	15.8
118	A1P3-P1-SW-118-1G	482904.59	1346320.16	100cm	0.555	0.869	12.1
119	A1P3-P1-SW-119-1G	482892.78	1346359.84	100cm	0.522	0.861	13.1
120	A1P3-P1-SW-120-1G	482885.05	1346390.9	100cm	0.514	0.787	9.07
121	A1P3-P1-SW-121-1G	482874.42	1346426.8	100cm	1.149	0.907	13.8
122	A1P3-P1-SW-122-1G	482865.29	1346460.01	100cm	1.032	0.897	13.3
123	A1P3-P1-SW-123-1G	482854.26	1346495.12	100cm	1.178	0.865	10.7
124	A1P3-P1-SW-124-1G	482843.35	1346529.54	100cm	1.102	0.85	13.8
125	A1P3-P1-SW-125-1G	482948	1346280.87	100cm	0.452	0.744	14.1
126	A1P3-P1-SW-126-1G	482940.38	1346312	100cm	0.507	0.846	13.1
127	A1P3-P1-SW-127-1G	482930.94	1346345.92	100cm	0.435	0.924	14.7
128	A1P3-P1-SW-128-1G	482921.25	1346381.14	100cm	0.464	0.833	14.3
129	A1P3-P1-SW-129-1G	482912.24	1346418.22	100cm	0.487	0.752	13.5
130	A1P3-P1-SW-130-1G	482902.92	1346448.39	100cm	1.07	0.876	11.6

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A1PIII SOUTHWEST FILL AREA HPGe DATA

Map ID	Sample ID	Northing	Easting	Det. Height	Ra-226 (pCi/g)	Th-232 (pCi/g)	Tot. U (ppm)
131	A1P3-P1-SW-131-1G	482881.48	1346488.64	100cm	1.053	0.816	12.9
132	A1P3-P1-SW-132-1G	482809.52	1346535.48	100cm	0.573	0.876	13.1
133	A1P3-P1-SW-133-1G	482751.53	1346518.51	100cm	0.657	0.876	14.1
134	A1P3-P1-SW-134-1G	482684.34	1346505.11	100cm	0.548	0.726	11.5
135	A1P3-P1-SW-135-1G	482634.41	1346487.24	100cm	0.558	0.805	12.5

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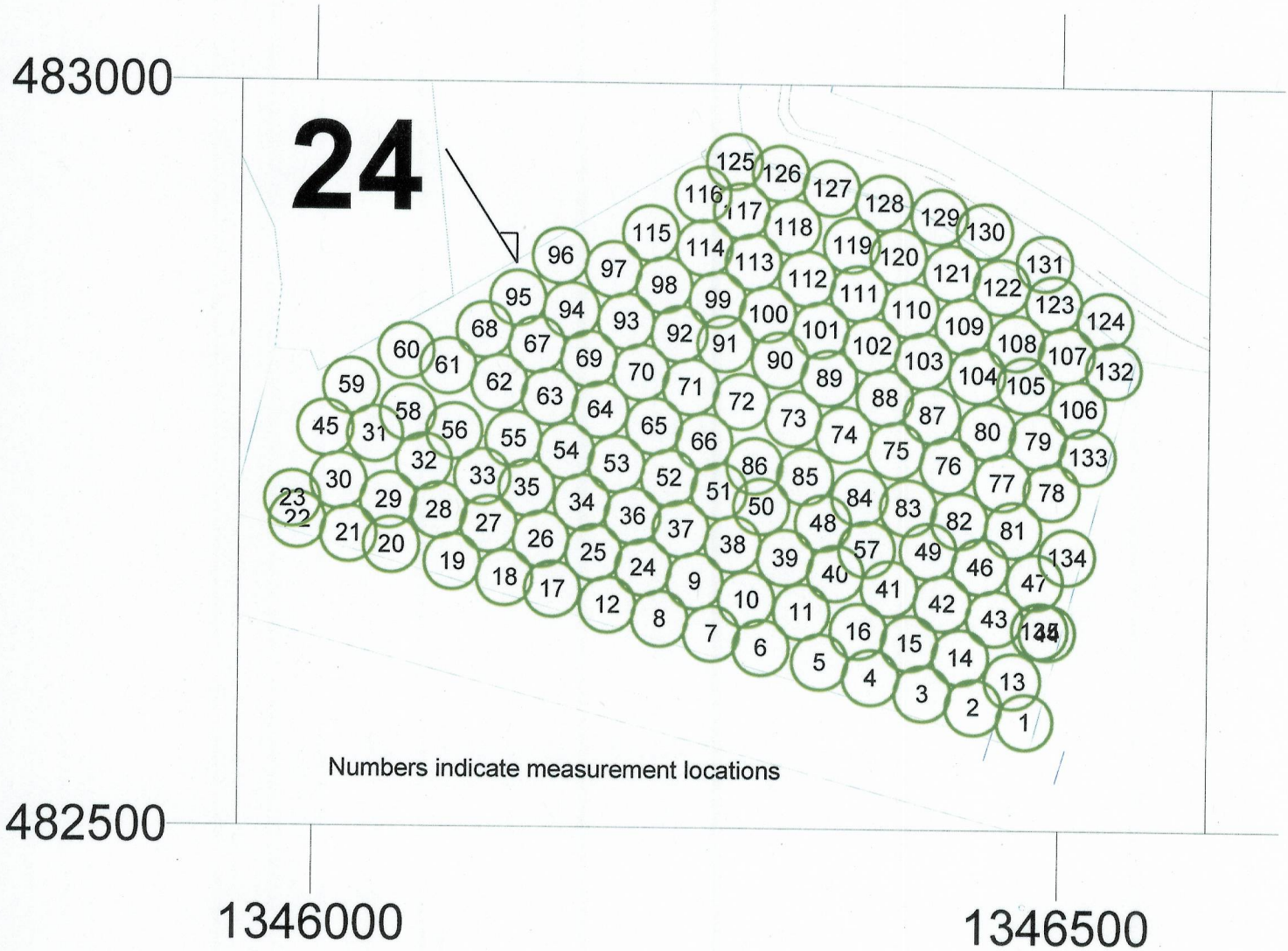
3730

A1P3
Southwest Fill Area
Moisture & Radon corrected Radium-226

3730

HPGE
Field of View to scale
Measurement Dates between: 3-9-2000 through 9-27-2000



Ra-226 (pCi/g)
- 0.00 to 1.70
- 1.70 to 3.40
- 3.40 to 5.10
- 5.10 to 1000.00

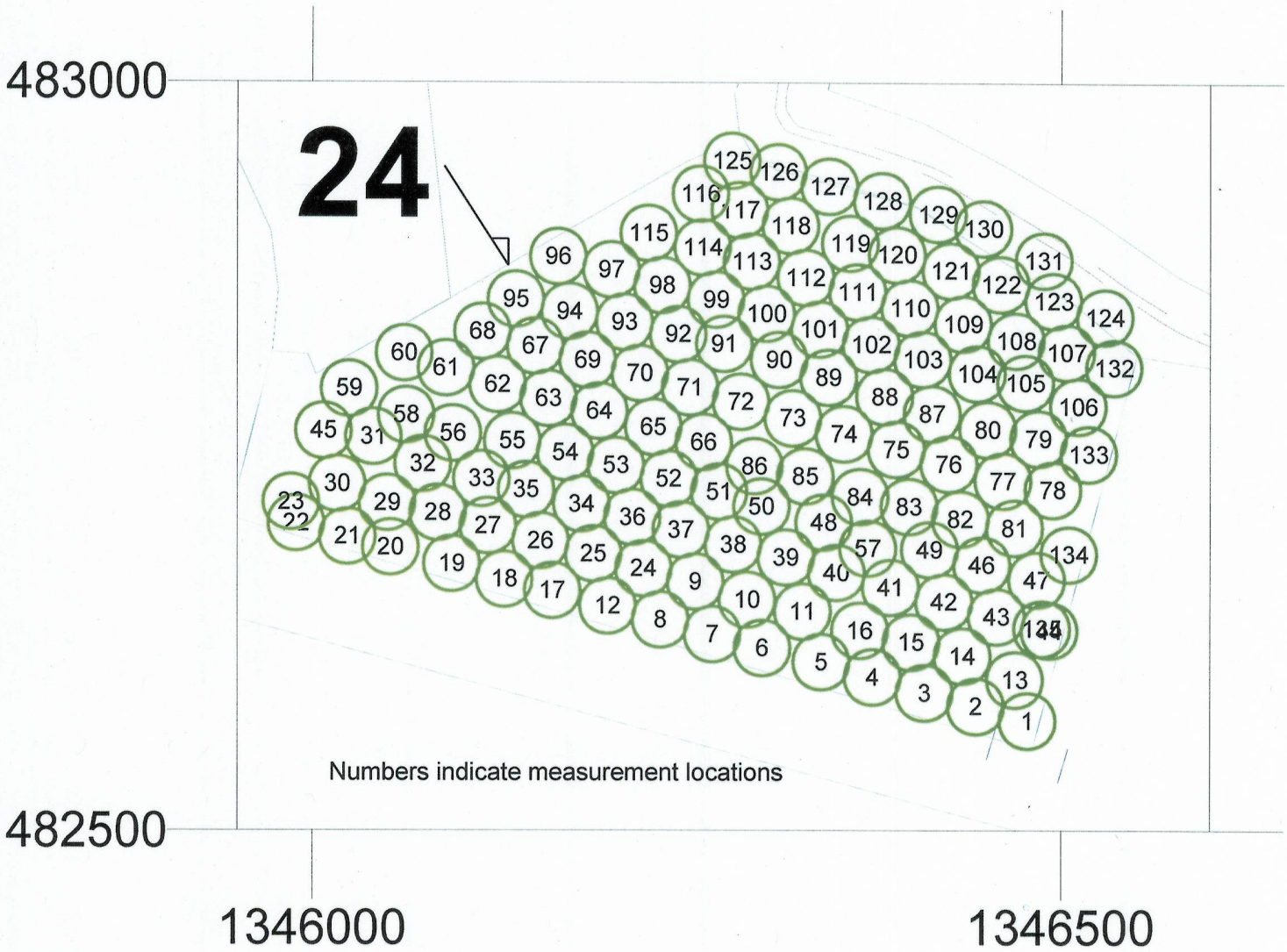
RTIMP DWG Title: A1P3-SW-RA-1PT-MC
Project: 20720-PSP-0001
Name: Area 1, Phase III Certification Sampling
Prepared by: David Allen
File: A1P3_SW_RA_1PT_MC.srf
Date Prepared: 10/2/00

A1P3
Southwest Fill Area

3730

Moisture corrected Thorium-232

HPGE
Field of View to scale
Measurement Dates between: 3-9-2000 through 9-27-2000



Th-232 (pCi/g)
- 0.00 to 1.50
- 1.50 to 3.00
- 3.00 to 4.50
- 4.50 to 1000.00

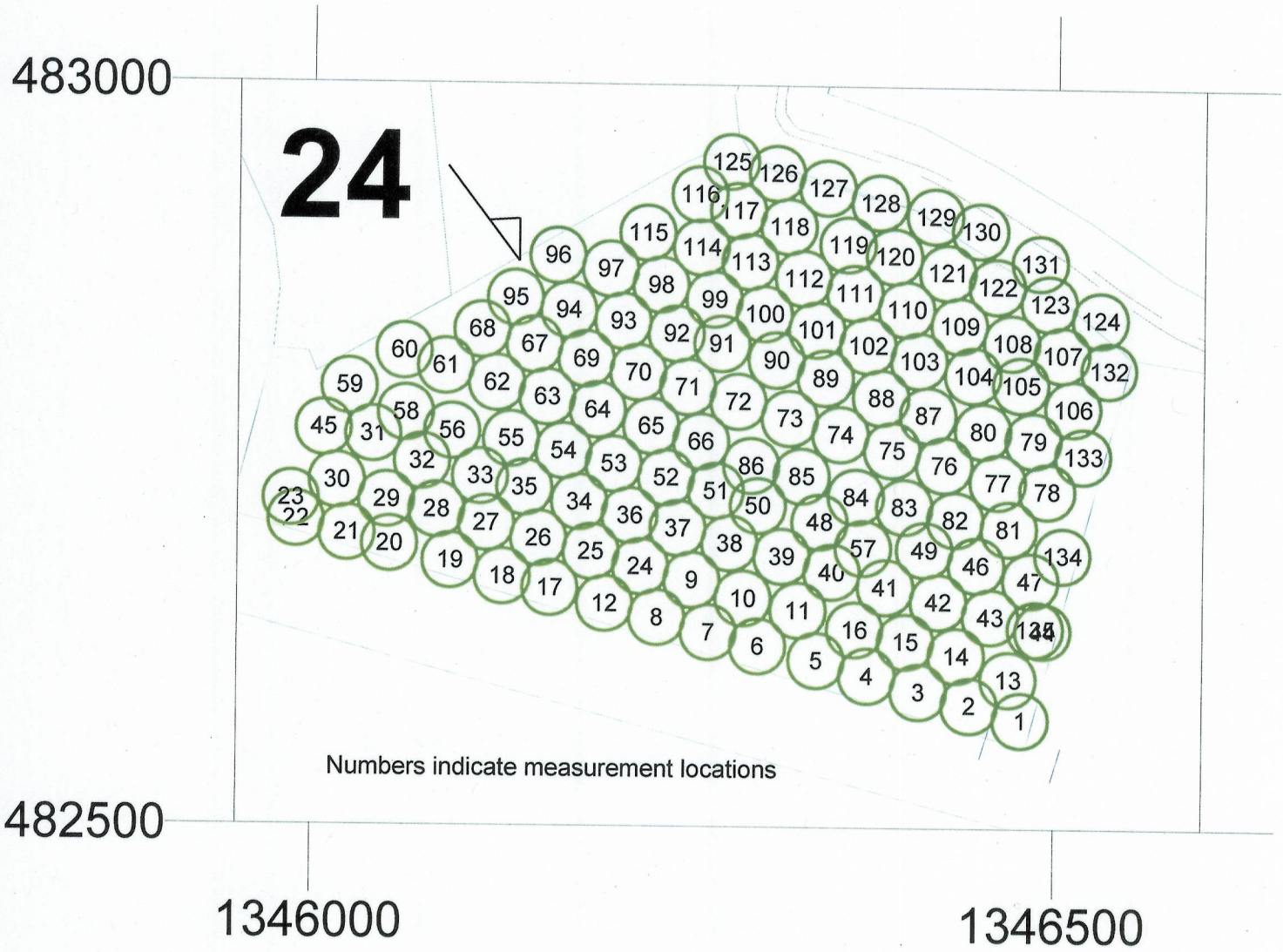
RTIMP DWG Title: A1P3-SW-TH-1PT-MC
Project: 20720-PSP-0001
Name: Area 1, Phase III Certification Sampling
Prepared by: David Allen
File: A1P3_SW_TH_1PT_MC.srf
Date Prepared: 10/2/00

A1P3
Southwest Fill Area

3730

Moisture corrected Total Uranium

HPGE
Field of View to scale
Measurement Dates between: 3-9-2000 through 9-27-2000



Total Uranium (ppm)
- 0.00 to 82.00
- 82.00 to 164.00
- 164.00 to 246.00
- 246.00 to 1000.00

RTIMP DWG Title: A1P3-SW-TU-1PT-MC
Project: 20720-PSP-0001
Name: Area 1, Phase III Certification Sampling
Prepared by: David Allen
File: A1P3_SW_TU_1PT_MC.srf
Date Prepared: 10/2/00

A1PIII SOIL PILES HPGe DATA

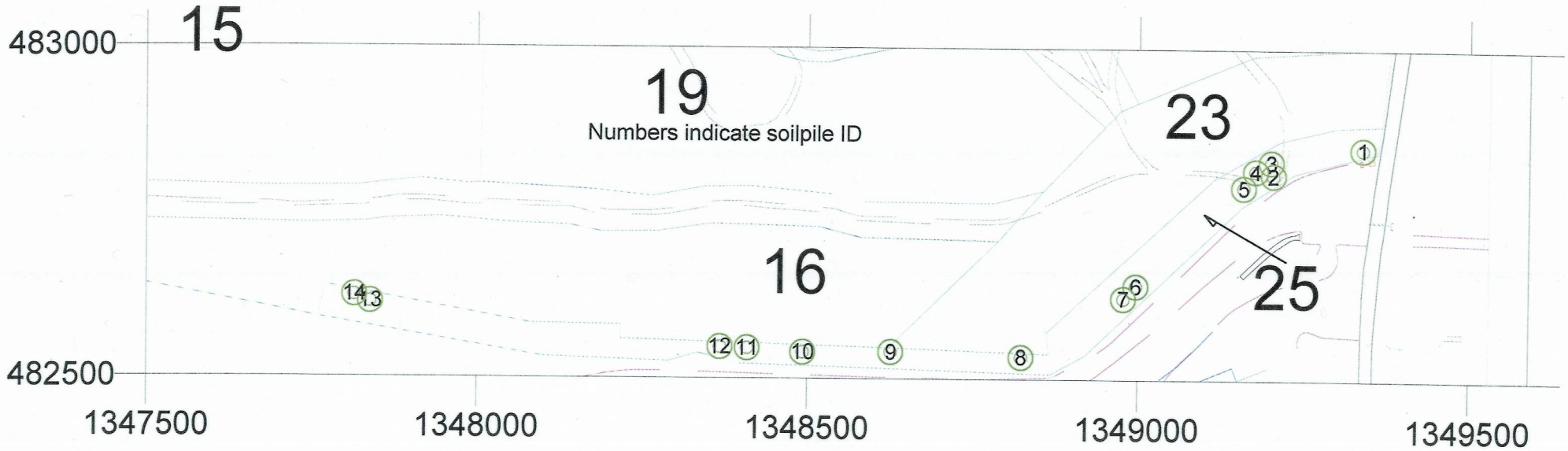
Map ID	Sample ID	Northing	Easting	Det. Height	Ra-226 (pCi/g)	Th-232 (pCi/g)	Tot. U (ppm)
1	A1P3PILE1-P2-1G	482849.3	1349338	100cm	0.418	0.349	18
1	A1P3PILE1-P2-2G	482849.3	1349338	31cm	0.449	0.33	18.8
2	A1P3PILE2-P2-1G	482809.1	1349203.9	100cm	0.675	0.684	22.3
2	A1P3PILE2-P2-2G	482809.1	1349203.9	31cm	0.943	0.746	24
3	A1P3PILE3-P2-1G	482829.2	1349200.5	100cm	0.659	0.651	19
3	A1P3PILE3-P2-2G	482829.2	1349200.5	31cm	0.775	0.478	18.9
4	A1P3PILE4-P2-1G	482815.5	1349176.7	100cm	0.371	0.42	13.5
4	A1P3PILE4-P2-2G	482815.5	1349176.7	31cm	0.585	0.424	13.4
5	A1P3PILE5-P2-1G	482790.5	1349159	100cm	0.667	0.704	24.5
5	A1P3PILE5-P2-2G	482790.5	1349159	31cm	0.779	0.833	24.4
6	A1P3PILE6-P2-1G	482640.9	1348996	100cm	0.548	0.763	32.3
6	A1P3PILE6-P2-2G	482640.9	1348996	31cm	0.66	0.683	29.7
7	A1P3PILE7-P2-1G	482622.2	1348977.3	100cm	0.553	1.12	40.1
7	A1P3PILE7-P2-2G	482622.2	1348977.3	31cm	0.77	0.746	35.6
8	A1P3PILE8-P2-1G	482533.2	1348823.4	100cm	0.778	0.783	15.7
8	A1P3PILE8-P2-2G	482533.2	1348823.4	31cm	0.764	0.75	19.7
8	A1P3PILE8-P2-2G-D	482533.2	1348823.4	31cm	0.803	0.741	15.1
9	A1P3PILE9-P2-1G	482540.3	1348626.7	100cm	0.715	0.671	20.1
9	A1P3PILE9-P2-2G	482540.3	1348626.7	31cm	0.765	0.677	15.8
10	A1P3PILE10-P2-1G	482539.6	1348492.6	100cm	0.84	0.784	25.7
10	A1P3PILE10-P2-2G	482539.6	1348492.6	31cm	0.87	0.87	26.7
11	A1P3PILE11-P2-1G	482545.4	1348408.3	100cm	0.969	0.713	24
11	A1P3PILE11-P2-2G	482545.4	1348408.3	31cm	0.834	0.758	27.7
12	A1P3PILE12-P2-1G	482547.3	1348367	100cm	1.007	0.761	18.9
12	A1P3PILE12-P2-1G-D	482547.3	1348367	100cm	0.953	0.742	19.7
12	A1P3PILE12-P2-2G	482547.3	1348367	31cm	1.137	0.781	18.2
13	A1P3PILE13-P2-1G	482613.7	1347838.4	100cm	1.154	0.965	25.9
13	A1P3PILE13-P2-2G	482613.7	1347838.4	31cm	1.172	1.06	21.8
14	A1P3PILE14-P2-1G	482623.7	1347814.5	100cm	0.985	0.863	28.9
14	A1P3PILE14-P2-2G	482623.7	1347814.5	31cm	1.014	0.961	26.3

A1P3
Soil Piles

Moisture & Radon corrected Radium-226

N

HPGE measurements at 31cm and 100 cm heights
Field of View to scale
Measurement Dates: 3/6/00 & 3/8/00



Ra-226 (pCi/g)
0.00 to 1.70
1.70 to 3.40
3.40 to 5.10
5.10 to 10000.00

RTIMP DWG Title: A1P3-SOILPILES-RA-1PT-MC
Project: 20720-PSP-0001
Name: Area 1, Phase III Certification Sampling
Prepared by: David Allen
File: A1P3_SOILPILES_RA_1PT_MC.srf
Date Prepared: 10/2/00

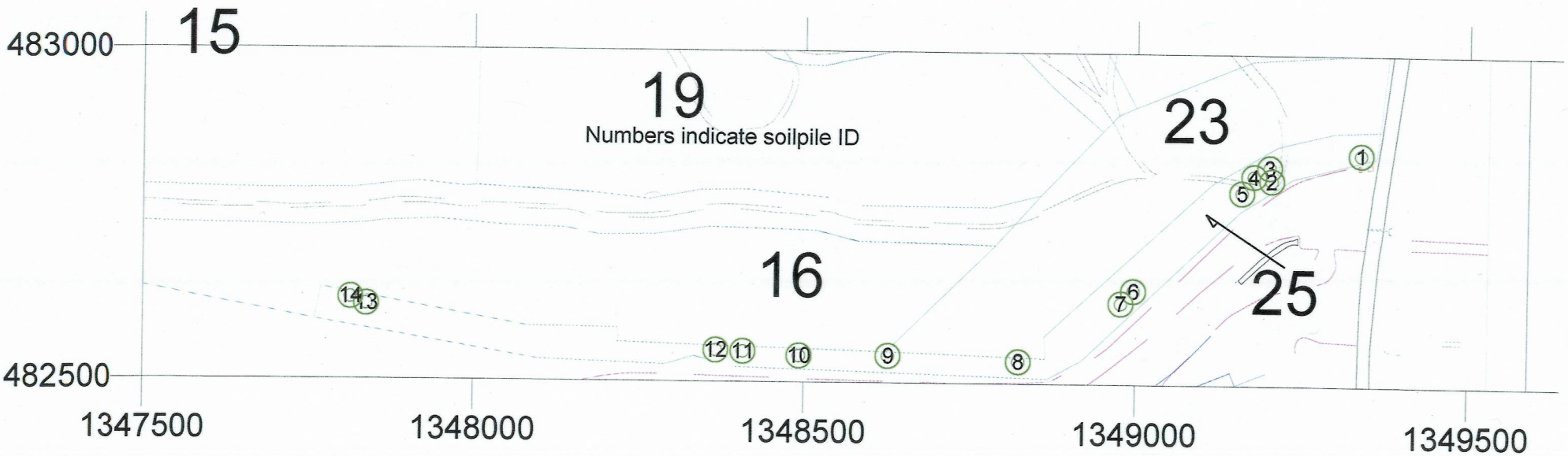
000058

3730

A1P3
Soil Piles

Moisture corrected Thorium-232

HPGE measurements at 31cm and 100 cm heights
Field of View to scale
Measurement Dates: 3/6/00 & 3/8/00



Th-232 (pCi/g)
- 0.00 to 1.50
- 1.50 to 3.00
- 3.00 to 4.50
- 4.50 to 10000.00

RTIMP DWG Title: A1P3-SOILPILES-TH-1PT-MC
Project: 20720-PSP-0001
Name: Area 1, Phase III Certification Sampling
Prepared by: David Allen
File: A1P3_SOILPILES_TH_1PT_MC.srf
Date Prepared: 10/2/00

000059

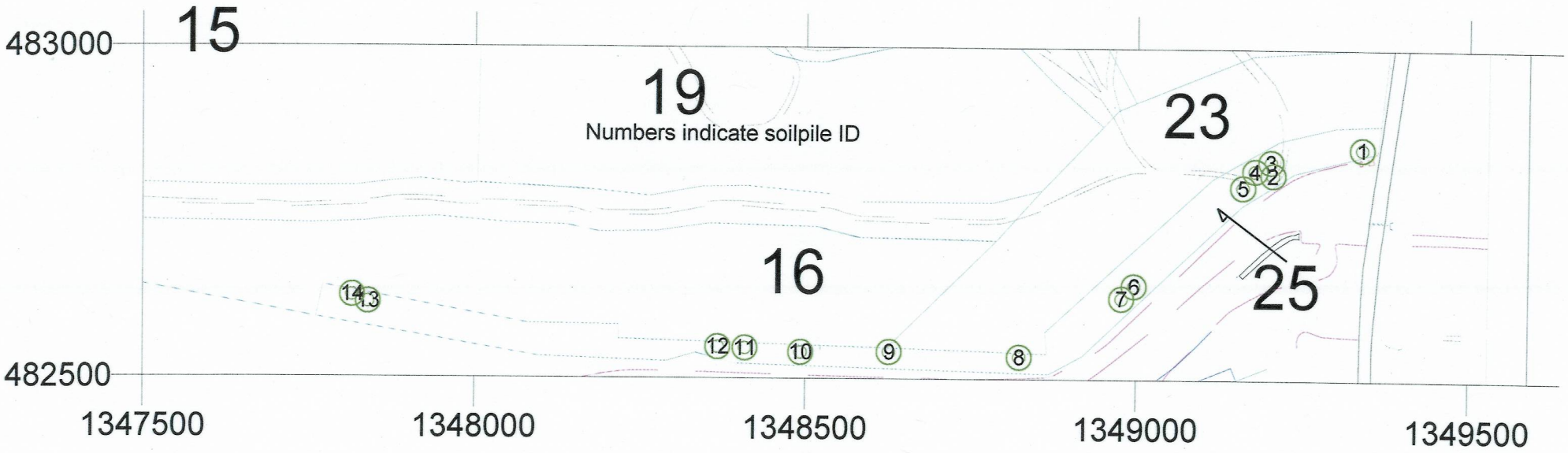
3730

A1P3
Soil Piles

Moisture corrected Total Uranium

HPGE measurements at 31cm and 100 cm heights
Field of View to scale
Measurement Dates: 3/6/00 & 3/8/00

N



Total Uranium (ppm)

- 0.00 to 82.00
- 82.00 to 164.00
- 164.00 to 246.00
- 246.00 to 10000.00

RTIMP DWG Title: A1P3-SOILPILES-TU-1PT-MC
Project: 20720-PSP-0001
Name: Area 1, Phase III Certification Sampling
Prepared by: David Allen
File: A1P3_SOILPILES_TU_1PT_MC.srf
Date Prepared: 10/2/00

000060

3730

POST EXCAVATION
DEBRIS REMOVAL AREA
HPGe DATA
COLLECTED FEBRUARY 2001

A1PIII DEBRIS REMOVAL AREA HPGe DATA

Map ID	Sample ID	Northing	Easting	Det. Height	Ra-226 (pCi/g)	Th-232 (pCi/g)	Tot. U (ppm)
1	A1P3-P1-SW3-1-G	482756	1346180	100cm	1.124	0.897	14.5
2	A1P3-P1-SW3-2-G	482720	1346177	100cm	1.044	0.819	11.8
3	A1P3-P1-SW3-3-G	482685	1346173	100cm	1.083	0.872	9.66
4	A1P3-P1-SW3-4-G	482680	1346143	100cm	0.804	0.749	9.27
5	A1P3-P1-SW3-5-G	482713	1346143	100cm	0.887	0.728	13.1
6	A1P3-P1-SW3-6-G	482746	1346147	100cm	0.934	0.81	10.1
7	A1P3-P1-SW3-7-G	482780	1346149	100cm	0.932	0.891	16.1
8	A1P3-P1-SW3-8-G	482761	1346119	100cm	1.038	0.824	14.4
9	A1P3-P1-SW3-9-G	482728	1346118	100cm	1.233	0.756	6.12
10	A1P3-P1-SW3-10-G	482696	1346116	100cm	1.079	0.791	10.2
11	A1P3-P1-SW3-11-G	482778	1346095	100cm	0.804	0.716	12.5
12	A1P3-P1-SW3-12-G	482745	1346094	100cm	0.989	0.757	7.66
13	A1P3-P1-SW3-13-G	482718	1346093	100cm	0.82	0.602	8.15
14	A1P3-P1-SW3-14-G	482707	1346063	100cm	0.817	0.675	14.1
15	A1P3-P1-SW3-15-G	482778	1346064	100cm	0.721	0.662	13
16	A1P3-P1-SW3-16-G	482740	1346067	100cm	0.825	0.738	9.42
16	A1P3-P1-SW3-16-G-D	482740	1346067	100cm	0.862	0.704	7.08
17	A1P3-P1-SW3-17-G	482730	1346038	100cm	0.801	0.638	10.6
18	A1P3-P1-SW3-18-G	482721	1346001	100cm	0.799	0.53	9.34
19	A1P3-P1-SW3-19-G	482758	1346009	100cm	0.886	0.66	14.7
20	A1P3-P1-SW3-20-G	482782	1345982	100cm	1.021	0.615	9.99
21	A1P3-P1-SW3-21-G	482795	1346016	100cm	0.952	0.592	9.5
22	A1P3-P1-SW3-22-G	482813	1346050	100cm	1.231	0.728	10
22	A1P3-P1-SW3-22-G-D	482813	1346050	100cm	1.193	0.764	8.2

A1P3
Excavation Area 3

N

Radon & Moisture Corrected Radium-226

HPGe Det #: 30716, 31144, & 31265
Field of View to scale
Measurement Dates: 02/8/01 through 02/20/01

Radium-226 (pCi/g)
- 0.00 to 1.70
- 1.70 to 3.40
- 3.40 to 5.10
- 5.10 to 1000.00

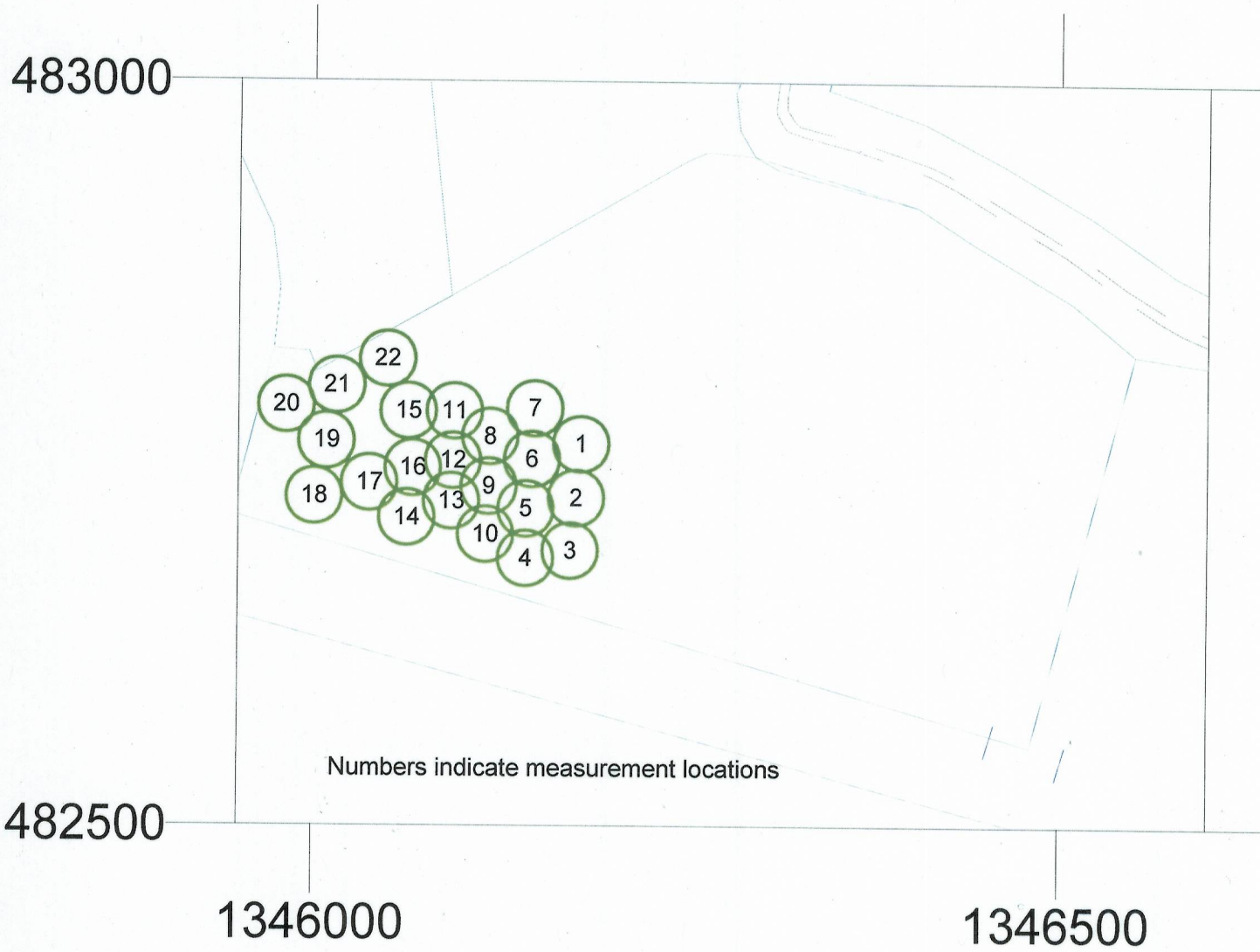
RTIMP DWG Title: A1P3-SW-RA-EXCAV-1PT-MC
Project: 20720-PSP-0001
Name: Area 1, Phase III Certification Sampling
Prepared by: David Allen
File: A1P3_SW_RA_EXCAV_1PT_MC.srf
Date Prepared: 05/8/01

A1P3
Excavation Area 3

N

Moisture Corrected Thorium-232

HPGe Det #: 30716, 31144, & 31265
Field of View to scale
Measurement Dates: 02/8/01 through 02/20/01



Thorium-232 (pCi/g)
- 0.00 to 1.50
- 1.50 to 3.00
- 3.00 to 4.50
- 4.50 to 1000.00

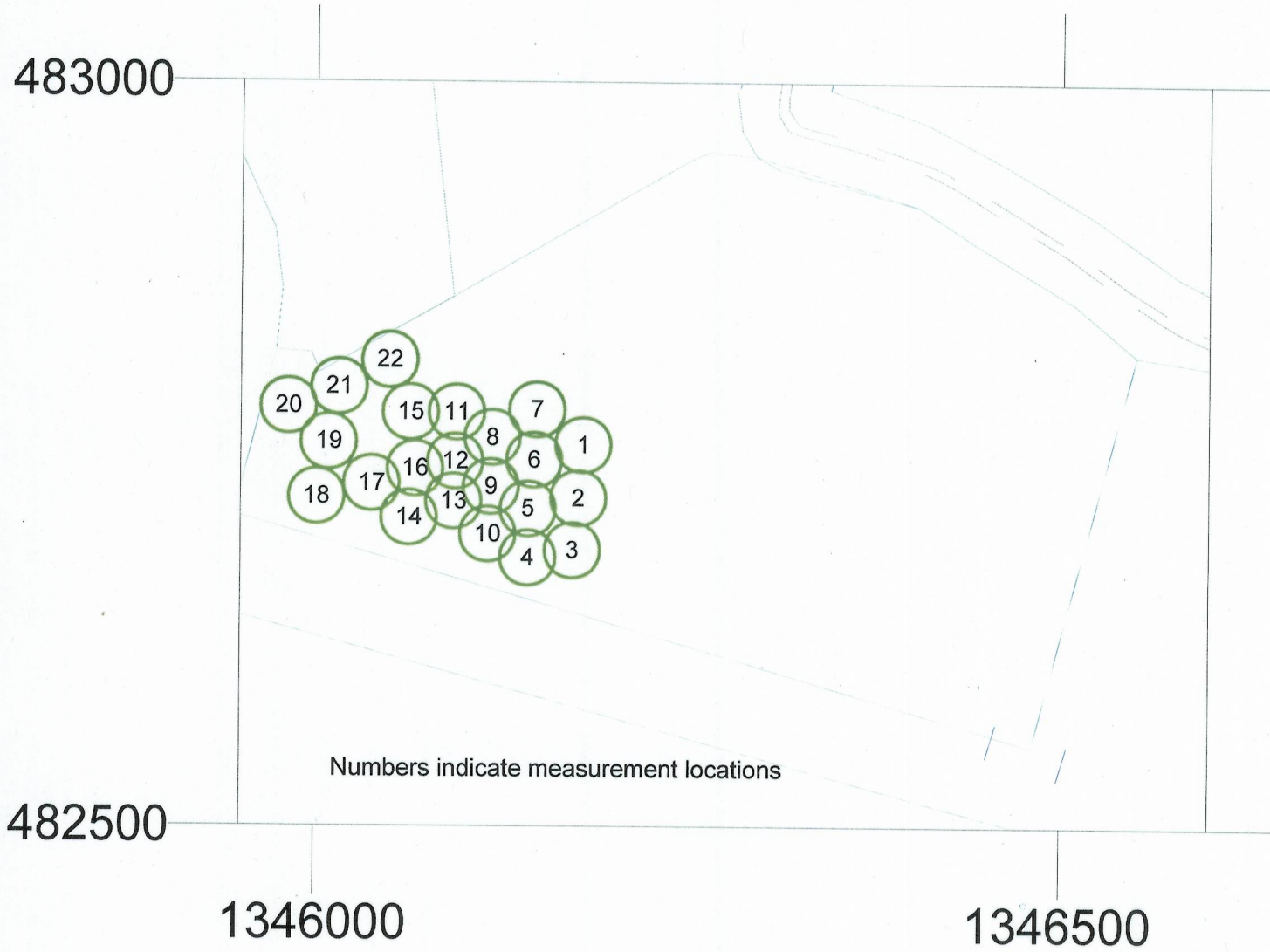
RTIMP DWG Title: A1P3-SW-TH-EXCAV-1PT-MC
Project: 20720-PSP-0001
Name: Area 1, Phase III Certification Sampling
Prepared by: David Allen
File: A1P3_SW_TH_EXCAV_1PT_MC.srf
Date Prepared: 05/8/01

A1P3
Excavation Area 3

N

Moisture Corrected Total Uranium

HPGe Det #: 30716, 31144, & 31265
Field of View to scale
Measurement Dates: 02/8/01 through 02/20/01



Total Uranium (ppm)
- 0.00 to 82.00
- 82.00 to 164.00
- 164.00 to 246.00
- 246.00 to 1000.00

RTIMP DWG Title: A1P3-SW-TU-EXCAV-1PT-MC
Project: 20720-PSP-0001
Name: Area 1, Phase III Certification Sampling
Prepared by: David Allen
File: A1P3_SW_TU_EXCAV_1PT_MC.srf
Date Prepared: 05/8/01

APPENDIX B

VARIANCES/FIELD CHANGE NOTICES FOR A1PIII CERTIFICATION SAMPLING PSP

VARIANCE LOG FOR PROJECT SPECIFIC PLAN
FOR CERTIFICATION SAMPLING OF AREA 1, PHASE III

Variance No.	Variance Date	Variance Description	Significant? (Y or N)	Date Signed	Date Distributed	EPA/OEPA Approval
20720-PSP-0001-1	10/28/99	1. Add the area along the southern boundary of A1PIII to the scope of the supplemental mobile NaI scan. 2. Add the two suspected fill area (NE and SW corners of A1PIII) to the scope of the supplemental scan - will be scanned by HPGe due to dense vegetation. 3. Collect HPGe readings at each of the small soil/concrete debris piles along the southern boundary of A1PIII.	Y	11/15/99	11/16/99	11/19/99
20720-PSP-0001-2	3-29-00	Rinsates and container blanks will be listed on a separate chain of custody form. Also, the rinsates should include the CU number in the ID.	N	3-30-00	4-3-00	NA
20720-PSP-0001-3	4-25-00	Added remediation areas A1P4 and A1P5 to the scope of the real-time scanning effort.	Y	4-25-00	4-28-00	5-9-00
20720-PSP-0001-4	1-8-01	1. Directs real-time monitoring and PID measurements for excavation locations in the southwest fill area. 2. Defines the boundaries of CU A1P3-C-26 and directs sampling and analysis of samples collected in the CU and other excavation locations.	Y	1-9-01	1-17-01	1-18-01

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VARIANCE / FIELD CHANGE NOTICE	V/F 20720-PSP-0001-2
WBS NO.: 20720-PSP-0001, Revision 1	Page 1 of 1
PROJECT TITLE: Project Specific Plan for Area 1, Phase III Certification Sampling	Date 3/29/00

VARIANCE / FIELD CHANGE NOTICE (Include justification):

Field Change Notice:
Rinsates/container blanks will be listed on a separate chain-of-custody form. Also, the rinsates/container blanks will include the CU number in the identification number. They will be identified as A1P3-C-CU-X#-analyte. For instance, the rinsate collected for CU 06 will be identified as A1P3-C-06-X1-R.

Justification:
Listing the rinsates/container blanks on a separate chain-of-custody form will simplify the analyses by keeping each media (soil and water) together. Including the CU number in the ID scheme of rinsates/container blanks will tie those samples back to the CU that they represent.

REQUESTED BY: Audrey Hannum Date: March 29, 2000

X IF REQD	VARIANCE/FCN APPROVAL	DATE	X IF REQD	VARIANCE/FCN APPROVAL	DATE
X RK	QUALITY ASSURANCE Joseph Thompson	4-3-00	X	PROJECT MANAGER	3-29-00
	DATA QUALITY MANAGEMENT		X	Characterization Lead	3-29-00
X	~~FUNCTIONAL SUPPORT~~	03/30/00		RTIMP Manager	
	OTHER		X	Sampling Manager Tom Buckley	3/30/00

VARIANCE/FCN APPROVED [X]YES [ ]NO

REVISION REQUIRED: [ ]YES [x]NO

DISTRIBUTION

PROJECT MANAGER:	DOCUMENT CONTROL:	OTHER:
QUALITY ASSURANCE:	OTHER:	OTHER:
FIELD MANAGER:	OTHER:	OTHER:

ORIGINAL

VARIANCE / FIELD CHANGE NOTICE	3730	V/F 20720-PSP-0009-3
WBS NO.: ECDC# 20720-PSP-0001, Rev. 1		Page 1 of 2
PROJECT TITLE: PSP for Area 1, Phase III Certification Sampling, Rev. 1. Feb. 2000.		Date 04/25/2000

VARIANCE / FIELD CHANGE NOTICE (Include justification):

Field Change Notice:

The purpose of this variance is document the addition of two areas to be scanned. This scanning will occur in the areas designated as A1PIV and A1PV as shown on the attached Figure. The real-time scanning will be conducted according to the traditional precertification scan protocol. Detectors should be used as described in Section 2.0 of the PSP. Additional measures for scanning the cleared paths, as discussed in the PSP, will not apply to this V/FCN.

JUSTIFICATION:
These areas are now available for precertification.

ORIGINAL

Requested By: Alex Duarte Date: 04/25/2000

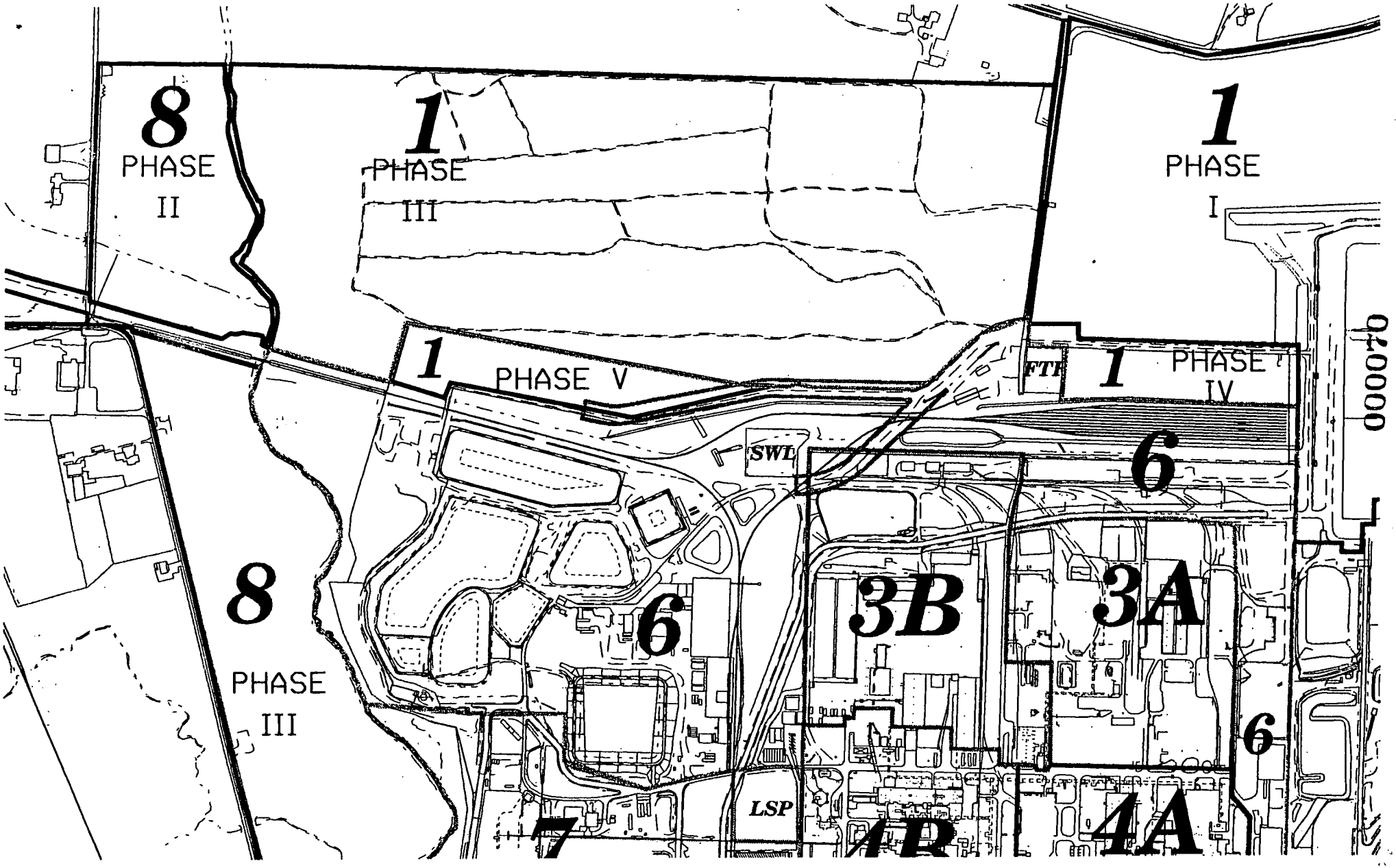
X IF REQD	VARIANCE/FCN APPROVAL	DATE	X IF REQD	VARIANCE/FCN APPROVAL	DATE
X	QUALITY ASSURANCE	4/25/00	X	PROJECT MANAGER	4/25/00
	DATA QUALITY MANAGEMENT		X	CHARACTERIZATION LEAD Jenny Vance for Alex Duarte	04/25/00
	ANALYTICAL CUSTOMER SUPPORT		X	REAL TIME MANAGER	4/25/00
	OTHER			WASTE ACCEPTANCE ORGANIZATION	

VARIANCE/FCN APPROVED [X]YES [ ]NO

REVISION REQUIRED: [ ]YES [x]NO

DISTRIBUTION

PROJECT MANAGER:	DOCUMENT CONTROL: Esther Dittmer	OTHER:
QUALITY ASSURANCE:	OTHER:	OTHER:
FIELD MANAGER:	OTHER:	OTHER: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PHASE
II
1
PHASE
III
1
PHASE
I
1
PHASE V
FTP
1
PHASE
IV
SWL
6
8
PHASE
III
6
3B
3A
6
LSP
7
4B
4A

OhioEPA
State of Ohio Environmental Protection Agency
Southwest District Office
401 East Fifth Street
Dayton, Ohio 45402-2911
(513) 285-6357
FAX (513) 285-6249

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To JD Chiou	From	
Co./Dept.	Co.	
Phone #	Phone #	
Fax # X 5131	Fax #	

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MEMO

TO: J.D. Chiou

FROM: Michelle Waller MW

DATE: January 17, 2001

SUBJECT: **V/FCN 20720-PSP-0001-4** for *Project Specific Plan for Certification Sampling of Area1 Phase III*

This V/FCN directs monitoring in the southwest excavation location. It also defines CU A1P3-C-26 and directs the sampling and analysis of this and two other excavation areas. Ohio EPA approves this V/FCN.

Q:\temp\ou5\A1PIII\VCN4.wpd

Printed on recycled paper

VARIANCE / FIELD CHANGE NOTICE

V/F 20720-PSP-0001-~~3~~4 JV 01/09/01

WBS NO.: ECDC# 20720-PSP-0001, Rev. 1

PROJECT TITLE: Project Specific Plan for Area 1, Phase III Certification Sampling, Rev. 1. Feb. 2000.

Date 01/08/01

3730

VARIANCE / FIELD CHANGE NOTICE (Include justification):

Field Change Notice:
As discussed in section 2.0 of the CDL, non-native debris will be removed prior to final certification of Area 1, Phase III, Part One. Details of the remedial actions are described in the Implementation Plan for Paddys Run Debris Removal/Bank Stabilization Area 1, Phase III (20720-PL-0001). Within A1PIII, some concrete debris is present at several locations. The majority of the concrete debris is located on the southwest corner of A1PIII along the Paddys Run stream bank, however, additional debris is found in the northeast corner and along the southern boundary.

Further sampling and real-time monitoring will be performed in the southwest fill area after excavation but will not be required within the northeast fill area and along the southern fence line since the debris is at surface and the surface soil has passed certification.

In the southwest fill area (Figure 1), HPGe monitoring will be conducted over the debris excavation footprints (excavation locations 1, 2, 3, 4 and 5) once debris is removed. Real-time monitoring activities will be performed in accordance with guidelines discussed in Section 2.0 of the PSP. If HPGe monitoring identifies soil above FRL, post excavation samples will be collected prior to backfill and grading.

Once the debris in the southwest fill area is removed and the area backfilled and graded, the contiguous excavation area (encompassing excavation locations 1, 2 and 3) will be considered one CU designated as A1P3-C-26. The CU is divided into 16 sub-CUs, with sample locations selected per the SEP. Twelve of the sixteen locations will be sampled at the surface (0"-6"). The four archive locations will be located in the field and not sampled unless deemed necessary at a later date. In addition, one surface sample will be collected from excavation location 4 and 5. The samples will be collected and analyzed for the same constituents as the certification samples. The results of these excavation location 4 and 5 samples will not be used for statistical analysis to determine the passing or failure of CU A1P3-C-26. However, if any of the analytes exceed FRL in excavation area 4 and/or 5, additional excavation will be performed along with a post-excavation sample. The CU boundary and the excavation areas are depicted in Figure 2. The sample locations are depicted in the attached Figure 3.

Soil samples will be collected in accordance with Section 3.3 of the PSP. Sampling and analytical requirements are listed in Table 4-1 of the PSP. Samples will be identified according to the scheme detailed in Section 3.3.3 of the PSP and will be analyzed for TAL A1P3PRECERT-B (Table 4-3 of the PSP) which includes beryllium, radium-226, radium-228, thorium-228, thorium, 232, and total uranium. The attached Table 1 lists the pertinent information for the physical samples to be collected.

If further excavations are necessary to facilitate sub-grade debris removal, HPGe monitoring, and post-excavation sampling will occur. The post-excavation samples will collected and processed in the same manner as those collected from excavations locations 4 and 5.

JUSTIFICATION:
Post excavation real-time monitoring and sample analysis will ensure that the certification criteria are met.

Requested By: Mike Rolfes Date: 01/08/01

X IF REQD	VARIANCE/FCN APPROVAL	DATE	X IF REQD	VARIANCE/FCN APPROVAL	DATE
X	QUALITY ASSURANCE R. Gupke FOR F. Thompson	1/9/01	X	PROJECT MANAGER Thom L Gt	1-8-01
	DATA QUALITY MANAGEMENT		X	CHARACTERIZATION LEAD Jenny Vance for M. Rolfes 1/8/0	
X'	ANALYTICAL CUSTOMER SUPPORT Denise Arnold	1/8/01	X	REAL TIME MANAGER Joan Whitt	1/8/01
X	FIELD MANAGER Tom Bellinger	1/8/01		WASTE ACCEPTANCE ORGANIZATION	

VARIANCE/FCN APPROVED [X]YES [ ]NO

REVISION REQUIRED: [ ]YES [x]NO

DISTRIBUTION

PROJECT MANAGER:	DOCUMENT CONTROL:	OTHER:
QUALITY ASSURANCE:	OTHER:	OTHER:
FIELD MANAGER	OTHER:	OTHER:

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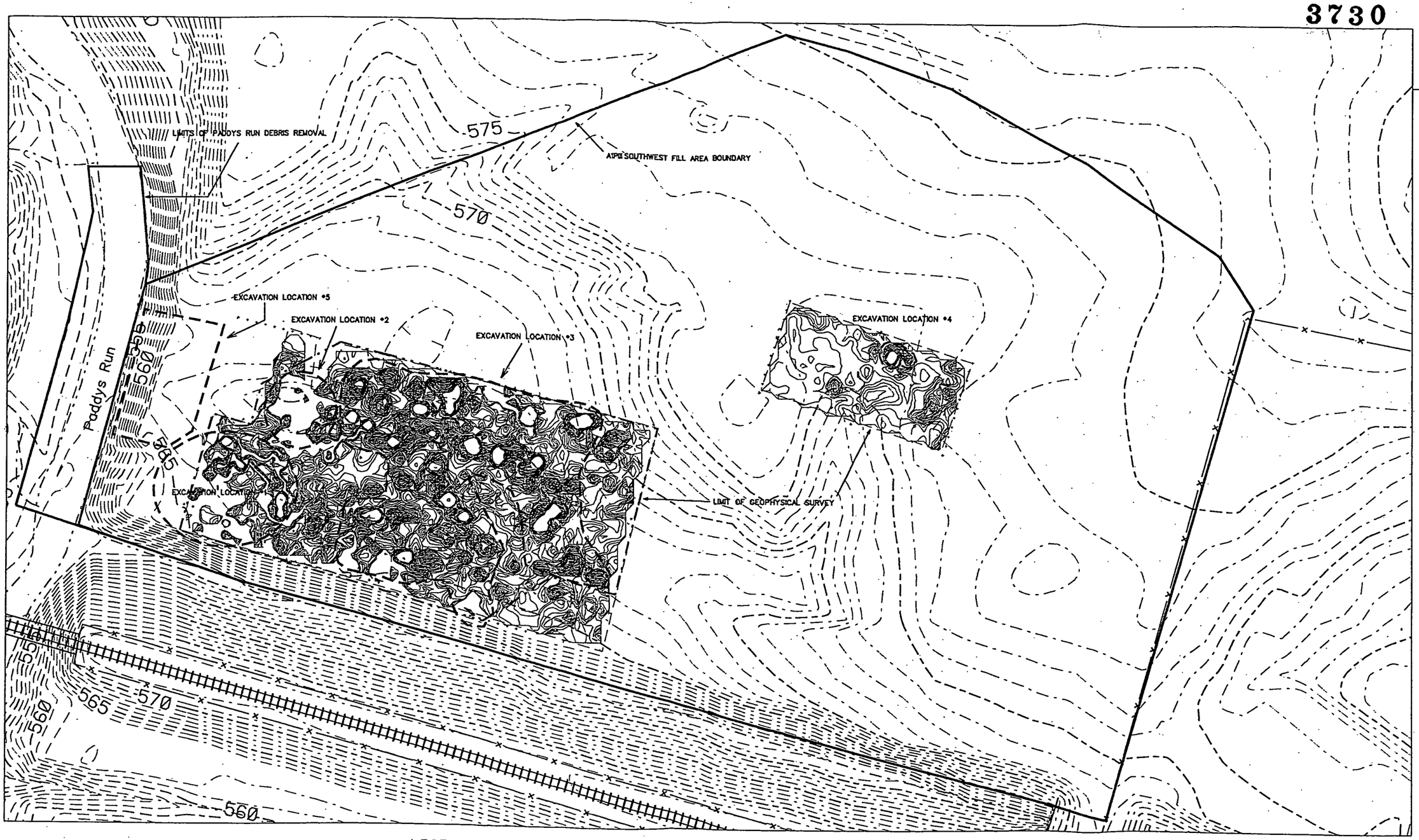
ORIGINAL

TABLE 1

SAMPLE IDENTIFICATION AND LOCATION

CU or Excavation Area	Sub-CU	Sample ID	Easting	Northing	Analysis
A1P3-C-26	1	A1P3-C-26-1RM	482698	1346025	TAL B
A1P3-C-26	2	A1P3-C-26-2RM	482713	1346064	TAL B
A1P3-C-26	3	A1P3-C-26-3RM	482706	1346110	TAL B
A1P3-C-26	3	A1P3-C-26-3RM-D	482706	1346110	TAL B
A1P3-C-26	4	A1P3-C-26-4RM	482692	1346146	TAL B
A1P3-C-26	5	A1P3-C-26-5RM	482680	1346181	TAL B
A1P3-C-26	6A	A1P3-C-26-6V	482741	1346044	Archive
A1P3-C-26	7	A1P3-C-26-7RM	482746	1346083	TAL B
A1P3-C-26	8	A1P3-C-26-8RM	482730	1346104	TAL B
A1P3-C-26	9A	A1P3-C-26-9V	482721	1346142	Archive
A1P3-C-26	10	A1P3-C-26-10RM	482728	1346184	TAL B
A1P3-C-26	11A	A1P3-C-26-11V	482690	1346210	Archive
A1P3-C-26	12	A1P3-C-26-12RM	482789	1346091	TAL B
A1P3-C-26	13	A1P3-C-26-13RM	482778	1346127	TAL B
A1P3-C-26	14	A1P3-C-26-14RM	482769	1346156	TAL B
A1P3-C-26	15A	A1P3-C-26-15V	482753	1346177	Archive
A1P3-C-26	16	A1P3-C-26-16RM	482738	1346218	TAL B
Excavation Area 4	1	A1P3-EX4-1RM	482797	1346372	TAL B
Excavation Area 5	1	A1P3-EX5-1RM	482790	1345996	TAL B



LEGEND:

CU A1P3-C-26 BOUNDARY

EXCAVATION BOUNDARIES

PROJECT AREA BOUNDARIES

SCALE

50 25 0 50 FEET

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FIGURE 1. PADDYS RUN AND A1PIII SOUTHWEST FILL AREAS

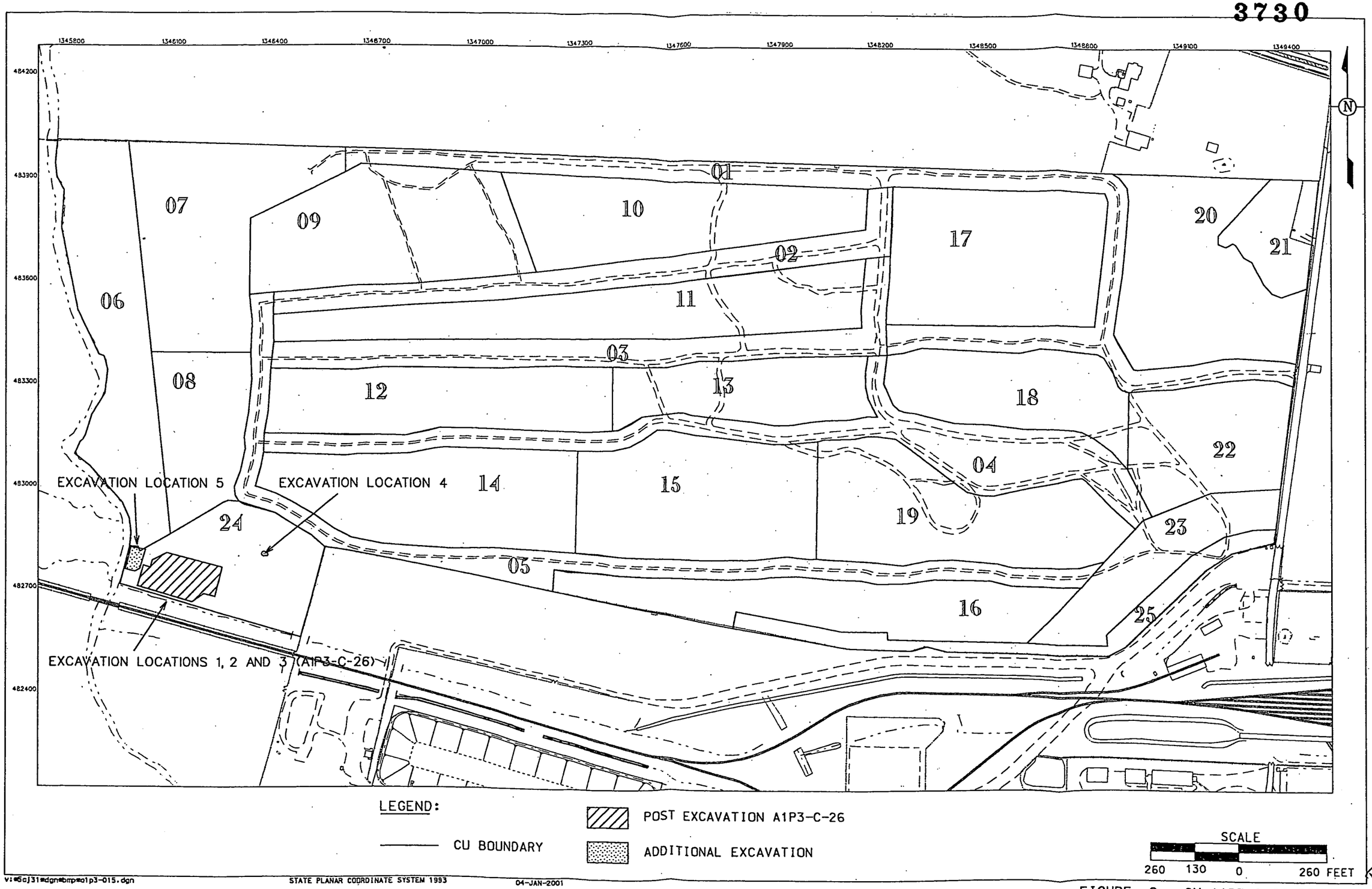

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FIGURE 2. CU A1P3-C-26 BOUNDARY

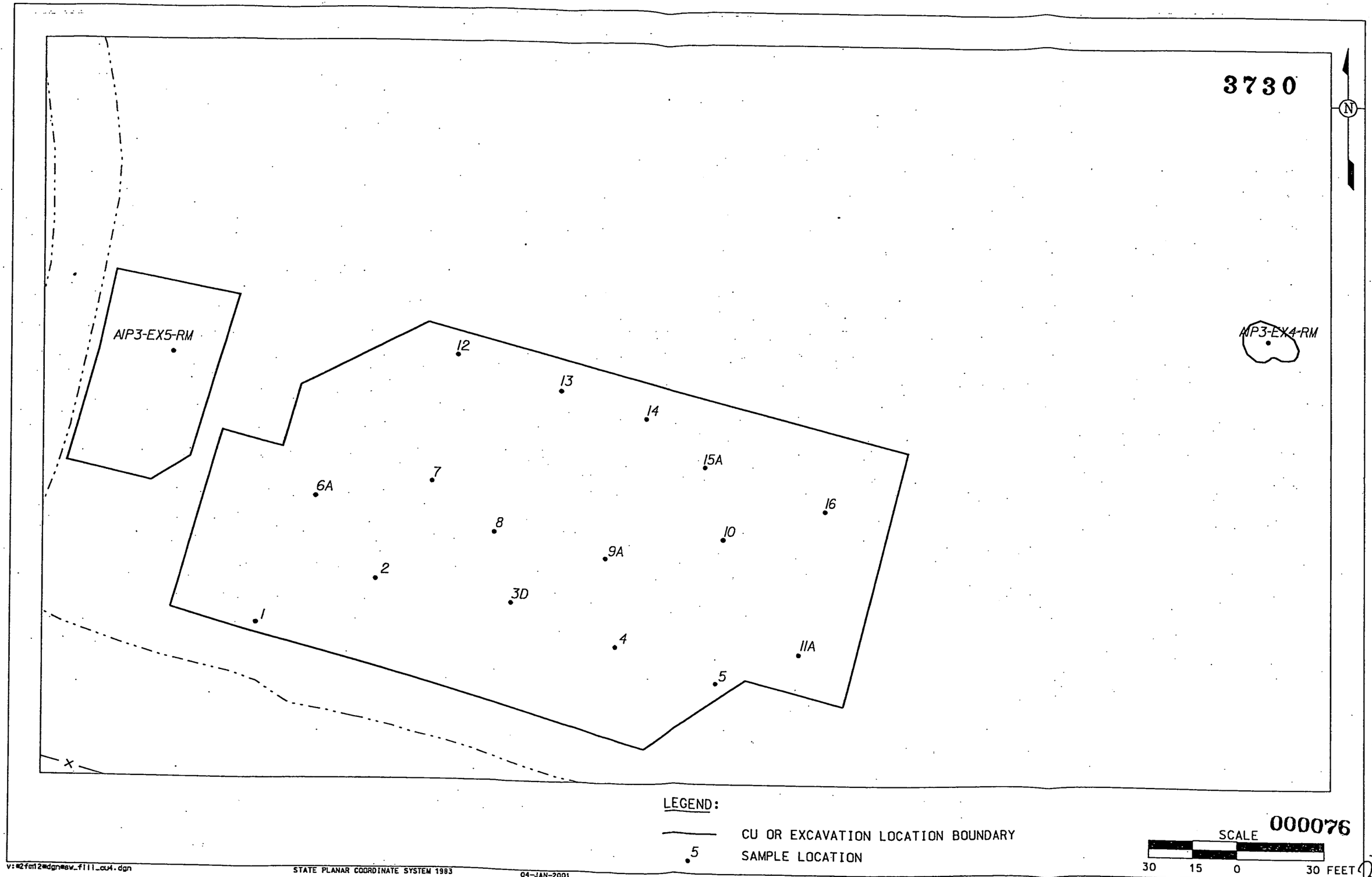

FIGURE 3. CU SAMPLE POINTS FOR A1P3-C-26 AND EXCAVATION LOCATIONS 4 AND 5

APPENDIX C

CERTIFICATION SAMPLES, ANALYTICAL RESULTS AND STATISTICS TABLES

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Table C-2 Certification Statistics for CU 01
Table C-3 Certification Statistics for CU 02
Table C-4 Certification Statistics for CU 03
Table C-5 Certification Statistics for CU 04
Table C-6 Certification Statistics for CU 05
Table C-7 Certification Statistics for CU 06
Table C-8 Certification Statistics for CU 07
Table C-9 Certification Statistics for CU 08
Table C-10 Certification Statistics for CU 09
Table C-11 Certification Statistics for CU 10
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Table C-15 Certification Statistics for CU 14
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Table C-17 Certification Statistics for CU 16
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Table C-19 Certification Statistics for CU 18
Table C-20 Certification Statistics for CU 19
Table C-21 Certification Statistics for CU 20
Table C-22 Certification Statistics for CU 21
Table C-23 Certification Statistics for CU 22
Table C-24 Certification Statistics for CU 23
Table C-25 Certification Statistics for CU 24
Table C-26 Certification Statistics for CU 25
Table C-27 Certification Statistics for CU 26
Table C-28 Area 1, Phase III Debris Excavation Samples

TABLE C-1
AREA 1, PHASE III, PART ONE CERTIFICATION DATA

CU	Sample ID	Sample Date	Depth Top	Depth Bottom	East 83	North 83	Parameter	Result	Units	Val. Qual.	QA Type
A1P3-C-01	A1P3-C-01-11R	5/8/00	0	0.5	1348262	483472.9	Moisture Content	28	PERCENT	NV	NORMAL
A1P3-C-01	A1P3-C-01-11R	5/8/00	0	0.5	1348262	483472.9	Radium-226	1.221	pCi/g dry	-	NORMAL
A1P3-C-01	A1P3-C-01-11R	5/8/00	0	0.5	1348262	483472.9	Radium-228	1.009	pCi/g dry	-	NORMAL
A1P3-C-01	A1P3-C-01-11R	5/8/00	0	0.5	1348262	483472.9	Thorium-228	1.008	pCi/g dry	-	NORMAL
A1P3-C-01	A1P3-C-01-11R	5/8/00	0	0.5	1348262	483472.9	Uranium, Total	17.268	ug/g dry	-	NORMAL
A1P3-C-01	A1P3-C-01-11R	5/8/00	0	0.5	1348262	483472.9	Thorium-232	1.009	pCi/g dry	-	NORMAL
A1P3-C-01	A1P3-C-01-12R	5/8/00	0	0.5	1348548	483447.5	Moisture Content	20.9	PERCENT	NV	NORMAL
A1P3-C-01	A1P3-C-01-12R	5/8/00	0	0.5	1348548	483447.5	Radium-228	1.044	pCi/g dry	-	NORMAL
A1P3-C-01	A1P3-C-01-12R	5/8/00	0	0.5	1348548	483447.5	Thorium-228	1.006	pCi/g dry	-	NORMAL
A1P3-C-01	A1P3-C-01-12R	5/8/00	0	0.5	1348548	483447.5	Uranium, Total	13.459	ug/g dry	-	NORMAL
A1P3-C-01	A1P3-C-01-12R	5/8/00	0	0.5	1348548	483447.5	Thorium-232	1.044	pCi/g dry	-	NORMAL
A1P3-C-01	A1P3-C-01-12R	5/8/00	0	0.5	1348548	483447.5	Radium-226	1.242	pCi/g dry	-	NORMAL
A1P3-C-01	A1P3-C-01-13R	5/8/00	0	0.5	1348761	483421.3	Moisture Content	23.6	PERCENT	NV	NORMAL
A1P3-C-01	A1P3-C-01-13R	5/8/00	0	0.5	1348761	483421.3	Uranium, Total	13.113	ug/g dry	-	NORMAL
A1P3-C-01	A1P3-C-01-13R	5/8/00	0	0.5	1348761	483421.3	Thorium-232	1.035	pCi/g dry	-	NORMAL
A1P3-C-01	A1P3-C-01-13R	5/8/00	0	0.5	1348761	483421.3	Radium-226	1.343	pCi/g dry	-	NORMAL
A1P3-C-01	A1P3-C-01-13R	5/8/00	0	0.5	1348761	483421.3	Thorium-228	1.028	pCi/g dry	-	NORMAL
A1P3-C-01	A1P3-C-01-13R	5/8/00	0	0.5	1348761	483421.3	Radium-228	1.035	pCi/g dry	-	NORMAL
A1P3-C-01	A1P3-C-01-14R	5/8/00	0	0.5	1348923	483328.4	Moisture Content	23.3	PERCENT	NV	NORMAL
A1P3-C-01	A1P3-C-01-14R	5/8/00	0	0.5	1348923	483328.4	Thorium-228	1.067	pCi/g dry	-	NORMAL
A1P3-C-01	A1P3-C-01-14R	5/8/00	0	0.5	1348923	483328.4	Uranium, Total	3.697	ug/g dry	J	NORMAL
A1P3-C-01	A1P3-C-01-14R	5/8/00	0	0.5	1348923	483328.4	Thorium-232	1.117	pCi/g dry	-	NORMAL
A1P3-C-01	A1P3-C-01-14R	5/8/00	0	0.5	1348923	483328.4	Radium-226	1.167	pCi/g dry	-	NORMAL
A1P3-C-01	A1P3-C-01-14R	5/8/00	0	0.5	1348923	483328.4	Radium-228	1.117	pCi/g dry	-	NORMAL
A1P3-C-01	A1P3-C-01-16R	5/8/00	0	0.5	1349254	483344.9	Moisture Content	22.6	PERCENT	NV	NORMAL
A1P3-C-01	A1P3-C-01-16R	5/8/00	0	0.5	1349254	483344.9	Thorium-228	1.111	pCi/g dry	-	NORMAL
A1P3-C-01	A1P3-C-01-16R	5/8/00	0	0.5	1349254	483344.9	Thorium-232	1.12	pCi/g dry	-	NORMAL
A1P3-C-01	A1P3-C-01-16R	5/8/00	0	0.5	1349254	483344.9	Uranium, Total	9.687	ug/g dry	-	NORMAL
A1P3-C-01	A1P3-C-01-16R	5/8/00	0	0.5	1349254	483344.9	Radium-228	1.12	pCi/g dry	-	NORMAL
A1P3-C-01	A1P3-C-01-16R	5/8/00	0	0.5	1349254	483344.9	Radium-226	1.325	pCi/g dry	-	NORMAL
A1P3-C-01	A1P3-C-01-2R	5/8/00	0	0.5	1347149	483929.1	Moisture Content	14.9	PERCENT	NV	NORMAL
A1P3-C-01	A1P3-C-01-2R	5/8/00	0	0.5	1347149	483929.1	Radium-226	1.238	pCi/g dry	-	NORMAL
A1P3-C-01	A1P3-C-01-2R	5/8/00	0	0.5	1347149	483929.1	Radium-228	0.77	pCi/g dry	-	NORMAL
A1P3-C-01	A1P3-C-01-2R	5/8/00	0	0.5	1347149	483929.1	Thorium-228	0.739	pCi/g dry	-	NORMAL
A1P3-C-01	A1P3-C-01-2R	5/8/00	0	0.5	1347149	483929.1	Uranium, Total	3.717	ug/g dry	J	NORMAL
A1P3-C-01	A1P3-C-01-2R	5/8/00	0	0.5	1347149	483929.1	Thorium-232	0.77	pCi/g dry	-	NORMAL
A1P3-C-01	A1P3-C-01-3R	5/8/00	0	0.5	1347255	483914.4	Moisture Content	22.8	PERCENT	NV	NORMAL
A1P3-C-01	A1P3-C-01-3R	5/8/00	0	0.5	1347255	483914.4	Radium-228	0.921	pCi/g dry	-	NORMAL
A1P3-C-01	A1P3-C-01-3R	5/8/00	0	0.5	1347255	483914.4	Thorium-228	0.891	pCi/g dry	-	NORMAL
A1P3-C-01	A1P3-C-01-3R	5/8/00	0	0.5	1347255	483914.4	Uranium, Total	5.448	ug/g dry	-	NORMAL
A1P3-C-01	A1P3-C-01-3R	5/8/00	0	0.5	1347255	483914.4	Thorium-232	0.921	pCi/g dry	-	NORMAL

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TABLE C-1
AREA 1, PHASE III, PART ONE CERTIFICATION DATA

CU	Sample ID	Sample Date	Depth Top	Depth Bottom	East 83	North 83	Parameter	Result	Units	Val. Qual.	QA Type
A1P3-C-01	A1P3-C-01-3R	5/8/00	0	0.5	1347255	483914.4	Radium-226	1.2	pCi/g dry	-	NORMAL
A1P3-C-01	A1P3-C-01-4R	5/8/00	0	0.5	1347668	483901.6	Moisture Content	17.8	PERCENT	NV	NORMAL
A1P3-C-01	A1P3-C-01-4R	5/8/00	0	0.5	1347668	483901.6	Uranium, Total	8.356	ug/g dry	-	NORMAL
A1P3-C-01	A1P3-C-01-4R	5/8/00	0	0.5	1347668	483901.6	Thorium-232	1.05	pCi/g dry	-	NORMAL
A1P3-C-01	A1P3-C-01-4R	5/8/00	0	0.5	1347668	483901.6	Radium-226	1.306	pCi/g dry	-	NORMAL
A1P3-C-01	A1P3-C-01-4R	5/8/00	0	0.5	1347668	483901.6	Thorium-228	1.039	pCi/g dry	-	NORMAL
A1P3-C-01	A1P3-C-01-4R	5/8/00	0	0.5	1347668	483901.6	Radium-228	1.05	pCi/g dry	-	NORMAL
A1P3-C-01	A1P3-C-01-5R	5/8/00	0	0.5	1347819	483931.1	Moisture Content	17.9	PERCENT	NV	NORMAL
A1P3-C-01	A1P3-C-01-5R	5/8/00	0	0.5	1347819	483931.1	Thorium-228	0.991	pCi/g dry	-	NORMAL
A1P3-C-01	A1P3-C-01-5R	5/8/00	0	0.5	1347819	483931.1	Uranium, Total	6.921	ug/g dry	-	NORMAL
A1P3-C-01	A1P3-C-01-5R	5/8/00	0	0.5	1347819	483931.1	Thorium-232	1.016	pCi/g dry	-	NORMAL
A1P3-C-01	A1P3-C-01-5R	5/8/00	0	0.5	1347819	483931.1	Radium-226	1.236	pCi/g dry	-	NORMAL
A1P3-C-01	A1P3-C-01-5R	5/8/00	0	0.5	1347819	483931.1	Radium-228	1.016	pCi/g dry	-	NORMAL
A1P3-C-01	A1P3-C-01-7R	5/8/00	0	0.5	1348329	483889.2	Moisture Content	22.9	PERCENT	NV	NORMAL
A1P3-C-01	A1P3-C-01-7R	5/8/00	0	0.5	1348329	483889.2	Thorium-228	0.832	pCi/g dry	-	NORMAL
A1P3-C-01	A1P3-C-01-7R	5/8/00	0	0.5	1348329	483889.2	Thorium-232	0.867	pCi/g dry	-	NORMAL
A1P3-C-01	A1P3-C-01-7R	5/8/00	0	0.5	1348329	483889.2	Uranium, Total	11.562	ug/g dry	-	NORMAL
A1P3-C-01	A1P3-C-01-7R	5/8/00	0	0.5	1348329	483889.2	Radium-228	0.867	pCi/g dry	-	NORMAL
A1P3-C-01	A1P3-C-01-7R	5/8/00	0	0.5	1348329	483889.2	Radium-226	1.061	pCi/g dry	-	NORMAL
A1P3-C-01	A1P3-C-01-7R-D	5/8/00	0	0.5	1348329	483889.2	Moisture Content	25.6	PERCENT	NV	DUPLICATE
A1P3-C-01	A1P3-C-01-7R-D	5/8/00	0	0.5	1348329	483889.2	Radium-228	0.918	pCi/g dry	-	DUPLICATE
A1P3-C-01	A1P3-C-01-7R-D	5/8/00	0	0.5	1348329	483889.2	Thorium-228	0.903	pCi/g dry	-	DUPLICATE
A1P3-C-01	A1P3-C-01-7R-D	5/8/00	0	0.5	1348329	483889.2	Uranium, Total	9.319	ug/g dry	-	DUPLICATE
A1P3-C-01	A1P3-C-01-7R-D	5/8/00	0	0.5	1348329	483889.2	Thorium-232	0.918	pCi/g dry	-	DUPLICATE
A1P3-C-01	A1P3-C-01-7R-D	5/8/00	0	0.5	1348329	483889.2	Radium-226	1.001	pCi/g dry	-	DUPLICATE
A1P3-C-01	A1P3-C-01-8R	5/8/00	0	0.5	1348750	483872.7	Moisture Content	21.1	PERCENT	NV	NORMAL
A1P3-C-01	A1P3-C-01-8R	5/8/00	0	0.5	1348750	483872.7	Uranium, Total	7.021	ug/g dry	-	NORMAL
A1P3-C-01	A1P3-C-01-8R	5/8/00	0	0.5	1348750	483872.7	Thorium-232	1.092	pCi/g dry	-	NORMAL
A1P3-C-01	A1P3-C-01-8R	5/8/00	0	0.5	1348750	483872.7	Radium-226	1.094	pCi/g dry	-	NORMAL
A1P3-C-01	A1P3-C-01-8R	5/8/00	0	0.5	1348750	483872.7	Thorium-228	1.102	pCi/g dry	-	NORMAL
A1P3-C-01	A1P3-C-01-8R	5/8/00	0	0.5	1348750	483872.7	Radium-228	1.092	pCi/g dry	-	NORMAL
A1P3-C-01	A1P3-C-01-9R	5/8/00	0	0.5	1348906	483704.5	Moisture Content	28.1	PERCENT	NV	NORMAL
A1P3-C-01	A1P3-C-01-9R	5/8/00	0	0.5	1348906	483704.5	Thorium-228	0.994	pCi/g dry	-	NORMAL
A1P3-C-01	A1P3-C-01-9R	5/8/00	0	0.5	1348906	483704.5	Uranium, Total	7.794	ug/g dry	-	NORMAL
A1P3-C-01	A1P3-C-01-9R	5/8/00	0	0.5	1348906	483704.5	Thorium-232	1.015	pCi/g dry	-	NORMAL
A1P3-C-01	A1P3-C-01-9R	5/8/00	0	0.5	1348906	483704.5	Radium-226	1.257	pCi/g dry	-	NORMAL
A1P3-C-01	A1P3-C-01-9R	5/8/00	0	0.5	1348906	483704.5	Radium-228	1.015	pCi/g dry	-	NORMAL
A1P3-C-02	A1P3-C-02-10R	5/3/00	0	0.5	1347591	483629	Moisture Content	24.6	PERCENT	NV	NORMAL
A1P3-C-02	A1P3-C-02-10R	5/3/00	0	0.5	1347591	483629	Thorium-228	1.034	pCi/g dry	-	NORMAL
A1P3-C-02	A1P3-C-02-10R	5/3/00	0	0.5	1347591	483629	Thorium-232	1.059	pCi/g dry	-	NORMAL
A1P3-C-02	A1P3-C-02-10R	5/3/00	0	0.5	1347591	483629	Uranium, Total	10.682	ug/g dry	J	NORMAL

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TABLE C-1
AREA 1, PHASE III, PART ONE CERTIFICATION DATA

CU	Sample ID	Sample Date	Depth Top	Depth Bottom	East 83	North 83	Parameter	Result	Units	Val. Qual.	QA Type
A1P3-C-02	A1P3-C-02-10R	5/3/00	0	0.5	1347591	483629	Radium-228	1.059	pCi/g dry	-	NORMAL
A1P3-C-02	A1P3-C-02-10R	5/3/00	0	0.5	1347591	483629	Radium-226	1.319	pCi/g dry	-	NORMAL
A1P3-C-02	A1P3-C-02-10R-D	5/3/00	0	0.5	1347591	483629	Moisture Content	25.5	PERCENT	NV	DUPLICATE
A1P3-C-02	A1P3-C-02-10R-D	5/3/00	0	0.5	1347591	483629	Radium-228	1.067	pCi/g dry	-	DUPLICATE
A1P3-C-02	A1P3-C-02-10R-D	5/3/00	0	0.5	1347591	483629	Thorium-228	1.058	pCi/g dry	-	DUPLICATE
A1P3-C-02	A1P3-C-02-10R-D	5/3/00	0	0.5	1347591	483629	Uranium, Total	6.496	ug/g dry	J	DUPLICATE
A1P3-C-02	A1P3-C-02-10R-D	5/3/00	0	0.5	1347591	483629	Thorium-232	1.067	pCi/g dry	-	DUPLICATE
A1P3-C-02	A1P3-C-02-10R-D	5/3/00	0	0.5	1347591	483629	Radium-226	1.274	pCi/g dry	-	DUPLICATE
A1P3-C-02	A1P3-C-02-11R	5/3/00	0	0.5	1347742	483676.8	Moisture Content	22.3	PERCENT	NV	NORMAL
A1P3-C-02	A1P3-C-02-11R	5/3/00	0	0.5	1347742	483676.8	Uranium, Total	7.233	ug/g dry	-	NORMAL
A1P3-C-02	A1P3-C-02-11R	5/3/00	0	0.5	1347742	483676.8	Thorium-232	1.044	pCi/g dry	-	NORMAL
A1P3-C-02	A1P3-C-02-11R	5/3/00	0	0.5	1347742	483676.8	Radium-226	1.184	pCi/g dry	-	NORMAL
A1P3-C-02	A1P3-C-02-11R	5/3/00	0	0.5	1347742	483676.8	Thorium-228	1.022	pCi/g dry	-	NORMAL
A1P3-C-02	A1P3-C-02-11R	5/3/00	0	0.5	1347742	483676.8	Radium-228	1.044	pCi/g dry	-	NORMAL
A1P3-C-02	A1P3-C-02-12R	5/3/00	0	0.5	1347818	483679	Moisture Content	22	PERCENT	NV	NORMAL
A1P3-C-02	A1P3-C-02-12R	5/3/00	0	0.5	1347818	483679	Thorium-228	0.93	pCi/g dry	-	NORMAL
A1P3-C-02	A1P3-C-02-12R	5/3/00	0	0.5	1347818	483679	Thorium-232	0.957	pCi/g dry	-	NORMAL
A1P3-C-02	A1P3-C-02-12R	5/3/00	0	0.5	1347818	483679	Radium-228	0.957	pCi/g dry	-	NORMAL
A1P3-C-02	A1P3-C-02-12R	5/3/00	0	0.5	1347818	483679	Radium-226	1.124	pCi/g dry	-	NORMAL
A1P3-C-02	A1P3-C-02-12R	5/3/00	0	0.5	1347818	483679	Uranium, Total	8.436	ug/g dry	-	NORMAL
A1P3-C-02	A1P3-C-02-13R	5/3/00	0	0.5	1347979	483659.6	Moisture Content	22.7	PERCENT	NV	NORMAL
A1P3-C-02	A1P3-C-02-13R	5/3/00	0	0.5	1347979	483659.6	Uranium, Total	7.225	ug/g dry	-	NORMAL
A1P3-C-02	A1P3-C-02-13R	5/3/00	0	0.5	1347979	483659.6	Thorium-232	0.856	pCi/g dry	-	NORMAL
A1P3-C-02	A1P3-C-02-13R	5/3/00	0	0.5	1347979	483659.6	Thorium-228	0.832	pCi/g dry	-	NORMAL
A1P3-C-02	A1P3-C-02-13R	5/3/00	0	0.5	1347979	483659.6	Radium-228	0.856	pCi/g dry	-	NORMAL
A1P3-C-02	A1P3-C-02-13R	5/3/00	0	0.5	1347979	483659.6	Radium-226	1.217	pCi/g dry	-	NORMAL
A1P3-C-02	A1P3-C-02-15R	5/3/00	0	0.5	1348220	483717	Moisture Content	24.1	PERCENT	NV	NORMAL
A1P3-C-02	A1P3-C-02-15R	5/3/00	0	0.5	1348220	483717	Radium-226	1.096	pCi/g dry	-	NORMAL
A1P3-C-02	A1P3-C-02-15R	5/3/00	0	0.5	1348220	483717	Thorium-228	0.954	pCi/g dry	-	NORMAL
A1P3-C-02	A1P3-C-02-15R	5/3/00	0	0.5	1348220	483717	Uranium, Total	7.869	ug/g dry	-	NORMAL
A1P3-C-02	A1P3-C-02-15R	5/3/00	0	0.5	1348220	483717	Thorium-232	0.973	pCi/g dry	-	NORMAL
A1P3-C-02	A1P3-C-02-15R	5/3/00	0	0.5	1348220	483717	Radium-228	0.973	pCi/g dry	-	NORMAL
A1P3-C-02	A1P3-C-02-16R	5/3/00	0	0.5	1348187	483842.1	Moisture Content	19.4	PERCENT	NV	NORMAL
A1P3-C-02	A1P3-C-02-16R	5/3/00	0	0.5	1348187	483842.1	Radium-226	1.147	pCi/g dry	-	NORMAL
A1P3-C-02	A1P3-C-02-16R	5/3/00	0	0.5	1348187	483842.1	Radium-228	1.082	pCi/g dry	-	NORMAL
A1P3-C-02	A1P3-C-02-16R	5/3/00	0	0.5	1348187	483842.1	Thorium-228	1.065	pCi/g dry	-	NORMAL
A1P3-C-02	A1P3-C-02-16R	5/3/00	0	0.5	1348187	483842.1	Uranium, Total	6.447	ug/g dry	-	NORMAL
A1P3-C-02	A1P3-C-02-16R	5/3/00	0	0.5	1348187	483842.1	Thorium-232	1.082	pCi/g dry	-	NORMAL
A1P3-C-02	A1P3-C-02-1R	5/3/00	0	0.5	1346453	483528	Moisture Content	19.4	PERCENT	NV	NORMAL
A1P3-C-02	A1P3-C-02-1R	5/3/00	0	0.5	1346453	483528	Thorium-228	0.995	pCi/g dry	-	NORMAL
A1P3-C-02	A1P3-C-02-1R	5/3/00	0	0.5	1346453	483528	Uranium, Total	6.001	ug/g dry	-	NORMAL

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TABLE C-1
AREA 1, PHASE III, PART ONE CERTIFICATION DATA

CU	Sample ID	Sample Date	Depth Top	Depth Bottom	East 83	North 83	Parameter	Result	Units	Val. Qual.	QA Type
A1P3-C-02	A1P3-C-02-1R	5/3/00	0	0.5	1346453	483528	Thorium-232	1.02	pCi/g dry	-	NORMAL
A1P3-C-02	A1P3-C-02-1R	5/3/00	0	0.5	1346453	483528	Radium-226	1.174	pCi/g dry	-	NORMAL
A1P3-C-02	A1P3-C-02-1R	5/3/00	0	0.5	1346453	483528	Radium-228	1.02	pCi/g dry	-	NORMAL
A1P3-C-02	A1P3-C-02-2R	5/3/00	0	0.5	1346616	483532.7	Moisture Content	21.6	PERCENT	NV	NORMAL
A1P3-C-02	A1P3-C-02-2R	5/3/00	0	0.5	1346616	483532.7	Thorium-228	0.899	pCi/g dry	-	NORMAL
A1P3-C-02	A1P3-C-02-2R	5/3/00	0	0.5	1346616	483532.7	Thorium-232	0.923	pCi/g dry	-	NORMAL
A1P3-C-02	A1P3-C-02-2R	5/3/00	0	0.5	1346616	483532.7	Uranium, Total	5.714	ug/g dry	-	NORMAL
A1P3-C-02	A1P3-C-02-2R	5/3/00	0	0.5	1346616	483532.7	Radium-228	0.923	pCi/g dry	-	NORMAL
A1P3-C-02	A1P3-C-02-2R	5/3/00	0	0.5	1346616	483532.7	Radium-226	1.134	pCi/g dry	-	NORMAL
A1P3-C-02	A1P3-C-02-3R	5/3/00	0	0.5	1346740	483533.3	Moisture Content	20.6	PERCENT	NV	NORMAL
A1P3-C-02	A1P3-C-02-3R	5/3/00	0	0.5	1346740	483533.3	Radium-228	0.992	pCi/g dry	-	NORMAL
A1P3-C-02	A1P3-C-02-3R	5/3/00	0	0.5	1346740	483533.3	Thorium-228	0.995	pCi/g dry	-	NORMAL
A1P3-C-02	A1P3-C-02-3R	5/3/00	0	0.5	1346740	483533.3	Uranium, Total	8.991	ug/g dry	-	NORMAL
A1P3-C-02	A1P3-C-02-3R	5/3/00	0	0.5	1346740	483533.3	Thorium-232	0.992	pCi/g dry	-	NORMAL
A1P3-C-02	A1P3-C-02-3R	5/3/00	0	0.5	1346740	483533.3	Radium-226	1.316	pCi/g dry	-	NORMAL
A1P3-C-02	A1P3-C-02-5R	5/3/00	0	0.5	1347012	483546	Moisture Content	24.9	PERCENT	NV	NORMAL
A1P3-C-02	A1P3-C-02-5R	5/3/00	0	0.5	1347012	483546	Uranium, Total	5.109	ug/g dry	-	NORMAL
A1P3-C-02	A1P3-C-02-5R	5/3/00	0	0.5	1347012	483546	Thorium-232	1.063	pCi/g dry	-	NORMAL
A1P3-C-02	A1P3-C-02-5R	5/3/00	0	0.5	1347012	483546	Radium-226	1.164	pCi/g dry	-	NORMAL
A1P3-C-02	A1P3-C-02-5R	5/3/00	0	0.5	1347012	483546	Thorium-228	1.07	pCi/g dry	-	NORMAL
A1P3-C-02	A1P3-C-02-5R	5/3/00	0	0.5	1347012	483546	Radium-228	1.063	pCi/g dry	-	NORMAL
A1P3-C-02	A1P3-C-02-6R	5/3/00	0	0.5	1347180	483590.4	Moisture Content	17.6	PERCENT	NV	NORMAL
A1P3-C-02	A1P3-C-02-6R	5/3/00	0	0.5	1347180	483590.4	Thorium-228	1.044	pCi/g dry	-	NORMAL
A1P3-C-02	A1P3-C-02-6R	5/3/00	0	0.5	1347180	483590.4	Uranium, Total	7.645	ug/g dry	-	NORMAL
A1P3-C-02	A1P3-C-02-6R	5/3/00	0	0.5	1347180	483590.4	Thorium-232	1.022	pCi/g dry	-	NORMAL
A1P3-C-02	A1P3-C-02-6R	5/3/00	0	0.5	1347180	483590.4	Radium-226	1.195	pCi/g dry	-	NORMAL
A1P3-C-02	A1P3-C-02-6R	5/3/00	0	0.5	1347180	483590.4	Radium-228	1.022	pCi/g dry	-	NORMAL
A1P3-C-02	A1P3-C-02-7R	5/3/00	0	0.5	1347303	483612.7	Moisture Content	19.2	PERCENT	NV	NORMAL
A1P3-C-02	A1P3-C-02-7R	5/3/00	0	0.5	1347303	483612.7	Thorium-228	0.858	pCi/g dry	-	NORMAL
A1P3-C-02	A1P3-C-02-7R	5/3/00	0	0.5	1347303	483612.7	Thorium-232	0.911	pCi/g dry	-	NORMAL
A1P3-C-02	A1P3-C-02-7R	5/3/00	0	0.5	1347303	483612.7	Uranium, Total	7.589	ug/g dry	-	NORMAL
A1P3-C-02	A1P3-C-02-7R	5/3/00	0	0.5	1347303	483612.7	Radium-228	0.911	pCi/g dry	-	NORMAL
A1P3-C-02	A1P3-C-02-7R	5/3/00	0	0.5	1347303	483612.7	Radium-226	1.053	pCi/g dry	-	NORMAL
A1P3-C-03	A1P3-C-03-10R	5/9/00	0	0.5	1347560	483426	Moisture Content	25.8	PERCENT	NV	NORMAL
A1P3-C-03	A1P3-C-03-10R	5/9/00	0	0.5	1347560	483426	Radium-226	1.242	pCi/g dry	-	NORMAL
A1P3-C-03	A1P3-C-03-10R	5/9/00	0	0.5	1347560	483426	Radium-228	1.017	pCi/g dry	-	NORMAL
A1P3-C-03	A1P3-C-03-10R	5/9/00	0	0.5	1347560	483426	Thorium-228	0.986	pCi/g dry	-	NORMAL
A1P3-C-03	A1P3-C-03-10R	5/9/00	0	0.5	1347560	483426	Uranium, Total	10.118	ug/g dry	-	NORMAL
A1P3-C-03	A1P3-C-03-10R	5/9/00	0	0.5	1347560	483426	Thorium-232	1.017	pCi/g dry	-	NORMAL
A1P3-C-03	A1P3-C-03-11R	5/9/00	0	0.5	1347679	483428.1	Moisture Content	25.1	PERCENT	NV	NORMAL
A1P3-C-03	A1P3-C-03-11R	5/9/00	0	0.5	1347679	483428.1	Radium-228	0.999	pCi/g dry	-	NORMAL

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TABLE C-1
AREA 1, PHASE III, PART ONE CERTIFICATION DATA

CU	Sample ID	Sample Date	Depth Top	Depth Bottom	East 83	North 83	Parameter	Result	Units	Val. Qual.	QA Type
A1P3-C-03	A1P3-C-03-11R	5/9/00	0	0.5	1347679	483428.1	Thorium-228	0.984	pCi/g dry	-	NORMAL
A1P3-C-03	A1P3-C-03-11R	5/9/00	0	0.5	1347679	483428.1	Uranium, Total	6.309	ug/g dry	-	NORMAL
A1P3-C-03	A1P3-C-03-11R	5/9/00	0	0.5	1347679	483428.1	Thorium-232	0.999	pCi/g dry	-	NORMAL
A1P3-C-03	A1P3-C-03-11R	5/9/00	0	0.5	1347679	483428.1	Radium-226	1.127	pCi/g dry	-	NORMAL
A1P3-C-03	A1P3-C-03-13R	5/9/00	0	0.5	1347959	483444.3	Moisture Content	21.6	PERCENT	NV	NORMAL
A1P3-C-03	A1P3-C-03-13R	5/9/00	0	0.5	1347959	483444.3	Uranium, Total	9.963	ug/g dry	-	NORMAL
A1P3-C-03	A1P3-C-03-13R	5/9/00	0	0.5	1347959	483444.3	Thorium-232	1.07	pCi/g dry	-	NORMAL
A1P3-C-03	A1P3-C-03-13R	5/9/00	0	0.5	1347959	483444.3	Radium-226	1.169	pCi/g dry	-	NORMAL
A1P3-C-03	A1P3-C-03-13R	5/9/00	0	0.5	1347959	483444.3	Thorium-228	1.042	pCi/g dry	-	NORMAL
A1P3-C-03	A1P3-C-03-13R	5/9/00	0	0.5	1347959	483444.3	Radium-228	1.07	pCi/g dry	-	NORMAL
A1P3-C-03	A1P3-C-03-15R	5/9/00	0	0.5	1348163	483503.6	Moisture Content	18.5	PERCENT	NV	NORMAL
A1P3-C-03	A1P3-C-03-15R	5/9/00	0	0.5	1348163	483503.6	Thorium-228	1.071	pCi/g dry	-	NORMAL
A1P3-C-03	A1P3-C-03-15R	5/9/00	0	0.5	1348163	483503.6	Uranium, Total	7.437	ug/g dry	-	NORMAL
A1P3-C-03	A1P3-C-03-15R	5/9/00	0	0.5	1348163	483503.6	Thorium-232	1.09	pCi/g dry	-	NORMAL
A1P3-C-03	A1P3-C-03-15R	5/9/00	0	0.5	1348163	483503.6	Radium-226	1.177	pCi/g dry	-	NORMAL
A1P3-C-03	A1P3-C-03-15R	5/9/00	0	0.5	1348163	483503.6	Radium-228	1.09	pCi/g dry	-	NORMAL
A1P3-C-03	A1P3-C-03-16R	5/9/00	0	0.5	1348192	483657.3	Moisture Content	23.6	PERCENT	NV	NORMAL
A1P3-C-03	A1P3-C-03-16R	5/9/00	0	0.5	1348192	483657.3	Thorium-228	0.878	pCi/g dry	-	NORMAL
A1P3-C-03	A1P3-C-03-16R	5/9/00	0	0.5	1348192	483657.3	Thorium-232	0.897	pCi/g dry	-	NORMAL
A1P3-C-03	A1P3-C-03-16R	5/9/00	0	0.5	1348192	483657.3	Uranium, Total	9.805	ug/g dry	-	NORMAL
A1P3-C-03	A1P3-C-03-16R	5/9/00	0	0.5	1348192	483657.3	Radium-228	0.897	pCi/g dry	-	NORMAL
A1P3-C-03	A1P3-C-03-16R	5/9/00	0	0.5	1348192	483657.3	Radium-226	1.123	pCi/g dry	-	NORMAL
A1P3-C-03	A1P3-C-03-2R	5/9/00	0	0.5	1346532	483352.1	Moisture Content	22.9	PERCENT	NV	NORMAL
A1P3-C-03	A1P3-C-03-2R	5/9/00	0	0.5	1346532	483352.1	Radium-226	1.223	pCi/g dry	-	NORMAL
A1P3-C-03	A1P3-C-03-2R	5/9/00	0	0.5	1346532	483352.1	Radium-228	1.004	pCi/g dry	-	NORMAL
A1P3-C-03	A1P3-C-03-2R	5/9/00	0	0.5	1346532	483352.1	Uranium, Total	6.049	ug/g dry	-	NORMAL
A1P3-C-03	A1P3-C-03-2R	5/9/00	0	0.5	1346532	483352.1	Thorium-232	1.004	pCi/g dry	-	NORMAL
A1P3-C-03	A1P3-C-03-2R	5/9/00	0	0.5	1346532	483352.1	Thorium-228	1	pCi/g dry	-	NORMAL
A1P3-C-03	A1P3-C-03-3R	5/9/00	0	0.5	1346674	483355.4	Moisture Content	21.7	PERCENT	NV	NORMAL
A1P3-C-03	A1P3-C-03-3R	5/9/00	0	0.5	1346674	483355.4	Radium-226	1.128	pCi/g dry	-	NORMAL
A1P3-C-03	A1P3-C-03-3R	5/9/00	0	0.5	1346674	483355.4	Thorium-228	1.004	pCi/g dry	-	NORMAL
A1P3-C-03	A1P3-C-03-3R	5/9/00	0	0.5	1346674	483355.4	Uranium, Total	6.138	ug/g dry	-	NORMAL
A1P3-C-03	A1P3-C-03-3R	5/9/00	0	0.5	1346674	483355.4	Thorium-232	1.027	pCi/g dry	-	NORMAL
A1P3-C-03	A1P3-C-03-3R	5/9/00	0	0.5	1346674	483355.4	Radium-228	1.027	pCi/g dry	-	NORMAL
A1P3-C-03	A1P3-C-03-4R	5/9/00	0	0.5	1346802	483355.4	Moisture Content	21.7	PERCENT	NV	NORMAL
A1P3-C-03	A1P3-C-03-4R	5/9/00	0	0.5	1346802	483355.4	Radium-226	1.203	pCi/g dry	-	NORMAL
A1P3-C-03	A1P3-C-03-4R	5/9/00	0	0.5	1346802	483355.4	Thorium-228	0.923	pCi/g dry	-	NORMAL
A1P3-C-03	A1P3-C-03-4R	5/9/00	0	0.5	1346802	483355.4	Uranium, Total	5.489	ug/g dry	-	NORMAL
A1P3-C-03	A1P3-C-03-4R	5/9/00	0	0.5	1346802	483355.4	Thorium-232	0.921	pCi/g dry	-	NORMAL
A1P3-C-03	A1P3-C-03-4R	5/9/00	0	0.5	1346802	483355.4	Radium-228	0.921	pCi/g dry	-	NORMAL
A1P3-C-03	A1P3-C-03-4R-D	5/9/00	0	0.5	1346802	483355.4	Moisture Content	22	PERCENT	NV	DUPLICATE

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TABLE C-1
AREA 1, PHASE III, PART ONE CERTIFICATION DATA

CU	Sample ID	Sample Date	Depth Top	Depth Bottom	East 83	North 83	Parameter	Result	Units	Val. Qual.	QA Type
A1P3-C-03	A1P3-C-03-4R-D	5/9/00	0	0.5	1346802	483355.4	Radium-228	0.982	pCi/g dry	-	DUPLICATE
A1P3-C-03	A1P3-C-03-4R-D	5/9/00	0	0.5	1346802	483355.4	Radium-226	1.108	pCi/g dry	-	DUPLICATE
A1P3-C-03	A1P3-C-03-4R-D	5/9/00	0	0.5	1346802	483355.4	Thorium-228	0.966	pCi/g dry	-	DUPLICATE
A1P3-C-03	A1P3-C-03-4R-D	5/9/00	0	0.5	1346802	483355.4	Uranium, Total	7.247	ug/g dry	-	DUPLICATE
A1P3-C-03	A1P3-C-03-4R-D	5/9/00	0	0.5	1346802	483355.4	Thorium-232	0.982	pCi/g dry	-	DUPLICATE
A1P3-C-03	A1P3-C-03-4R-D	5/9/00	0	0.5	1346802	483355.4	Moisture Content	25.5	PERCENT	NV	NORMAL
A1P3-C-03	A1P3-C-03-5R	5/9/00	0	0.5	1346998	483407.2	Radium-226	1.268	pCi/g dry	-	NORMAL
A1P3-C-03	A1P3-C-03-5R	5/9/00	0	0.5	1346998	483407.2	Radium-228	0.959	pCi/g dry	-	NORMAL
A1P3-C-03	A1P3-C-03-5R	5/9/00	0	0.5	1346998	483407.2	Thorium-228	0.961	pCi/g dry	-	NORMAL
A1P3-C-03	A1P3-C-03-5R	5/9/00	0	0.5	1346998	483407.2	Uranium, Total	7.023	ug/g dry	-	NORMAL
A1P3-C-03	A1P3-C-03-5R	5/9/00	0	0.5	1346998	483407.2	Thorium-232	0.959	pCi/g dry	-	NORMAL
A1P3-C-03	A1P3-C-03-5R	5/9/00	0	0.5	1346998	483407.2	Moisture Content	18.9	PERCENT	NV	NORMAL
A1P3-C-03	A1P3-C-03-7R	5/9/00	0	0.5	1347163	483373.3	Thorium-228	1.037	pCi/g dry	-	NORMAL
A1P3-C-03	A1P3-C-03-7R	5/9/00	0	0.5	1347163	483373.3	Thorium-232	1.027	pCi/g dry	-	NORMAL
A1P3-C-03	A1P3-C-03-7R	5/9/00	0	0.5	1347163	483373.3	Radium-228	1.027	pCi/g dry	-	NORMAL
A1P3-C-03	A1P3-C-03-7R	5/9/00	0	0.5	1347163	483373.3	Radium-226	1.248	pCi/g dry	-	NORMAL
A1P3-C-03	A1P3-C-03-7R	5/9/00	0	0.5	1347163	483373.3	Uranium, Total	7.388	ug/g dry	-	NORMAL
A1P3-C-03	A1P3-C-03-7R	5/9/00	0	0.5	1347163	483373.3	Moisture Content	20.6	PERCENT	NV	NORMAL
A1P3-C-03	A1P3-C-03-8R	5/9/00	0	0.5	1347322	483401	Uranium, Total	7.127	ug/g dry	-	NORMAL
A1P3-C-03	A1P3-C-03-8R	5/9/00	0	0.5	1347322	483401	Thorium-232	0.978	pCi/g dry	-	NORMAL
A1P3-C-03	A1P3-C-03-8R	5/9/00	0	0.5	1347322	483401	Thorium-228	0.969	pCi/g dry	-	NORMAL
A1P3-C-03	A1P3-C-03-8R	5/9/00	0	0.5	1347322	483401	Radium-228	0.978	pCi/g dry	-	NORMAL
A1P3-C-03	A1P3-C-03-8R	5/9/00	0	0.5	1347322	483401	Radium-226	1.198	pCi/g dry	-	NORMAL
A1P3-C-03	A1P3-C-03-8R	5/9/00	0	0.5	1347322	483401	Moisture Content	22.1	PERCENT	NV	NORMAL
A1P3-C-03	A1P3-C-03-9R	5/9/00	0	0.5	1347492	483402.6	Radium-226	1.328	pCi/g dry	-	NORMAL
A1P3-C-03	A1P3-C-03-9R	5/9/00	0	0.5	1347492	483402.6	Thorium-228	1.008	pCi/g dry	-	NORMAL
A1P3-C-03	A1P3-C-03-9R	5/9/00	0	0.5	1347492	483402.6	Uranium, Total	15.464	ug/g dry	-	NORMAL
A1P3-C-03	A1P3-C-03-9R	5/9/00	0	0.5	1347492	483402.6	Thorium-232	1.015	pCi/g dry	-	NORMAL
A1P3-C-03	A1P3-C-03-9R	5/9/00	0	0.5	1347492	483402.6	Radium-228	1.015	pCi/g dry	-	NORMAL
A1P3-C-03	A1P3-C-03-9R	5/9/00	0	0.5	1347492	483402.6	Beryllium	0.2	mg/kg dry	-	NORMAL
A1P3-C-04	A1P3-C-04-10RM	5/1/00	0	0.5	1348441	483090.2	Moisture Content	24.6	PERCENT	NV	NORMAL
A1P3-C-04	A1P3-C-04-10RM	5/1/00	0	0.5	1348441	483090.2	Radium-228	0.961	pCi/g dry	-	NORMAL
A1P3-C-04	A1P3-C-04-10RM	5/1/00	0	0.5	1348441	483090.2	Thorium-232	0.961	pCi/g dry	-	NORMAL
A1P3-C-04	A1P3-C-04-10RM	5/1/00	0	0.5	1348441	483090.2	Uranium, Total	13.16	ug/g dry	-	NORMAL
A1P3-C-04	A1P3-C-04-10RM	5/1/00	0	0.5	1348441	483090.2	Thorium-228	0.961	pCi/g dry	-	NORMAL
A1P3-C-04	A1P3-C-04-10RM	5/1/00	0	0.5	1348441	483090.2	Radium-226	1.2	pCi/g dry	-	NORMAL
A1P3-C-04	A1P3-C-04-10RM	5/1/00	0	0.5	1348441	483090.2	Beryllium	0.38	mg/kg dry	-	NORMAL
A1P3-C-04	A1P3-C-04-11RM	5/1/00	0	0.5	1348507	483004.9	Moisture Content	27.1	PERCENT	NV	NORMAL
A1P3-C-04	A1P3-C-04-11RM	5/1/00	0	0.5	1348507	483004.9	Radium-226	1.357	pCi/g dry	-	NORMAL
A1P3-C-04	A1P3-C-04-11RM	5/1/00	0	0.5	1348507	483004.9	Thorium-228	1.094	pCi/g dry	-	NORMAL
A1P3-C-04	A1P3-C-04-11RM	5/1/00	0	0.5	1348507	483004.9	Uranium, Total	5.78	ug/g dry	-	NORMAL
A1P3-C-04	A1P3-C-04-11RM	5/1/00	0	0.5	1348507	483004.9					

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TABLE C-1
AREA 1, PHASE III, PART ONE CERTIFICATION DATA

CU	Sample ID	Sample Date	Depth Top	Depth Bottom	East 83	North 83	Parameter	Result	Units	Val. Qual.	QA Type
A1P3-C-04	A1P3-C-04-11RM	5/1/00	0	0.5	1348507	483004.9	Thorium-232	1.121	pCi/g dry	-	NORMAL
A1P3-C-04	A1P3-C-04-11RM	5/1/00	0	0.5	1348507	483004.9	Radium-228	1.121	pCi/g dry	-	NORMAL
A1P3-C-04	A1P3-C-04-14RM	5/1/00	0	0.5	1348710	483024.3	Beryllium	0.21	mg/kg dry	-	NORMAL
A1P3-C-04	A1P3-C-04-14RM	5/1/00	0	0.5	1348710	483024.3	Radium-226	1.175	pCi/g dry	-	NORMAL
A1P3-C-04	A1P3-C-04-14RM	5/1/00	0	0.5	1348710	483024.3	Moisture Content	25.9	PERCENT	NV	NORMAL
A1P3-C-04	A1P3-C-04-14RM	5/1/00	0	0.5	1348710	483024.3	Radium-228	1.054	pCi/g dry	-	NORMAL
A1P3-C-04	A1P3-C-04-14RM	5/1/00	0	0.5	1348710	483024.3	Thorium-232	1.054	pCi/g dry	-	NORMAL
A1P3-C-04	A1P3-C-04-14RM	5/1/00	0	0.5	1348710	483024.3	Uranium, Total	7.951	ug/g dry	-	NORMAL
A1P3-C-04	A1P3-C-04-14RM	5/1/00	0	0.5	1348710	483024.3	Thorium-228	1.01	pCi/g dry	-	NORMAL
A1P3-C-04	A1P3-C-04-15RM	5/1/00	0	0.5	1348858	483061.3	Beryllium	0.26	mg/kg dry	-	NORMAL
A1P3-C-04	A1P3-C-04-15RM	5/1/00	0	0.5	1348858	483061.3	Radium-226	1.298	pCi/g dry	-	NORMAL
A1P3-C-04	A1P3-C-04-15RM	5/1/00	0	0.5	1348858	483061.3	Radium-228	0.952	pCi/g dry	-	NORMAL
A1P3-C-04	A1P3-C-04-15RM	5/1/00	0	0.5	1348858	483061.3	Moisture Content	23.7	PERCENT	NV	NORMAL
A1P3-C-04	A1P3-C-04-15RM	5/1/00	0	0.5	1348858	483061.3	Thorium-228	0.939	pCi/g dry	-	NORMAL
A1P3-C-04	A1P3-C-04-15RM	5/1/00	0	0.5	1348858	483061.3	Uranium, Total	10.972	ug/g dry	-	NORMAL
A1P3-C-04	A1P3-C-04-15RM	5/1/00	0	0.5	1348858	483061.3	Thorium-232	0.952	pCi/g dry	-	NORMAL
A1P3-C-04	A1P3-C-04-16RM	5/1/00	0	0.5	1348942	482958.4	Beryllium	0.35	mg/kg dry	-	NORMAL
A1P3-C-04	A1P3-C-04-16RM	5/1/00	0	0.5	1348942	482958.4	Uranium, Total	3.546	ug/g dry	UJ	NORMAL
A1P3-C-04	A1P3-C-04-16RM	5/1/00	0	0.5	1348942	482958.4	Thorium-232	0.982	pCi/g dry	-	NORMAL
A1P3-C-04	A1P3-C-04-16RM	5/1/00	0	0.5	1348942	482958.4	Thorium-228	0.948	pCi/g dry	-	NORMAL
A1P3-C-04	A1P3-C-04-16RM	5/1/00	0	0.5	1348942	482958.4	Moisture Content	25.4	PERCENT	NV	NORMAL
A1P3-C-04	A1P3-C-04-16RM	5/1/00	0	0.5	1348942	482958.4	Radium-228	0.982	pCi/g dry	-	NORMAL
A1P3-C-04	A1P3-C-04-16RM	5/1/00	0	0.5	1348942	482958.4	Radium-226	1.336	pCi/g dry	-	NORMAL
A1P3-C-04	A1P3-C-04-2RM	5/1/00	0	0.5	1346781	483123	Beryllium	0.43	mg/kg dry	-	NORMAL
A1P3-C-04	A1P3-C-04-2RM	5/1/00	0	0.5	1346781	483123	Moisture Content	17.6	PERCENT	NV	NORMAL
A1P3-C-04	A1P3-C-04-2RM	5/1/00	0	0.5	1346781	483123	Radium-228	1.039	pCi/g dry	-	NORMAL
A1P3-C-04	A1P3-C-04-2RM	5/1/00	0	0.5	1346781	483123	Thorium-232	1.039	pCi/g dry	-	NORMAL
A1P3-C-04	A1P3-C-04-2RM	5/1/00	0	0.5	1346781	483123	Uranium, Total	6.817	ug/g dry	-	NORMAL
A1P3-C-04	A1P3-C-04-2RM	5/1/00	0	0.5	1346781	483123	Thorium-228	1.017	pCi/g dry	-	NORMAL
A1P3-C-04	A1P3-C-04-2RM	5/1/00	0	0.5	1346781	483123	Radium-226	1.288	pCi/g dry	-	NORMAL
A1P3-C-04	A1P3-C-04-3RM	5/1/00	0	0.5	1347017	483128	Beryllium	0.26	mg/kg dry	-	NORMAL
A1P3-C-04	A1P3-C-04-3RM	5/1/00	0	0.5	1347017	483128	Moisture Content	21.6	PERCENT	NV	NORMAL
A1P3-C-04	A1P3-C-04-3RM	5/1/00	0	0.5	1347017	483128	Radium-226	1.192	pCi/g dry	-	NORMAL
A1P3-C-04	A1P3-C-04-3RM	5/1/00	0	0.5	1347017	483128	Thorium-228	0.956	pCi/g dry	-	NORMAL
A1P3-C-04	A1P3-C-04-3RM	5/1/00	0	0.5	1347017	483128	Uranium, Total	3.909	ug/g dry	U	NORMAL
A1P3-C-04	A1P3-C-04-3RM	5/1/00	0	0.5	1347017	483128	Thorium-232	0.977	pCi/g dry	-	NORMAL
A1P3-C-04	A1P3-C-04-3RM	5/1/00	0	0.5	1347017	483128	Radium-228	0.977	pCi/g dry	-	NORMAL
A1P3-C-04	A1P3-C-04-4RM	5/1/00	0	0.5	1347208	483154.4	Beryllium	0.08	mg/kg dry	-	NORMAL
A1P3-C-04	A1P3-C-04-4RM	5/1/00	0	0.5	1347208	483154.4	Radium-226	1.053	pCi/g dry	-	NORMAL
A1P3-C-04	A1P3-C-04-4RM	5/1/00	0	0.5	1347208	483154.4	Moisture Content	21.2	PERCENT	NV	NORMAL
A1P3-C-04	A1P3-C-04-4RM	5/1/00	0	0.5	1347208	483154.4	Radium-228	0.92	pCi/g dry	-	NORMAL

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TABLE C-1
AREA 1, PHASE III, PART ONE CERTIFICATION DATA

CU	Sample ID	Sample Date	Depth Top	Depth Bottom	East 83	North 83	Parameter	Result	Units	Val. Qual.	QA Type
A1P3-C-04	A1P3-C-04-4RM	5/1/00	0	0.5	1347208	483154.4	Thorium-232	0.92	pCi/g dry	-	NORMAL
A1P3-C-04	A1P3-C-04-4RM	5/1/00	0	0.5	1347208	483154.4	Uranium, Total	7.48	ug/g dry	-	NORMAL
A1P3-C-04	A1P3-C-04-4RM	5/1/00	0	0.5	1347208	483154.4	Thorium-228	0.911	pCi/g dry	-	NORMAL
A1P3-C-04	A1P3-C-04-5RM	5/1/00	0	0.5	1347362	483114.7	Beryllium	0.42	mg/kg dry	-	NORMAL
A1P3-C-04	A1P3-C-04-5RM	5/1/00	0	0.5	1347362	483114.7	Radium-226	1.199	pCi/g dry	-	NORMAL
A1P3-C-04	A1P3-C-04-5RM	5/1/00	0	0.5	1347362	483114.7	Radium-228	1.01	pCi/g dry	-	NORMAL
A1P3-C-04	A1P3-C-04-5RM	5/1/00	0	0.5	1347362	483114.7	Moisture Content	23.6	PERCENT	NV	NORMAL
A1P3-C-04	A1P3-C-04-5RM	5/1/00	0	0.5	1347362	483114.7	Thorium-228	0.994	pCi/g dry	-	NORMAL
A1P3-C-04	A1P3-C-04-5RM	5/1/00	0	0.5	1347362	483114.7	Uranium, Total	10.41	ug/g dry	-	NORMAL
A1P3-C-04	A1P3-C-04-5RM	5/1/00	0	0.5	1347362	483114.7	Thorium-232	1.01	pCi/g dry	-	NORMAL
A1P3-C-04	A1P3-C-04-5RM-D	5/1/00	0	0.5	1347362	483114.7	Beryllium	0.48	mg/kg dry	-	DUPLICATE
A1P3-C-04	A1P3-C-04-5RM-D	5/1/00	0	0.5	1347362	483114.7	Radium-228	1.035	pCi/g dry	-	DUPLICATE
A1P3-C-04	A1P3-C-04-5RM-D	5/1/00	0	0.5	1347362	483114.7	Thorium-228	1.042	pCi/g dry	-	DUPLICATE
A1P3-C-04	A1P3-C-04-5RM-D	5/1/00	0	0.5	1347362	483114.7	Thorium-232	1.035	pCi/g dry	-	DUPLICATE
A1P3-C-04	A1P3-C-04-5RM-D	5/1/00	0	0.5	1347362	483114.7	Uranium, Total	6.948	ug/g dry	-	DUPLICATE
A1P3-C-04	A1P3-C-04-5RM-D	5/1/00	0	0.5	1347362	483114.7	Radium-226	1.225	pCi/g dry	-	DUPLICATE
A1P3-C-04	A1P3-C-04-5RM-D	5/1/00	0	0.5	1347362	483114.7	Moisture Content	20	PERCENT	NV	DUPLICATE
A1P3-C-04	A1P3-C-04-6RM	5/1/00	0	0.5	1347665	483162.4	Beryllium	0.34	mg/kg dry	-	NORMAL
A1P3-C-04	A1P3-C-04-6RM	5/1/00	0	0.5	1347665	483162.4	Radium-226	1.096	pCi/g dry	-	NORMAL
A1P3-C-04	A1P3-C-04-6RM	5/1/00	0	0.5	1347665	483162.4	Thorium-228	0.866	pCi/g dry	-	NORMAL
A1P3-C-04	A1P3-C-04-6RM	5/1/00	0	0.5	1347665	483162.4	Thorium-232	0.864	pCi/g dry	-	NORMAL
A1P3-C-04	A1P3-C-04-6RM	5/1/00	0	0.5	1347665	483162.4	Uranium, Total	10.194	ug/g dry	-	NORMAL
A1P3-C-04	A1P3-C-04-6RM	5/1/00	0	0.5	1347665	483162.4	Radium-228	0.864	pCi/g dry	-	NORMAL
A1P3-C-04	A1P3-C-04-6RM	5/1/00	0	0.5	1347665	483162.4	Moisture Content	21	PERCENT	NV	NORMAL
A1P3-C-04	A1P3-C-04-8RM	5/1/00	0	0.5	1348193	483293.5	Beryllium	0.33	mg/kg dry	-	NORMAL
A1P3-C-04	A1P3-C-04-8RM	5/1/00	0	0.5	1348193	483293.5	Uranium, Total	9.945	ug/g dry	-	NORMAL
A1P3-C-04	A1P3-C-04-8RM	5/1/00	0	0.5	1348193	483293.5	Thorium-232	1.077	pCi/g dry	-	NORMAL
A1P3-C-04	A1P3-C-04-8RM	5/1/00	0	0.5	1348193	483293.5	Thorium-228	1.059	pCi/g dry	-	NORMAL
A1P3-C-04	A1P3-C-04-8RM	5/1/00	0	0.5	1348193	483293.5	Moisture Content	24.7	PERCENT	NV	NORMAL
A1P3-C-04	A1P3-C-04-8RM	5/1/00	0	0.5	1348193	483293.5	Radium-228	1.077	pCi/g dry	-	NORMAL
A1P3-C-04	A1P3-C-04-8RM	5/1/00	0	0.5	1348193	483293.5	Radium-226	1.215	pCi/g dry	-	NORMAL
A1P3-C-04	A1P3-C-04-9RM	5/1/00	0	0.5	1348304	483153.4	Beryllium	0.18	mg/kg dry	-	NORMAL
A1P3-C-04	A1P3-C-04-9RM	5/1/00	0	0.5	1348304	483153.4	Thorium-228	1.097	pCi/g dry	-	NORMAL
A1P3-C-04	A1P3-C-04-9RM	5/1/00	0	0.5	1348304	483153.4	Uranium, Total	9.152	ug/g dry	-	NORMAL
A1P3-C-04	A1P3-C-04-9RM	5/1/00	0	0.5	1348304	483153.4	Thorium-232	1.108	pCi/g dry	-	NORMAL
A1P3-C-04	A1P3-C-04-9RM	5/1/00	0	0.5	1348304	483153.4	Radium-228	1.108	pCi/g dry	-	NORMAL
A1P3-C-04	A1P3-C-04-9RM	5/1/00	0	0.5	1348304	483153.4	Moisture Content	24.4	PERCENT	NV	NORMAL
A1P3-C-04	A1P3-C-04-9RM	5/1/00	0	0.5	1348304	483153.4	Radium-226	1.176	pCi/g dry	-	NORMAL
A1P3-C-05	A1P3-C-05-10RM	5/2/00	0	0.5	1347539	482751.3	Beryllium	0.031	mg/kg dry	U	NORMAL
A1P3-C-05	A1P3-C-05-10RM	5/2/00	0	0.5	1347539	482751.3	Thorium-232	0.988	pCi/g dry	-	NORMAL
A1P3-C-05	A1P3-C-05-10RM	5/2/00	0	0.5	1347539	482751.3	Uranium, Total	15.555	ug/g dry	-	NORMAL

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TABLE C-1
AREA 1, PHASE III, PART ONE CERTIFICATION DATA

CU	Sample ID	Sample Date	Depth Top	Depth Bottom	East 83	North 83	Parameter	Result	Units	Val. Qual.	QA Type
A1P3-C-05	A1P3-C-05-10RM	5/2/00	0	0.5	1347539	482751.3	Thorium-228	1.002	pCi/g dry	-	NORMAL
A1P3-C-05	A1P3-C-05-10RM	5/2/00	0	0.5	1347539	482751.3	Moisture Content	21.6	PERCENT	NV	NORMAL
A1P3-C-05	A1P3-C-05-10RM	5/2/00	0	0.5	1347539	482751.3	Radium-226	1.207	pCi/g dry	-	NORMAL
A1P3-C-05	A1P3-C-05-10RM	5/2/00	0	0.5	1347539	482751.3	Radium-228	0.988	pCi/g dry	-	NORMAL
A1P3-C-05	A1P3-C-05-11RM	5/2/00	0	0.5	1347700	482760.5	Beryllium	0.108	mg/kg dry	-	NORMAL
A1P3-C-05	A1P3-C-05-11RM	5/2/00	0	0.5	1347700	482760.5	Thorium-228	0.844	pCi/g dry	-	NORMAL
A1P3-C-05	A1P3-C-05-11RM	5/2/00	0	0.5	1347700	482760.5	Uranium, Total	14.394	ug/g dry	-	NORMAL
A1P3-C-05	A1P3-C-05-11RM	5/2/00	0	0.5	1347700	482760.5	Thorium-232	0.894	pCi/g dry	-	NORMAL
A1P3-C-05	A1P3-C-05-11RM	5/2/00	0	0.5	1347700	482760.5	Radium-228	0.894	pCi/g dry	-	NORMAL
A1P3-C-05	A1P3-C-05-11RM	5/2/00	0	0.5	1347700	482760.5	Moisture Content	17.9	PERCENT	NV	NORMAL
A1P3-C-05	A1P3-C-05-11RM	5/2/00	0	0.5	1347700	482760.5	Radium-226	1.173	pCi/g dry	-	NORMAL
A1P3-C-05	A1P3-C-05-14RM	5/2/00	0	0.5	1348333	482738.3	Beryllium	0.183	mg/kg dry	-	NORMAL
A1P3-C-05	A1P3-C-05-14RM	5/2/00	0	0.5	1348333	482738.3	Radium-228	0.784	pCi/g dry	-	NORMAL
A1P3-C-05	A1P3-C-05-14RM	5/2/00	0	0.5	1348333	482738.3	Thorium-232	0.784	pCi/g dry	-	NORMAL
A1P3-C-05	A1P3-C-05-14RM	5/2/00	0	0.5	1348333	482738.3	Uranium, Total	7.089	ug/g dry	-	NORMAL
A1P3-C-05	A1P3-C-05-14RM	5/2/00	0	0.5	1348333	482738.3	Thorium-228	0.801	pCi/g dry	-	NORMAL
A1P3-C-05	A1P3-C-05-14RM	5/2/00	0	0.5	1348333	482738.3	Radium-226	0.999	pCi/g dry	-	NORMAL
A1P3-C-05	A1P3-C-05-14RM	5/2/00	0	0.5	1348333	482738.3	Moisture Content	14	PERCENT	NV	NORMAL
A1P3-C-05	A1P3-C-05-15RM	5/2/00	0	0.5	1348593	482758	Beryllium	0.031	mg/kg dry	U	NORMAL
A1P3-C-05	A1P3-C-05-15RM	5/2/00	0	0.5	1348593	482758	Radium-228	0.857	pCi/g dry	-	NORMAL
A1P3-C-05	A1P3-C-05-15RM	5/2/00	0	0.5	1348593	482758	Thorium-232	0.857	pCi/g dry	-	NORMAL
A1P3-C-05	A1P3-C-05-15RM	5/2/00	0	0.5	1348593	482758	Uranium, Total	13.528	ug/g dry	-	NORMAL
A1P3-C-05	A1P3-C-05-15RM	5/2/00	0	0.5	1348593	482758	Thorium-228	0.844	pCi/g dry	-	NORMAL
A1P3-C-05	A1P3-C-05-15RM	5/2/00	0	0.5	1348593	482758	Radium-226	0.947	pCi/g dry	-	NORMAL
A1P3-C-05	A1P3-C-05-15RM	5/2/00	0	0.5	1348593	482758	Moisture Content	23.6	PERCENT	NV	NORMAL
A1P3-C-05	A1P3-C-05-16RM	5/2/00	0	0.5	1348683	482741.2	Beryllium	0.18	mg/kg dry	-	NORMAL
A1P3-C-05	A1P3-C-05-16RM	5/2/00	0	0.5	1348683	482741.2	Radium-226	1.123	pCi/g dry	-	NORMAL
A1P3-C-05	A1P3-C-05-16RM	5/2/00	0	0.5	1348683	482741.2	Thorium-228	0.976	pCi/g dry	-	NORMAL
A1P3-C-05	A1P3-C-05-16RM	5/2/00	0	0.5	1348683	482741.2	Uranium, Total	11.889	ug/g dry	-	NORMAL
A1P3-C-05	A1P3-C-05-16RM	5/2/00	0	0.5	1348683	482741.2	Thorium-232	1	pCi/g dry	-	NORMAL
A1P3-C-05	A1P3-C-05-16RM	5/2/00	0	0.5	1348683	482741.2	Radium-228	1	pCi/g dry	-	NORMAL
A1P3-C-05	A1P3-C-05-16RM	5/2/00	0	0.5	1348683	482741.2	Moisture Content	18.9	PERCENT	NV	NORMAL
A1P3-C-05	A1P3-C-05-16RM-D	5/2/00	0	0.5	1348683	482741.2	Beryllium	0.119	mg/kg dry	-	DUPLICATE
A1P3-C-05	A1P3-C-05-16RM-D	5/2/00	0	0.5	1348683	482741.2	Moisture Content	18.9	PERCENT	NV	DUPLICATE
A1P3-C-05	A1P3-C-05-16RM-D	5/2/00	0	0.5	1348683	482741.2	Radium-228	0.901	pCi/g dry	-	DUPLICATE
A1P3-C-05	A1P3-C-05-16RM-D	5/2/00	0	0.5	1348683	482741.2	Thorium-232	0.901	pCi/g dry	-	DUPLICATE
A1P3-C-05	A1P3-C-05-16RM-D	5/2/00	0	0.5	1348683	482741.2	Uranium, Total	10.303	ug/g dry	-	DUPLICATE
A1P3-C-05	A1P3-C-05-16RM-D	5/2/00	0	0.5	1348683	482741.2	Thorium-228	0.857	pCi/g dry	-	DUPLICATE
A1P3-C-05	A1P3-C-05-16RM-D	5/2/00	0	0.5	1348683	482741.2	Radium-226	1.065	pCi/g dry	-	DUPLICATE
A1P3-C-05	A1P3-C-05-1RM	5/2/00	0	0.5	1346378	483487.3	Beryllium	0.048	mg/kg dry	-	NORMAL
A1P3-C-05	A1P3-C-05-1RM	5/2/00	0	0.5	1346378	483487.3	Moisture Content	19.7	PERCENT	NV	NORMAL

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TABLE C-1
AREA 1, PHASE III, PART ONE CERTIFICATION DATA

CU	Sample ID	Sample Date	Depth Top	Depth Bottom	East 83	North 83	Parameter	Result	Units	Val. Qual.	QA Type
A1P3-C-05	A1P3-C-05-1RM	5/2/00	0	0.5	1346378	483487.3	Radium-226	1.083	pCi/g dry	-	NORMAL
A1P3-C-05	A1P3-C-05-1RM	5/2/00	0	0.5	1346378	483487.3	Thorium-228	0.884	pCi/g dry	-	NORMAL
A1P3-C-05	A1P3-C-05-1RM	5/2/00	0	0.5	1346378	483487.3	Uranium, Total	6.058	ug/g dry	-	NORMAL
A1P3-C-05	A1P3-C-05-1RM	5/2/00	0	0.5	1346378	483487.3	Thorium-232	0.893	pCi/g dry	-	NORMAL
A1P3-C-05	A1P3-C-05-1RM	5/2/00	0	0.5	1346378	483487.3	Radium-228	0.893	pCi/g dry	-	NORMAL
A1P3-C-05	A1P3-C-05-2RM	5/2/00	0	0.5	1346350	483352.1	Beryllium	0.03	mg/kg dry	U	NORMAL
A1P3-C-05	A1P3-C-05-2RM	5/2/00	0	0.5	1346350	483352.1	Radium-226	1.149	pCi/g dry	-	NORMAL
A1P3-C-05	A1P3-C-05-2RM	5/2/00	0	0.5	1346350	483352.1	Moisture Content	20	PERCENT	NV	NORMAL
A1P3-C-05	A1P3-C-05-2RM	5/2/00	0	0.5	1346350	483352.1	Radium-228	0.981	pCi/g dry	-	NORMAL
A1P3-C-05	A1P3-C-05-2RM	5/2/00	0	0.5	1346350	483352.1	Thorium-232	0.981	pCi/g dry	-	NORMAL
A1P3-C-05	A1P3-C-05-2RM	5/2/00	0	0.5	1346350	483352.1	Uranium, Total	5.363	ug/g dry	-	NORMAL
A1P3-C-05	A1P3-C-05-2RM	5/2/00	0	0.5	1346350	483352.1	Thorium-228	0.946	pCi/g dry	-	NORMAL
A1P3-C-05	A1P3-C-05-3RM	5/2/00	0	0.5	1346320	483032.9	Beryllium	0.031	mg/kg dry	U	NORMAL
A1P3-C-05	A1P3-C-05-3RM	5/2/00	0	0.5	1346320	483032.9	Radium-226	1.044	pCi/g dry	-	NORMAL
A1P3-C-05	A1P3-C-05-3RM	5/2/00	0	0.5	1346320	483032.9	Radium-228	0.804	pCi/g dry	-	NORMAL
A1P3-C-05	A1P3-C-05-3RM	5/2/00	0	0.5	1346320	483032.9	Moisture Content	19.2	PERCENT	NV	NORMAL
A1P3-C-05	A1P3-C-05-3RM	5/2/00	0	0.5	1346320	483032.9	Thorium-228	0.796	pCi/g dry	-	NORMAL
A1P3-C-05	A1P3-C-05-3RM	5/2/00	0	0.5	1346320	483032.9	Uranium, Total	5.103	ug/g dry	-	NORMAL
A1P3-C-05	A1P3-C-05-3RM	5/2/00	0	0.5	1346320	483032.9	Thorium-232	0.804	pCi/g dry	-	NORMAL
A1P3-C-05	A1P3-C-05-5RM	5/2/00	0	0.5	1346684	482802.9	Beryllium	0.027	mg/kg dry	U	NORMAL
A1P3-C-05	A1P3-C-05-5RM	5/2/00	0	0.5	1346684	482802.9	Uranium, Total	5.413	ug/g dry	-	NORMAL
A1P3-C-05	A1P3-C-05-5RM	5/2/00	0	0.5	1346684	482802.9	Thorium-232	1.01	pCi/g dry	-	NORMAL
A1P3-C-05	A1P3-C-05-5RM	5/2/00	0	0.5	1346684	482802.9	Thorium-228	0.988	pCi/g dry	-	NORMAL
A1P3-C-05	A1P3-C-05-5RM	5/2/00	0	0.5	1346684	482802.9	Moisture Content	15.7	PERCENT	NV	NORMAL
A1P3-C-05	A1P3-C-05-5RM	5/2/00	0	0.5	1346684	482802.9	Radium-228	1.01	pCi/g dry	-	NORMAL
A1P3-C-05	A1P3-C-05-5RM	5/2/00	0	0.5	1346684	482802.9	Radium-226	1.141	pCi/g dry	-	NORMAL
A1P3-C-05	A1P3-C-05-6RM	5/2/00	0	0.5	1346827	482806.3	Beryllium	0.092	mg/kg dry	-	NORMAL
A1P3-C-05	A1P3-C-05-6RM	5/2/00	0	0.5	1346827	482806.3	Thorium-228	0.878	pCi/g dry	-	NORMAL
A1P3-C-05	A1P3-C-05-6RM	5/2/00	0	0.5	1346827	482806.3	Uranium, Total	11.609	ug/g dry	-	NORMAL
A1P3-C-05	A1P3-C-05-6RM	5/2/00	0	0.5	1346827	482806.3	Thorium-232	0.879	pCi/g dry	-	NORMAL
A1P3-C-05	A1P3-C-05-6RM	5/2/00	0	0.5	1346827	482806.3	Radium-228	0.879	pCi/g dry	-	NORMAL
A1P3-C-05	A1P3-C-05-6RM	5/2/00	0	0.5	1346827	482806.3	Moisture Content	20.8	PERCENT	NV	NORMAL
A1P3-C-05	A1P3-C-05-6RM	5/2/00	0	0.5	1346827	482806.3	Radium-226	1.153	pCi/g dry	-	NORMAL
A1P3-C-05	A1P3-C-05-7RM	5/2/00	0	0.5	1347055	482752.3	Beryllium	0.033	mg/kg dry	U	NORMAL
A1P3-C-05	A1P3-C-05-7RM	5/2/00	0	0.5	1347055	482752.3	Radium-228	0.94	pCi/g dry	-	NORMAL
A1P3-C-05	A1P3-C-05-7RM	5/2/00	0	0.5	1347055	482752.3	Thorium-232	0.94	pCi/g dry	-	NORMAL
A1P3-C-05	A1P3-C-05-7RM	5/2/00	0	0.5	1347055	482752.3	Uranium, Total	13.302	ug/g dry	-	NORMAL
A1P3-C-05	A1P3-C-05-7RM	5/2/00	0	0.5	1347055	482752.3	Thorium-228	0.926	pCi/g dry	-	NORMAL
A1P3-C-05	A1P3-C-05-7RM	5/2/00	0	0.5	1347055	482752.3	Radium-226	1.12	pCi/g dry	-	NORMAL
A1P3-C-05	A1P3-C-05-7RM	5/2/00	0	0.5	1347055	482752.3	Moisture Content	24.3	PERCENT	NV	NORMAL
A1P3-C-05	A1P3-C-05-9RM	5/2/00	0	0.5	1347238	482790	Beryllium	0.047	mg/kg dry	-	NORMAL

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TABLE C-1
AREA 1, PHASE III, PART ONE CERTIFICATION DATA

CU	Sample ID	Sample Date	Depth Top	Depth Bottom	East 83	North 83	Parameter	Result	Units	Val. Qual.	QA Type
A1P3-C-05	A1P3-C-05-9RM	5/2/00	0	0.5	1347238	482790	Radium-226	1.229	pCi/g dry	-	NORMAL
A1P3-C-05	A1P3-C-05-9RM	5/2/00	0	0.5	1347238	482790	Thorium-228	1.052	pCi/g dry	-	NORMAL
A1P3-C-05	A1P3-C-05-9RM	5/2/00	0	0.5	1347238	482790	Uranium, Total	8.05	ug/g dry	-	NORMAL
A1P3-C-05	A1P3-C-05-9RM	5/2/00	0	0.5	1347238	482790	Thorium-232	1.056	pCi/g dry	-	NORMAL
A1P3-C-05	A1P3-C-05-9RM	5/2/00	0	0.5	1347238	482790	Radium-228	1.056	pCi/g dry	-	NORMAL
A1P3-C-05	A1P3-C-05-9RM	5/2/00	0	0.5	1347238	482790	Moisture Content	17.9	PERCENT	NV	NORMAL
A1P3-C-06	A1P3-C-06-11R	5/15/00	0	0.5	1345897	483709.8	Moisture Content	28	PERCENT	NV	NORMAL
A1P3-C-06	A1P3-C-06-11R	5/15/00	0	0.5	1345897	483709.8	Radium-226	1.143	pCi/g dry	-	NORMAL
A1P3-C-06	A1P3-C-06-11R	5/15/00	0	0.5	1345897	483709.8	Thorium-228	0.876	pCi/g dry	-	NORMAL
A1P3-C-06	A1P3-C-06-11R	5/15/00	0	0.5	1345897	483709.8	Uranium, Total	0.972	ug/g dry	UJ	NORMAL
A1P3-C-06	A1P3-C-06-11R	5/15/00	0	0.5	1345897	483709.8	Thorium-232	0.918	pCi/g dry	-	NORMAL
A1P3-C-06	A1P3-C-06-11R	5/15/00	0	0.5	1345897	483709.8	Radium-228	0.918	pCi/g dry	-	NORMAL
A1P3-C-06	A1P3-C-06-12R	5/15/00	0	0.5	1345931	483603.4	Moisture Content	18.9	PERCENT	NV	NORMAL
A1P3-C-06	A1P3-C-06-12R	5/15/00	0	0.5	1345931	483603.4	Radium-228	0.873	pCi/g dry	-	NORMAL
A1P3-C-06	A1P3-C-06-12R	5/15/00	0	0.5	1345931	483603.4	Radium-226	0.906	pCi/g dry	-	NORMAL
A1P3-C-06	A1P3-C-06-12R	5/15/00	0	0.5	1345931	483603.4	Thorium-228	0.866	pCi/g dry	-	NORMAL
A1P3-C-06	A1P3-C-06-12R	5/15/00	0	0.5	1345931	483603.4	Uranium, Total	5.337	ug/g dry	J	NORMAL
A1P3-C-06	A1P3-C-06-12R	5/15/00	0	0.5	1345931	483603.4	Thorium-232	0.873	pCi/g dry	-	NORMAL
A1P3-C-06	A1P3-C-06-13R	5/15/00	0	0.5	1345787	483765	Moisture Content	13.9	PERCENT	NV	NORMAL
A1P3-C-06	A1P3-C-06-13R	5/15/00	0	0.5	1345787	483765	Radium-226	0.549	pCi/g dry	-	NORMAL
A1P3-C-06	A1P3-C-06-13R	5/15/00	0	0.5	1345787	483765	Thorium-228	0.409	pCi/g dry	-	NORMAL
A1P3-C-06	A1P3-C-06-13R	5/15/00	0	0.5	1345787	483765	Uranium, Total	2.558	ug/g dry	U	NORMAL
A1P3-C-06	A1P3-C-06-13R	5/15/00	0	0.5	1345787	483765	Thorium-232	0.399	pCi/g dry	-	NORMAL
A1P3-C-06	A1P3-C-06-13R	5/15/00	0	0.5	1345787	483765	Radium-228	0.399	pCi/g dry	-	NORMAL
A1P3-C-06	A1P3-C-06-14R	5/15/00	0	0.5	1345953	483822.2	Moisture Content	21.5	PERCENT	NV	NORMAL
A1P3-C-06	A1P3-C-06-14R	5/15/00	0	0.5	1345953	483822.2	Radium-228	0.894	pCi/g dry	-	NORMAL
A1P3-C-06	A1P3-C-06-14R	5/15/00	0	0.5	1345953	483822.2	Radium-226	1.052	pCi/g dry	-	NORMAL
A1P3-C-06	A1P3-C-06-14R	5/15/00	0	0.5	1345953	483822.2	Thorium-228	0.855	pCi/g dry	-	NORMAL
A1P3-C-06	A1P3-C-06-14R	5/15/00	0	0.5	1345953	483822.2	Uranium, Total	5.929	ug/g dry	-	NORMAL
A1P3-C-06	A1P3-C-06-14R	5/15/00	0	0.5	1345953	483822.2	Thorium-232	0.894	pCi/g dry	-	NORMAL
A1P3-C-06	A1P3-C-06-16R	5/15/00	0	0.5	1345893	483916	Moisture Content	20.8	PERCENT	NV	NORMAL
A1P3-C-06	A1P3-C-06-16R	5/15/00	0	0.5	1345893	483916	Uranium, Total	1.196	ug/g dry	U	NORMAL
A1P3-C-06	A1P3-C-06-16R	5/15/00	0	0.5	1345893	483916	Thorium-232	0.852	pCi/g dry	-	NORMAL
A1P3-C-06	A1P3-C-06-16R	5/15/00	0	0.5	1345893	483916	Radium-226	0.967	pCi/g dry	-	NORMAL
A1P3-C-06	A1P3-C-06-16R	5/15/00	0	0.5	1345893	483916	Thorium-228	0.835	pCi/g dry	-	NORMAL
A1P3-C-06	A1P3-C-06-16R	5/15/00	0	0.5	1345893	483916	Radium-228	0.852	pCi/g dry	-	NORMAL
A1P3-C-06	A1P3-C-06-16R-D	5/15/00	0	0.5	1345893	483916	Moisture Content	20.8	PERCENT	NV	DUPLICATE
A1P3-C-06	A1P3-C-06-16R-D	5/15/00	0	0.5	1345893	483916	Thorium-228	0.895	pCi/g dry	-	DUPLICATE
A1P3-C-06	A1P3-C-06-16R-D	5/15/00	0	0.5	1345893	483916	Uranium, Total	3.427	ug/g dry	J	DUPLICATE
A1P3-C-06	A1P3-C-06-16R-D	5/15/00	0	0.5	1345893	483916	Thorium-232	0.91	pCi/g dry	-	DUPLICATE
A1P3-C-06	A1P3-C-06-16R-D	5/15/00	0	0.5	1345893	483916	Radium-228	0.91	pCi/g dry	-	DUPLICATE

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TABLE C-1
AREA 1, PHASE III, PART ONE CERTIFICATION DATA

CU	Sample ID	Sample Date	Depth Top	Depth Bottom	East 83	North 83	Parameter	Result	Units	Val. Qual.	QA Type
A1P3-C-06	A1P3-C-06-16R-D	5/15/00	0	0.5	1345893	483916	Radium-226	1.101	pCi/g dry	-	DUPLICATE
A1P3-C-06	A1P3-C-06-1R	5/15/00	0	0.5	1345999	482878.7	Moisture Content	20.6	PERCENT	NV	NORMAL
A1P3-C-06	A1P3-C-06-1R	5/15/00	0	0.5	1345999	482878.7	Radium-226	1.138	pCi/g dry	-	NORMAL
A1P3-C-06	A1P3-C-06-1R	5/15/00	0	0.5	1345999	482878.7	Thorium-228	0.831	pCi/g dry	-	NORMAL
A1P3-C-06	A1P3-C-06-1R	5/15/00	0	0.5	1345999	482878.7	Uranium, Total	9.309	ug/g dry	-	NORMAL
A1P3-C-06	A1P3-C-06-1R	5/15/00	0	0.5	1345999	482878.7	Thorium-232	0.855	pCi/g dry	-	NORMAL
A1P3-C-06	A1P3-C-06-1R	5/15/00	0	0.5	1345999	482878.7	Radium-228	0.855	pCi/g dry	-	NORMAL
A1P3-C-06	A1P3-C-06-3R	5/17/00	0	0.5	1345861	483111.4	Moisture Content	6.8	PERCENT	NV	NORMAL
A1P3-C-06	A1P3-C-06-3R	5/17/00	0	0.5	1345861	483111.4	Radium-228	0.42	pCi/g dry	-	NORMAL
A1P3-C-06	A1P3-C-06-3R	5/17/00	0	0.5	1345861	483111.4	Radium-226	0.639	pCi/g dry	-	NORMAL
A1P3-C-06	A1P3-C-06-3R	5/17/00	0	0.5	1345861	483111.4	Thorium-228	0.423	pCi/g dry	-	NORMAL
A1P3-C-06	A1P3-C-06-3R	5/17/00	0	0.5	1345861	483111.4	Uranium, Total	1.466	ug/g dry	U	NORMAL
A1P3-C-06	A1P3-C-06-3R	5/17/00	0	0.5	1345861	483111.4	Thorium-232	0.42	pCi/g dry	-	NORMAL
A1P3-C-06	A1P3-C-06-4R	5/15/00	0	0.5	1346042	483040.9	Moisture Content	24.2	PERCENT	NV	NORMAL
A1P3-C-06	A1P3-C-06-4R	5/15/00	0	0.5	1346042	483040.9	Uranium, Total	5.183	ug/g dry	J	NORMAL
A1P3-C-06	A1P3-C-06-4R	5/15/00	0	0.5	1346042	483040.9	Thorium-232	0.723	pCi/g dry	-	NORMAL
A1P3-C-06	A1P3-C-06-4R	5/15/00	0	0.5	1346042	483040.9	Radium-226	0.962	pCi/g dry	-	NORMAL
A1P3-C-06	A1P3-C-06-4R	5/15/00	0	0.5	1346042	483040.9	Thorium-228	0.667	pCi/g dry	-	NORMAL
A1P3-C-06	A1P3-C-06-4R	5/15/00	0	0.5	1346042	483040.9	Radium-228	0.723	pCi/g dry	-	NORMAL
A1P3-C-06	A1P3-C-06-5R	5/17/00	0	0.5	1345891	483205	Moisture Content	18.3	PERCENT	NV	NORMAL
A1P3-C-06	A1P3-C-06-5R	5/17/00	0	0.5	1345891	483205	Thorium-228	0.802	pCi/g dry	-	NORMAL
A1P3-C-06	A1P3-C-06-5R	5/17/00	0	0.5	1345891	483205	Uranium, Total	4.493	ug/g dry	-	NORMAL
A1P3-C-06	A1P3-C-06-5R	5/17/00	0	0.5	1345891	483205	Thorium-232	0.822	pCi/g dry	-	NORMAL
A1P3-C-06	A1P3-C-06-5R	5/17/00	0	0.5	1345891	483205	Radium-228	0.822	pCi/g dry	-	NORMAL
A1P3-C-06	A1P3-C-06-5R	5/17/00	0	0.5	1345891	483205	Radium-226	0.992	pCi/g dry	-	NORMAL
A1P3-C-06	A1P3-C-06-6R	5/15/00	0	0.5	1345967	483171.4	Moisture Content	16.4	PERCENT	NV	NORMAL
A1P3-C-06	A1P3-C-06-6R	5/15/00	0	0.5	1345967	483171.4	Radium-226	0.957	pCi/g dry	-	NORMAL
A1P3-C-06	A1P3-C-06-6R	5/15/00	0	0.5	1345967	483171.4	Thorium-228	0.74	pCi/g dry	-	NORMAL
A1P3-C-06	A1P3-C-06-6R	5/15/00	0	0.5	1345967	483171.4	Uranium, Total	1.567	ug/g dry	U	NORMAL
A1P3-C-06	A1P3-C-06-6R	5/15/00	0	0.5	1345967	483171.4	Thorium-232	0.78	pCi/g dry	-	NORMAL
A1P3-C-06	A1P3-C-06-6R	5/15/00	0	0.5	1345967	483171.4	Radium-228	0.78	pCi/g dry	-	NORMAL
A1P3-C-06	A1P3-C-06-8R	5/15/00	0	0.5	1345914	483360.1	Moisture Content	18.1	PERCENT	NV	NORMAL
A1P3-C-06	A1P3-C-06-8R	5/15/00	0	0.5	1345914	483360.1	Radium-228	0.846	pCi/g dry	-	NORMAL
A1P3-C-06	A1P3-C-06-8R	5/15/00	0	0.5	1345914	483360.1	Radium-226	1.048	pCi/g dry	-	NORMAL
A1P3-C-06	A1P3-C-06-8R	5/15/00	0	0.5	1345914	483360.1	Thorium-228	0.827	pCi/g dry	-	NORMAL
A1P3-C-06	A1P3-C-06-8R	5/15/00	0	0.5	1345914	483360.1	Uranium, Total	2.547	ug/g dry	J	NORMAL
A1P3-C-06	A1P3-C-06-8R	5/15/00	0	0.5	1345914	483360.1	Thorium-232	0.846	pCi/g dry	-	NORMAL
A1P3-C-06	A1P3-C-06-9R	5/15/00	0	0.5	1345852	483490.3	Moisture Content	15.1	PERCENT	NV	NORMAL
A1P3-C-06	A1P3-C-06-9R	5/15/00	0	0.5	1345852	483490.3	Uranium, Total	0.849	ug/g dry	U	NORMAL
A1P3-C-06	A1P3-C-06-9R	5/15/00	0	0.5	1345852	483490.3	Thorium-232	0.6	pCi/g dry	-	NORMAL
A1P3-C-06	A1P3-C-06-9R	5/15/00	0	0.5	1345852	483490.3	Radium-226	0.694	pCi/g dry	-	NORMAL

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TABLE C-1
AREA 1, PHASE III, PART ONE CERTIFICATION DATA

CU	Sample ID	Sample Date	Depth Top	Depth Bottom	East 83	North 83	Parameter	Result	Units	Val. Qual.	QA Type
A1P3-C-06	A1P3-C-06-9R	5/15/00	0	0.5	1345852	483490.3	Thorium-228	0.595	pCi/g dry	-	NORMAL
A1P3-C-06	A1P3-C-06-9R	5/15/00	0	0.5	1345852	483490.3	Radium-228	0.6	pCi/g dry	-	NORMAL
A1P3-C-07	A1P3-C-07-11R	5/15/00	0	0.5	1346013	483903.9	Moisture Content	21.7	PERCENT	NV	NORMAL
A1P3-C-07	A1P3-C-07-11R	5/15/00	0	0.5	1346013	483903.9	Radium-226	1.192	pCi/g dry	-	NORMAL
A1P3-C-07	A1P3-C-07-11R	5/15/00	0	0.5	1346013	483903.9	Radium-228	0.879	pCi/g dry	-	NORMAL
A1P3-C-07	A1P3-C-07-11R	5/15/00	0	0.5	1346013	483903.9	Thorium-228	0.868	pCi/g dry	-	NORMAL
A1P3-C-07	A1P3-C-07-11R	5/15/00	0	0.5	1346013	483903.9	Thorium-232	0.879	pCi/g dry	-	NORMAL
A1P3-C-07	A1P3-C-07-11R	5/15/00	0	0.5	1346013	483903.9	Uranium, Total	6.341	ug/g dry	-	NORMAL
A1P3-C-07	A1P3-C-07-12R	5/15/00	0	0.5	1346195	483930.5	Moisture Content	24.4	PERCENT	NV	NORMAL
A1P3-C-07	A1P3-C-07-12R	5/15/00	0	0.5	1346195	483930.5	Uranium, Total	7.279	ug/g dry	-	NORMAL
A1P3-C-07	A1P3-C-07-12R	5/15/00	0	0.5	1346195	483930.5	Thorium-232	0.897	pCi/g dry	-	NORMAL
A1P3-C-07	A1P3-C-07-12R	5/15/00	0	0.5	1346195	483930.5	Radium-226	0.992	pCi/g dry	-	NORMAL
A1P3-C-07	A1P3-C-07-12R	5/15/00	0	0.5	1346195	483930.5	Radium-228	0.897	pCi/g dry	-	NORMAL
A1P3-C-07	A1P3-C-07-12R	5/15/00	0	0.5	1346195	483930.5	Thorium-228	0.887	pCi/g dry	-	NORMAL
A1P3-C-07	A1P3-C-07-13R	5/15/00	0	0.5	1346322	483829.1	Moisture Content	19.9	PERCENT	NV	NORMAL
A1P3-C-07	A1P3-C-07-13R	5/15/00	0	0.5	1346322	483829.1	Thorium-228	1.029	pCi/g dry	-	NORMAL
A1P3-C-07	A1P3-C-07-13R	5/15/00	0	0.5	1346322	483829.1	Uranium, Total	3.742	ug/g dry	U	NORMAL
A1P3-C-07	A1P3-C-07-13R	5/15/00	0	0.5	1346322	483829.1	Thorium-232	1.059	pCi/g dry	-	NORMAL
A1P3-C-07	A1P3-C-07-13R	5/15/00	0	0.5	1346322	483829.1	Radium-228	1.059	pCi/g dry	-	NORMAL
A1P3-C-07	A1P3-C-07-13R	5/15/00	0	0.5	1346322	483829.1	Radium-226	1.285	pCi/g dry	-	NORMAL
A1P3-C-07	A1P3-C-07-14R	5/15/00	0	0.5	1346286	483959.4	Moisture Content	26.4	PERCENT	NV	NORMAL
A1P3-C-07	A1P3-C-07-14R	5/15/00	0	0.5	1346286	483959.4	Radium-226	1.118	pCi/g dry	-	NORMAL
A1P3-C-07	A1P3-C-07-14R	5/15/00	0	0.5	1346286	483959.4	Thorium-228	0.89	pCi/g dry	-	NORMAL
A1P3-C-07	A1P3-C-07-14R	5/15/00	0	0.5	1346286	483959.4	Uranium, Total	2.591	ug/g dry	J	NORMAL
A1P3-C-07	A1P3-C-07-14R	5/15/00	0	0.5	1346286	483959.4	Thorium-232	0.897	pCi/g dry	-	NORMAL
A1P3-C-07	A1P3-C-07-14R	5/15/00	0	0.5	1346286	483959.4	Radium-228	0.897	pCi/g dry	-	NORMAL
A1P3-C-07	A1P3-C-07-15R	5/15/00	0	0.5	1346413	483833	Moisture Content	25.2	PERCENT	NV	NORMAL
A1P3-C-07	A1P3-C-07-15R	5/15/00	0	0.5	1346413	483833	Radium-226	1.38	pCi/g dry	-	NORMAL
A1P3-C-07	A1P3-C-07-15R	5/15/00	0	0.5	1346413	483833	Radium-228	1.125	pCi/g dry	-	NORMAL
A1P3-C-07	A1P3-C-07-15R	5/15/00	0	0.5	1346413	483833	Thorium-228	1.127	pCi/g dry	-	NORMAL
A1P3-C-07	A1P3-C-07-15R	5/15/00	0	0.5	1346413	483833	Uranium, Total	3.769	ug/g dry	J	NORMAL
A1P3-C-07	A1P3-C-07-15R	5/15/00	0	0.5	1346413	483833	Thorium-232	1.125	pCi/g dry	-	NORMAL
A1P3-C-07	A1P3-C-07-1R	5/15/00	0	0.5	1346068	483443.7	Moisture Content	25.9	PERCENT	NV	NORMAL
A1P3-C-07	A1P3-C-07-1R	5/15/00	0	0.5	1346068	483443.7	Radium-228	1.005	pCi/g dry	-	NORMAL
A1P3-C-07	A1P3-C-07-1R	5/15/00	0	0.5	1346068	483443.7	Thorium-232	1.005	pCi/g dry	-	NORMAL
A1P3-C-07	A1P3-C-07-1R	5/15/00	0	0.5	1346068	483443.7	Uranium, Total	8.394	ug/g dry	-	NORMAL
A1P3-C-07	A1P3-C-07-1R	5/15/00	0	0.5	1346068	483443.7	Thorium-228	0.988	pCi/g dry	-	NORMAL
A1P3-C-07	A1P3-C-07-1R	5/15/00	0	0.5	1346068	483443.7	Radium-226	1.219	pCi/g dry	-	NORMAL
A1P3-C-07	A1P3-C-07-2R	5/15/00	0	0.5	1346215	483430.3	Moisture Content	25.8	PERCENT	NV	NORMAL
A1P3-C-07	A1P3-C-07-2R	5/15/00	0	0.5	1346215	483430.3	Radium-228	0.843	pCi/g dry	-	NORMAL
A1P3-C-07	A1P3-C-07-2R	5/15/00	0	0.5	1346215	483430.3	Thorium-228	0.817	pCi/g dry	-	NORMAL

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TABLE C-1
AREA 1, PHASE III, PART ONE CERTIFICATION DATA

CU	Sample ID	Sample Date	Depth Top	Depth Bottom	East 83	North 83	Parameter	Result	Units	Val. Qual.	QA Type
A1P3-C-07	A1P3-C-07-2R	5/15/00	0	0.5	1346215	483430.3	Thorium-232	0.843	pCi/g dry	-	NORMAL
A1P3-C-07	A1P3-C-07-2R	5/15/00	0	0.5	1346215	483430.3	Uranium, Total	10.52	ug/g dry	-	NORMAL
A1P3-C-07	A1P3-C-07-2R	5/15/00	0	0.5	1346215	483430.3	Radium-226	1.095	pCi/g dry	-	NORMAL
A1P3-C-07	A1P3-C-07-3R	5/15/00	0	0.5	1346046	483517	Moisture Content	22.8	PERCENT	NV	NORMAL
A1P3-C-07	A1P3-C-07-3R	5/15/00	0	0.5	1346046	483517	Uranium, Total	4.646	ug/g dry	J	NORMAL
A1P3-C-07	A1P3-C-07-3R	5/15/00	0	0.5	1346046	483517	Radium-226	1.242	pCi/g dry	-	NORMAL
A1P3-C-07	A1P3-C-07-3R	5/15/00	0	0.5	1346046	483517	Radium-228	1.052	pCi/g dry	-	NORMAL
A1P3-C-07	A1P3-C-07-3R	5/15/00	0	0.5	1346046	483517	Thorium-232	1.052	pCi/g dry	-	NORMAL
A1P3-C-07	A1P3-C-07-3R	5/15/00	0	0.5	1346046	483517	Thorium-228	1.067	pCi/g dry	-	NORMAL
A1P3-C-07	A1P3-C-07-6R	5/15/00	0	0.5	1346252	483597.5	Moisture Content	20.8	PERCENT	NV	NORMAL
A1P3-C-07	A1P3-C-07-6R	5/15/00	0	0.5	1346252	483597.5	Thorium-232	1.033	pCi/g dry	-	NORMAL
A1P3-C-07	A1P3-C-07-6R	5/15/00	0	0.5	1346252	483597.5	Uranium, Total	5.222	ug/g dry	-	NORMAL
A1P3-C-07	A1P3-C-07-6R	5/15/00	0	0.5	1346252	483597.5	Thorium-228	1.035	pCi/g dry	-	NORMAL
A1P3-C-07	A1P3-C-07-6R	5/15/00	0	0.5	1346252	483597.5	Radium-226	1.2	pCi/g dry	-	NORMAL
A1P3-C-07	A1P3-C-07-6R	5/15/00	0	0.5	1346252	483597.5	Radium-228	1.033	pCi/g dry	-	NORMAL
A1P3-C-07	A1P3-C-07-7R	5/15/00	0	0.5	1346095	483744.5	Moisture Content	23	PERCENT	NV	NORMAL
A1P3-C-07	A1P3-C-07-7R	5/15/00	0	0.5	1346095	483744.5	Radium-228	0.977	pCi/g dry	-	NORMAL
A1P3-C-07	A1P3-C-07-7R	5/15/00	0	0.5	1346095	483744.5	Thorium-232	0.977	pCi/g dry	-	NORMAL
A1P3-C-07	A1P3-C-07-7R	5/15/00	0	0.5	1346095	483744.5	Uranium, Total	8.263	ug/g dry	-	NORMAL
A1P3-C-07	A1P3-C-07-7R	5/15/00	0	0.5	1346095	483744.5	Thorium-228	0.959	pCi/g dry	-	NORMAL
A1P3-C-07	A1P3-C-07-7R	5/15/00	0	0.5	1346095	483744.5	Radium-226	1.224	pCi/g dry	-	NORMAL
A1P3-C-07	A1P3-C-07-8R	5/15/00	0	0.5	1346178	483726	Moisture Content	19.9	PERCENT	NV	NORMAL
A1P3-C-07	A1P3-C-07-8R	5/15/00	0	0.5	1346178	483726	Radium-228	1.269	pCi/g dry	-	NORMAL
A1P3-C-07	A1P3-C-07-8R	5/15/00	0	0.5	1346178	483726	Thorium-228	1.257	pCi/g dry	-	NORMAL
A1P3-C-07	A1P3-C-07-8R	5/15/00	0	0.5	1346178	483726	Thorium-232	1.269	pCi/g dry	-	NORMAL
A1P3-C-07	A1P3-C-07-8R	5/15/00	0	0.5	1346178	483726	Uranium, Total	4.31	ug/g dry	J	NORMAL
A1P3-C-07	A1P3-C-07-8R	5/15/00	0	0.5	1346178	483726	Radium-226	1.507	pCi/g dry	-	NORMAL
A1P3-C-07	A1P3-C-07-8R-D	5/15/00	0	0.5	1346178	483726	Moisture Content	22.4	PERCENT	NV	DUPLICATE
A1P3-C-07	A1P3-C-07-8R-D	5/15/00	0	0.5	1346178	483726	Uranium, Total	10.6	ug/g dry	J	DUPLICATE
A1P3-C-07	A1P3-C-07-8R-D	5/15/00	0	0.5	1346178	483726	Radium-226	1.467	pCi/g dry	-	DUPLICATE
A1P3-C-07	A1P3-C-07-8R-D	5/15/00	0	0.5	1346178	483726	Radium-228	1.239	pCi/g dry	-	DUPLICATE
A1P3-C-07	A1P3-C-07-8R-D	5/15/00	0	0.5	1346178	483726	Thorium-232	1.239	pCi/g dry	-	DUPLICATE
A1P3-C-07	A1P3-C-07-8R-D	5/15/00	0	0.5	1346178	483726	Thorium-228	1.218	pCi/g dry	-	DUPLICATE
A1P3-C-07	A1P3-C-07-9R	5/15/00	0	0.5	1346007	473830.9	Moisture Content	25.4	PERCENT	NV	NORMAL
A1P3-C-07	A1P3-C-07-9R	5/15/00	0	0.5	1346007	473830.9	Uranium, Total	7.677	ug/g dry	-	NORMAL
A1P3-C-07	A1P3-C-07-9R	5/15/00	0	0.5	1346007	473830.9	Thorium-232	0.977	pCi/g dry	-	NORMAL
A1P3-C-07	A1P3-C-07-9R	5/15/00	0	0.5	1346007	473830.9	Radium-226	1.218	pCi/g dry	-	NORMAL
A1P3-C-07	A1P3-C-07-9R	5/15/00	0	0.5	1346007	473830.9	Radium-228	0.977	pCi/g dry	-	NORMAL
A1P3-C-07	A1P3-C-07-9R	5/15/00	0	0.5	1346007	473830.9	Thorium-228	1	pCi/g dry	-	NORMAL
A1P3-C-08	A1P3-C-08-11R	5/18/00	0	0.5	1346222	483204.9	Moisture Content	24.6	PERCENT	NV	NORMAL
A1P3-C-08	A1P3-C-08-11R	5/18/00	0	0.5	1346222	483204.9	Uranium, Total	7.739	ug/g dry	-	NORMAL

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TABLE C-1
AREA 1, PHASE III, PART ONE CERTIFICATION DATA

CU	Sample ID	Sample Date	Depth Top	Depth Bottom	East 83	North 83	Parameter	Result	Units	Val. Qual.	QA Type
A1P3-C-08	A1P3-C-08-11R	5/18/00	0	0.5	1346222	483204.9	Thorium-232	0.927	pCi/g dry	-	NORMAL
A1P3-C-08	A1P3-C-08-11R	5/18/00	0	0.5	1346222	483204.9	Radium-226	1.162	pCi/g dry	-	NORMAL
A1P3-C-08	A1P3-C-08-11R	5/18/00	0	0.5	1346222	483204.9	Radium-228	0.927	pCi/g dry	-	NORMAL
A1P3-C-08	A1P3-C-08-11R	5/18/00	0	0.5	1346222	483204.9	Thorium-228	0.931	pCi/g dry	-	NORMAL
A1P3-C-08	A1P3-C-08-12R	5/18/00	0	0.5	1346294	483228	Moisture Content	28.8	PERCENT	NV	NORMAL
A1P3-C-08	A1P3-C-08-12R	5/18/00	0	0.5	1346294	483228	Thorium-228	0.957	pCi/g dry	-	NORMAL
A1P3-C-08	A1P3-C-08-12R	5/18/00	0	0.5	1346294	483228	Uranium, Total	8.978	ug/g dry	-	NORMAL
A1P3-C-08	A1P3-C-08-12R	5/18/00	0	0.5	1346294	483228	Thorium-232	0.964	pCi/g dry	-	NORMAL
A1P3-C-08	A1P3-C-08-12R	5/18/00	0	0.5	1346294	483228	Radium-228	0.964	pCi/g dry	-	NORMAL
A1P3-C-08	A1P3-C-08-12R	5/18/00	0	0.5	1346294	483228	Radium-226	1.189	pCi/g dry	-	NORMAL
A1P3-C-08	A1P3-C-08-13R	5/17/00	0	0.5	1346060	483327.3	Moisture Content	23.5	PERCENT	NV	NORMAL
A1P3-C-08	A1P3-C-08-13R	5/17/00	0	0.5	1346060	483327.3	Uranium, Total	9.672	ug/g dry	-	NORMAL
A1P3-C-08	A1P3-C-08-13R	5/17/00	0	0.5	1346060	483327.3	Thorium-232	0.866	pCi/g dry	-	NORMAL
A1P3-C-08	A1P3-C-08-13R	5/17/00	0	0.5	1346060	483327.3	Radium-226	1.089	pCi/g dry	-	NORMAL
A1P3-C-08	A1P3-C-08-13R	5/17/00	0	0.5	1346060	483327.3	Radium-228	0.866	pCi/g dry	-	NORMAL
A1P3-C-08	A1P3-C-08-13R	5/17/00	0	0.5	1346060	483327.3	Thorium-228	0.86	pCi/g dry	-	NORMAL
A1P3-C-08	A1P3-C-08-14R	5/18/00	0	0.5	1346127	483355.3	Moisture Content	22.7	PERCENT	NV	NORMAL
A1P3-C-08	A1P3-C-08-14R	5/18/00	0	0.5	1346127	483355.3	Thorium-228	0.861	pCi/g dry	-	NORMAL
A1P3-C-08	A1P3-C-08-14R	5/18/00	0	0.5	1346127	483355.3	Uranium, Total	9.661	ug/g dry	-	NORMAL
A1P3-C-08	A1P3-C-08-14R	5/18/00	0	0.5	1346127	483355.3	Thorium-232	0.869	pCi/g dry	-	NORMAL
A1P3-C-08	A1P3-C-08-14R	5/18/00	0	0.5	1346127	483355.3	Radium-228	0.869	pCi/g dry	-	NORMAL
A1P3-C-08	A1P3-C-08-14R	5/18/00	0	0.5	1346127	483355.3	Radium-226	1.128	pCi/g dry	-	NORMAL
A1P3-C-08	A1P3-C-08-16R	5/18/00	0	0.5	1346286	483367.7	Moisture Content	22	PERCENT	NV	NORMAL
A1P3-C-08	A1P3-C-08-16R	5/18/00	0	0.5	1346286	483367.7	Radium-226	1.355	pCi/g dry	-	NORMAL
A1P3-C-08	A1P3-C-08-16R	5/18/00	0	0.5	1346286	483367.7	Thorium-228	1.044	pCi/g dry	-	NORMAL
A1P3-C-08	A1P3-C-08-16R	5/18/00	0	0.5	1346286	483367.7	Uranium, Total	9.262	ug/g dry	-	NORMAL
A1P3-C-08	A1P3-C-08-16R	5/18/00	0	0.5	1346286	483367.7	Thorium-232	1.039	pCi/g dry	-	NORMAL
A1P3-C-08	A1P3-C-08-16R	5/18/00	0	0.5	1346286	483367.7	Radium-228	1.039	pCi/g dry	-	NORMAL
A1P3-C-08	A1P3-C-08-16R-D	5/18/00	0	0.5	1346286	483367.7	Moisture Content	21.2	PERCENT	NV	DUPLICATE
A1P3-C-08	A1P3-C-08-16R-D	5/18/00	0	0.5	1346286	483367.7	Radium-226	1.278	pCi/g dry	-	DUPLICATE
A1P3-C-08	A1P3-C-08-16R-D	5/18/00	0	0.5	1346286	483367.7	Radium-228	1.033	pCi/g dry	-	DUPLICATE
A1P3-C-08	A1P3-C-08-16R-D	5/18/00	0	0.5	1346286	483367.7	Thorium-228	1.028	pCi/g dry	-	DUPLICATE
A1P3-C-08	A1P3-C-08-16R-D	5/18/00	0	0.5	1346286	483367.7	Uranium, Total	7.271	ug/g dry	-	DUPLICATE
A1P3-C-08	A1P3-C-08-16R-D	5/18/00	0	0.5	1346286	483367.7	Thorium-232	1.033	pCi/g dry	-	DUPLICATE
A1P3-C-08	A1P3-C-08-1R	5/17/00	0	0.5	1346104	482901.7	Moisture Content	25.6	PERCENT	NV	NORMAL
A1P3-C-08	A1P3-C-08-1R	5/17/00	0	0.5	1346104	482901.7	Thorium-228	0.893	pCi/g dry	-	NORMAL
A1P3-C-08	A1P3-C-08-1R	5/17/00	0	0.5	1346104	482901.7	Uranium, Total	5.692	ug/g dry	-	NORMAL
A1P3-C-08	A1P3-C-08-1R	5/17/00	0	0.5	1346104	482901.7	Thorium-232	0.913	pCi/g dry	-	NORMAL
A1P3-C-08	A1P3-C-08-1R	5/17/00	0	0.5	1346104	482901.7	Radium-228	0.913	pCi/g dry	-	NORMAL
A1P3-C-08	A1P3-C-08-1R	5/17/00	0	0.5	1346104	482901.7	Radium-226	1.221	pCi/g dry	-	NORMAL
A1P3-C-08	A1P3-C-08-3R	5/17/00	0	0.5	1346119	482966.8	Moisture Content	27.6	PERCENT	NV	NORMAL

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TABLE C-1
AREA 1, PHASE III, PART ONE CERTIFICATION DATA

CU	Sample ID	Sample Date	Depth Top	Depth Bottom	East 83	North 83	Parameter	Result	Units	Val. Qual.	QA Type
A1P3-C-08	A1P3-C-08-3R	5/17/00	0	0.5	1346119	482966.8	Radium-226	1.258	pCi/g dry	-	NORMAL
A1P3-C-08	A1P3-C-08-3R	5/17/00	0	0.5	1346119	482966.8	Thorium-228	0.92	pCi/g dry	-	NORMAL
A1P3-C-08	A1P3-C-08-3R	5/17/00	0	0.5	1346119	482966.8	Uranium, Total	10.112	ug/g dry	-	NORMAL
A1P3-C-08	A1P3-C-08-3R	5/17/00	0	0.5	1346119	482966.8	Thorium-232	0.974	pCi/g dry	-	NORMAL
A1P3-C-08	A1P3-C-08-3R	5/17/00	0	0.5	1346119	482966.8	Radium-228	0.974	pCi/g dry	-	NORMAL
A1P3-C-08	A1P3-C-08-4R	5/18/00	0	0.5	1346268	483028.2	Moisture Content	26.4	PERCENT	NV	NORMAL
A1P3-C-08	A1P3-C-08-4R	5/18/00	0	0.5	1346268	483028.2	Radium-228	0.791	pCi/g dry	-	NORMAL
A1P3-C-08	A1P3-C-08-4R	5/18/00	0	0.5	1346268	483028.2	Radium-226	1.064	pCi/g dry	-	NORMAL
A1P3-C-08	A1P3-C-08-4R	5/18/00	0	0.5	1346268	483028.2	Thorium-228	0.802	pCi/g dry	-	NORMAL
A1P3-C-08	A1P3-C-08-4R	5/18/00	0	0.5	1346268	483028.2	Uranium, Total	12.582	ug/g dry	-	NORMAL
A1P3-C-08	A1P3-C-08-4R	5/18/00	0	0.5	1346268	483028.2	Thorium-232	0.791	pCi/g dry	-	NORMAL
A1P3-C-08	A1P3-C-08-5R	5/17/00	0	0.5	1346076	483085.2	Moisture Content	26.9	PERCENT	NV	NORMAL
A1P3-C-08	A1P3-C-08-5R	5/17/00	0	0.5	1346076	483085.2	Uranium, Total	7.618	ug/g dry	-	NORMAL
A1P3-C-08	A1P3-C-08-5R	5/17/00	0	0.5	1346076	483085.2	Thorium-232	0.718	pCi/g dry	-	NORMAL
A1P3-C-08	A1P3-C-08-5R	5/17/00	0	0.5	1346076	483085.2	Radium-226	0.945	pCi/g dry	-	NORMAL
A1P3-C-08	A1P3-C-08-5R	5/17/00	0	0.5	1346076	483085.2	Thorium-228	0.704	pCi/g dry	-	NORMAL
A1P3-C-08	A1P3-C-08-5R	5/17/00	0	0.5	1346076	483085.2	Radium-228	0.718	pCi/g dry	-	NORMAL
A1P3-C-08	A1P3-C-08-6R	5/17/00	0	0.5	1346110	483129	Moisture Content	30.2	PERCENT	NV	NORMAL
A1P3-C-08	A1P3-C-08-6R	5/17/00	0	0.5	1346110	483129	Thorium-228	0.83	pCi/g dry	-	NORMAL
A1P3-C-08	A1P3-C-08-6R	5/17/00	0	0.5	1346110	483129	Uranium, Total	10.902	ug/g dry	-	NORMAL
A1P3-C-08	A1P3-C-08-6R	5/17/00	0	0.5	1346110	483129	Thorium-232	0.838	pCi/g dry	-	NORMAL
A1P3-C-08	A1P3-C-08-6R	5/17/00	0	0.5	1346110	483129	Radium-228	0.838	pCi/g dry	-	NORMAL
A1P3-C-08	A1P3-C-08-6R	5/17/00	0	0.5	1346110	483129	Radium-226	1.139	pCi/g dry	-	NORMAL
A1P3-C-08	A1P3-C-08-8R	5/18/00	0	0.5	1346250	483124.8	Moisture Content	17.7	PERCENT	NV	NORMAL
A1P3-C-08	A1P3-C-08-8R	5/18/00	0	0.5	1346250	483124.8	Radium-226	1.027	pCi/g dry	-	NORMAL
A1P3-C-08	A1P3-C-08-8R	5/18/00	0	0.5	1346250	483124.8	Thorium-228	0.707	pCi/g dry	-	NORMAL
A1P3-C-08	A1P3-C-08-8R	5/18/00	0	0.5	1346250	483124.8	Uranium, Total	8.041	ug/g dry	-	NORMAL
A1P3-C-08	A1P3-C-08-8R	5/18/00	0	0.5	1346250	483124.8	Thorium-232	0.731	pCi/g dry	-	NORMAL
A1P3-C-08	A1P3-C-08-8R	5/18/00	0	0.5	1346250	483124.8	Radium-228	0.731	pCi/g dry	-	NORMAL
A1P3-C-08	A1P3-C-08-9R	5/17/00	0	0.5	1346081	483243.9	Moisture Content	27.1	PERCENT	NV	NORMAL
A1P3-C-08	A1P3-C-08-9R	5/17/00	0	0.5	1346081	483243.9	Radium-228	1.047	pCi/g dry	-	NORMAL
A1P3-C-08	A1P3-C-08-9R	5/17/00	0	0.5	1346081	483243.9	Radium-226	1.311	pCi/g dry	-	NORMAL
A1P3-C-08	A1P3-C-08-9R	5/17/00	0	0.5	1346081	483243.9	Thorium-228	1.04	pCi/g dry	-	NORMAL
A1P3-C-08	A1P3-C-08-9R	5/17/00	0	0.5	1346081	483243.9	Uranium, Total	8.282	ug/g dry	-	NORMAL
A1P3-C-08	A1P3-C-08-9R	5/17/00	0	0.5	1346081	483243.9	Thorium-232	1.047	pCi/g dry	-	NORMAL
A1P3-C-09	A1P3-C-09-11R	5/8/00	0	0.5	1346781	483900.2	Moisture Content	24.5	PERCENT	NV	NORMAL
A1P3-C-09	A1P3-C-09-11R	5/8/00	0	0.5	1346781	483900.2	Thorium-228	1.081	pCi/g dry	-	NORMAL
A1P3-C-09	A1P3-C-09-11R	5/8/00	0	0.5	1346781	483900.2	Uranium, Total	7.781	ug/g dry	-	NORMAL
A1P3-C-09	A1P3-C-09-11R	5/8/00	0	0.5	1346781	483900.2	Thorium-232	1.101	pCi/g dry	-	NORMAL
A1P3-C-09	A1P3-C-09-11R	5/8/00	0	0.5	1346781	483900.2	Radium-228	1.101	pCi/g dry	-	NORMAL
A1P3-C-09	A1P3-C-09-11R	5/8/00	0	0.5	1346781	483900.2	Radium-226	1.257	pCi/g dry	-	NORMAL

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TABLE C-1
AREA 1, PHASE III, PART ONE CERTIFICATION DATA

CU	Sample ID	Sample Date	Depth Top	Depth Bottom	East 83	North 83	Parameter	Result	Units	Val. Qual.	QA Type
A1P3-C-09	A1P3-C-09-12R	5/8/00	0	0.5	1346847	483862.7	Moisture Content	24.7	PERCENT	NV	NORMAL
A1P3-C-09	A1P3-C-09-12R	5/8/00	0	0.5	1346847	483862.7	Radium-226	1.251	pCi/g dry	-	NORMAL
A1P3-C-09	A1P3-C-09-12R	5/8/00	0	0.5	1346847	483862.7	Thorium-228	0.975	pCi/g dry	-	NORMAL
A1P3-C-09	A1P3-C-09-12R	5/8/00	0	0.5	1346847	483862.7	Uranium, Total	4.981	ug/g dry	-	NORMAL
A1P3-C-09	A1P3-C-09-12R	5/8/00	0	0.5	1346847	483862.7	Thorium-232	0.999	pCi/g dry	-	NORMAL
A1P3-C-09	A1P3-C-09-12R	5/8/00	0	0.5	1346847	483862.7	Radium-228	0.999	pCi/g dry	-	NORMAL
A1P3-C-09	A1P3-C-09-13R	5/8/00	0	0.5	1346958	483660.9	Moisture Content	22.6	PERCENT	NV	NORMAL
A1P3-C-09	A1P3-C-09-13R	5/8/00	0	0.5	1346958	483660.9	Radium-226	1.159	pCi/g dry	-	NORMAL
A1P3-C-09	A1P3-C-09-13R	5/8/00	0	0.5	1346958	483660.9	Radium-228	0.985	pCi/g dry	-	NORMAL
A1P3-C-09	A1P3-C-09-13R	5/8/00	0	0.5	1346958	483660.9	Thorium-228	0.968	pCi/g dry	-	NORMAL
A1P3-C-09	A1P3-C-09-13R	5/8/00	0	0.5	1346958	483660.9	Uranium, Total	7.162	ug/g dry	-	NORMAL
A1P3-C-09	A1P3-C-09-13R	5/8/00	0	0.5	1346958	483660.9	Thorium-232	0.985	pCi/g dry	-	NORMAL
A1P3-C-09	A1P3-C-09-14R	5/8/00	0	0.5	1347079	483628	Moisture Content	23.4	PERCENT	NV	NORMAL
A1P3-C-09	A1P3-C-09-14R	5/8/00	0	0.5	1347079	483628	Uranium, Total	5.111	ug/g dry	-	NORMAL
A1P3-C-09	A1P3-C-09-14R	5/8/00	0	0.5	1347079	483628	Thorium-232	1.059	pCi/g dry	-	NORMAL
A1P3-C-09	A1P3-C-09-14R	5/8/00	0	0.5	1347079	483628	Radium-226	1.231	pCi/g dry	-	NORMAL
A1P3-C-09	A1P3-C-09-14R	5/8/00	0	0.5	1347079	483628	Radium-228	1.059	pCi/g dry	-	NORMAL
A1P3-C-09	A1P3-C-09-14R	5/8/00	0	0.5	1347079	483628	Thorium-228	1.02	pCi/g dry	-	NORMAL
A1P3-C-09	A1P3-C-09-16R	5/8/00	0	0.5	1346967	483873.2	Moisture Content	21.5	PERCENT	NV	NORMAL
A1P3-C-09	A1P3-C-09-16R	5/8/00	0	0.5	1346967	483873.2	Thorium-228	1.048	pCi/g dry	-	NORMAL
A1P3-C-09	A1P3-C-09-16R	5/8/00	0	0.5	1346967	483873.2	Uranium, Total	7.675	ug/g dry	-	NORMAL
A1P3-C-09	A1P3-C-09-16R	5/8/00	0	0.5	1346967	483873.2	Thorium-232	1.053	pCi/g dry	-	NORMAL
A1P3-C-09	A1P3-C-09-16R	5/8/00	0	0.5	1346967	483873.2	Radium-228	1.053	pCi/g dry	-	NORMAL
A1P3-C-09	A1P3-C-09-16R	5/8/00	0	0.5	1346967	483873.2	Radium-226	1.316	pCi/g dry	-	NORMAL
A1P3-C-09	A1P3-C-09-1R	5/8/00	0	0.5	1346373	483616	Moisture Content	18.9	PERCENT	NV	NORMAL
A1P3-C-09	A1P3-C-09-1R	5/8/00	0	0.5	1346373	483616	Radium-226	1.183	pCi/g dry	-	NORMAL
A1P3-C-09	A1P3-C-09-1R	5/8/00	0	0.5	1346373	483616	Thorium-228	0.827	pCi/g dry	-	NORMAL
A1P3-C-09	A1P3-C-09-1R	5/8/00	0	0.5	1346373	483616	Uranium, Total	4.988	ug/g dry	-	NORMAL
A1P3-C-09	A1P3-C-09-1R	5/8/00	0	0.5	1346373	483616	Thorium-232	0.839	pCi/g dry	J	NORMAL
A1P3-C-09	A1P3-C-09-1R	5/8/00	0	0.5	1346373	483616	Radium-228	0.839	pCi/g dry	J	NORMAL
A1P3-C-09	A1P3-C-09-2R	5/8/00	0	0.5	1346482	483638.7	Moisture Content	23.5	PERCENT	NV	NORMAL
A1P3-C-09	A1P3-C-09-2R	5/8/00	0	0.5	1346482	483638.7	Thorium-228	0.902	pCi/g dry	-	NORMAL
A1P3-C-09	A1P3-C-09-2R	5/8/00	0	0.5	1346482	483638.7	Uranium, Total	7.329	ug/g dry	-	NORMAL
A1P3-C-09	A1P3-C-09-2R	5/8/00	0	0.5	1346482	483638.7	Thorium-232	0.912	pCi/g dry	-	NORMAL
A1P3-C-09	A1P3-C-09-2R	5/8/00	0	0.5	1346482	483638.7	Radium-228	0.912	pCi/g dry	-	NORMAL
A1P3-C-09	A1P3-C-09-2R	5/8/00	0	0.5	1346482	483638.7	Radium-226	1.059	pCi/g dry	-	NORMAL
A1P3-C-09	A1P3-C-09-3R	5/8/00	0	0.5	1346365	483702.5	Moisture Content	20.7	PERCENT	NV	NORMAL
A1P3-C-09	A1P3-C-09-3R	5/8/00	0	0.5	1346365	483702.5	Radium-226	1.173	pCi/g dry	-	NORMAL
A1P3-C-09	A1P3-C-09-3R	5/8/00	0	0.5	1346365	483702.5	Thorium-228	0.98	pCi/g dry	-	NORMAL
A1P3-C-09	A1P3-C-09-3R	5/8/00	0	0.5	1346365	483702.5	Uranium, Total	7.858	ug/g dry	-	NORMAL
A1P3-C-09	A1P3-C-09-3R	5/8/00	0	0.5	1346365	483702.5	Thorium-232	0.992	pCi/g dry	-	NORMAL

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TABLE C-1
AREA 1, PHASE III, PART ONE CERTIFICATION DATA

CU	Sample ID	Sample Date	Depth Top	Depth Bottom	East 83	North 83	Parameter	Result	Units	Val. Qual.	QA Type
A1P3-C-09	A1P3-C-09-3R	5/8/00	0	0.5	1346365	483702.5	Radium-228	0.992	pCi/g dry	-	NORMAL
A1P3-C-09	A1P3-C-09-5R	5/8/00	0	0.5	1346592	483718.6	Moisture Content	23.1	PERCENT	NV	NORMAL
A1P3-C-09	A1P3-C-09-5R	5/8/00	0	0.5	1346592	483718.6	Radium-226	1.287	pCi/g dry	-	NORMAL
A1P3-C-09	A1P3-C-09-5R	5/8/00	0	0.5	1346592	483718.6	Radium-228	1.119	pCi/g dry	-	NORMAL
A1P3-C-09	A1P3-C-09-5R	5/8/00	0	0.5	1346592	483718.6	Thorium-228	1.109	pCi/g dry	-	NORMAL
A1P3-C-09	A1P3-C-09-5R	5/8/00	0	0.5	1346592	483718.6	Uranium, Total	6.011	ug/g dry	-	NORMAL
A1P3-C-09	A1P3-C-09-5R	5/8/00	0	0.5	1346592	483718.6	Thorium-232	1.119	pCi/g dry	-	NORMAL
A1P3-C-09	A1P3-C-09-5R-D	5/8/00	0	0.5	1346592	483718.6	Moisture Content	24.6	PERCENT	NV	DUPLICATE
A1P3-C-09	A1P3-C-09-5R-D	5/8/00	0	0.5	1346592	483718.6	Uranium, Total	8.276	ug/g dry	-	DUPLICATE
A1P3-C-09	A1P3-C-09-5R-D	5/8/00	0	0.5	1346592	483718.6	Thorium-232	0.968	pCi/g dry	-	DUPLICATE
A1P3-C-09	A1P3-C-09-5R-D	5/8/00	0	0.5	1346592	483718.6	Radium-226	1.324	pCi/g dry	-	DUPLICATE
A1P3-C-09	A1P3-C-09-5R-D	5/8/00	0	0.5	1346592	483718.6	Radium-228	0.968	pCi/g dry	-	DUPLICATE
A1P3-C-09	A1P3-C-09-5R-D	5/8/00	0	0.5	1346592	483718.6	Thorium-228	0.955	pCi/g dry	-	DUPLICATE
A1P3-C-09	A1P3-C-09-6R	5/8/00	0	0.5	1346697	483670.7	Moisture Content	24.6	PERCENT	NV	NORMAL
A1P3-C-09	A1P3-C-09-6R	5/8/00	0	0.5	1346697	483670.7	Thorium-228	1.091	pCi/g dry	-	NORMAL
A1P3-C-09	A1P3-C-09-6R	5/8/00	0	0.5	1346697	483670.7	Uranium, Total	6.951	ug/g dry	-	NORMAL
A1P3-C-09	A1P3-C-09-6R	5/8/00	0	0.5	1346697	483670.7	Thorium-232	1.11	pCi/g dry	-	NORMAL
A1P3-C-09	A1P3-C-09-6R	5/8/00	0	0.5	1346697	483670.7	Radium-228	1.11	pCi/g dry	-	NORMAL
A1P3-C-09	A1P3-C-09-6R	5/8/00	0	0.5	1346697	483670.7	Radium-226	1.338	pCi/g dry	-	NORMAL
A1P3-C-09	A1P3-C-09-7R	5/8/00	0	0.5	1346640	483789.8	Moisture Content	28.5	PERCENT	NV	NORMAL
A1P3-C-09	A1P3-C-09-7R	5/8/00	0	0.5	1346640	483789.8	Radium-226	1.364	pCi/g dry	-	NORMAL
A1P3-C-09	A1P3-C-09-7R	5/8/00	0	0.5	1346640	483789.8	Thorium-228	1.107	pCi/g dry	-	NORMAL
A1P3-C-09	A1P3-C-09-7R	5/8/00	0	0.5	1346640	483789.8	Uranium, Total	2.849	ug/g dry	U	NORMAL
A1P3-C-09	A1P3-C-09-7R	5/8/00	0	0.5	1346640	483789.8	Thorium-232	1.125	pCi/g dry	-	NORMAL
A1P3-C-09	A1P3-C-09-7R	5/8/00	0	0.5	1346640	483789.8	Radium-228	1.125	pCi/g dry	-	NORMAL
A1P3-C-09	A1P3-C-09-9R	5/8/00	0	0.5	1346818	483750.3	Moisture Content	16.8	PERCENT	NV	NORMAL
A1P3-C-09	A1P3-C-09-9R	5/8/00	0	0.5	1346818	483750.3	Radium-226	1.146	pCi/g dry	-	NORMAL
A1P3-C-09	A1P3-C-09-9R	5/8/00	0	0.5	1346818	483750.3	Radium-228	0.995	pCi/g dry	-	NORMAL
A1P3-C-09	A1P3-C-09-9R	5/8/00	0	0.5	1346818	483750.3	Thorium-228	0.956	pCi/g dry	-	NORMAL
A1P3-C-09	A1P3-C-09-9R	5/8/00	0	0.5	1346818	483750.3	Uranium, Total	6.338	ug/g dry	-	NORMAL
A1P3-C-09	A1P3-C-09-9R	5/8/00	0	0.5	1346818	483750.3	Thorium-232	0.995	pCi/g dry	-	NORMAL
A1P3-C-10	A1P3-C-10-11R	5/3/00	0	0.5	1347599	483807.7	Moisture Content	18.6	PERCENT	NV	NORMAL
A1P3-C-10	A1P3-C-10-11R	5/3/00	0	0.5	1347599	483807.7	Uranium, Total	9.199	ug/g dry	-	NORMAL
A1P3-C-10	A1P3-C-10-11R	5/3/00	0	0.5	1347599	483807.7	Thorium-232	1.076	pCi/g dry	-	NORMAL
A1P3-C-10	A1P3-C-10-11R	5/3/00	0	0.5	1347599	483807.7	Radium-226	1.279	pCi/g dry	-	NORMAL
A1P3-C-10	A1P3-C-10-11R	5/3/00	0	0.5	1347599	483807.7	Radium-228	1.076	pCi/g dry	-	NORMAL
A1P3-C-10	A1P3-C-10-11R	5/3/00	0	0.5	1347599	483807.7	Thorium-228	1.047	pCi/g dry	-	NORMAL
A1P3-C-10	A1P3-C-10-12R	5/3/00	0	0.5	1347733	483819.2	Moisture Content	24.1	PERCENT	NV	NORMAL
A1P3-C-10	A1P3-C-10-12R	5/3/00	0	0.5	1347733	483819.2	Thorium-228	1.042	pCi/g dry	-	NORMAL
A1P3-C-10	A1P3-C-10-12R	5/3/00	0	0.5	1347733	483819.2	Uranium, Total	6.905	ug/g dry	-	NORMAL
A1P3-C-10	A1P3-C-10-12R	5/3/00	0	0.5	1347733	483819.2	Thorium-232	1.058	pCi/g dry	-	NORMAL

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TABLE C-1
AREA 1, PHASE III, PART ONE CERTIFICATION DATA

CU	Sample ID	Sample Date	Depth Top	Depth Bottom	East 83	North 83	Parameter	Result	Units	Val. Qual.	QA Type
A1P3-C-10	A1P3-C-10-12R	5/3/00	0	0.5	1347733	483819.2	Radium-228	1.058	pCi/g dry	-	NORMAL
A1P3-C-10	A1P3-C-10-12R	5/3/00	0	0.5	1347733	483819.2	Radium-226	1.216	pCi/g dry	-	NORMAL
A1P3-C-10	A1P3-C-10-13R	5/3/00	0	0.5	1347853	483814.8	Moisture Content	17.9	PERCENT	NV	NORMAL
A1P3-C-10	A1P3-C-10-13R	5/3/00	0	0.5	1347853	483814.8	Radium-226	0.95	pCi/g dry	-	NORMAL
A1P3-C-10	A1P3-C-10-13R	5/3/00	0	0.5	1347853	483814.8	Thorium-228	0.929	pCi/g dry	-	NORMAL
A1P3-C-10	A1P3-C-10-13R	5/3/00	0	0.5	1347853	483814.8	Uranium, Total	7.739	ug/g dry	-	NORMAL
A1P3-C-10	A1P3-C-10-13R	5/3/00	0	0.5	1347853	483814.8	Thorium-232	0.966	pCi/g dry	-	NORMAL
A1P3-C-10	A1P3-C-10-13R	5/3/00	0	0.5	1347853	483814.8	Radium-228	0.966	pCi/g dry	-	NORMAL
A1P3-C-10	A1P3-C-10-14R	5/3/00	0	0.5	1347902	483763.4	Moisture Content	20.7	PERCENT	NV	NORMAL
A1P3-C-10	A1P3-C-10-14R	5/3/00	0	0.5	1347902	483763.4	Uranium, Total	8.232	ug/g dry	-	NORMAL
A1P3-C-10	A1P3-C-10-14R	5/3/00	0	0.5	1347902	483763.4	Thorium-232	0.905	pCi/g dry	-	NORMAL
A1P3-C-10	A1P3-C-10-14R	5/3/00	0	0.5	1347902	483763.4	Radium-226	1.091	pCi/g dry	-	NORMAL
A1P3-C-10	A1P3-C-10-14R	5/3/00	0	0.5	1347902	483763.4	Radium-228	0.905	pCi/g dry	-	NORMAL
A1P3-C-10	A1P3-C-10-14R	5/3/00	0	0.5	1347902	483763.4	Thorium-228	0.869	pCi/g dry	-	NORMAL
A1P3-C-10	A1P3-C-10-16R	5/3/00	0	0.5	1348132	483761.4	Moisture Content	22.2	PERCENT	NV	NORMAL
A1P3-C-10	A1P3-C-10-16R	5/3/00	0	0.5	1348132	483761.4	Thorium-228	1.032	pCi/g dry	-	NORMAL
A1P3-C-10	A1P3-C-10-16R	5/3/00	0	0.5	1348132	483761.4	Uranium, Total	8.473	ug/g dry	-	NORMAL
A1P3-C-10	A1P3-C-10-16R	5/3/00	0	0.5	1348132	483761.4	Thorium-232	1.036	pCi/g dry	-	NORMAL
A1P3-C-10	A1P3-C-10-16R	5/3/00	0	0.5	1348132	483761.4	Radium-228	1.036	pCi/g dry	-	NORMAL
A1P3-C-10	A1P3-C-10-16R	5/3/00	0	0.5	1348132	483761.4	Radium-226	1.286	pCi/g dry	-	NORMAL
A1P3-C-10	A1P3-C-10-2R	5/3/00	0	0.5	1347261	483671.5	Moisture Content	21.6	PERCENT	NV	NORMAL
A1P3-C-10	A1P3-C-10-2R	5/3/00	0	0.5	1347261	483671.5	Thorium-228	0.974	pCi/g dry	-	NORMAL
A1P3-C-10	A1P3-C-10-2R	5/3/00	0	0.5	1347261	483671.5	Thorium-232	1.022	pCi/g dry	-	NORMAL
A1P3-C-10	A1P3-C-10-2R	5/3/00	0	0.5	1347261	483671.5	Radium-228	1.022	pCi/g dry	-	NORMAL
A1P3-C-10	A1P3-C-10-2R	5/3/00	0	0.5	1347261	483671.5	Radium-226	1.044	pCi/g dry	-	NORMAL
A1P3-C-10	A1P3-C-10-2R	5/3/00	0	0.5	1347261	483671.5	Uranium, Total	7.421	ug/g dry	-	NORMAL
A1P3-C-10	A1P3-C-10-3R	5/9/00	0	0.5	1347177	483900.5	Moisture Content	16.4	PERCENT	NV	NORMAL
A1P3-C-10	A1P3-C-10-3R	5/9/00	0	0.5	1347177	483900.5	Radium-226	1.313	pCi/g dry	-	NORMAL
A1P3-C-10	A1P3-C-10-3R	5/9/00	0	0.5	1347177	483900.5	Thorium-228	0.927	pCi/g dry	-	NORMAL
A1P3-C-10	A1P3-C-10-3R	5/9/00	0	0.5	1347177	483900.5	Uranium, Total	5.395	ug/g dry	-	NORMAL
A1P3-C-10	A1P3-C-10-3R	5/9/00	0	0.5	1347177	483900.5	Thorium-232	0.927	pCi/g dry	-	NORMAL
A1P3-C-10	A1P3-C-10-3R	5/9/00	0	0.5	1347177	483900.5	Radium-228	0.927	pCi/g dry	-	NORMAL
A1P3-C-10	A1P3-C-10-4R	5/3/00	0	0.5	1347213	483834.5	Moisture Content	16.7	PERCENT	NV	NORMAL
A1P3-C-10	A1P3-C-10-4R	5/3/00	0	0.5	1347213	483834.5	Radium-228	0.982	pCi/g dry	-	NORMAL
A1P3-C-10	A1P3-C-10-4R	5/3/00	0	0.5	1347213	483834.5	Thorium-228	0.945	pCi/g dry	-	NORMAL
A1P3-C-10	A1P3-C-10-4R	5/3/00	0	0.5	1347213	483834.5	Uranium, Total	7.87	ug/g dry	-	NORMAL
A1P3-C-10	A1P3-C-10-4R	5/3/00	0	0.5	1347213	483834.5	Thorium-232	0.982	pCi/g dry	-	NORMAL
A1P3-C-10	A1P3-C-10-4R	5/3/00	0	0.5	1347213	483834.5	Radium-226	1.193	pCi/g dry	-	NORMAL
A1P3-C-10	A1P3-C-10-6R	5/3/00	0	0.5	1347487	483711.2	Moisture Content	25.4	PERCENT	NV	NORMAL
A1P3-C-10	A1P3-C-10-6R	5/3/00	0	0.5	1347487	483711.2	Radium-226	1.243	pCi/g dry	-	NORMAL
A1P3-C-10	A1P3-C-10-6R	5/3/00	0	0.5	1347487	483711.2	Radium-228	1.01	pCi/g dry	-	NORMAL

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TABLE C-1
AREA 1, PHASE III, PART ONE CERTIFICATION DATA

CU	Sample ID	Sample Date	Depth Top	Depth Bottom	East 83	North 83	Parameter	Result	Units	Val. Qual.	QA Type
A1P3-C-10	A1P3-C-10-6R	5/3/00	0	0.5	1347487	483711.2	Thorium-228	1.01	pCi/g dry	-	NORMAL
A1P3-C-10	A1P3-C-10-6R	5/3/00	0	0.5	1347487	483711.2	Uranium, Total	14.037	ug/g dry	-	NORMAL
A1P3-C-10	A1P3-C-10-6R	5/3/00	0	0.5	1347487	483711.2	Thorium-232	1.01	pCi/g dry	-	NORMAL
A1P3-C-10	A1P3-C-10-7R	5/3/00	0	0.5	1347326	483819.7	Moisture Content	19.8	PERCENT	NV	NORMAL
A1P3-C-10	A1P3-C-10-7R	5/3/00	0	0.5	1347326	483819.7	Uranium, Total	9.668	ug/g dry	-	NORMAL
A1P3-C-10	A1P3-C-10-7R	5/3/00	0	0.5	1347326	483819.7	Thorium-232	0.978	pCi/g dry	-	NORMAL
A1P3-C-10	A1P3-C-10-7R	5/3/00	0	0.5	1347326	483819.7	Radium-226	1.081	pCi/g dry	-	NORMAL
A1P3-C-10	A1P3-C-10-7R	5/3/00	0	0.5	1347326	483819.7	Radium-228	0.978	pCi/g dry	-	NORMAL
A1P3-C-10	A1P3-C-10-7R	5/3/00	0	0.5	1347326	483819.7	Thorium-228	0.963	pCi/g dry	-	NORMAL
A1P3-C-10	A1P3-C-10-8R	5/3/00	0	0.5	1347457	483869.2	Moisture Content	19.5	PERCENT	NV	NORMAL
A1P3-C-10	A1P3-C-10-8R	5/3/00	0	0.5	1347457	483869.2	Thorium-228	0.997	pCi/g dry	-	NORMAL
A1P3-C-10	A1P3-C-10-8R	5/3/00	0	0.5	1347457	483869.2	Uranium, Total	4.955	ug/g dry	-	NORMAL
A1P3-C-10	A1P3-C-10-8R	5/3/00	0	0.5	1347457	483869.2	Thorium-232	1.024	pCi/g dry	-	NORMAL
A1P3-C-10	A1P3-C-10-8R	5/3/00	0	0.5	1347457	483869.2	Radium-228	1.024	pCi/g dry	-	NORMAL
A1P3-C-10	A1P3-C-10-8R	5/3/00	0	0.5	1347457	483869.2	Radium-226	1.224	pCi/g dry	-	NORMAL
A1P3-C-10	A1P3-C-10-8R-D	5/3/00	0	0.5	1347457	483869.2	Moisture Content	17.1	PERCENT	NV	DUPLICATE
A1P3-C-10	A1P3-C-10-8R-D	5/3/00	0	0.5	1347457	483869.2	Radium-226	1.278	pCi/g dry	-	DUPLICATE
A1P3-C-10	A1P3-C-10-8R-D	5/3/00	0	0.5	1347457	483869.2	Thorium-228	1.115	pCi/g dry	-	DUPLICATE
A1P3-C-10	A1P3-C-10-8R-D	5/3/00	0	0.5	1347457	483869.2	Uranium, Total	4.837	ug/g dry	J	DUPLICATE
A1P3-C-10	A1P3-C-10-8R-D	5/3/00	0	0.5	1347457	483869.2	Thorium-232	1.129	pCi/g dry	-	DUPLICATE
A1P3-C-10	A1P3-C-10-8R-D	5/3/00	0	0.5	1347457	483869.2	Radium-228	1.129	pCi/g dry	-	DUPLICATE
A1P3-C-10	A1P3-C-10-9R	5/3/00	0	0.5	1347575	483720.2	Moisture Content	16.8	PERCENT	NV	NORMAL
A1P3-C-10	A1P3-C-10-9R	5/3/00	0	0.5	1347575	483720.2	Radium-226	1.334	pCi/g dry	-	NORMAL
A1P3-C-10	A1P3-C-10-9R	5/3/00	0	0.5	1347575	483720.2	Radium-228	1.094	pCi/g dry	-	NORMAL
A1P3-C-10	A1P3-C-10-9R	5/3/00	0	0.5	1347575	483720.2	Thorium-228	1.08	pCi/g dry	-	NORMAL
A1P3-C-10	A1P3-C-10-9R	5/3/00	0	0.5	1347575	483720.2	Uranium, Total	6.173	ug/g dry	-	NORMAL
A1P3-C-10	A1P3-C-10-9R	5/3/00	0	0.5	1347575	483720.2	Thorium-232	1.094	pCi/g dry	-	NORMAL
A1P3-C-11	A1P3-C-11-10R	5/8/00	0	0.5	1347563	483456.2	Moisture Content	22	PERCENT	NV	NORMAL
A1P3-C-11	A1P3-C-11-10R	5/8/00	0	0.5	1347563	483456.2	Radium-226	1.28	pCi/g dry	-	NORMAL
A1P3-C-11	A1P3-C-11-10R	5/8/00	0	0.5	1347563	483456.2	Thorium-228	0.981	pCi/g dry	-	NORMAL
A1P3-C-11	A1P3-C-11-10R	5/8/00	0	0.5	1347563	483456.2	Uranium, Total	9.712	ug/g dry	-	NORMAL
A1P3-C-11	A1P3-C-11-10R	5/8/00	0	0.5	1347563	483456.2	Thorium-232	1.001	pCi/g dry	-	NORMAL
A1P3-C-11	A1P3-C-11-10R	5/8/00	0	0.5	1347563	483456.2	Radium-228	1.001	pCi/g dry	-	NORMAL
A1P3-C-11	A1P3-C-11-12R	5/8/00	0	0.5	1347738	483567.7	Moisture Content	19	PERCENT	NV	NORMAL
A1P3-C-11	A1P3-C-11-12R	5/8/00	0	0.5	1347738	483567.7	Radium-226	1.388	pCi/g dry	-	NORMAL
A1P3-C-11	A1P3-C-11-12R	5/8/00	0	0.5	1347738	483567.7	Radium-228	1.07	pCi/g dry	-	NORMAL
A1P3-C-11	A1P3-C-11-12R	5/8/00	0	0.5	1347738	483567.7	Thorium-228	1.032	pCi/g dry	-	NORMAL
A1P3-C-11	A1P3-C-11-12R	5/8/00	0	0.5	1347738	483567.7	Uranium, Total	8.631	ug/g dry	-	NORMAL
A1P3-C-11	A1P3-C-11-12R	5/8/00	0	0.5	1347738	483567.7	Thorium-232	1.07	pCi/g dry	-	NORMAL
A1P3-C-11	A1P3-C-11-14R	5/8/00	0	0.5	1348031	483505.5	Moisture Content	21.4	PERCENT	NV	NORMAL
A1P3-C-11	A1P3-C-11-14R	5/8/00	0	0.5	1348031	483505.5	Thorium-228	0.978	pCi/g dry	-	NORMAL

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TABLE C-1
AREA 1, PHASE III, PART ONE CERTIFICATION DATA

CU	Sample ID	Sample Date	Depth Top	Depth Bottom	East 83	North 83	Parameter	Result	Units	Val. Qual.	QA Type
A1P3-C-11	A1P3-C-11-14R	5/8/00	0	0.5	1348031	483505.5	Thorium-232	0.982	pCi/g dry	-	NORMAL
A1P3-C-11	A1P3-C-11-14R	5/8/00	0	0.5	1348031	483505.5	Radium-228	0.982	pCi/g dry	-	NORMAL
A1P3-C-11	A1P3-C-11-14R	5/8/00	0	0.5	1348031	483505.5	Radium-226	1.1	pCi/g dry	-	NORMAL
A1P3-C-11	A1P3-C-11-14R	5/8/00	0	0.5	1348031	483505.5	Uranium, Total	7.812	ug/g dry	-	NORMAL
A1P3-C-11	A1P3-C-11-15R	5/8/00	0	0.5	1347942	483631.7	Moisture Content	20.6	PERCENT	NV	NORMAL
A1P3-C-11	A1P3-C-11-15R	5/8/00	0	0.5	1347942	483631.7	Uranium, Total	8.126	ug/g dry	-	NORMAL
A1P3-C-11	A1P3-C-11-15R	5/8/00	0	0.5	1347942	483631.7	Thorium-232	0.896	pCi/g dry	-	NORMAL
A1P3-C-11	A1P3-C-11-15R	5/8/00	0	0.5	1347942	483631.7	Thorium-228	0.874	pCi/g dry	-	NORMAL
A1P3-C-11	A1P3-C-11-15R	5/8/00	0	0.5	1347942	483631.7	Radium-228	0.896	pCi/g dry	-	NORMAL
A1P3-C-11	A1P3-C-11-15R	5/8/00	0	0.5	1347942	483631.7	Radium-226	1.055	pCi/g dry	-	NORMAL
A1P3-C-11	A1P3-C-11-16R	5/8/00	0	0.5	1348049	483637.6	Moisture Content	18.7	PERCENT	NV	NORMAL
A1P3-C-11	A1P3-C-11-16R	5/8/00	0	0.5	1348049	483637.6	Radium-226	1.01	pCi/g dry	-	NORMAL
A1P3-C-11	A1P3-C-11-16R	5/8/00	0	0.5	1348049	483637.6	Thorium-228	0.949	pCi/g dry	-	NORMAL
A1P3-C-11	A1P3-C-11-16R	5/8/00	0	0.5	1348049	483637.6	Uranium, Total	9.243	ug/g dry	-	NORMAL
A1P3-C-11	A1P3-C-11-16R	5/8/00	0	0.5	1348049	483637.6	Thorium-232	0.938	pCi/g dry	-	NORMAL
A1P3-C-11	A1P3-C-11-16R	5/8/00	0	0.5	1348049	483637.6	Radium-228	0.938	pCi/g dry	-	NORMAL
A1P3-C-11	A1P3-C-11-1R	5/8/00	0	0.5	1346499	483438	Moisture Content	20.7	PERCENT	NV	NORMAL
A1P3-C-11	A1P3-C-11-1R	5/8/00	0	0.5	1346499	483438	Radium-226	1.17	pCi/g dry	-	NORMAL
A1P3-C-11	A1P3-C-11-1R	5/8/00	0	0.5	1346499	483438	Thorium-228	0.928	pCi/g dry	-	NORMAL
A1P3-C-11	A1P3-C-11-1R	5/8/00	0	0.5	1346499	483438	Uranium, Total	5.961	ug/g dry	-	NORMAL
A1P3-C-11	A1P3-C-11-1R	5/8/00	0	0.5	1346499	483438	Thorium-232	0.964	pCi/g dry	-	NORMAL
A1P3-C-11	A1P3-C-11-1R	5/8/00	0	0.5	1346499	483438	Radium-228	0.964	pCi/g dry	-	NORMAL
A1P3-C-11	A1P3-C-11-2R	5/8/00	0	0.5	1346658	483448.3	Moisture Content	25.7	PERCENT	NV	NORMAL
A1P3-C-11	A1P3-C-11-2R	5/8/00	0	0.5	1346658	483448.3	Radium-228	1.079	pCi/g dry	-	NORMAL
A1P3-C-11	A1P3-C-11-2R	5/8/00	0	0.5	1346658	483448.3	Radium-226	1.301	pCi/g dry	-	NORMAL
A1P3-C-11	A1P3-C-11-2R	5/8/00	0	0.5	1346658	483448.3	Thorium-228	1.07	pCi/g dry	-	NORMAL
A1P3-C-11	A1P3-C-11-2R	5/8/00	0	0.5	1346658	483448.3	Uranium, Total	6.428	ug/g dry	-	NORMAL
A1P3-C-11	A1P3-C-11-2R	5/8/00	0	0.5	1346658	483448.3	Thorium-232	1.079	pCi/g dry	-	NORMAL
A1P3-C-11	A1P3-C-11-4R	5/8/00	0	0.5	1346981	483497.7	Moisture Content	21.6	PERCENT	NV	NORMAL
A1P3-C-11	A1P3-C-11-4R	5/8/00	0	0.5	1346981	483497.7	Uranium, Total	8.962	ug/g dry	-	NORMAL
A1P3-C-11	A1P3-C-11-4R	5/8/00	0	0.5	1346981	483497.7	Thorium-232	1.061	pCi/g dry	-	NORMAL
A1P3-C-11	A1P3-C-11-4R	5/8/00	0	0.5	1346981	483497.7	Radium-226	1.248	pCi/g dry	-	NORMAL
A1P3-C-11	A1P3-C-11-4R	5/8/00	0	0.5	1346981	483497.7	Thorium-228	1.121	pCi/g dry	-	NORMAL
A1P3-C-11	A1P3-C-11-4R	5/8/00	0	0.5	1346981	483497.7	Radium-228	1.061	pCi/g dry	-	NORMAL
A1P3-C-11	A1P3-C-11-6R	5/8/00	0	0.5	1347213	483513.3	Moisture Content	21.4	PERCENT	NV	NORMAL
A1P3-C-11	A1P3-C-11-6R	5/8/00	0	0.5	1347213	483513.3	Thorium-228	0.93	pCi/g dry	-	NORMAL
A1P3-C-11	A1P3-C-11-6R	5/8/00	0	0.5	1347213	483513.3	Uranium, Total	7.08	ug/g dry	-	NORMAL
A1P3-C-11	A1P3-C-11-6R	5/8/00	0	0.5	1347213	483513.3	Thorium-232	0.938	pCi/g dry	-	NORMAL
A1P3-C-11	A1P3-C-11-6R	5/8/00	0	0.5	1347213	483513.3	Radium-228	0.938	pCi/g dry	-	NORMAL
A1P3-C-11	A1P3-C-11-6R	5/8/00	0	0.5	1347213	483513.3	Radium-226	1.118	pCi/g dry	-	NORMAL
A1P3-C-11	A1P3-C-11-7R	5/8/00	0	0.5	1347334	483506.2	Moisture Content	24.3	PERCENT	NV	NORMAL

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TABLE C-1
AREA 1, PHASE III, PART ONE CERTIFICATION DATA

CU	Sample ID	Sample Date	Depth Top	Depth Bottom	East 83	North 83	Parameter	Result	Units	Val. Qual.	QA Type
A1P3-C-11	A1P3-C-11-7R	5/8/00	0	0.5	1347334	483506.2	Radium-226	1.374	pCi/g dry	-	NORMAL
A1P3-C-11	A1P3-C-11-7R	5/8/00	0	0.5	1347334	483506.2	Thorium-228	1.151	pCi/g dry	-	NORMAL
A1P3-C-11	A1P3-C-11-7R	5/8/00	0	0.5	1347334	483506.2	Uranium, Total	7.385	ug/g dry	-	NORMAL
A1P3-C-11	A1P3-C-11-7R	5/8/00	0	0.5	1347334	483506.2	Thorium-232	1.166	pCi/g dry	-	NORMAL
A1P3-C-11	A1P3-C-11-7R	5/8/00	0	0.5	1347334	483506.2	Radium-228	1.166	pCi/g dry	-	NORMAL
A1P3-C-11	A1P3-C-11-8R	5/8/00	0	0.5	1347404	483478.6	Moisture Content	27.6	PERCENT	NV	NORMAL
A1P3-C-11	A1P3-C-11-8R	5/8/00	0	0.5	1347404	483478.6	Radium-228	1.03	pCi/g dry	-	NORMAL
A1P3-C-11	A1P3-C-11-8R	5/8/00	0	0.5	1347404	483478.6	Radium-226	1.233	pCi/g dry	-	NORMAL
A1P3-C-11	A1P3-C-11-8R	5/8/00	0	0.5	1347404	483478.6	Thorium-228	1.046	pCi/g dry	-	NORMAL
A1P3-C-11	A1P3-C-11-8R	5/8/00	0	0.5	1347404	483478.6	Uranium, Total	12.288	ug/g dry	-	NORMAL
A1P3-C-11	A1P3-C-11-8R	5/8/00	0	0.5	1347404	483478.6	Thorium-232	1.03	pCi/g dry	-	NORMAL
A1P3-C-11	A1P3-C-11-9R	5/8/00	0	0.5	1347471	483505.6	Moisture Content	22.5	PERCENT	NV	NORMAL
A1P3-C-11	A1P3-C-11-9R	5/8/00	0	0.5	1347471	483505.6	Radium-226	1.298	pCi/g dry	-	NORMAL
A1P3-C-11	A1P3-C-11-9R	5/8/00	0	0.5	1347471	483505.6	Radium-228	1.085	pCi/g dry	-	NORMAL
A1P3-C-11	A1P3-C-11-9R	5/8/00	0	0.5	1347471	483505.6	Thorium-228	1.095	pCi/g dry	-	NORMAL
A1P3-C-11	A1P3-C-11-9R	5/8/00	0	0.5	1347471	483505.6	Uranium, Total	11.365	ug/g dry	-	NORMAL
A1P3-C-11	A1P3-C-11-9R	5/8/00	0	0.5	1347471	483505.6	Thorium-232	1.085	pCi/g dry	-	NORMAL
A1P3-C-11	A1P3-C-11-9R-D	5/8/00	0	0.5	1347471	483505.6	Moisture Content	17.3	PERCENT	NV	DUPLICATE
A1P3-C-11	A1P3-C-11-9R-D	5/8/00	0	0.5	1347471	483505.6	Thorium-228	0.998	pCi/g dry	-	DUPLICATE
A1P3-C-11	A1P3-C-11-9R-D	5/8/00	0	0.5	1347471	483505.6	Thorium-232	1.017	pCi/g dry	-	DUPLICATE
A1P3-C-11	A1P3-C-11-9R-D	5/8/00	0	0.5	1347471	483505.6	Radium-228	1.017	pCi/g dry	-	DUPLICATE
A1P3-C-11	A1P3-C-11-9R-D	5/8/00	0	0.5	1347471	483505.6	Radium-226	1.33	pCi/g dry	-	DUPLICATE
A1P3-C-11	A1P3-C-11-9R-D	5/8/00	0	0.5	1347471	483505.6	Uranium, Total	8.154	ug/g dry	-	DUPLICATE
A1P3-C-12	A1P3-C-12-10R	5/17/00	0	0.5	1347061	483207.2	Moisture Content	26.1	PERCENT	NV	NORMAL
A1P3-C-12	A1P3-C-12-10R	5/17/00	0	0.5	1347061	483207.2	Thorium-228	0.951	pCi/g dry	-	NORMAL
A1P3-C-12	A1P3-C-12-10R	5/17/00	0	0.5	1347061	483207.2	Uranium, Total	7.749	ug/g dry	-	NORMAL
A1P3-C-12	A1P3-C-12-10R	5/17/00	0	0.5	1347061	483207.2	Thorium-232	0.981	pCi/g dry	-	NORMAL
A1P3-C-12	A1P3-C-12-10R	5/17/00	0	0.5	1347061	483207.2	Radium-228	0.981	pCi/g dry	-	NORMAL
A1P3-C-12	A1P3-C-12-10R	5/17/00	0	0.5	1347061	483207.2	Radium-226	1.266	pCi/g dry	-	NORMAL
A1P3-C-12	A1P3-C-12-12R	5/17/00	0	0.5	1346026	483311.3	Moisture Content	21.2	PERCENT	NV	NORMAL
A1P3-C-12	A1P3-C-12-12R	5/17/00	0	0.5	1346026	483311.3	Radium-226	1.145	pCi/g dry	-	NORMAL
A1P3-C-12	A1P3-C-12-12R	5/17/00	0	0.5	1346026	483311.3	Thorium-228	0.904	pCi/g dry	-	NORMAL
A1P3-C-12	A1P3-C-12-12R	5/17/00	0	0.5	1346026	483311.3	Uranium, Total	6.555	ug/g dry	-	NORMAL
A1P3-C-12	A1P3-C-12-12R	5/17/00	0	0.5	1346026	483311.3	Thorium-232	0.924	pCi/g dry	-	NORMAL
A1P3-C-12	A1P3-C-12-12R	5/17/00	0	0.5	1346026	483311.3	Radium-228	0.924	pCi/g dry	-	NORMAL
A1P3-C-12	A1P3-C-12-13R	5/17/00	0	0.5	1347246	483219.9	Moisture Content	18	PERCENT	NV	NORMAL
A1P3-C-12	A1P3-C-12-13R	5/17/00	0	0.5	1347246	483219.9	Radium-226	1.145	pCi/g dry	-	NORMAL
A1P3-C-12	A1P3-C-12-13R	5/17/00	0	0.5	1347246	483219.9	Thorium-228	1.021	pCi/g dry	-	NORMAL
A1P3-C-12	A1P3-C-12-13R	5/17/00	0	0.5	1347246	483219.9	Uranium, Total	11.355	ug/g dry	-	NORMAL
A1P3-C-12	A1P3-C-12-13R	5/17/00	0	0.5	1347246	483219.9	Thorium-232	1.047	pCi/g dry	-	NORMAL
A1P3-C-12	A1P3-C-12-13R	5/17/00	0	0.5	1347246	483219.9	Radium-228	1.047	pCi/g dry	-	NORMAL

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TABLE C-1
AREA 1, PHASE III, PART ONE CERTIFICATION DATA

CU	Sample ID	Sample Date	Depth Top	Depth Bottom	East 83	North 83	Parameter	Result	Units	Val. Qual.	QA Type
A1P3-C-12	A1P3-C-12-14R	5/17/00	0	0.5	1347356	483204.7	Moisture Content	21.6	PERCENT	NV	NORMAL
A1P3-C-12	A1P3-C-12-14R	5/17/00	0	0.5	1347356	483204.7	Radium-228	1.039	pCi/g dry	-	NORMAL
A1P3-C-12	A1P3-C-12-14R	5/17/00	0	0.5	1347356	483204.7	Radium-226	1.116	pCi/g dry	-	NORMAL
A1P3-C-12	A1P3-C-12-14R	5/17/00	0	0.5	1347356	483204.7	Thorium-228	1.014	pCi/g dry	-	NORMAL
A1P3-C-12	A1P3-C-12-14R	5/17/00	0	0.5	1347356	483204.7	Uranium, Total	9.85	ug/g dry	-	NORMAL
A1P3-C-12	A1P3-C-12-14R	5/17/00	0	0.5	1347356	483204.7	Thorium-232	1.039	pCi/g dry	-	NORMAL
A1P3-C-12	A1P3-C-12-16R	5/17/00	0	0.5	1347358	483317.2	Moisture Content	22.4	PERCENT	NV	NORMAL
A1P3-C-12	A1P3-C-12-16R	5/17/00	0	0.5	1347358	483317.2	Uranium, Total	9.352	ug/g dry	-	NORMAL
A1P3-C-12	A1P3-C-12-16R	5/17/00	0	0.5	1347358	483317.2	Thorium-232	1.038	pCi/g dry	-	NORMAL
A1P3-C-12	A1P3-C-12-16R	5/17/00	0	0.5	1347358	483317.2	Radium-226	1.137	pCi/g dry	-	NORMAL
A1P3-C-12	A1P3-C-12-16R	5/17/00	0	0.5	1347358	483317.2	Thorium-228	1	pCi/g dry	-	NORMAL
A1P3-C-12	A1P3-C-12-16R	5/17/00	0	0.5	1347358	483317.2	Radium-228	1.038	pCi/g dry	-	NORMAL
A1P3-C-12	A1P3-C-12-2R	5/16/00	0	0.5	1346625	483206.2	Moisture Content	22.6	PERCENT	NV	NORMAL
A1P3-C-12	A1P3-C-12-2R	5/16/00	0	0.5	1346625	483206.2	Radium-226	1.235	pCi/g dry	-	NORMAL
A1P3-C-12	A1P3-C-12-2R	5/16/00	0	0.5	1346625	483206.2	Thorium-228	0.901	pCi/g dry	-	NORMAL
A1P3-C-12	A1P3-C-12-2R	5/16/00	0	0.5	1346625	483206.2	Uranium, Total	8.644	ug/g dry	-	NORMAL
A1P3-C-12	A1P3-C-12-2R	5/16/00	0	0.5	1346625	483206.2	Thorium-232	0.899	pCi/g dry	-	NORMAL
A1P3-C-12	A1P3-C-12-2R	5/16/00	0	0.5	1346625	483206.2	Radium-228	0.899	pCi/g dry	-	NORMAL
A1P3-C-12	A1P3-C-12-2R-D	5/16/00	0	0.5	1346625	483206.2	Moisture Content	21	PERCENT	NV	DUPLICATE
A1P3-C-12	A1P3-C-12-2R-D	5/16/00	0	0.5	1346625	483206.2	Radium-228	1.003	pCi/g dry	-	DUPLICATE
A1P3-C-12	A1P3-C-12-2R-D	5/16/00	0	0.5	1346625	483206.2	Radium-226	1.215	pCi/g dry	-	DUPLICATE
A1P3-C-12	A1P3-C-12-2R-D	5/16/00	0	0.5	1346625	483206.2	Thorium-228	0.952	pCi/g dry	-	DUPLICATE
A1P3-C-12	A1P3-C-12-2R-D	5/16/00	0	0.5	1346625	483206.2	Uranium, Total	6.093	ug/g dry	-	DUPLICATE
A1P3-C-12	A1P3-C-12-2R-D	5/16/00	0	0.5	1346625	483206.2	Thorium-232	1.003	pCi/g dry	-	DUPLICATE
A1P3-C-12	A1P3-C-12-3R	5/17/00	0	0.5	1346484	483288.3	Moisture Content	23.3	PERCENT	NV	NORMAL
A1P3-C-12	A1P3-C-12-3R	5/17/00	0	0.5	1346484	483288.3	Thorium-232	0.991	pCi/g dry	-	NORMAL
A1P3-C-12	A1P3-C-12-3R	5/17/00	0	0.5	1346484	483288.3	Uranium, Total	7.626	ug/g dry	-	NORMAL
A1P3-C-12	A1P3-C-12-3R	5/17/00	0	0.5	1346484	483288.3	Thorium-228	0.975	pCi/g dry	-	NORMAL
A1P3-C-12	A1P3-C-12-3R	5/17/00	0	0.5	1346484	483288.3	Radium-226	1.094	pCi/g dry	-	NORMAL
A1P3-C-12	A1P3-C-12-3R	5/17/00	0	0.5	1346484	483288.3	Radium-228	0.991	pCi/g dry	-	NORMAL
A1P3-C-12	A1P3-C-12-4R	5/16/00	0	0.5	1346548	483252.8	Moisture Content	18.1	PERCENT	NV	NORMAL
A1P3-C-12	A1P3-C-12-4R	5/16/00	0	0.5	1346548	483252.8	Radium-228	0.927	pCi/g dry	-	NORMAL
A1P3-C-12	A1P3-C-12-4R	5/16/00	0	0.5	1346548	483252.8	Thorium-232	0.927	pCi/g dry	-	NORMAL
A1P3-C-12	A1P3-C-12-4R	5/16/00	0	0.5	1346548	483252.8	Uranium, Total	5.414	ug/g dry	-	NORMAL
A1P3-C-12	A1P3-C-12-4R	5/16/00	0	0.5	1346548	483252.8	Thorium-228	0.912	pCi/g dry	-	NORMAL
A1P3-C-12	A1P3-C-12-4R	5/16/00	0	0.5	1346548	483252.8	Radium-226	1.172	pCi/g dry	-	NORMAL
A1P3-C-12	A1P3-C-12-5R	5/16/00	0	0.5	1346743	483224.3	Moisture Content	20.4	PERCENT	NV	NORMAL
A1P3-C-12	A1P3-C-12-5R	5/16/00	0	0.5	1346743	483224.3	Radium-228	0.85	pCi/g dry	-	NORMAL
A1P3-C-12	A1P3-C-12-5R	5/16/00	0	0.5	1346743	483224.3	Thorium-228	0.836	pCi/g dry	-	NORMAL
A1P3-C-12	A1P3-C-12-5R	5/16/00	0	0.5	1346743	483224.3	Thorium-232	0.85	pCi/g dry	-	NORMAL
A1P3-C-12	A1P3-C-12-5R	5/16/00	0	0.5	1346743	483224.3	Uranium, Total	5.993	ug/g dry	-	NORMAL

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TABLE C-1
AREA 1, PHASE III, PART ONE CERTIFICATION DATA

CU	Sample ID	Sample Date	Depth Top	Depth Bottom	East 83	North 83	Parameter	Result	Units	Val. Qual.	QA Type
A1P3-C-12	A1P3-C-12-5R	5/16/00	0	0.5	1346743	483224.3	Radium-226	0.993	pCi/g dry	-	NORMAL
A1P3-C-12	A1P3-C-12-7R	5/16/00	0	0.5	1346670	483303.5	Moisture Content	25.1	PERCENT	NV	NORMAL
A1P3-C-12	A1P3-C-12-7R	5/16/00	0	0.5	1346670	483303.5	Uranium, Total	8.297	ug/g dry	-	NORMAL
A1P3-C-12	A1P3-C-12-7R	5/16/00	0	0.5	1346670	483303.5	Radium-226	1.273	pCi/g dry	-	NORMAL
A1P3-C-12	A1P3-C-12-7R	5/16/00	0	0.5	1346670	483303.5	Radium-228	1.064	pCi/g dry	-	NORMAL
A1P3-C-12	A1P3-C-12-7R	5/16/00	0	0.5	1346670	483303.5	Thorium-232	1.064	pCi/g dry	-	NORMAL
A1P3-C-12	A1P3-C-12-7R	5/16/00	0	0.5	1346670	483303.5	Thorium-228	1.027	pCi/g dry	-	NORMAL
A1P3-C-12	A1P3-C-12-8R	5/16/00	0	0.5	1346795	483283.1	Moisture Content	19.9	PERCENT	NV	NORMAL
A1P3-C-12	A1P3-C-12-8R	5/16/00	0	0.5	1346795	483283.1	Radium-226	1.071	pCi/g dry	-	NORMAL
A1P3-C-12	A1P3-C-12-8R	5/16/00	0	0.5	1346795	483283.1	Thorium-228	1.001	pCi/g dry	-	NORMAL
A1P3-C-12	A1P3-C-12-8R	5/16/00	0	0.5	1346795	483283.1	Radium-228	1.017	pCi/g dry	-	NORMAL
A1P3-C-12	A1P3-C-12-8R	5/16/00	0	0.5	1346795	483283.1	Thorium-232	1.017	pCi/g dry	-	NORMAL
A1P3-C-12	A1P3-C-12-8R	5/16/00	0	0.5	1346795	483283.1	Uranium, Total	4.592	ug/g dry	-	NORMAL
A1P3-C-12	A1P3-C-12-9R	5/17/00	0	0.5	1347001	483203.1	Moisture Content	23.5	PERCENT	NV	NORMAL
A1P3-C-12	A1P3-C-12-9R	5/17/00	0	0.5	1347001	483203.1	Thorium-232	0.807	pCi/g dry	-	NORMAL
A1P3-C-12	A1P3-C-12-9R	5/17/00	0	0.5	1347001	483203.1	Uranium, Total	7.653	ug/g dry	-	NORMAL
A1P3-C-12	A1P3-C-12-9R	5/17/00	0	0.5	1347001	483203.1	Thorium-228	0.787	pCi/g dry	-	NORMAL
A1P3-C-12	A1P3-C-12-9R	5/17/00	0	0.5	1347001	483203.1	Radium-226	1.072	pCi/g dry	-	NORMAL
A1P3-C-12	A1P3-C-12-9R	5/17/00	0	0.5	1347001	483203.1	Radium-228	0.807	pCi/g dry	-	NORMAL
A1P3-C-13	A1P3-C-13-11R	5/10/00	0	0.5	1347848	483297.8	Moisture Content	23.4	PERCENT	NV	NORMAL
A1P3-C-13	A1P3-C-13-11R	5/10/00	0	0.5	1347848	483297.8	Thorium-228	1.016	pCi/g dry	-	NORMAL
A1P3-C-13	A1P3-C-13-11R	5/10/00	0	0.5	1347848	483297.8	Thorium-232	1.06	pCi/g dry	-	NORMAL
A1P3-C-13	A1P3-C-13-11R	5/10/00	0	0.5	1347848	483297.8	Uranium, Total	11.329	ug/g dry	-	NORMAL
A1P3-C-13	A1P3-C-13-11R	5/10/00	0	0.5	1347848	483297.8	Radium-228	1.06	pCi/g dry	-	NORMAL
A1P3-C-13	A1P3-C-13-11R	5/10/00	0	0.5	1347848	483297.8	Radium-226	1.177	pCi/g dry	-	NORMAL
A1P3-C-13	A1P3-C-13-12R	5/10/00	0	0.5	1347934	483297	Moisture Content	21.4	PERCENT	NV	NORMAL
A1P3-C-13	A1P3-C-13-12R	5/10/00	0	0.5	1347934	483297	Radium-228	1.104	pCi/g dry	-	NORMAL
A1P3-C-13	A1P3-C-13-12R	5/10/00	0	0.5	1347934	483297	Thorium-228	1.089	pCi/g dry	-	NORMAL
A1P3-C-13	A1P3-C-13-12R	5/10/00	0	0.5	1347934	483297	Uranium, Total	11.512	ug/g dry	-	NORMAL
A1P3-C-13	A1P3-C-13-12R	5/10/00	0	0.5	1347934	483297	Thorium-232	1.104	pCi/g dry	-	NORMAL
A1P3-C-13	A1P3-C-13-12R	5/10/00	0	0.5	1347934	483297	Radium-226	1.3	pCi/g dry	-	NORMAL
A1P3-C-13	A1P3-C-13-14R	5/10/00	0	0.5	1348107	483223.3	Moisture Content	22.2	PERCENT	NV	NORMAL
A1P3-C-13	A1P3-C-13-14R	5/10/00	0	0.5	1348107	483223.3	Uranium, Total	12.671	ug/g dry	-	NORMAL
A1P3-C-13	A1P3-C-13-14R	5/10/00	0	0.5	1348107	483223.3	Thorium-232	1.145	pCi/g dry	-	NORMAL
A1P3-C-13	A1P3-C-13-14R	5/10/00	0	0.5	1348107	483223.3	Radium-226	1.223	pCi/g dry	-	NORMAL
A1P3-C-13	A1P3-C-13-14R	5/10/00	0	0.5	1348107	483223.3	Thorium-228	1.123	pCi/g dry	-	NORMAL
A1P3-C-13	A1P3-C-13-14R	5/10/00	0	0.5	1348107	483223.3	Radium-228	1.145	pCi/g dry	-	NORMAL
A1P3-C-13	A1P3-C-13-15R	5/10/00	0	0.5	1348007	483345.9	Moisture Content	26.6	PERCENT	NV	NORMAL
A1P3-C-13	A1P3-C-13-15R	5/10/00	0	0.5	1348007	483345.9	Thorium-228	1.012	pCi/g dry	-	NORMAL
A1P3-C-13	A1P3-C-13-15R	5/10/00	0	0.5	1348007	483345.9	Uranium, Total	16.118	ug/g dry	-	NORMAL
A1P3-C-13	A1P3-C-13-15R	5/10/00	0	0.5	1348007	483345.9	Thorium-232	1.034	pCi/g dry	-	NORMAL

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TABLE C-1
AREA 1, PHASE III, PART ONE CERTIFICATION DATA

CU	Sample ID	Sample Date	Depth Top	Depth Bottom	East 83	North 83	Parameter	Result	Units	Val. Qual.	QA Type
A1P3-C-13	A1P3-C-13-15R	5/10/00	0	0.5	1348007	483345.9	Radium-226	1.171	pCi/g dry	-	NORMAL
A1P3-C-13	A1P3-C-13-15R	5/10/00	0	0.5	1348007	483345.9	Radium-228	1.034	pCi/g dry	-	NORMAL
A1P3-C-13	A1P3-C-13-16R	5/10/00	0	0.5	1348129	483362.2	Moisture Content	19.5	PERCENT	NV	NORMAL
A1P3-C-13	A1P3-C-13-16R	5/10/00	0	0.5	1348129	483362.2	Thorium-228	1.169	pCi/g dry	-	NORMAL
A1P3-C-13	A1P3-C-13-16R	5/10/00	0	0.5	1348129	483362.2	Thorium-232	1.159	pCi/g dry	-	NORMAL
A1P3-C-13	A1P3-C-13-16R	5/10/00	0	0.5	1348129	483362.2	Uranium, Total	9.804	ug/g dry	-	NORMAL
A1P3-C-13	A1P3-C-13-16R	5/10/00	0	0.5	1348129	483362.2	Radium-228	1.159	pCi/g dry	-	NORMAL
A1P3-C-13	A1P3-C-13-16R	5/10/00	0	0.5	1348129	483362.2	Radium-226	1.232	pCi/g dry	-	NORMAL
A1P3-C-13	A1P3-C-13-1R	5/11/00	0	0.5	1347458	483212.8	Moisture Content	22.8	PERCENT	NV	NORMAL
A1P3-C-13	A1P3-C-13-1R	5/11/00	0	0.5	1347458	483212.8	Uranium, Total	8.831	ug/g dry	-	NORMAL
A1P3-C-13	A1P3-C-13-1R	5/11/00	0	0.5	1347458	483212.8	Thorium-232	1.139	pCi/g dry	-	NORMAL
A1P3-C-13	A1P3-C-13-1R	5/11/00	0	0.5	1347458	483212.8	Thorium-228	1.114	pCi/g dry	-	NORMAL
A1P3-C-13	A1P3-C-13-1R	5/11/00	0	0.5	1347458	483212.8	Radium-228	1.139	pCi/g dry	-	NORMAL
A1P3-C-13	A1P3-C-13-1R	5/11/00	0	0.5	1347458	483212.8	Radium-226	1.299	pCi/g dry	-	NORMAL
A1P3-C-13	A1P3-C-13-2R	5/11/00	0	0.5	1347523	483235.1	Moisture Content	17.5	PERCENT	NV	NORMAL
A1P3-C-13	A1P3-C-13-2R	5/11/00	0	0.5	1347523	483235.1	Radium-226	1.306	pCi/g dry	-	NORMAL
A1P3-C-13	A1P3-C-13-2R	5/11/00	0	0.5	1347523	483235.1	Radium-228	1.044	pCi/g dry	-	NORMAL
A1P3-C-13	A1P3-C-13-2R	5/11/00	0	0.5	1347523	483235.1	Uranium, Total	10.521	ug/g dry	-	NORMAL
A1P3-C-13	A1P3-C-13-2R	5/11/00	0	0.5	1347523	483235.1	Thorium-232	1.044	pCi/g dry	-	NORMAL
A1P3-C-13	A1P3-C-13-2R	5/11/00	0	0.5	1347523	483235.1	Thorium-228	1.009	pCi/g dry	-	NORMAL
A1P3-C-13	A1P3-C-13-4R	5/11/00	0	0.5	1347587	483320.2	Moisture Content	19	PERCENT	NV	NORMAL
A1P3-C-13	A1P3-C-13-4R	5/11/00	0	0.5	1347587	483320.2	Radium-226	1.202	pCi/g dry	-	NORMAL
A1P3-C-13	A1P3-C-13-4R	5/11/00	0	0.5	1347587	483320.2	Thorium-228	1.019	pCi/g dry	-	NORMAL
A1P3-C-13	A1P3-C-13-4R	5/11/00	0	0.5	1347587	483320.2	Radium-228	1.05	pCi/g dry	-	NORMAL
A1P3-C-13	A1P3-C-13-4R	5/11/00	0	0.5	1347587	483320.2	Thorium-232	1.05	pCi/g dry	-	NORMAL
A1P3-C-13	A1P3-C-13-5R	5/11/00	0	0.5	1347587	483320.2	Uranium, Total	9.52	ug/g dry	-	NORMAL
A1P3-C-13	A1P3-C-13-5R	5/11/00	0	0.5	1347661	483239	Moisture Content	20.8	PERCENT	NV	NORMAL
A1P3-C-13	A1P3-C-13-5R	5/11/00	0	0.5	1347661	483239	Radium-228	0.938	pCi/g dry	-	NORMAL
A1P3-C-13	A1P3-C-13-5R	5/11/00	0	0.5	1347661	483239	Uranium, Total	12.139	ug/g dry	-	NORMAL
A1P3-C-13	A1P3-C-13-5R	5/11/00	0	0.5	1347661	483239	Thorium-232	0.938	pCi/g dry	-	NORMAL
A1P3-C-13	A1P3-C-13-5R	5/11/00	0	0.5	1347661	483239	Thorium-228	0.93	pCi/g dry	-	NORMAL
A1P3-C-13	A1P3-C-13-6R	5/10/00	0	0.5	1347661	483239	Radium-226	1.074	pCi/g dry	-	NORMAL
A1P3-C-13	A1P3-C-13-6R	5/10/00	0	0.5	1347799	483225.3	Moisture Content	23.9	PERCENT	NV	NORMAL
A1P3-C-13	A1P3-C-13-6R	5/10/00	0	0.5	1347799	483225.3	Uranium, Total	10.594	ug/g dry	-	NORMAL
A1P3-C-13	A1P3-C-13-6R	5/10/00	0	0.5	1347799	483225.3	Thorium-232	1.068	pCi/g dry	-	NORMAL
A1P3-C-13	A1P3-C-13-6R	5/10/00	0	0.5	1347799	483225.3	Thorium-228	1.005	pCi/g dry	-	NORMAL
A1P3-C-13	A1P3-C-13-6R	5/10/00	0	0.5	1347799	483225.3	Radium-228	1.068	pCi/g dry	-	NORMAL
A1P3-C-13	A1P3-C-13-8R	5/10/00	0	0.5	1347799	483225.3	Radium-226	1.106	pCi/g dry	-	NORMAL
A1P3-C-13	A1P3-C-13-8R	5/10/00	0	0.5	1347807	483338.7	Moisture Content	23.8	PERCENT	NV	NORMAL
A1P3-C-13	A1P3-C-13-8R	5/10/00	0	0.5	1347807	483338.7	Radium-226	1.14	pCi/g dry	-	NORMAL
A1P3-C-13	A1P3-C-13-8R	5/10/00	0	0.5	1347807	483338.7	Radium-228	1.018	pCi/g dry	-	NORMAL

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TABLE C-1
AREA 1, PHASE III, PART ONE CERTIFICATION DATA

CU	Sample ID	Sample Date	Depth Top	Depth Bottom	East 83	North 83	Parameter	Result	Units	Val. Qual.	QA Type
A1P3-C-13	A1P3-C-13-8R	5/10/00	0	0.5	1347807	483338.7	Uranium, Total	10.017	ug/g dry	-	NORMAL
A1P3-C-13	A1P3-C-13-8R	5/10/00	0	0.5	1347807	483338.7	Thorium-232	1.018	pCi/g dry	-	NORMAL
A1P3-C-13	A1P3-C-13-8R	5/10/00	0	0.5	1347807	483338.7	Thorium-228	0.998	pCi/g dry	-	NORMAL
A1P3-C-13	A1P3-C-13-9R	5/10/00	0	0.5	1347847	483196.6	Moisture Content	22	PERCENT	NV	NORMAL
A1P3-C-13	A1P3-C-13-9R	5/10/00	0	0.5	1347847	483196.6	Radium-226	1.187	pCi/g dry	-	NORMAL
A1P3-C-13	A1P3-C-13-9R	5/10/00	0	0.5	1347847	483196.6	Thorium-228	1.009	pCi/g dry	-	NORMAL
A1P3-C-13	A1P3-C-13-9R	5/10/00	0	0.5	1347847	483196.6	Radium-228	1.017	pCi/g dry	-	NORMAL
A1P3-C-13	A1P3-C-13-9R	5/10/00	0	0.5	1347847	483196.6	Thorium-232	1.017	pCi/g dry	-	NORMAL
A1P3-C-13	A1P3-C-13-9R	5/10/00	0	0.5	1347847	483196.6	Uranium, Total	11.722	ug/g dry	-	NORMAL
A1P3-C-13	A1P3-C-13-9R-D	5/10/00	0	0.5	1347847	483196.6	Moisture Content	21.6	PERCENT	NV	DUPLICATE
A1P3-C-13	A1P3-C-13-9R-D	5/10/00	0	0.5	1347847	483196.6	Radium-228	1.005	pCi/g dry	-	DUPLICATE
A1P3-C-13	A1P3-C-13-9R-D	5/10/00	0	0.5	1347847	483196.6	Uranium, Total	12.956	ug/g dry	-	DUPLICATE
A1P3-C-13	A1P3-C-13-9R-D	5/10/00	0	0.5	1347847	483196.6	Thorium-232	1.005	pCi/g dry	-	DUPLICATE
A1P3-C-13	A1P3-C-13-9R-D	5/10/00	0	0.5	1347847	483196.6	Thorium-228	1.002	pCi/g dry	-	DUPLICATE
A1P3-C-13	A1P3-C-13-9R-D	5/10/00	0	0.5	1347847	483196.6	Radium-226	1.171	pCi/g dry	-	DUPLICATE
A1P3-C-14	A1P3-C-14-10RM	5/17/00	0	0.5	1347017	482917.5	Beryllium	0.41	mg/kg dry	-	NORMAL
A1P3-C-14	A1P3-C-14-10RM	5/17/00	0	0.5	1347017	482917.5	Radium-228	1.063	pCi/g dry	-	NORMAL
A1P3-C-14	A1P3-C-14-10RM	5/17/00	0	0.5	1347017	482917.5	Thorium-228	1.056	pCi/g dry	-	NORMAL
A1P3-C-14	A1P3-C-14-10RM	5/17/00	0	0.5	1347017	482917.5	Thorium-232	1.063	pCi/g dry	-	NORMAL
A1P3-C-14	A1P3-C-14-10RM	5/17/00	0	0.5	1347017	482917.5	Uranium, Total	2.273	ug/g dry	U	NORMAL
A1P3-C-14	A1P3-C-14-10RM	5/17/00	0	0.5	1347017	482917.5	Radium-226	1.368	pCi/g dry	-	NORMAL
A1P3-C-14	A1P3-C-14-10RM	5/17/00	0	0.5	1347017	482917.5	Moisture Content	22.3	PERCENT	NV	NORMAL
A1P3-C-14	A1P3-C-14-11RM	5/17/00	0	0.5	1346952	483040	Beryllium	0.03	mg/kg dry	U	NORMAL
A1P3-C-14	A1P3-C-14-11RM	5/17/00	0	0.5	1346952	483040	Radium-228	0.949	pCi/g dry	-	NORMAL
A1P3-C-14	A1P3-C-14-11RM	5/17/00	0	0.5	1346952	483040	Thorium-228	0.917	pCi/g dry	-	NORMAL
A1P3-C-14	A1P3-C-14-11RM	5/17/00	0	0.5	1346952	483040	Thorium-232	0.949	pCi/g dry	-	NORMAL
A1P3-C-14	A1P3-C-14-11RM	5/17/00	0	0.5	1346952	483040	Uranium, Total	6.9	ug/g dry	-	NORMAL
A1P3-C-14	A1P3-C-14-11RM	5/17/00	0	0.5	1346952	483040	Radium-226	1.174	pCi/g dry	-	NORMAL
A1P3-C-14	A1P3-C-14-11RM	5/17/00	0	0.5	1346952	483040	Moisture Content	20.8	PERCENT	NV	NORMAL
A1P3-C-14	A1P3-C-14-13RM	5/17/00	0	0.5	1347130	482897.2	Beryllium	0.41	mg/kg dry	-	NORMAL
A1P3-C-14	A1P3-C-14-13RM	5/17/00	0	0.5	1347130	482897.2	Radium-226	1.192	pCi/g dry	-	NORMAL
A1P3-C-14	A1P3-C-14-13RM	5/17/00	0	0.5	1347130	482897.2	Thorium-228	1.139	pCi/g dry	-	NORMAL
A1P3-C-14	A1P3-C-14-13RM	5/17/00	0	0.5	1347130	482897.2	Thorium-232	1.134	pCi/g dry	-	NORMAL
A1P3-C-14	A1P3-C-14-13RM	5/17/00	0	0.5	1347130	482897.2	Uranium, Total	12.636	ug/g dry	-	NORMAL
A1P3-C-14	A1P3-C-14-13RM	5/17/00	0	0.5	1347130	482897.2	Radium-228	1.134	pCi/g dry	-	NORMAL
A1P3-C-14	A1P3-C-14-13RM	5/17/00	0	0.5	1347130	482897.2	Moisture Content	26.6	PERCENT	NV	NORMAL
A1P3-C-14	A1P3-C-14-15RM	5/17/00	0	0.5	1347161	483048.5	Beryllium	0.37	mg/kg dry	-	NORMAL
A1P3-C-14	A1P3-C-14-15RM	5/17/00	0	0.5	1347161	483048.5	Uranium, Total	15.562	ug/g dry	-	NORMAL
A1P3-C-14	A1P3-C-14-15RM	5/17/00	0	0.5	1347161	483048.5	Radium-226	1.306	pCi/g dry	-	NORMAL
A1P3-C-14	A1P3-C-14-15RM	5/17/00	0	0.5	1347161	483048.5	Radium-228	1.044	pCi/g dry	-	NORMAL
A1P3-C-14	A1P3-C-14-15RM	5/17/00	0	0.5	1347161	483048.5	Thorium-232	1.044	pCi/g dry	-	NORMAL

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TABLE C-1
AREA 1, PHASE III, PART ONE CERTIFICATION DATA

CU	Sample ID	Sample Date	Depth Top	Depth Bottom	East 83	North 83	Parameter	Result	Units	Val. Qual.	QA Type
A1P3-C-14	A1P3-C-14-15RM	5/17/00	0	0.5	1347161	483048.5	Thorium-228	1.01	pCi/g dry	-	NORMAL
A1P3-C-14	A1P3-C-14-15RM	5/17/00	0	0.5	1347161	483048.5	Moisture Content	25.8	PERCENT	NV	NORMAL
A1P3-C-14	A1P3-C-14-16RM	5/17/00	0	0.5	1347274	483027.4	Beryllium	0.22	mg/kg dry	-	NORMAL
A1P3-C-14	A1P3-C-14-16RM	5/17/00	0	0.5	1347274	483027.4	Uranium, Total	10.792	ug/g dry	-	NORMAL
A1P3-C-14	A1P3-C-14-16RM	5/17/00	0	0.5	1347274	483027.4	Thorium-232	0.838	pCi/g dry	-	NORMAL
A1P3-C-14	A1P3-C-14-16RM	5/17/00	0	0.5	1347274	483027.4	Radium-226	1.07	pCi/g dry	-	NORMAL
A1P3-C-14	A1P3-C-14-16RM	5/17/00	0	0.5	1347274	483027.4	Radium-228	0.838	pCi/g dry	-	NORMAL
A1P3-C-14	A1P3-C-14-16RM	5/17/00	0	0.5	1347274	483027.4	Thorium-228	0.819	pCi/g dry	-	NORMAL
A1P3-C-14	A1P3-C-14-16RM	5/17/00	0	0.5	1347274	483027.4	Moisture Content	24.8	PERCENT	NV	NORMAL
A1P3-C-14	A1P3-C-14-16RM	5/17/00	0	0.5	1346481	482981	Beryllium	0.23	mg/kg dry	-	NORMAL
A1P3-C-14	A1P3-C-14-2RM	5/17/00	0	0.5	1346481	482981	Moisture Content	24.6	PERCENT	NV	NORMAL
A1P3-C-14	A1P3-C-14-2RM	5/17/00	0	0.5	1346481	482981	Radium-228	1.003	pCi/g dry	-	NORMAL
A1P3-C-14	A1P3-C-14-2RM	5/17/00	0	0.5	1346481	482981	Thorium-232	1.003	pCi/g dry	-	NORMAL
A1P3-C-14	A1P3-C-14-2RM	5/17/00	0	0.5	1346481	482981	Uranium, Total	7.823	ug/g dry	-	NORMAL
A1P3-C-14	A1P3-C-14-2RM	5/17/00	0	0.5	1346481	482981	Thorium-228	1.009	pCi/g dry	-	NORMAL
A1P3-C-14	A1P3-C-14-2RM	5/17/00	0	0.5	1346481	482981	Radium-226	1.128	pCi/g dry	-	NORMAL
A1P3-C-14	A1P3-C-14-3RM	5/17/00	0	0.5	1346638	482887.2	Beryllium	0.03	mg/kg dry	U	NORMAL
A1P3-C-14	A1P3-C-14-3RM	5/17/00	0	0.5	1346638	482887.2	Moisture Content	20.8	PERCENT	NV	NORMAL
A1P3-C-14	A1P3-C-14-3RM	5/17/00	0	0.5	1346638	482887.2	Radium-226	1.147	pCi/g dry	-	NORMAL
A1P3-C-14	A1P3-C-14-3RM	5/17/00	0	0.5	1346638	482887.2	Thorium-228	0.874	pCi/g dry	J	NORMAL
A1P3-C-14	A1P3-C-14-3RM	5/17/00	0	0.5	1346638	482887.2	Uranium, Total	8.417	ug/g dry	-	NORMAL
A1P3-C-14	A1P3-C-14-3RM	5/17/00	0	0.5	1346638	482887.2	Thorium-232	0.881	pCi/g dry	J	NORMAL
A1P3-C-14	A1P3-C-14-3RM	5/17/00	0	0.5	1346638	482887.2	Radium-228	0.881	pCi/g dry	J	NORMAL
A1P3-C-14	A1P3-C-14-3RM-D	5/17/00	0	0.5	1346638	482887.2	Beryllium	0.03	mg/kg dry	U	DUPLICATE
A1P3-C-14	A1P3-C-14-3RM-D	5/17/00	0	0.5	1346638	482887.2	Radium-226	1.18	pCi/g dry	-	DUPLICATE
A1P3-C-14	A1P3-C-14-3RM-D	5/17/00	0	0.5	1346638	482887.2	Moisture Content	21.7	PERCENT	NV	DUPLICATE
A1P3-C-14	A1P3-C-14-3RM-D	5/17/00	0	0.5	1346638	482887.2	Radium-228	1.08	pCi/g dry	J	DUPLICATE
A1P3-C-14	A1P3-C-14-3RM-D	5/17/00	0	0.5	1346638	482887.2	Thorium-232	1.08	pCi/g dry	J	DUPLICATE
A1P3-C-14	A1P3-C-14-3RM-D	5/17/00	0	0.5	1346638	482887.2	Uranium, Total	8.338	ug/g dry	-	DUPLICATE
A1P3-C-14	A1P3-C-14-3RM-D	5/17/00	0	0.5	1346638	482887.2	Thorium-228	1.075	pCi/g dry	J	DUPLICATE
A1P3-C-14	A1P3-C-14-4RM	5/17/00	0	0.5	1346628	483051.9	Beryllium	0.26	mg/kg dry	-	NORMAL
A1P3-C-14	A1P3-C-14-4RM	5/17/00	0	0.5	1346628	483051.9	Radium-226	1.081	pCi/g dry	-	NORMAL
A1P3-C-14	A1P3-C-14-4RM	5/17/00	0	0.5	1346628	483051.9	Radium-228	0.984	pCi/g dry	-	NORMAL
A1P3-C-14	A1P3-C-14-4RM	5/17/00	0	0.5	1346628	483051.9	Moisture Content	21.9	PERCENT	NV	NORMAL
A1P3-C-14	A1P3-C-14-4RM	5/17/00	0	0.5	1346628	483051.9	Thorium-228	0.971	pCi/g dry	-	NORMAL
A1P3-C-14	A1P3-C-14-4RM	5/17/00	0	0.5	1346628	483051.9	Uranium, Total	9.351	ug/g dry	-	NORMAL
A1P3-C-14	A1P3-C-14-4RM	5/17/00	0	0.5	1346628	483051.9	Thorium-232	0.984	pCi/g dry	-	NORMAL
A1P3-C-14	A1P3-C-14-6RM	5/17/00	0	0.5	1346871	482898.2	Beryllium	0.22	mg/kg dry	-	NORMAL
A1P3-C-14	A1P3-C-14-6RM	5/17/00	0	0.5	1346871	482898.2	Uranium, Total	10.476	ug/g dry	-	NORMAL
A1P3-C-14	A1P3-C-14-6RM	5/17/00	0	0.5	1346871	482898.2	Thorium-232	0.958	pCi/g dry	-	NORMAL
A1P3-C-14	A1P3-C-14-6RM	5/17/00	0	0.5	1346871	482898.2	Thorium-228	0.89	pCi/g dry	-	NORMAL

000105

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TABLE C-1
AREA 1, PHASE III, PART ONE CERTIFICATION DATA

CU	Sample ID	Sample Date	Depth Top	Depth Bottom	East 83	North 83	Parameter	Result	Units	Val. Qual.	QA Type
A1P3-C-14	A1P3-C-14-6RM	5/17/00	0	0.5	1346871	482898.2	Moisture Content	20.1	PERCENT	NV	NORMAL
A1P3-C-14	A1P3-C-14-6RM	5/17/00	0	0.5	1346871	482898.2	Radium-228	0.958	pCi/g dry	-	NORMAL
A1P3-C-14	A1P3-C-14-6RM	5/17/00	0	0.5	1346871	482898.2	Radium-226	1.184	pCi/g dry	-	NORMAL
A1P3-C-14	A1P3-C-14-7RM	5/17/00	0	0.5	1346722	483053	Beryllium	0.53	mg/kg dry	-	NORMAL
A1P3-C-14	A1P3-C-14-7RM	5/17/00	0	0.5	1346722	483053	Thorium-232	0.987	pCi/g dry	-	NORMAL
A1P3-C-14	A1P3-C-14-7RM	5/17/00	0	0.5	1346722	483053	Uranium, Total	8.801	ug/g dry	-	NORMAL
A1P3-C-14	A1P3-C-14-7RM	5/17/00	0	0.5	1346722	483053	Thorium-228	0.967	pCi/g dry	-	NORMAL
A1P3-C-14	A1P3-C-14-7RM	5/17/00	0	0.5	1346722	483053	Moisture Content	24.5	PERCENT	NV	NORMAL
A1P3-C-14	A1P3-C-14-7RM	5/17/00	0	0.5	1346722	483053	Radium-228	0.987	pCi/g dry	-	NORMAL
A1P3-C-14	A1P3-C-14-7RM	5/17/00	0	0.5	1346722	483053	Radium-226	1.331	pCi/g dry	-	NORMAL
A1P3-C-14	A1P3-C-14-8RM	5/17/00	0	0.5	1346815	482985	Beryllium	0.66	mg/kg dry	-	NORMAL
A1P3-C-14	A1P3-C-14-8RM	5/17/00	0	0.5	1346815	482985	Thorium-228	0.933	pCi/g dry	-	NORMAL
A1P3-C-14	A1P3-C-14-8RM	5/17/00	0	0.5	1346815	482985	Uranium, Total	11.608	ug/g dry	-	NORMAL
A1P3-C-14	A1P3-C-14-8RM	5/17/00	0	0.5	1346815	482985	Thorium-232	0.954	pCi/g dry	-	NORMAL
A1P3-C-14	A1P3-C-14-8RM	5/17/00	0	0.5	1346815	482985	Radium-228	0.954	pCi/g dry	-	NORMAL
A1P3-C-14	A1P3-C-14-8RM	5/17/00	0	0.5	1346815	482985	Moisture Content	24.9	PERCENT	NV	NORMAL
A1P3-C-14	A1P3-C-14-8RM	5/17/00	0	0.5	1346815	482985	Radium-226	1.368	pCi/g dry	-	NORMAL
A1P3-C-14	A1P3-C-14-9RM	5/17/00	0	0.5	1346932	482946	Beryllium	0.23	mg/kg dry	-	NORMAL
A1P3-C-14	A1P3-C-14-9RM	5/17/00	0	0.5	1346932	482946	Radium-228	0.971	pCi/g dry	-	NORMAL
A1P3-C-14	A1P3-C-14-9RM	5/17/00	0	0.5	1346932	482946	Thorium-232	0.971	pCi/g dry	-	NORMAL
A1P3-C-14	A1P3-C-14-9RM	5/17/00	0	0.5	1346932	482946	Uranium, Total	8.426	ug/g dry	-	NORMAL
A1P3-C-14	A1P3-C-14-9RM	5/17/00	0	0.5	1346932	482946	Thorium-228	0.97	pCi/g dry	-	NORMAL
A1P3-C-14	A1P3-C-14-9RM	5/17/00	0	0.5	1346932	482946	Moisture Content	21.6	PERCENT	NV	NORMAL
A1P3-C-14	A1P3-C-14-9RM	5/17/00	0	0.5	1346932	482946	Radium-226	1.188	pCi/g dry	-	NORMAL
A1P3-C-15	A1P3-C-15-10RM	5/18/00	0	0.5	1347919	482859.6	Beryllium	0.36	mg/kg dry	-	NORMAL
A1P3-C-15	A1P3-C-15-10RM	5/18/00	0	0.5	1347919	482859.6	Radium-228	1.144	pCi/g dry	-	NORMAL
A1P3-C-15	A1P3-C-15-10RM	5/18/00	0	0.5	1347919	482859.6	Thorium-228	1.136	pCi/g dry	-	NORMAL
A1P3-C-15	A1P3-C-15-10RM	5/18/00	0	0.5	1347919	482859.6	Uranium, Total	16.845	ug/g dry	-	NORMAL
A1P3-C-15	A1P3-C-15-10RM	5/18/00	0	0.5	1347919	482859.6	Thorium-232	1.144	pCi/g dry	-	NORMAL
A1P3-C-15	A1P3-C-15-10RM	5/18/00	0	0.5	1347919	482859.6	Moisture Content	22.7	PERCENT	NV	NORMAL
A1P3-C-15	A1P3-C-15-10RM	5/18/00	0	0.5	1347919	482859.6	Radium-226	1.375	pCi/g dry	-	NORMAL
A1P3-C-15	A1P3-C-15-11RM	5/18/00	0	0.5	1347930	482699.6	Beryllium	0.04	mg/kg dry	-	NORMAL
A1P3-C-15	A1P3-C-15-11RM	5/18/00	0	0.5	1347930	482699.6	Radium-228	0.989	pCi/g dry	-	NORMAL
A1P3-C-15	A1P3-C-15-11RM	5/18/00	0	0.5	1347930	482699.6	Thorium-228	0.977	pCi/g dry	-	NORMAL
A1P3-C-15	A1P3-C-15-11RM	5/18/00	0	0.5	1347930	482699.6	Thorium-232	0.989	pCi/g dry	-	NORMAL
A1P3-C-15	A1P3-C-15-11RM	5/18/00	0	0.5	1347930	482699.6	Uranium, Total	11.601	ug/g dry	-	NORMAL
A1P3-C-15	A1P3-C-15-11RM	5/18/00	0	0.5	1347930	482699.6	Radium-226	1.151	pCi/g dry	-	NORMAL
A1P3-C-15	A1P3-C-15-11RM	5/18/00	0	0.5	1347930	482699.6	Moisture Content	22.1	PERCENT	NV	NORMAL
A1P3-C-15	A1P3-C-15-12RM	5/18/00	0	0.5	1347866	482920	Beryllium	0.16	mg/kg dry	-	NORMAL
A1P3-C-15	A1P3-C-15-12RM	5/18/00	0	0.5	1347866	482920	Radium-226	1.288	pCi/g dry	-	NORMAL
A1P3-C-15	A1P3-C-15-12RM	5/18/00	0	0.5	1347866	482920	Thorium-228	1.027	pCi/g dry	-	NORMAL

000106

TABLE C-1
AREA 1, PHASE III, PART ONE CERTIFICATION DATA

CU	Sample ID	Sample Date	Depth Top	Depth Bottom	East 83	North 83	Parameter	Result	Units	Val. Qual.	QA Type
A1P3-C-15	A1P3-C-15-12RM	5/18/00	0	0.5	1347866	482920	Thorium-232	1.089	pCi/g dry	-	NORMAL
A1P3-C-15	A1P3-C-15-12RM	5/18/00	0	0.5	1347866	482920	Uranium, Total	20.668	ug/g dry	-	NORMAL
A1P3-C-15	A1P3-C-15-12RM	5/18/00	0	0.5	1347866	482920	Radium-228	1.089	pCi/g dry	-	NORMAL
A1P3-C-15	A1P3-C-15-12RM	5/18/00	0	0.5	1347866	482920	Moisture Content	29.4	PERCENT	NV	NORMAL
A1P3-C-15	A1P3-C-15-14RM	5/18/00	0	0.5	1347832	483023.9	Beryllium	0.03	mg/kg dry	U	NORMAL
A1P3-C-15	A1P3-C-15-14RM	5/18/00	0	0.5	1347832	483023.9	Uranium, Total	15.238	ug/g dry	-	NORMAL
A1P3-C-15	A1P3-C-15-14RM	5/18/00	0	0.5	1347832	483023.9	Radium-226	1.173	pCi/g dry	-	NORMAL
A1P3-C-15	A1P3-C-15-14RM	5/18/00	0	0.5	1347832	483023.9	Radium-228	0.963	pCi/g dry	-	NORMAL
A1P3-C-15	A1P3-C-15-14RM	5/18/00	0	0.5	1347832	483023.9	Thorium-232	0.963	pCi/g dry	-	NORMAL
A1P3-C-15	A1P3-C-15-14RM	5/18/00	0	0.5	1347832	483023.9	Thorium-228	0.951	pCi/g dry	-	NORMAL
A1P3-C-15	A1P3-C-15-14RM	5/18/00	0	0.5	1347832	483023.9	Moisture Content	27.5	PERCENT	NV	NORMAL
A1P3-C-15	A1P3-C-15-15RM	5/18/00	0	0.5	1347804	483110	Beryllium	0.36	mg/kg dry	-	NORMAL
A1P3-C-15	A1P3-C-15-15RM	5/18/00	0	0.5	1347804	483110	Uranium, Total	12.395	ug/g dry	-	NORMAL
A1P3-C-15	A1P3-C-15-15RM	5/18/00	0	0.5	1347804	483110	Thorium-232	1.138	pCi/g dry	-	NORMAL
A1P3-C-15	A1P3-C-15-15RM	5/18/00	0	0.5	1347804	483110	Radium-226	1.495	pCi/g dry	-	NORMAL
A1P3-C-15	A1P3-C-15-15RM	5/18/00	0	0.5	1347804	483110	Radium-228	1.138	pCi/g dry	-	NORMAL
A1P3-C-15	A1P3-C-15-15RM	5/18/00	0	0.5	1347804	483110	Thorium-228	1.104	pCi/g dry	-	NORMAL
A1P3-C-15	A1P3-C-15-15RM	5/18/00	0	0.5	1347804	483110	Moisture Content	23.3	PERCENT	NV	NORMAL
A1P3-C-15	A1P3-C-15-16RM	5/18/00	0	0.5	1347941	483054	Beryllium	0.5	mg/kg dry	-	NORMAL
A1P3-C-15	A1P3-C-15-16RM	5/18/00	0	0.5	1347941	483054	Thorium-232	1.205	pCi/g dry	-	NORMAL
A1P3-C-15	A1P3-C-15-16RM	5/18/00	0	0.5	1347941	483054	Uranium, Total	16.924	ug/g dry	-	NORMAL
A1P3-C-15	A1P3-C-15-16RM	5/18/00	0	0.5	1347941	483054	Thorium-228	1.196	pCi/g dry	-	NORMAL
A1P3-C-15	A1P3-C-15-16RM	5/18/00	0	0.5	1347941	483054	Moisture Content	23.4	PERCENT	NV	NORMAL
A1P3-C-15	A1P3-C-15-16RM	5/18/00	0	0.5	1347941	483054	Radium-228	1.205	pCi/g dry	-	NORMAL
A1P3-C-15	A1P3-C-15-16RM	5/18/00	0	0.5	1347941	483054	Radium-226	1.362	pCi/g dry	-	NORMAL
A1P3-C-15	A1P3-C-15-16RM-D	5/18/00	0	0.5	1347941	483054	Beryllium	0.47	mg/kg dry	-	DUPLICATE
A1P3-C-15	A1P3-C-15-16RM-D	5/18/00	0	0.5	1347941	483054	Thorium-228	1.102	pCi/g dry	-	DUPLICATE
A1P3-C-15	A1P3-C-15-16RM-D	5/18/00	0	0.5	1347941	483054	Uranium, Total	15.384	ug/g dry	-	DUPLICATE
A1P3-C-15	A1P3-C-15-16RM-D	5/18/00	0	0.5	1347941	483054	Thorium-232	1.131	pCi/g dry	-	DUPLICATE
A1P3-C-15	A1P3-C-15-16RM-D	5/18/00	0	0.5	1347941	483054	Radium-228	1.131	pCi/g dry	-	DUPLICATE
A1P3-C-15	A1P3-C-15-16RM-D	5/18/00	0	0.5	1347941	483054	Moisture Content	20.2	PERCENT	NV	DUPLICATE
A1P3-C-15	A1P3-C-15-16RM-D	5/18/00	0	0.5	1347941	483054	Radium-226	1.28	pCi/g dry	-	DUPLICATE
A1P3-C-15	A1P3-C-15-1RM	5/18/00	0	0.5	1347299	482855.7	Beryllium	0.03	mg/kg dry	U	NORMAL
A1P3-C-15	A1P3-C-15-1RM	5/18/00	0	0.5	1347299	482855.7	Radium-228	1.083	pCi/g dry	-	NORMAL
A1P3-C-15	A1P3-C-15-1RM	5/18/00	0	0.5	1347299	482855.7	Thorium-228	1.091	pCi/g dry	-	NORMAL
A1P3-C-15	A1P3-C-15-1RM	5/18/00	0	0.5	1347299	482855.7	Thorium-232	1.083	pCi/g dry	-	NORMAL
A1P3-C-15	A1P3-C-15-1RM	5/18/00	0	0.5	1347299	482855.7	Uranium, Total	17.509	ug/g dry	-	NORMAL
A1P3-C-15	A1P3-C-15-1RM	5/18/00	0	0.5	1347299	482855.7	Radium-226	1.233	pCi/g dry	-	NORMAL
A1P3-C-15	A1P3-C-15-1RM	5/18/00	0	0.5	1347299	482855.7	Moisture Content	25.2	PERCENT	NV	NORMAL
A1P3-C-15	A1P3-C-15-3RM	5/18/00	0	0.5	1347495	482848.5	Beryllium	0.03	mg/kg dry	U	NORMAL
A1P3-C-15	A1P3-C-15-3RM	5/18/00	0	0.5	1347495	482848.5	Radium-226	1.146	pCi/g dry	-	NORMAL

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TABLE C-1
AREA 1, PHASE III, PART ONE CERTIFICATION DATA

CU	Sample ID	Sample Date	Depth Top	Depth Bottom	East 83	North 83	Parameter	Result	Units	Val. Qual.	QA Type
A1P3-C-15	A1P3-C-15-3RM	5/18/00	0	0.5	1347495	482848.5	Thorium-228	0.939	pCi/g dry	-	NORMAL
A1P3-C-15	A1P3-C-15-3RM	5/18/00	0	0.5	1347495	482848.5	Thorium-232	0.941	pCi/g dry	-	NORMAL
A1P3-C-15	A1P3-C-15-3RM	5/18/00	0	0.5	1347495	482848.5	Uranium, Total	15.295	ug/g dry	-	NORMAL
A1P3-C-15	A1P3-C-15-3RM	5/18/00	0	0.5	1347495	482848.5	Radium-228	0.941	pCi/g dry	-	NORMAL
A1P3-C-15	A1P3-C-15-3RM	5/18/00	0	0.5	1347495	482848.5	Moisture Content	25.2	PERCENT	NV	NORMAL
A1P3-C-15	A1P3-C-15-4RM	5/18/00	0	0.5	1347635	482866.6	Beryllium	0.37	mg/kg dry	-	NORMAL
A1P3-C-15	A1P3-C-15-4RM	5/18/00	0	0.5	1347635	482866.6	Uranium, Total	14.625	ug/g dry	-	NORMAL
A1P3-C-15	A1P3-C-15-4RM	5/18/00	0	0.5	1347635	482866.6	Radium-226	1.447	pCi/g dry	-	NORMAL
A1P3-C-15	A1P3-C-15-4RM	5/18/00	0	0.5	1347635	482866.6	Radium-228	1.058	pCi/g dry	-	NORMAL
A1P3-C-15	A1P3-C-15-4RM	5/18/00	0	0.5	1347635	482866.6	Thorium-232	1.058	pCi/g dry	-	NORMAL
A1P3-C-15	A1P3-C-15-4RM	5/18/00	0	0.5	1347635	482866.6	Thorium-228	1.046	pCi/g dry	-	NORMAL
A1P3-C-15	A1P3-C-15-4RM	5/18/00	0	0.5	1347635	482866.6	Moisture Content	21.7	PERCENT	NV	NORMAL
A1P3-C-15	A1P3-C-15-5RM	5/18/00	0	0.5	1347331	482981.4	Beryllium	0.15	mg/kg dry	-	NORMAL
A1P3-C-15	A1P3-C-15-5RM	5/18/00	0	0.5	1347331	482981.4	Uranium, Total	12.404	ug/g dry	-	NORMAL
A1P3-C-15	A1P3-C-15-5RM	5/18/00	0	0.5	1347331	482981.4	Thorium-232	0.962	pCi/g dry	-	NORMAL
A1P3-C-15	A1P3-C-15-5RM	5/18/00	0	0.5	1347331	482981.4	Radium-226	1.266	pCi/g dry	-	NORMAL
A1P3-C-15	A1P3-C-15-5RM	5/18/00	0	0.5	1347331	482981.4	Radium-228	0.962	pCi/g dry	-	NORMAL
A1P3-C-15	A1P3-C-15-5RM	5/18/00	0	0.5	1347331	482981.4	Thorium-228	0.937	pCi/g dry	-	NORMAL
A1P3-C-15	A1P3-C-15-5RM	5/18/00	0	0.5	1347331	482981.4	Moisture Content	22.7	PERCENT	NV	NORMAL
A1P3-C-15	A1P3-C-15-7RM	5/18/00	0	0.5	1347646	482980	Beryllium	0.23	mg/kg dry	-	NORMAL
A1P3-C-15	A1P3-C-15-7RM	5/18/00	0	0.5	1347646	482980	Thorium-232	0.959	pCi/g dry	-	NORMAL
A1P3-C-15	A1P3-C-15-7RM	5/18/00	0	0.5	1347646	482980	Uranium, Total	13.911	ug/g dry	-	NORMAL
A1P3-C-15	A1P3-C-15-7RM	5/18/00	0	0.5	1347646	482980	Thorium-228	0.934	pCi/g dry	-	NORMAL
A1P3-C-15	A1P3-C-15-7RM	5/18/00	0	0.5	1347646	482980	Moisture Content	25.9	PERCENT	NV	NORMAL
A1P3-C-15	A1P3-C-15-7RM	5/18/00	0	0.5	1347646	482980	Radium-228	0.959	pCi/g dry	-	NORMAL
A1P3-C-15	A1P3-C-15-7RM	5/18/00	0	0.5	1347646	482980	Radium-226	1.176	pCi/g dry	-	NORMAL
A1P3-C-15	A1P3-C-15-8RM	5/18/00	0	0.5	1347583	483139.3	Beryllium	0.22	mg/kg dry	-	NORMAL
A1P3-C-15	A1P3-C-15-8RM	5/18/00	0	0.5	1347583	483139.3	Thorium-228	1.016	pCi/g dry	-	NORMAL
A1P3-C-15	A1P3-C-15-8RM	5/18/00	0	0.5	1347583	483139.3	Uranium, Total	7.996	ug/g dry	-	NORMAL
A1P3-C-15	A1P3-C-15-8RM	5/18/00	0	0.5	1347583	483139.3	Thorium-232	1.049	pCi/g dry	-	NORMAL
A1P3-C-15	A1P3-C-15-8RM	5/18/00	0	0.5	1347583	483139.3	Radium-228	1.049	pCi/g dry	-	NORMAL
A1P3-C-15	A1P3-C-15-8RM	5/18/00	0	0.5	1347583	483139.3	Moisture Content	17.1	PERCENT	NV	NORMAL
A1P3-C-15	A1P3-C-15-8RM	5/18/00	0	0.5	1347583	483139.3	Radium-226	1.249	pCi/g dry	-	NORMAL
A1P3-C-16	A1P3-C-16-10RM	5/10/00	0	0.5	1348294	482619.7	Beryllium	0.31	mg/kg dry	-	NORMAL
A1P3-C-16	A1P3-C-16-10RM	5/10/00	0	0.5	1348294	482619.7	Radium-228	0.941	pCi/g dry	-	NORMAL
A1P3-C-16	A1P3-C-16-10RM	5/10/00	0	0.5	1348294	482619.7	Thorium-228	0.936	pCi/g dry	-	NORMAL
A1P3-C-16	A1P3-C-16-10RM	5/10/00	0	0.5	1348294	482619.7	Thorium-232	0.941	pCi/g dry	-	NORMAL
A1P3-C-16	A1P3-C-16-10RM	5/10/00	0	0.5	1348294	482619.7	Uranium, Total	25.126	ug/g dry	-	NORMAL
A1P3-C-16	A1P3-C-16-10RM	5/10/00	0	0.5	1348294	482619.7	Radium-226	1.191	pCi/g dry	-	NORMAL
A1P3-C-16	A1P3-C-16-10RM	5/10/00	0	0.5	1348294	482619.7	Moisture Content	24	PERCENT	NV	NORMAL
A1P3-C-16	A1P3-C-16-12RM	5/10/00	0	0.5	1348343	482691.5	Beryllium	0.3	mg/kg dry	-	NORMAL

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TABLE C-1
AREA 1, PHASE III, PART ONE CERTIFICATION DATA

CU	Sample ID	Sample Date	Depth Top	Depth Bottom	East 83	North 83	Parameter	Result	Units	Val. Qual.	QA Type
A1P3-C-16	A1P3-C-16-12RM	5/10/00	0	0.5	1348343	482691.5	Radium-226	1.255	pCi/g dry	-	NORMAL
A1P3-C-16	A1P3-C-16-12RM	5/10/00	0	0.5	1348343	482691.5	Thorium-228	1.025	pCi/g dry	-	NORMAL
A1P3-C-16	A1P3-C-16-12RM	5/10/00	0	0.5	1348343	482691.5	Thorium-232	1.047	pCi/g dry	-	NORMAL
A1P3-C-16	A1P3-C-16-12RM	5/10/00	0	0.5	1348343	482691.5	Uranium, Total	15.824	ug/g dry	-	NORMAL
A1P3-C-16	A1P3-C-16-12RM	5/10/00	0	0.5	1348343	482691.5	Radium-228	1.047	pCi/g dry	-	NORMAL
A1P3-C-16	A1P3-C-16-12RM	5/10/00	0	0.5	1348343	482691.5	Moisture Content	17.8	PERCENT	NV	NORMAL
A1P3-C-16	A1P3-C-16-12RM-D	5/10/00	0	0.5	1348343	482691.5	Beryllium	0.26	mg/kg dry	-	DUPLICATE
A1P3-C-16	A1P3-C-16-12RM-D	5/10/00	0	0.5	1348343	482691.5	Uranium, Total	14.974	ug/g dry	-	DUPLICATE
A1P3-C-16	A1P3-C-16-12RM-D	5/10/00	0	0.5	1348343	482691.5	Radium-226	1.344	pCi/g dry	-	DUPLICATE
A1P3-C-16	A1P3-C-16-12RM-D	5/10/00	0	0.5	1348343	482691.5	Radium-228	1.064	pCi/g dry	-	DUPLICATE
A1P3-C-16	A1P3-C-16-12RM-D	5/10/00	0	0.5	1348343	482691.5	Thorium-232	1.064	pCi/g dry	-	DUPLICATE
A1P3-C-16	A1P3-C-16-12RM-D	5/10/00	0	0.5	1348343	482691.5	Thorium-228	1.045	pCi/g dry	-	DUPLICATE
A1P3-C-16	A1P3-C-16-12RM-D	5/10/00	0	0.5	1348343	482691.5	Moisture Content	18	PERCENT	NV	DUPLICATE
A1P3-C-16	A1P3-C-16-13RM	5/10/00	0	0.5	1348464	482558.5	Beryllium	0.17	mg/kg dry	-	NORMAL
A1P3-C-16	A1P3-C-16-13RM	5/10/00	0	0.5	1348464	482558.5	Uranium, Total	24.24	ug/g dry	-	NORMAL
A1P3-C-16	A1P3-C-16-13RM	5/10/00	0	0.5	1348464	482558.5	Thorium-232	0.67	pCi/g dry	-	NORMAL
A1P3-C-16	A1P3-C-16-13RM	5/10/00	0	0.5	1348464	482558.5	Thorium-228	0.615	pCi/g dry	-	NORMAL
A1P3-C-16	A1P3-C-16-13RM	5/10/00	0	0.5	1348464	482558.5	Radium-228	0.67	pCi/g dry	-	NORMAL
A1P3-C-16	A1P3-C-16-13RM	5/10/00	0	0.5	1348464	482558.5	Radium-226	1.003	pCi/g dry	-	NORMAL
A1P3-C-16	A1P3-C-16-13RM	5/10/00	0	0.5	1348464	482558.5	Moisture Content	17.2	PERCENT	NV	NORMAL
A1P3-C-16	A1P3-C-16-14RM	5/10/00	0	0.5	1348664	482621.3	Beryllium	0.19	mg/kg dry	-	NORMAL
A1P3-C-16	A1P3-C-16-14RM	5/10/00	0	0.5	1348664	482621.3	Radium-226	1.041	pCi/g dry	-	NORMAL
A1P3-C-16	A1P3-C-16-14RM	5/10/00	0	0.5	1348664	482621.3	Uranium, Total	19.397	ug/g dry	-	NORMAL
A1P3-C-16	A1P3-C-16-14RM	5/10/00	0	0.5	1348664	482621.3	Thorium-232	0.803	pCi/g dry	-	NORMAL
A1P3-C-16	A1P3-C-16-14RM	5/10/00	0	0.5	1348664	482621.3	Thorium-228	0.794	pCi/g dry	-	NORMAL
A1P3-C-16	A1P3-C-16-14RM	5/10/00	0	0.5	1348664	482621.3	Radium-228	0.803	pCi/g dry	-	NORMAL
A1P3-C-16	A1P3-C-16-14RM	5/10/00	0	0.5	1348664	482621.3	Moisture Content	15.6	PERCENT	NV	NORMAL
A1P3-C-16	A1P3-C-16-16RM	5/10/00	0	0.5	1348634	482683.9	Beryllium	0.3	mg/kg dry	-	NORMAL
A1P3-C-16	A1P3-C-16-16RM	5/10/00	0	0.5	1348634	482683.9	Moisture Content	17	PERCENT	NV	NORMAL
A1P3-C-16	A1P3-C-16-16RM	5/10/00	0	0.5	1348634	482683.9	Radium-228	0.77	pCi/g dry	-	NORMAL
A1P3-C-16	A1P3-C-16-16RM	5/10/00	0	0.5	1348634	482683.9	Uranium, Total	30.474	ug/g dry	-	NORMAL
A1P3-C-16	A1P3-C-16-16RM	5/10/00	0	0.5	1348634	482683.9	Thorium-232	0.77	pCi/g dry	-	NORMAL
A1P3-C-16	A1P3-C-16-16RM	5/10/00	0	0.5	1348634	482683.9	Thorium-228	0.762	pCi/g dry	-	NORMAL
A1P3-C-16	A1P3-C-16-16RM	5/10/00	0	0.5	1348634	482683.9	Radium-226	0.919	pCi/g dry	-	NORMAL
A1P3-C-16	A1P3-C-16-1RM	5/10/00	0	0.5	1347298	482703	Beryllium	0.32	mg/kg dry	-	NORMAL
A1P3-C-16	A1P3-C-16-1RM	5/10/00	0	0.5	1347298	482703	Moisture Content	15.3	PERCENT	NV	NORMAL
A1P3-C-16	A1P3-C-16-1RM	5/10/00	0	0.5	1347298	482703	Radium-226	1.26	pCi/g dry	-	NORMAL
A1P3-C-16	A1P3-C-16-1RM	5/10/00	0	0.5	1347298	482703	Thorium-228	0.972	pCi/g dry	-	NORMAL
A1P3-C-16	A1P3-C-16-1RM	5/10/00	0	0.5	1347298	482703	Uranium, Total	9.701	ug/g dry	-	NORMAL
A1P3-C-16	A1P3-C-16-1RM	5/10/00	0	0.5	1347298	482703	Thorium-232	0.982	pCi/g dry	-	NORMAL
A1P3-C-16	A1P3-C-16-1RM	5/10/00	0	0.5	1347298	482703	Radium-228	0.982	pCi/g dry	-	NORMAL

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TABLE C-1
AREA 1, PHASE III, PART ONE CERTIFICATION DATA

CU	Sample ID	Sample Date	Depth Top	Depth Bottom	East 83	North 83	Parameter	Result	Units	Val. Qual.	QA Type
A1P3-C-16	A1P3-C-16-2RM	5/10/00	0	0.5	1347443	482723.2	Beryllium	0.16	mg/kg dry	-	NORMAL
A1P3-C-16	A1P3-C-16-2RM	5/10/00	0	0.5	1347443	482723.2	Moisture Content	20.2	PERCENT	NV	NORMAL
A1P3-C-16	A1P3-C-16-2RM	5/10/00	0	0.5	1347443	482723.2	Radium-226	1.23	pCi/g dry	-	NORMAL
A1P3-C-16	A1P3-C-16-2RM	5/10/00	0	0.5	1347443	482723.2	Radium-228	1.17	pCi/g dry	-	NORMAL
A1P3-C-16	A1P3-C-16-2RM	5/10/00	0	0.5	1347443	482723.2	Thorium-232	1.17	pCi/g dry	-	NORMAL
A1P3-C-16	A1P3-C-16-2RM	5/10/00	0	0.5	1347443	482723.2	Uranium, Total	9.711	ug/g dry	-	NORMAL
A1P3-C-16	A1P3-C-16-2RM	5/10/00	0	0.5	1347443	482723.2	Thorium-228	1.147	pCi/g dry	-	NORMAL
A1P3-C-16	A1P3-C-16-3RM	5/10/00	0	0.5	1347555	482665.6	Beryllium	0.18	mg/kg dry	-	NORMAL
A1P3-C-16	A1P3-C-16-3RM	5/10/00	0	0.5	1347555	482665.6	Radium-228	0.684	pCi/g dry	-	NORMAL
A1P3-C-16	A1P3-C-16-3RM	5/10/00	0	0.5	1347555	482665.6	Moisture Content	21	PERCENT	NV	NORMAL
A1P3-C-16	A1P3-C-16-3RM	5/10/00	0	0.5	1347555	482665.6	Radium-226	1.094	pCi/g dry	-	NORMAL
A1P3-C-16	A1P3-C-16-3RM	5/10/00	0	0.5	1347555	482665.6	Thorium-228	0.676	pCi/g dry	-	NORMAL
A1P3-C-16	A1P3-C-16-3RM	5/10/00	0	0.5	1347555	482665.6	Uranium, Total	6.676	ug/g dry	-	NORMAL
A1P3-C-16	A1P3-C-16-3RM	5/10/00	0	0.5	1347555	482665.6	Thorium-232	0.684	pCi/g dry	-	NORMAL
A1P3-C-16	A1P3-C-16-5RM	5/10/00	0	0.5	1347756	482633.6	Beryllium	0.29	mg/kg dry	-	NORMAL
A1P3-C-16	A1P3-C-16-5RM	5/10/00	0	0.5	1347756	482633.6	Radium-228	1.003	pCi/g dry	-	NORMAL
A1P3-C-16	A1P3-C-16-5RM	5/10/00	0	0.5	1347756	482633.6	Thorium-228	0.992	pCi/g dry	-	NORMAL
A1P3-C-16	A1P3-C-16-5RM	5/10/00	0	0.5	1347756	482633.6	Radium-226	1.172	pCi/g dry	-	NORMAL
A1P3-C-16	A1P3-C-16-5RM	5/10/00	0	0.5	1347756	482633.6	Moisture Content	21.1	PERCENT	NV	NORMAL
A1P3-C-16	A1P3-C-16-5RM	5/10/00	0	0.5	1347756	482633.6	Thorium-232	1.003	pCi/g dry	-	NORMAL
A1P3-C-16	A1P3-C-16-5RM	5/10/00	0	0.5	1347756	482633.6	Uranium, Total	24.896	ug/g dry	-	NORMAL
A1P3-C-16	A1P3-C-16-6RM	5/10/00	0	0.5	1347897	482635.4	Beryllium	0.05	mg/kg dry	-	NORMAL
A1P3-C-16	A1P3-C-16-6RM	5/10/00	0	0.5	1347897	482635.4	Moisture Content	22.8	PERCENT	NV	NORMAL
A1P3-C-16	A1P3-C-16-6RM	5/10/00	0	0.5	1347897	482635.4	Thorium-228	0.934	pCi/g dry	-	NORMAL
A1P3-C-16	A1P3-C-16-6RM	5/10/00	0	0.5	1347897	482635.4	Thorium-232	0.947	pCi/g dry	-	NORMAL
A1P3-C-16	A1P3-C-16-6RM	5/10/00	0	0.5	1347897	482635.4	Radium-228	0.947	pCi/g dry	-	NORMAL
A1P3-C-16	A1P3-C-16-6RM	5/10/00	0	0.5	1347897	482635.4	Radium-226	1.136	pCi/g dry	-	NORMAL
A1P3-C-16	A1P3-C-16-6RM	5/10/00	0	0.5	1347897	482635.4	Uranium, Total	47.489	ug/g dry	-	NORMAL
A1P3-C-16	A1P3-C-16-8RM	5/10/00	0	0.5	1348006	482687.6	Beryllium	0.31	mg/kg dry	-	NORMAL
A1P3-C-16	A1P3-C-16-8RM	5/10/00	0	0.5	1348006	482687.6	Uranium, Total	22.854	ug/g dry	-	NORMAL
A1P3-C-16	A1P3-C-16-8RM	5/10/00	0	0.5	1348006	482687.6	Thorium-232	1.022	pCi/g dry	-	NORMAL
A1P3-C-16	A1P3-C-16-8RM	5/10/00	0	0.5	1348006	482687.6	Thorium-228	1.004	pCi/g dry	-	NORMAL
A1P3-C-16	A1P3-C-16-8RM	5/10/00	0	0.5	1348006	482687.6	Radium-228	1.022	pCi/g dry	-	NORMAL
A1P3-C-16	A1P3-C-16-8RM	5/10/00	0	0.5	1348006	482687.6	Radium-226	1.289	pCi/g dry	-	NORMAL
A1P3-C-16	A1P3-C-16-8RM	5/10/00	0	0.5	1348006	482687.6	Moisture Content	23	PERCENT	NV	NORMAL
A1P3-C-16	A1P3-C-16-9RM	5/10/00	0	0.5	1348164	482592.4	Beryllium	0.09	mg/kg dry	-	NORMAL
A1P3-C-16	A1P3-C-16-9RM	5/10/00	0	0.5	1348164	482592.4	Radium-226	1.308	pCi/g dry	-	NORMAL
A1P3-C-16	A1P3-C-16-9RM	5/10/00	0	0.5	1348164	482592.4	Uranium, Total	14.741	ug/g dry	-	NORMAL
A1P3-C-16	A1P3-C-16-9RM	5/10/00	0	0.5	1348164	482592.4	Thorium-232	1.062	pCi/g dry	-	NORMAL
A1P3-C-16	A1P3-C-16-9RM	5/10/00	0	0.5	1348164	482592.4	Thorium-228	1.04	pCi/g dry	-	NORMAL
A1P3-C-16	A1P3-C-16-9RM	5/10/00	0	0.5	1348164	482592.4	Radium-228	1.062	pCi/g dry	-	NORMAL

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TABLE C-1
AREA 1, PHASE III, PART ONE CERTIFICATION DATA

CU	Sample ID	Sample Date	Depth Top	Depth Bottom	East 83	North 83	Parameter	Result	Units	Val. Qual.	QA Type
A1P3-C-16	A1P3-C-16-9RM	5/10/00	0	0.5	1348164	482592.4	Moisture Content	22.1	PERCENT	NV	NORMAL
A1P3-C-17	A1P3-C-17-10R	5/9/00	0	0.5	1348487	483688.9	Moisture Content	23.1	PERCENT	NV	NORMAL
A1P3-C-17	A1P3-C-17-10R	5/9/00	0	0.5	1348487	483688.9	Uranium, Total	7.756	ug/g dry	-	NORMAL
A1P3-C-17	A1P3-C-17-10R	5/9/00	0	0.5	1348487	483688.9	Thorium-232	1.112	pCi/g dry	-	NORMAL
A1P3-C-17	A1P3-C-17-10R	5/9/00	0	0.5	1348487	483688.9	Radium-226	1.287	pCi/g dry	-	NORMAL
A1P3-C-17	A1P3-C-17-10R	5/9/00	0	0.5	1348487	483688.9	Radium-228	1.112	pCi/g dry	-	NORMAL
A1P3-C-17	A1P3-C-17-10R	5/9/00	0	0.5	1348487	483688.9	Thorium-228	1.12	pCi/g dry	-	NORMAL
A1P3-C-17	A1P3-C-17-12R	5/9/00	0	0.5	1348525	483773.8	Moisture Content	23.3	PERCENT	NV	NORMAL
A1P3-C-17	A1P3-C-17-12R	5/9/00	0	0.5	1348525	483773.8	Thorium-228	1.035	pCi/g dry	-	NORMAL
A1P3-C-17	A1P3-C-17-12R	5/9/00	0	0.5	1348525	483773.8	Uranium, Total	2.536	ug/g dry	U	NORMAL
A1P3-C-17	A1P3-C-17-12R	5/9/00	0	0.5	1348525	483773.8	Thorium-232	1.067	pCi/g dry	-	NORMAL
A1P3-C-17	A1P3-C-17-12R	5/9/00	0	0.5	1348525	483773.8	Radium-228	1.067	pCi/g dry	-	NORMAL
A1P3-C-17	A1P3-C-17-12R	5/9/00	0	0.5	1348525	483773.8	Radium-226	1.186	pCi/g dry	-	NORMAL
A1P3-C-17	A1P3-C-17-14R	5/9/00	0	0.5	1348848	483735.1	Moisture Content	33	PERCENT	NV	NORMAL
A1P3-C-17	A1P3-C-17-14R	5/9/00	0	0.5	1348848	483735.1	Radium-226	1.208	pCi/g dry	-	NORMAL
A1P3-C-17	A1P3-C-17-14R	5/9/00	0	0.5	1348848	483735.1	Thorium-228	0.887	pCi/g dry	-	NORMAL
A1P3-C-17	A1P3-C-17-14R	5/9/00	0	0.5	1348848	483735.1	Uranium, Total	5.338	ug/g dry	J	NORMAL
A1P3-C-17	A1P3-C-17-14R	5/9/00	0	0.5	1348848	483735.1	Thorium-232	0.921	pCi/g dry	-	NORMAL
A1P3-C-17	A1P3-C-17-14R	5/9/00	0	.0.5	1348848	483735.1	Radium-228	0.921	pCi/g dry	-	NORMAL
A1P3-C-17	A1P3-C-17-15R	5/9/00	0	0.5	1348683	483847.7	Moisture Content	26.4	PERCENT	NV	NORMAL
A1P3-C-17	A1P3-C-17-15R	5/9/00	0	0.5	1348683	483847.7	Radium-226	1.237	pCi/g dry	-	NORMAL
A1P3-C-17	A1P3-C-17-15R	5/9/00	0	0.5	1348683	483847.7	Radium-228	1.007	pCi/g dry	-	NORMAL
A1P3-C-17	A1P3-C-17-15R	5/9/00	0	0.5	1348683	483847.7	Thorium-228	0.976	pCi/g dry	-	NORMAL
A1P3-C-17	A1P3-C-17-15R	5/9/00	0	0.5	1348683	483847.7	Uranium, Total	17.24	ug/g dry	-	NORMAL
A1P3-C-17	A1P3-C-17-15R	5/9/00	0	0.5	1348683	483847.7	Thorium-232	1.007	pCi/g dry	-	NORMAL
A1P3-C-17	A1P3-C-17-16R	5/9/00	0	0.5	1348764	483820.6	Moisture Content	23.6	PERCENT	NV	NORMAL
A1P3-C-17	A1P3-C-17-16R	5/9/00	0	0.5	1348764	483820.6	Uranium, Total	12.378	ug/g dry	-	NORMAL
A1P3-C-17	A1P3-C-17-16R	5/9/00	0	0.5	1348764	483820.6	Thorium-232	1.142	pCi/g dry	-	NORMAL
A1P3-C-17	A1P3-C-17-16R	5/9/00	0	0.5	1348764	483820.6	Radium-226	1.293	pCi/g dry	-	NORMAL
A1P3-C-17	A1P3-C-17-16R	5/9/00	0	0.5	1348764	483820.6	Radium-228	1.142	pCi/g dry	-	NORMAL
A1P3-C-17	A1P3-C-17-16R	5/9/00	0	0.5	1348764	483820.6	Thorium-228	1.129	pCi/g dry	-	NORMAL
A1P3-C-17	A1P3-C-17-16R-D	5/9/00	0	0.5	1348764	483820.6	Moisture Content	24.7	PERCENT	NV	DUPLICATE
A1P3-C-17	A1P3-C-17-16R-D	5/9/00	0	0.5	1348764	483820.6	Thorium-228	1.161	pCi/g dry	-	DUPLICATE
A1P3-C-17	A1P3-C-17-16R-D	5/9/00	0	0.5	1348764	483820.6	Uranium, Total	9.289	ug/g dry	-	DUPLICATE
A1P3-C-17	A1P3-C-17-16R-D	5/9/00	0	0.5	1348764	483820.6	Thorium-232	1.164	pCi/g dry	-	DUPLICATE
A1P3-C-17	A1P3-C-17-16R-D	5/9/00	0	0.5	1348764	483820.6	Radium-228	1.164	pCi/g dry	-	DUPLICATE
A1P3-C-17	A1P3-C-17-16R-D	5/9/00	0	0.5	1348764	483820.6	Radium-226	1.216	pCi/g dry	-	DUPLICATE
A1P3-C-17	A1P3-C-17-1R	5/9/00	0	0.5	1348349	483535.2	Moisture Content	16.2	PERCENT	NV	NORMAL
A1P3-C-17	A1P3-C-17-1R	5/9/00	0	0.5	1348349	483535.2	Uranium, Total	11.902	ug/g dry	-	NORMAL
A1P3-C-17	A1P3-C-17-1R	5/9/00	0	0.5	1348349	483535.2	Thorium-232	0.95	pCi/g dry	-	NORMAL
A1P3-C-17	A1P3-C-17-1R	5/9/00	0	0.5	1348349	483535.2	Radium-226	1.098	pCi/g dry	-	NORMAL

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TABLE C-1
AREA 1, PHASE III, PART ONE CERTIFICATION DATA

CU	Sample ID	Sample Date	Depth Top	Depth Bottom	East 83	North 83	Parameter	Result	Units	Val. Qual.	QA Type
A1P3-C-17	A1P3-C-17-1R	5/9/00	0	0.5	1348349	483535.2	Radium-228	0.95	pCi/g dry	-	NORMAL
A1P3-C-17	A1P3-C-17-1R	5/9/00	0	0.5	1348349	483535.2	Thorium-228	0.933	pCi/g dry	-	NORMAL
A1P3-C-17	A1P3-C-17-2R	5/9/00	0	0.5	1348437	483511	Moisture Content	27.9	PERCENT	NV	NORMAL
A1P3-C-17	A1P3-C-17-2R	5/9/00	0	0.5	1348437	483511	Thorium-228	1.019	pCi/g dry	-	NORMAL
A1P3-C-17	A1P3-C-17-2R	5/9/00	0	0.5	1348437	483511	Uranium, Total	12.007	ug/g dry	-	NORMAL
A1P3-C-17	A1P3-C-17-2R	5/9/00	0	0.5	1348437	483511	Thorium-232	1.041	pCi/g dry	-	NORMAL
A1P3-C-17	A1P3-C-17-2R	5/9/00	0	0.5	1348437	483511	Radium-228	1.041	pCi/g dry	-	NORMAL
A1P3-C-17	A1P3-C-17-2R	5/9/00	0	0.5	1348437	483511	Radium-226	1.293	pCi/g dry	-	NORMAL
A1P3-C-17	A1P3-C-17-4R	5/9/00	0	0.5	1348409	483642.6	Moisture Content	22.7	PERCENT	NV	NORMAL
A1P3-C-17	A1P3-C-17-4R	5/9/00	0	0.5	1348409	483642.6	Radium-226	1.211	pCi/g dry	-	NORMAL
A1P3-C-17	A1P3-C-17-4R	5/9/00	0	0.5	1348409	483642.6	Thorium-228	0.918	pCi/g dry	-	NORMAL
A1P3-C-17	A1P3-C-17-4R	5/9/00	0	0.5	1348409	483642.6	Uranium, Total	9.154	ug/g dry	-	NORMAL
A1P3-C-17	A1P3-C-17-4R	5/9/00	0	0.5	1348409	483642.6	Thorium-232	0.93	pCi/g dry	-	NORMAL
A1P3-C-17	A1P3-C-17-4R	5/9/00	0	0.5	1348409	483642.6	Radium-228	0.93	pCi/g dry	-	NORMAL
A1P3-C-17	A1P3-C-17-6R	5/9/00	0	0.5	1348805	483544.9	Moisture Content	24.6	PERCENT	NV	NORMAL
A1P3-C-17	A1P3-C-17-6R	5/9/00	0	0.5	1348805	483544.9	Radium-226	1.23	pCi/g dry	-	NORMAL
A1P3-C-17	A1P3-C-17-6R	5/9/00	0	0.5	1348805	483544.9	Thorium-228	1.204	pCi/g dry	-	NORMAL
A1P3-C-17	A1P3-C-17-6R	5/9/00	0	0.5	1348805	483544.9	Uranium, Total	14.014	ug/g dry	-	NORMAL
A1P3-C-17	A1P3-C-17-6R	5/9/00	0	0.5	1348805	483544.9	Thorium-232	1.22	pCi/g dry	-	NORMAL
A1P3-C-17	A1P3-C-17-6R	5/9/00	0	0.5	1348805	483544.9	Radium-228	1.22	pCi/g dry	-	NORMAL
A1P3-C-17	A1P3-C-17-7R	5/9/00	0	0.5	1348580	483648	Moisture Content	22.8	PERCENT	NV	NORMAL
A1P3-C-17	A1P3-C-17-7R	5/9/00	0	0.5	1348580	483648	Radium-226	1.247	pCi/g dry	-	NORMAL
A1P3-C-17	A1P3-C-17-7R	5/9/00	0	0.5	1348580	483648	Radium-228	1.093	pCi/g dry	-	NORMAL
A1P3-C-17	A1P3-C-17-7R	5/9/00	0	0.5	1348580	483648	Thorium-228	1.086	pCi/g dry	-	NORMAL
A1P3-C-17	A1P3-C-17-7R	5/9/00	0	0.5	1348580	483648	Uranium, Total	8.531	ug/g dry	-	NORMAL
A1P3-C-17	A1P3-C-17-7R	5/9/00	0	0.5	1348580	483648	Thorium-232	1.093	pCi/g dry	-	NORMAL
A1P3-C-17	A1P3-C-17-8R	5/9/00	0	0.5	1348747	483629.2	Moisture Content	22.1	PERCENT	NV	NORMAL
A1P3-C-17	A1P3-C-17-8R	5/9/00	0	0.5	1348747	483629.2	Thorium-228	1.134	pCi/g dry	-	NORMAL
A1P3-C-17	A1P3-C-17-8R	5/9/00	0	0.5	1348747	483629.2	Thorium-232	1.141	pCi/g dry	-	NORMAL
A1P3-C-17	A1P3-C-17-8R	5/9/00	0	0.5	1348747	483629.2	Radium-228	1.141	pCi/g dry	-	NORMAL
A1P3-C-17	A1P3-C-17-8R	5/9/00	0	0.5	1348747	483629.2	Radium-226	1.171	pCi/g dry	-	NORMAL
A1P3-C-17	A1P3-C-17-8R	5/9/00	0	0.5	1348747	483629.2	Uranium, Total	11.665	ug/g dry	-	NORMAL
A1P3-C-17	A1P3-C-17-9R	5/9/00	0	0.5	1348284	483763.7	Moisture Content	32	PERCENT	NV	NORMAL
A1P3-C-17	A1P3-C-17-9R	5/9/00	0	0.5	1348284	483763.7	Uranium, Total	15.789	ug/g dry	-	NORMAL
A1P3-C-17	A1P3-C-17-9R	5/9/00	0	0.5	1348284	483763.7	Thorium-232	0.991	pCi/g dry	-	NORMAL
A1P3-C-17	A1P3-C-17-9R	5/9/00	0	0.5	1348284	483763.7	Thorium-228	0.966	pCi/g dry	-	NORMAL
A1P3-C-17	A1P3-C-17-9R	5/9/00	0	0.5	1348284	483763.7	Radium-228	0.991	pCi/g dry	-	NORMAL
A1P3-C-17	A1P3-C-17-9R	5/9/00	0	0.5	1348284	483763.7	Radium-226	1.183	pCi/g dry	-	NORMAL
A1P3-C-18	A1P3-C-18-11R	5/9/00	0	0.5	1348657	483380.6	Moisture Content	23.4	PERCENT	NV	NORMAL
A1P3-C-18	A1P3-C-18-11R	5/9/00	0	0.5	1348657	483380.6	Radium-226	1.306	pCi/g dry	J	NORMAL
A1P3-C-18	A1P3-C-18-11R	5/9/00	0	0.5	1348657	483380.6	Radium-228	1.058	pCi/g dry	-	NORMAL

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TABLE C-1
AREA 1, PHASE III, PART ONE CERTIFICATION DATA

CU	Sample ID	Sample Date	Depth Top	Depth Bottom	East 83	North 83	Parameter	Result	Units	Val. Qual.	QA Type
A1P3-C-18	A1P3-C-18-11R	5/9/00	0	0.5	1348657	483380.6	Thorium-228	1.042	pCi/g dry	-	NORMAL
A1P3-C-18	A1P3-C-18-11R	5/9/00	0	0.5	1348657	483380.6	Uranium, Total	10.313	ug/g dry	-	NORMAL
A1P3-C-18	A1P3-C-18-11R	5/9/00	0	0.5	1348657	483380.6	Thorium-232	1.058	pCi/g dry	-	NORMAL
A1P3-C-18	A1P3-C-18-12R	5/9/00	0	0.5	1348733	483373.1	Moisture Content	26.5	PERCENT	NV	NORMAL
A1P3-C-18	A1P3-C-18-12R	5/9/00	0	0.5	1348733	483373.1	Radium-226	1.24	pCi/g dry	-	NORMAL
A1P3-C-18	A1P3-C-18-12R	5/9/00	0	0.5	1348733	483373.1	Radium-228	1.093	pCi/g dry	-	NORMAL
A1P3-C-18	A1P3-C-18-12R	5/9/00	0	0.5	1348733	483373.1	Thorium-228	1.075	pCi/g dry	-	NORMAL
A1P3-C-18	A1P3-C-18-12R	5/9/00	0	0.5	1348733	483373.1	Thorium-232	1.093	pCi/g dry	-	NORMAL
A1P3-C-18	A1P3-C-18-12R	5/9/00	0	0.5	1348733	483373.1	Uranium, Total	12.011	ug/g dry	-	NORMAL
A1P3-C-18	A1P3-C-18-13R	5/9/00	0	0.5	1348851	483140.2	Moisture Content	26.6	PERCENT	NV	NORMAL
A1P3-C-18	A1P3-C-18-13R	5/9/00	0	0.5	1348851	483140.2	Radium-226	1.239	pCi/g dry	-	NORMAL
A1P3-C-18	A1P3-C-18-13R	5/9/00	0	0.5	1348851	483140.2	Radium-228	1.025	pCi/g dry	-	NORMAL
A1P3-C-18	A1P3-C-18-13R	5/9/00	0	0.5	1348851	483140.2	Thorium-228	1.045	pCi/g dry	-	NORMAL
A1P3-C-18	A1P3-C-18-13R	5/9/00	0	0.5	1348851	483140.2	Thorium-232	1.025	pCi/g dry	-	NORMAL
A1P3-C-18	A1P3-C-18-13R	5/9/00	0	0.5	1348851	483140.2	Uranium, Total	12.486	ug/g dry	-	NORMAL
A1P3-C-18	A1P3-C-18-14R	5/9/00	0	0.5	1348913	483119.9	Moisture Content	24.3	PERCENT	NV	NORMAL
A1P3-C-18	A1P3-C-18-14R	5/9/00	0	0.5	1348913	483119.9	Radium-226	1.272	pCi/g dry	-	NORMAL
A1P3-C-18	A1P3-C-18-14R	5/9/00	0	0.5	1348913	483119.9	Thorium-228	1.069	pCi/g dry	-	NORMAL
A1P3-C-18	A1P3-C-18-14R	5/9/00	0	0.5	1348913	483119.9	Uranium, Total	7.908	ug/g dry	-	NORMAL
A1P3-C-18	A1P3-C-18-14R	5/9/00	0	0.5	1348913	483119.9	Thorium-232	1.097	pCi/g dry	-	NORMAL
A1P3-C-18	A1P3-C-18-14R	5/9/00	0	0.5	1348913	483119.9	Radium-228	1.097	pCi/g dry	-	NORMAL
A1P3-C-18	A1P3-C-18-16R	5/9/00	0	0.5	1348816	483354	Moisture Content	25.1	PERCENT	NV	NORMAL
A1P3-C-18	A1P3-C-18-16R	5/9/00	0	0.5	1348816	483354	Radium-228	1.031	pCi/g dry	-	NORMAL
A1P3-C-18	A1P3-C-18-16R	5/9/00	0	0.5	1348816	483354	Radium-226	1.253	pCi/g dry	-	NORMAL
A1P3-C-18	A1P3-C-18-16R	5/9/00	0	0.5	1348816	483354	Thorium-228	1.031	pCi/g dry	-	NORMAL
A1P3-C-18	A1P3-C-18-16R	5/9/00	0	0.5	1348816	483354	Uranium, Total	14.52	ug/g dry	-	NORMAL
A1P3-C-18	A1P3-C-18-16R	5/9/00	0	0.5	1348816	483354	Thorium-232	1.031	pCi/g dry	-	NORMAL
A1P3-C-18	A1P3-C-18-1R	5/9/00	0	0.5	1348317	483237.6	Moisture Content	19.9	PERCENT	NV	NORMAL
A1P3-C-18	A1P3-C-18-1R	5/9/00	0	0.5	1348317	483237.6	Radium-226	1.202	pCi/g dry	-	NORMAL
A1P3-C-18	A1P3-C-18-1R	5/9/00	0	0.5	1348317	483237.6	Thorium-228	1.08	pCi/g dry	-	NORMAL
A1P3-C-18	A1P3-C-18-1R	5/9/00	0	0.5	1348317	483237.6	Uranium, Total	15.095	ug/g dry	-	NORMAL
A1P3-C-18	A1P3-C-18-1R	5/9/00	0	0.5	1348317	483237.6	Thorium-232	1.07	pCi/g dry	-	NORMAL
A1P3-C-18	A1P3-C-18-1R	5/9/00	0	0.5	1348317	483237.6	Radium-228	1.07	pCi/g dry	-	NORMAL
A1P3-C-18	A1P3-C-18-2R	5/9/00	0	0.5	1348411	483228.2	Moisture Content	19.7	PERCENT	NV	NORMAL
A1P3-C-18	A1P3-C-18-2R	5/9/00	0	0.5	1348411	483228.2	Radium-228	0.96	pCi/g dry	-	NORMAL
A1P3-C-18	A1P3-C-18-2R	5/9/00	0	0.5	1348411	483228.2	Radium-226	1.056	pCi/g dry	-	NORMAL
A1P3-C-18	A1P3-C-18-2R	5/9/00	0	0.5	1348411	483228.2	Thorium-228	0.925	pCi/g dry	-	NORMAL
A1P3-C-18	A1P3-C-18-2R	5/9/00	0	0.5	1348411	483228.2	Uranium, Total	8.026	ug/g dry	-	NORMAL
A1P3-C-18	A1P3-C-18-2R	5/9/00	0	0.5	1348411	483228.2	Thorium-232	0.96	pCi/g dry	-	NORMAL
A1P3-C-18	A1P3-C-18-4R	5/9/00	0	0.5	1348404	483371.5	Moisture Content	18.4	PERCENT	NV	NORMAL
A1P3-C-18	A1P3-C-18-4R	5/9/00	0	0.5	1348404	483371.5	Thorium-228	1.023	pCi/g dry	-	NORMAL

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TABLE C-1
AREA 1, PHASE III, PART ONE CERTIFICATION DATA

CU	Sample ID	Sample Date	Depth Top	Depth Bottom	East 83	North 83	Parameter	Result	Units	Val. Qual.	QA Type
A1P3-C-18	A1P3-C-18-4R	5/9/00	0	0.5	1348404	483371.5	Thorium-232	1.075	pCi/g dry	-	NORMAL
A1P3-C-18	A1P3-C-18-4R	5/9/00	0	0.5	1348404	483371.5	Uranium, Total	9.586	ug/g dry	-	NORMAL
A1P3-C-18	A1P3-C-18-4R	5/9/00	0	0.5	1348404	483371.5	Radium-228	1.075	pCi/g dry	-	NORMAL
A1P3-C-18	A1P3-C-18-4R	5/9/00	0	0.5	1348404	483371.5	Radium-226	1.243	pCi/g dry	-	NORMAL
A1P3-C-18	A1P3-C-18-5R	5/9/00	0	0.5	1348468	483199.2	Moisture Content	24.1	PERCENT	NV	NORMAL
A1P3-C-18	A1P3-C-18-5R	5/9/00	0	0.5	1348468	483199.2	Uranium, Total	4.747	ug/g dry	-	NORMAL
A1P3-C-18	A1P3-C-18-5R	5/9/00	0	0.5	1348468	483199.2	Thorium-232	1.004	pCi/g dry	-	NORMAL
A1P3-C-18	A1P3-C-18-5R	5/9/00	0	0.5	1348468	483199.2	Radium-226	1.194	pCi/g dry	-	NORMAL
A1P3-C-18	A1P3-C-18-5R	5/9/00	0	0.5	1348468	483199.2	Thorium-228	0.996	pCi/g dry	-	NORMAL
A1P3-C-18	A1P3-C-18-5R	5/9/00	0	0.5	1348468	483199.2	Radium-228	1.004	pCi/g dry	-	NORMAL
A1P3-C-18	A1P3-C-18-7R	5/9/00	0	0.5	1348465	483393.4	Moisture Content	24.2	PERCENT	NV	NORMAL
A1P3-C-18	A1P3-C-18-7R	5/9/00	0	0.5	1348465	483393.4	Thorium-228	1.055	pCi/g dry	-	NORMAL
A1P3-C-18	A1P3-C-18-7R	5/9/00	0	0.5	1348465	483393.4	Uranium, Total	12.421	ug/g dry	-	NORMAL
A1P3-C-18	A1P3-C-18-7R	5/9/00	0	0.5	1348465	483393.4	Thorium-232	1.077	pCi/g dry	-	NORMAL
A1P3-C-18	A1P3-C-18-7R	5/9/00	0	0.5	1348465	483393.4	Radium-228	1.077	pCi/g dry	-	NORMAL
A1P3-C-18	A1P3-C-18-7R	5/9/00	0	0.5	1348465	483393.4	Radium-226	1.338	pCi/g dry	-	NORMAL
A1P3-C-18	A1P3-C-18-8R	5/9/00	0	0.5	1348562	483320	Moisture Content	24.6	PERCENT	NV	NORMAL
A1P3-C-18	A1P3-C-18-8R	5/9/00	0	0.5	1348562	483320	Radium-226	1.206	pCi/g dry	-	NORMAL
A1P3-C-18	A1P3-C-18-8R	5/9/00	0	0.5	1348562	483320	Thorium-228	0.989	pCi/g dry	-	NORMAL
A1P3-C-18	A1P3-C-18-8R	5/9/00	0	0.5	1348562	483320	Uranium, Total	15.138	ug/g dry	-	NORMAL
A1P3-C-18	A1P3-C-18-8R	5/9/00	0	0.5	1348562	483320	Thorium-232	1.003	pCi/g dry	-	NORMAL
A1P3-C-18	A1P3-C-18-8R	5/9/00	0	0.5	1348562	483320	Radium-228	1.003	pCi/g dry	-	NORMAL
A1P3-C-18	A1P3-C-18-9R	5/9/00	0	0.5	1348675	483233.2	Moisture Content	23.1	PERCENT	NV	NORMAL
A1P3-C-18	A1P3-C-18-9R	5/9/00	0	0.5	1348675	483233.2	Radium-226	1.175	pCi/g dry	-	NORMAL
A1P3-C-18	A1P3-C-18-9R	5/9/00	0	0.5	1348675	483233.2	Radium-228	1.097	pCi/g dry	-	NORMAL
A1P3-C-18	A1P3-C-18-9R	5/9/00	0	0.5	1348675	483233.2	Thorium-228	1.1	pCi/g dry	-	NORMAL
A1P3-C-18	A1P3-C-18-9R	5/9/00	0	0.5	1348675	483233.2	Thorium-232	1.097	pCi/g dry	-	NORMAL
A1P3-C-18	A1P3-C-18-9R	5/9/00	0	0.5	1348675	483233.2	Uranium, Total	11.971	ug/g dry	-	NORMAL
A1P3-C-18	A1P3-C-18-9R-D	5/9/00	0	0.5	1348675	483233.2	Moisture Content	24.1	PERCENT	NV	DUPLICATE
A1P3-C-18	A1P3-C-18-9R-D	5/9/00	0	0.5	1348675	483233.2	Radium-226	1.053	pCi/g dry	-	DUPLICATE
A1P3-C-18	A1P3-C-18-9R-D	5/9/00	0	0.5	1348675	483233.2	Radium-228	1.088	pCi/g dry	-	DUPLICATE
A1P3-C-18	A1P3-C-18-9R-D	5/9/00	0	0.5	1348675	483233.2	Thorium-228	1.091	pCi/g dry	-	DUPLICATE
A1P3-C-18	A1P3-C-18-9R-D	5/9/00	0	0.5	1348675	483233.2	Thorium-232	1.088	pCi/g dry	-	DUPLICATE
A1P3-C-18	A1P3-C-18-9R-D	5/9/00	0	0.5	1348675	483233.2	Uranium, Total	8.692	ug/g dry	-	DUPLICATE
A1P3-C-19	A1P3-C-19-10RM	5/2/00	0	0.5	1348565	482845.3	Beryllium	0.04	mg/kg dry	-	NORMAL
A1P3-C-19	A1P3-C-19-10RM	5/2/00	0	0.5	1348565	482845.3	Radium-228	0.777	pCi/g dry	-	NORMAL
A1P3-C-19	A1P3-C-19-10RM	5/2/00	0	0.5	1348565	482845.3	Thorium-228	0.777	pCi/g dry	-	NORMAL
A1P3-C-19	A1P3-C-19-10RM	5/2/00	0	0.5	1348565	482845.3	Thorium-232	0.777	pCi/g dry	-	NORMAL
A1P3-C-19	A1P3-C-19-10RM	5/2/00	0	0.5	1348565	482845.3	Uranium, Total	13.865	ug/g dry	-	NORMAL
A1P3-C-19	A1P3-C-19-10RM	5/2/00	0	0.5	1348565	482845.3	Radium-226	0.874	pCi/g dry	-	NORMAL
A1P3-C-19	A1P3-C-19-10RM	5/2/00	0	0.5	1348565	482845.3	Moisture Content	23.6	PERCENT	NV	NORMAL

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TABLE C-1
AREA 1, PHASE III, PART ONE CERTIFICATION DATA

CU	Sample ID	Sample Date	Depth Top	Depth Bottom	East 83	North 83	Parameter	Result	Units	Val. Qual.	QA Type
A1P3-C-19	A1P3-C-19-12RM	5/2/00	0	0.5	1348581	482978.5	Beryllium	0.36	mg/kg dry	-	NORMAL
A1P3-C-19	A1P3-C-19-12RM	5/2/00	0	0.5	1348581	482978.5	Radium-226	1.164	pCi/g dry	-	NORMAL
A1P3-C-19	A1P3-C-19-12RM	5/2/00	0	0.5	1348581	482978.5	Thorium-228	0.934	pCi/g dry	-	NORMAL
A1P3-C-19	A1P3-C-19-12RM	5/2/00	0	0.5	1348581	482978.5	Thorium-232	0.954	pCi/g dry	-	NORMAL
A1P3-C-19	A1P3-C-19-12RM	5/2/00	0	0.5	1348581	482978.5	Uranium, Total	6.701	ug/g dry	-	NORMAL
A1P3-C-19	A1P3-C-19-12RM	5/2/00	0	0.5	1348581	482978.5	Radium-228	0.954	pCi/g dry	-	NORMAL
A1P3-C-19	A1P3-C-19-12RM	5/2/00	0	0.5	1348581	482978.5	Moisture Content	25.5	PERCENT	NV	NORMAL
A1P3-C-19	A1P3-C-19-13RM	5/2/00	0	0.5	1348641	482777	Beryllium	0.03	mg/kg dry	-	NORMAL
A1P3-C-19	A1P3-C-19-13RM	5/2/00	0	0.5	1348641	482777	Uranium, Total	23.626	ug/g dry	-	NORMAL
A1P3-C-19	A1P3-C-19-13RM	5/2/00	0	0.5	1348641	482777	Radium-226	1.165	pCi/g dry	-	NORMAL
A1P3-C-19	A1P3-C-19-13RM	5/2/00	0	0.5	1348641	482777	Radium-228	0.947	pCi/g dry	-	NORMAL
A1P3-C-19	A1P3-C-19-13RM	5/2/00	0	0.5	1348641	482777	Thorium-232	0.947	pCi/g dry	-	NORMAL
A1P3-C-19	A1P3-C-19-13RM	5/2/00	0	0.5	1348641	482777	Thorium-228	0.941	pCi/g dry	-	NORMAL
A1P3-C-19	A1P3-C-19-13RM	5/2/00	0	0.5	1348641	482777	Moisture Content	26.4	PERCENT	NV	NORMAL
A1P3-C-19	A1P3-C-19-15RM	5/2/00	0	0.5	1348705	482984.9	Beryllium	0.12	mg/kg dry	-	NORMAL
A1P3-C-19	A1P3-C-19-15RM	5/2/00	0	0.5	1348705	482984.9	Radium-228	0.87	pCi/g dry	-	NORMAL
A1P3-C-19	A1P3-C-19-15RM	5/2/00	0	0.5	1348705	482984.9	Thorium-228	0.866	pCi/g dry	-	NORMAL
A1P3-C-19	A1P3-C-19-15RM	5/2/00	0	0.5	1348705	482984.9	Thorium-232	0.87	pCi/g dry	-	NORMAL
A1P3-C-19	A1P3-C-19-15RM	5/2/00	0	0.5	1348705	482984.9	Uranium, Total	14.837	ug/g dry	-	NORMAL
A1P3-C-19	A1P3-C-19-15RM	5/2/00	0	0.5	1348705	482984.9	Radium-226	1.055	pCi/g dry	-	NORMAL
A1P3-C-19	A1P3-C-19-15RM	5/2/00	0	0.5	1348705	482984.9	Moisture Content	22.5	PERCENT	NV	NORMAL
A1P3-C-19	A1P3-C-19-15RM-D	5/2/00	0	0.5	1348705	482984.9	Beryllium	0.25	mg/kg dry	-	DUPLICATE
A1P3-C-19	A1P3-C-19-15RM-D	5/2/00	0	0.5	1348705	482984.9	Radium-226	1.002	pCi/g dry	-	DUPLICATE
A1P3-C-19	A1P3-C-19-15RM-D	5/2/00	0	0.5	1348705	482984.9	Thorium-228	0.8	pCi/g dry	-	DUPLICATE
A1P3-C-19	A1P3-C-19-15RM-D	5/2/00	0	0.5	1348705	482984.9	Thorium-232	0.797	pCi/g dry	-	DUPLICATE
A1P3-C-19	A1P3-C-19-15RM-D	5/2/00	0	0.5	1348705	482984.9	Uranium, Total	13.586	ug/g dry	-	DUPLICATE
A1P3-C-19	A1P3-C-19-15RM-D	5/2/00	0	0.5	1348705	482984.9	Radium-228	0.797	pCi/g dry	-	DUPLICATE
A1P3-C-19	A1P3-C-19-15RM-D	5/2/00	0	0.5	1348705	482984.9	Moisture Content	22.3	PERCENT	NV	DUPLICATE
A1P3-C-19	A1P3-C-19-16RM	5/2/00	0	0.5	1348860	482927.6	Beryllium	0.03	mg/kg dry	U	NORMAL
A1P3-C-19	A1P3-C-19-16RM	5/2/00	0	0.5	1348860	482927.6	Thorium-232	0.819	pCi/g dry	-	NORMAL
A1P3-C-19	A1P3-C-19-16RM	5/2/00	0	0.5	1348860	482927.6	Uranium, Total	10.122	ug/g dry	-	NORMAL
A1P3-C-19	A1P3-C-19-16RM	5/2/00	0	0.5	1348860	482927.6	Thorium-228	0.801	pCi/g dry	-	NORMAL
A1P3-C-19	A1P3-C-19-16RM	5/2/00	0	0.5	1348860	482927.6	Moisture Content	24.7	PERCENT	NV	NORMAL
A1P3-C-19	A1P3-C-19-16RM	5/2/00	0	0.5	1348860	482927.6	Radium-226	0.968	pCi/g dry	-	NORMAL
A1P3-C-19	A1P3-C-19-16RM	5/2/00	0	0.5	1348860	482927.6	Radium-228	0.819	pCi/g dry	-	NORMAL
A1P3-C-19	A1P3-C-19-1RM	5/2/00	0	0.5	1348089	482863.1	Beryllium	0.54	mg/kg dry	-	NORMAL
A1P3-C-19	A1P3-C-19-1RM	5/2/00	0	0.5	1348089	482863.1	Uranium, Total	13.763	ug/g dry	-	NORMAL
A1P3-C-19	A1P3-C-19-1RM	5/2/00	0	0.5	1348089	482863.1	Radium-226	1.214	pCi/g dry	-	NORMAL
A1P3-C-19	A1P3-C-19-1RM	5/2/00	0	0.5	1348089	482863.1	Radium-228	1.137	pCi/g dry	-	NORMAL
A1P3-C-19	A1P3-C-19-1RM	5/2/00	0	0.5	1348089	482863.1	Thorium-232	1.137	pCi/g dry	-	NORMAL
A1P3-C-19	A1P3-C-19-1RM	5/2/00	0	0.5	1348089	482863.1	Thorium-228	1.125	pCi/g dry	-	NORMAL

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TABLE C-1
AREA 1, PHASE III, PART ONE CERTIFICATION DATA

CU	Sample ID	Sample Date	Depth Top	Depth Bottom	East 83	North 83	Parameter	Result	Units	Val. Qual.	QA Type
A1P3-C-19	A1P3-C-19-1RM	5/2/00	0	0.5	1348089	482863.1	Moisture Content	21.1	PERCENT	NV	NORMAL
A1P3-C-19	A1P3-C-19-3RM	5/2/00	0	0.5	1348137	482945.7	Beryllium	0.49	mg/kg dry	-	NORMAL
A1P3-C-19	A1P3-C-19-3RM	5/2/00	0	0.5	1348137	482945.7	Uranium, Total	17.946	ug/g dry	-	NORMAL
A1P3-C-19	A1P3-C-19-3RM	5/2/00	0	0.5	1348137	482945.7	Thorium-232	1.102	pCi/g dry	-	NORMAL
A1P3-C-19	A1P3-C-19-3RM	5/2/00	0	0.5	1348137	482945.7	Radium-226	1.28	pCi/g dry	-	NORMAL
A1P3-C-19	A1P3-C-19-3RM	5/2/00	0	0.5	1348137	482945.7	Radium-228	1.102	pCi/g dry	-	NORMAL
A1P3-C-19	A1P3-C-19-3RM	5/2/00	0	0.5	1348137	482945.7	Thorium-228	1.08	pCi/g dry	-	NORMAL
A1P3-C-19	A1P3-C-19-3RM	5/2/00	0	0.5	1348137	482945.7	Moisture Content	25.4	PERCENT	NV	NORMAL
A1P3-C-19	A1P3-C-19-4RM	5/2/00	0	0.5	1348198	482895.6	Beryllium	0.48	mg/kg dry	-	NORMAL
A1P3-C-19	A1P3-C-19-4RM	5/2/00	0	0.5	1348198	482895.6	Thorium-232	1.103	pCi/g dry	-	NORMAL
A1P3-C-19	A1P3-C-19-4RM	5/2/00	0	0.5	1348198	482895.6	Uranium, Total	13.776	ug/g dry	-	NORMAL
A1P3-C-19	A1P3-C-19-4RM	5/2/00	0	0.5	1348198	482895.6	Thorium-228	1.122	pCi/g dry	-	NORMAL
A1P3-C-19	A1P3-C-19-4RM	5/2/00	0	0.5	1348198	482895.6	Moisture Content	25	PERCENT	NV	NORMAL
A1P3-C-19	A1P3-C-19-4RM	5/2/00	0	0.5	1348198	482895.6	Radium-228	1.103	pCi/g dry	-	NORMAL
A1P3-C-19	A1P3-C-19-4RM	5/2/00	0	0.5	1348198	482895.6	Radium-226	1.147	pCi/g dry	-	NORMAL
A1P3-C-19	A1P3-C-19-5RM	5/2/00	0	0.5	1348117	483027.5	Beryllium	0.18	mg/kg dry	-	NORMAL
A1P3-C-19	A1P3-C-19-5RM	5/2/00	0	0.5	1348117	483027.5	Thorium-228	0.879	pCi/g dry	-	NORMAL
A1P3-C-19	A1P3-C-19-5RM	5/2/00	0	0.5	1348117	483027.5	Uranium, Total	15.862	ug/g dry	-	NORMAL
A1P3-C-19	A1P3-C-19-5RM	5/2/00	0	0.5	1348117	483027.5	Thorium-232	0.899	pCi/g dry	-	NORMAL
A1P3-C-19	A1P3-C-19-5RM	5/2/00	0	0.5	1348117	483027.5	Radium-228	0.899	pCi/g dry	-	NORMAL
A1P3-C-19	A1P3-C-19-5RM	5/2/00	0	0.5	1348117	483027.5	Moisture Content	25.4	PERCENT	NV	NORMAL
A1P3-C-19	A1P3-C-19-5RM	5/2/00	0	0.5	1348117	483027.5	Radium-226	1.13	pCi/g dry	-	NORMAL
A1P3-C-19	A1P3-C-19-6RM	5/2/00	0	0.5	1348245	483014.9	Beryllium	0.32	mg/kg dry	-	NORMAL
A1P3-C-19	A1P3-C-19-6RM	5/2/00	0	0.5	1348245	483014.9	Radium-228	1.044	pCi/g dry	-	NORMAL
A1P3-C-19	A1P3-C-19-6RM	5/2/00	0	0.5	1348245	483014.9	Thorium-232	1.044	pCi/g dry	-	NORMAL
A1P3-C-19	A1P3-C-19-6RM	5/2/00	0	0.5	1348245	483014.9	Uranium, Total	14.934	ug/g dry	-	NORMAL
A1P3-C-19	A1P3-C-19-6RM	5/2/00	0	0.5	1348245	483014.9	Thorium-228	1.028	pCi/g dry	-	NORMAL
A1P3-C-19	A1P3-C-19-6RM	5/2/00	0	0.5	1348245	483014.9	Moisture Content	20	PERCENT	NV	NORMAL
A1P3-C-19	A1P3-C-19-6RM	5/2/00	0	0.5	1348245	483014.9	Radium-226	1.117	pCi/g dry	-	NORMAL
A1P3-C-19	A1P3-C-19-7RM	5/2/00	0	0.5	1348053	483087	Beryllium	0.28	mg/kg dry	-	NORMAL
A1P3-C-19	A1P3-C-19-7RM	5/2/00	0	0.5	1348053	483087	Radium-228	1.031	pCi/g dry	-	NORMAL
A1P3-C-19	A1P3-C-19-7RM	5/2/00	0	0.5	1348053	483087	Thorium-228	1.031	pCi/g dry	-	NORMAL
A1P3-C-19	A1P3-C-19-7RM	5/2/00	0	0.5	1348053	483087	Uranium, Total	14.427	ug/g dry	-	NORMAL
A1P3-C-19	A1P3-C-19-7RM	5/2/00	0	0.5	1348053	483087	Thorium-232	1.031	pCi/g dry	-	NORMAL
A1P3-C-19	A1P3-C-19-7RM	5/2/00	0	0.5	1348053	483087	Moisture Content	20.8	PERCENT	NV	NORMAL
A1P3-C-19	A1P3-C-19-7RM	5/2/00	0	0.5	1348053	483087	Radium-226	1.132	pCi/g dry	-	NORMAL
A1P3-C-19	A1P3-C-19-9RM	5/2/00	0	0.5	1348410	482822.8	Beryllium	0.24	mg/kg dry	-	NORMAL
A1P3-C-19	A1P3-C-19-9RM	5/2/00	0	0.5	1348410	482822.8	Radium-228	0.777	pCi/g dry	-	NORMAL
A1P3-C-19	A1P3-C-19-9RM	5/2/00	0	0.5	1348410	482822.8	Thorium-228	0.778	pCi/g dry	-	NORMAL
A1P3-C-19	A1P3-C-19-9RM	5/2/00	0	0.5	1348410	482822.8	Thorium-232	0.777	pCi/g dry	-	NORMAL
A1P3-C-19	A1P3-C-19-9RM	5/2/00	0	0.5	1348410	482822.8	Uranium, Total	5.444	ug/g dry	-	NORMAL

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TABLE C-1
AREA 1, PHASE III, PART ONE CERTIFICATION DATA

CU	Sample ID	Sample Date	Depth Top	Depth Bottom	East 83	North 83	Parameter	Result	Units	Val. Qual.	QA Type
A1P3-C-19	A1P3-C-19-9RM	5/2/00	0	0.5	1348410	482822.8	Radium-226	0.934	pCi/g dry	-	NORMAL
A1P3-C-19	A1P3-C-19-9RM	5/2/00	0	0.5	1348410	482822.8	Moisture Content	23.5	PERCENT	NV	NORMAL
A1P3-C-20	A1P3-C-20-11R	4/27/00	0	0.5	1349133	483722	Moisture Content	20.9	PERCENT	NV	NORMAL
A1P3-C-20	A1P3-C-20-11R	4/27/00	0	0.5	1349133	483722	Thorium-228	0.94	pCi/g dry	-	NORMAL
A1P3-C-20	A1P3-C-20-11R	4/27/00	0	0.5	1349133	483722	Thorium-232	0.935	pCi/g dry	-	NORMAL
A1P3-C-20	A1P3-C-20-11R	4/27/00	0	0.5	1349133	483722	Uranium, Total	5.429	ug/g dry	-	NORMAL
A1P3-C-20	A1P3-C-20-11R	4/27/00	0	0.5	1349133	483722	Radium-228	0.935	pCi/g dry	-	NORMAL
A1P3-C-20	A1P3-C-20-11R	4/27/00	0	0.5	1349133	483722	Radium-226	1.177	pCi/g dry	-	NORMAL
A1P3-C-20	A1P3-C-20-12R	4/27/00	0	0.5	1349230	483665	Moisture Content	21.8	PERCENT	NV	NORMAL
A1P3-C-20	A1P3-C-20-12R	4/27/00	0	0.5	1349230	483665	Radium-228	0.888	pCi/g dry	-	NORMAL
A1P3-C-20	A1P3-C-20-12R	4/27/00	0	0.5	1349230	483665	Thorium-228	0.885	pCi/g dry	-	NORMAL
A1P3-C-20	A1P3-C-20-12R	4/27/00	0	0.5	1349230	483665	Uranium, Total	4.563	ug/g dry	-	NORMAL
A1P3-C-20	A1P3-C-20-12R	4/27/00	0	0.5	1349230	483665	Thorium-232	0.888	pCi/g dry	-	NORMAL
A1P3-C-20	A1P3-C-20-12R	4/27/00	0	0.5	1349230	483665	Radium-226	1.044	pCi/g dry	-	NORMAL
A1P3-C-20	A1P3-C-20-13R	4/27/00	0	0.5	1349076	483810	Moisture Content	25.6	PERCENT	NV	NORMAL
A1P3-C-20	A1P3-C-20-13R	4/27/00	0	0.5	1349076	483810	Uranium, Total	7.415	ug/g dry	-	NORMAL
A1P3-C-20	A1P3-C-20-13R	4/27/00	0	0.5	1349076	483810	Thorium-232	0.972	pCi/g dry	-	NORMAL
A1P3-C-20	A1P3-C-20-13R	4/27/00	0	0.5	1349076	483810	Thorium-228	0.964	pCi/g dry	-	NORMAL
A1P3-C-20	A1P3-C-20-13R	4/27/00	0	0.5	1349076	483810	Radium-228	0.972	pCi/g dry	-	NORMAL
A1P3-C-20	A1P3-C-20-13R	4/27/00	0	0.5	1349076	483810	Radium-226	1.228	pCi/g dry	-	NORMAL
A1P3-C-20	A1P3-C-20-14R	4/27/00	0	0.5	1349238	483826.7	Moisture Content	17	PERCENT	NV	NORMAL
A1P3-C-20	A1P3-C-20-14R	4/27/00	0	0.5	1349238	483826.7	Radium-226	1.078	pCi/g dry	-	NORMAL
A1P3-C-20	A1P3-C-20-14R	4/27/00	0	0.5	1349238	483826.7	Radium-228	0.764	pCi/g dry	-	NORMAL
A1P3-C-20	A1P3-C-20-14R	4/27/00	0	0.5	1349238	483826.7	Uranium, Total	5.382	ug/g dry	-	NORMAL
A1P3-C-20	A1P3-C-20-14R	4/27/00	0	0.5	1349238	483826.7	Thorium-232	0.764	pCi/g dry	-	NORMAL
A1P3-C-20	A1P3-C-20-14R	4/27/00	0	0.5	1349238	483826.7	Thorium-228	0.759	pCi/g dry	-	NORMAL
A1P3-C-20	A1P3-C-20-15R	4/27/00	0	0.5	1349001	483875.6	Moisture Content	20.3	PERCENT	NV	NORMAL
A1P3-C-20	A1P3-C-20-15R	4/27/00	0	0.5	1349001	483875.6	Radium-226	1.073	pCi/g dry	-	NORMAL
A1P3-C-20	A1P3-C-20-15R	4/27/00	0	0.5	1349001	483875.6	Thorium-228	0.904	pCi/g dry	-	NORMAL
A1P3-C-20	A1P3-C-20-15R	4/27/00	0	0.5	1349001	483875.6	Radium-228	0.914	pCi/g dry	-	NORMAL
A1P3-C-20	A1P3-C-20-15R	4/27/00	0	0.5	1349001	483875.6	Thorium-232	0.914	pCi/g dry	-	NORMAL
A1P3-C-20	A1P3-C-20-15R	4/27/00	0	0.5	1349001	483875.6	Uranium, Total	6.143	ug/g dry	-	NORMAL
A1P3-C-20	A1P3-C-20-15R-D	4/27/00	0	0.5	1349001	483875.6	Moisture Content	21.7	PERCENT	NV	DUPLICATE
A1P3-C-20	A1P3-C-20-15R-D	4/27/00	0	0.5	1349001	483875.6	Radium-228	0.983	pCi/g dry	-	DUPLICATE
A1P3-C-20	A1P3-C-20-15R-D	4/27/00	0	0.5	1349001	483875.6	Uranium, Total	8.026	ug/g dry	-	DUPLICATE
A1P3-C-20	A1P3-C-20-15R-D	4/27/00	0	0.5	1349001	483875.6	Thorium-232	0.983	pCi/g dry	-	DUPLICATE
A1P3-C-20	A1P3-C-20-15R-D	4/27/00	0	0.5	1349001	483875.6	Thorium-228	0.965	pCi/g dry	-	DUPLICATE
A1P3-C-20	A1P3-C-20-15R-D	4/27/00	0	0.5	1349001	483875.6	Radium-226	1.098	pCi/g dry	-	DUPLICATE
A1P3-C-20	A1P3-C-20-1R	4/27/00	0	0.5	1348957	483404.5	Moisture Content	36.7	PERCENT	NV	NORMAL
A1P3-C-20	A1P3-C-20-1R	4/27/00	0	0.5	1348957	483404.5	Uranium, Total	5.571	ug/g dry	-	NORMAL
A1P3-C-20	A1P3-C-20-1R	4/27/00	0	0.5	1348957	483404.5	Thorium-232	1.089	pCi/g dry	-	NORMAL

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TABLE C-1
AREA 1, PHASE III, PART ONE CERTIFICATION DATA

CU	Sample ID	Sample Date	Depth Top	Depth Bottom	East 83	North 83	Parameter	Result	Units	Val. Qual.	QA Type
A1P3-C-20	A1P3-C-20-1R	4/27/00	0	0.5	1348957	483404.5	Thorium-228	1.088	pCi/g dry	-	NORMAL
A1P3-C-20	A1P3-C-20-1R	4/27/00	0	0.5	1348957	483404.5	Radium-228	1.089	pCi/g dry	-	NORMAL
A1P3-C-20	A1P3-C-20-1R	4/27/00	0	0.5	1348957	483404.5	Radium-226	1.283	pCi/g dry	-	NORMAL
A1P3-C-20	A1P3-C-20-2R	4/27/00	0	0.5	1349085	483422.2	Moisture Content	25.2	PERCENT	NV	NORMAL
A1P3-C-20	A1P3-C-20-2R	4/27/00	0	0.5	1349085	483422.2	Radium-226	1.259	pCi/g dry	-	NORMAL
A1P3-C-20	A1P3-C-20-2R	4/27/00	0	0.5	1349085	483422.2	Radium-228	1.202	pCi/g dry	-	NORMAL
A1P3-C-20	A1P3-C-20-2R	4/27/00	0	0.5	1349085	483422.2	Uranium, Total	6.096	ug/g dry	-	NORMAL
A1P3-C-20	A1P3-C-20-2R	4/27/00	0	0.5	1349085	483422.2	Thorium-232	1.202	pCi/g dry	-	NORMAL
A1P3-C-20	A1P3-C-20-2R	4/27/00	0	0.5	1349085	483422.2	Thorium-228	1.182	pCi/g dry	-	NORMAL
A1P3-C-20	A1P3-C-20-3R	4/27/00	0	0.5	1348990	483497.8	Moisture Content	28.2	PERCENT	NV	NORMAL
A1P3-C-20	A1P3-C-20-3R	4/27/00	0	0.5	1348990	483497.8	Radium-226	1.311	pCi/g dry	-	NORMAL
A1P3-C-20	A1P3-C-20-3R	4/27/00	0	0.5	1348990	483497.8	Thorium-228	1.121	pCi/g dry	-	NORMAL
A1P3-C-20	A1P3-C-20-3R	4/27/00	0	0.5	1348990	483497.8	Radium-228	1.117	pCi/g dry	-	NORMAL
A1P3-C-20	A1P3-C-20-3R	4/27/00	0	0.5	1348990	483497.8	Thorium-232	1.117	pCi/g dry	-	NORMAL
A1P3-C-20	A1P3-C-20-3R	4/27/00	0	0.5	1348990	483497.8	Uranium, Total	11.308	ug/g dry	-	NORMAL
A1P3-C-20	A1P3-C-20-5R	4/27/00	0	0.5	1349271	483426.3	Moisture Content	27.4	PERCENT	NV	NORMAL
A1P3-C-20	A1P3-C-20-5R	4/27/00	0	0.5	1349271	483426.3	Radium-228	1.118	pCi/g dry	-	NORMAL
A1P3-C-20	A1P3-C-20-5R	4/27/00	0	0.5	1349271	483426.3	Uranium, Total	13.986	ug/g dry	-	NORMAL
A1P3-C-20	A1P3-C-20-5R	4/27/00	0	0.5	1349271	483426.3	Thorium-232	1.118	pCi/g dry	-	NORMAL
A1P3-C-20	A1P3-C-20-5R	4/27/00	0	0.5	1349271	483426.3	Thorium-228	1.084	pCi/g dry	-	NORMAL
A1P3-C-20	A1P3-C-20-5R	4/27/00	0	0.5	1349271	483426.3	Radium-226	1.263	pCi/g dry	-	NORMAL
A1P3-C-20	A1P3-C-20-6R	4/27/00	0	0.5	1349368	483387.7	Moisture Content	25.7	PERCENT	NV	NORMAL
A1P3-C-20	A1P3-C-20-6R	4/27/00	0	0.5	1349368	483387.7	Uranium, Total	7.34	ug/g dry	-	NORMAL
A1P3-C-20	A1P3-C-20-6R	4/27/00	0	0.5	1349368	483387.7	Thorium-232	0.972	pCi/g dry	-	NORMAL
A1P3-C-20	A1P3-C-20-6R	4/27/00	0	0.5	1349368	483387.7	Thorium-228	0.933	pCi/g dry	-	NORMAL
A1P3-C-20	A1P3-C-20-6R	4/27/00	0	0.5	1349368	483387.7	Radium-228	0.972	pCi/g dry	-	NORMAL
A1P3-C-20	A1P3-C-20-6R	4/27/00	0	0.5	1349368	483387.7	Radium-226	1.147	pCi/g dry	-	NORMAL
A1P3-C-20	A1P3-C-20-8R	4/27/00	0	0.5	1349397	483497	Moisture Content	27.4	PERCENT	NV	NORMAL
A1P3-C-20	A1P3-C-20-8R	4/27/00	0	0.5	1349397	483497	Radium-226	1.231	pCi/g dry	-	NORMAL
A1P3-C-20	A1P3-C-20-8R	4/27/00	0	0.5	1349397	483497	Radium-228	1.034	pCi/g dry	-	NORMAL
A1P3-C-20	A1P3-C-20-8R	4/27/00	0	0.5	1349397	483497	Uranium, Total	10.892	ug/g dry	-	NORMAL
A1P3-C-20	A1P3-C-20-8R	4/27/00	0	0.5	1349397	483497	Thorium-232	1.034	pCi/g dry	-	NORMAL
A1P3-C-20	A1P3-C-20-8R	4/27/00	0	0.5	1349397	483497	Thorium-228	1.007	pCi/g dry	-	NORMAL
A1P3-C-20	A1P3-C-20-9R	4/27/00	0	0.5	1349055	483607.1	Moisture Content	23.9	PERCENT	NV	NORMAL
A1P3-C-20	A1P3-C-20-9R	4/27/00	0	0.5	1349055	483607.1	Radium-226	1.348	pCi/g dry	-	NORMAL
A1P3-C-20	A1P3-C-20-9R	4/27/00	0	0.5	1349055	483607.1	Thorium-228	1.066	pCi/g dry	-	NORMAL
A1P3-C-20	A1P3-C-20-9R	4/27/00	0	0.5	1349055	483607.1	Radium-228	1.095	pCi/g dry	-	NORMAL
A1P3-C-20	A1P3-C-20-9R	4/27/00	0	0.5	1349055	483607.1	Thorium-232	1.095	pCi/g dry	-	NORMAL
A1P3-C-20	A1P3-C-20-9R	4/27/00	0	0.5	1349055	483607.1	Uranium, Total	9.571	ug/g dry	-	NORMAL
A1P3-C-21	A1P3-C-21-10R	5/11/00	0	0.5	1349275	483805.5	Moisture Content	12.3	PERCENT	NV	NORMAL
A1P3-C-21	A1P3-C-21-10R	5/11/00	0	0.5	1349275	483805.5	Radium-228	0.753	pCi/g dry	-	NORMAL

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TABLE C-1
AREA 1, PHASE III, PART ONE CERTIFICATION DATA

CU	Sample ID	Sample Date	Depth Top	Depth Bottom	East 83	North 83	Parameter	Result	Units	Val. Qual.	QA Type
A1P3-C-21	A1P3-C-21-10R	5/11/00	0	0.5	1349275	483805.5	Uranium, Total	5.764	ug/g dry	-	NORMAL
A1P3-C-21	A1P3-C-21-10R	5/11/00	0	0.5	1349275	483805.5	Thorium-232	0.753	pCi/g dry	-	NORMAL
A1P3-C-21	A1P3-C-21-10R	5/11/00	0	0.5	1349275	483805.5	Thorium-228	0.748	pCi/g dry	-	NORMAL
A1P3-C-21	A1P3-C-21-10R	5/11/00	0	0.5	1349275	483805.5	Radium-226	0.894	pCi/g dry	-	NORMAL
A1P3-C-21	A1P3-C-21-11R	5/11/00	0	0.5	1349337	483776.8	Moisture Content	11.5	PERCENT	NV	NORMAL
A1P3-C-21	A1P3-C-21-11R	5/11/00	0	0.5	1349337	483776.8	Uranium, Total	5.09	ug/g dry	-	NORMAL
A1P3-C-21	A1P3-C-21-11R	5/11/00	0	0.5	1349337	483776.8	Thorium-232	0.838	pCi/g dry	-	NORMAL
A1P3-C-21	A1P3-C-21-11R	5/11/00	0	0.5	1349337	483776.8	Thorium-228	0.849	pCi/g dry	-	NORMAL
A1P3-C-21	A1P3-C-21-11R	5/11/00	0	0.5	1349337	483776.8	Radium-228	0.838	pCi/g dry	-	NORMAL
A1P3-C-21	A1P3-C-21-11R	5/11/00	0	0.5	1349337	483776.8	Radium-226	0.893	pCi/g dry	-	NORMAL
A1P3-C-21	A1P3-C-21-13R	5/11/00	0	0.5	1349390	483783.2	Moisture Content	12.5	PERCENT	NV	NORMAL
A1P3-C-21	A1P3-C-21-13R	5/11/00	0	0.5	1349390	483783.2	Radium-226	0.894	pCi/g dry	-	NORMAL
A1P3-C-21	A1P3-C-21-13R	5/11/00	0	0.5	1349390	483783.2	Radium-228	0.634	pCi/g dry	-	NORMAL
A1P3-C-21	A1P3-C-21-13R	5/11/00	0	0.5	1349390	483783.2	Uranium, Total	5.572	ug/g dry	-	NORMAL
A1P3-C-21	A1P3-C-21-13R	5/11/00	0	0.5	1349390	483783.2	Thorium-232	0.634	pCi/g dry	-	NORMAL
A1P3-C-21	A1P3-C-21-13R	5/11/00	0	0.5	1349390	483783.2	Thorium-228	0.626	pCi/g dry	-	NORMAL
A1P3-C-21	A1P3-C-21-15R	5/11/00	0	0.5	1349386	483881.2	Moisture Content	18.9	PERCENT	NV	NORMAL
A1P3-C-21	A1P3-C-21-15R	5/11/00	0	0.5	1349386	483881.2	Radium-226	1.162	pCi/g dry	-	NORMAL
A1P3-C-21	A1P3-C-21-15R	5/11/00	0	0.5	1349386	483881.2	Thorium-228	1.123	pCi/g dry	-	NORMAL
A1P3-C-21	A1P3-C-21-15R	5/11/00	0	0.5	1349386	483881.2	Radium-228	1.136	pCi/g dry	-	NORMAL
A1P3-C-21	A1P3-C-21-15R	5/11/00	0	0.5	1349386	483881.2	Thorium-232	1.136	pCi/g dry	-	NORMAL
A1P3-C-21	A1P3-C-21-15R	5/11/00	0	0.5	1349386	483881.2	Uranium, Total	11.98	ug/g dry	-	NORMAL
A1P3-C-21	A1P3-C-21-16R	5/11/00	0	0.5	1349464	483867.7	Moisture Content	18.9	PERCENT	NV	NORMAL
A1P3-C-21	A1P3-C-21-16R	5/11/00	0	0.5	1349464	483867.7	Radium-228	1.212	pCi/g dry	-	NORMAL
A1P3-C-21	A1P3-C-21-16R	5/11/00	0	0.5	1349464	483867.7	Uranium, Total	11.556	ug/g dry	-	NORMAL
A1P3-C-21	A1P3-C-21-16R	5/11/00	0	0.5	1349464	483867.7	Thorium-232	1.212	pCi/g dry	-	NORMAL
A1P3-C-21	A1P3-C-21-16R	5/11/00	0	0.5	1349464	483867.7	Thorium-228	1.214	pCi/g dry	-	NORMAL
A1P3-C-21	A1P3-C-21-16R	5/11/00	0	0.5	1349464	483867.7	Radium-226	1.356	pCi/g dry	-	NORMAL
A1P3-C-21	A1P3-C-21-1R	5/11/00	0	0.5	1349359	483589.3	Moisture Content	15.3	PERCENT	NV	NORMAL
A1P3-C-21	A1P3-C-21-1R	5/11/00	0	0.5	1349359	483589.3	Thorium-228	1.178	pCi/g dry	-	NORMAL
A1P3-C-21	A1P3-C-21-1R	5/11/00	0	0.5	1349359	483589.3	Thorium-232	1.206	pCi/g dry	-	NORMAL
A1P3-C-21	A1P3-C-21-1R	5/11/00	0	0.5	1349359	483589.3	Uranium, Total	8.72	ug/g dry	-	NORMAL
A1P3-C-21	A1P3-C-21-1R	5/11/00	0	0.5	1349359	483589.3	Radium-228	1.206	pCi/g dry	-	NORMAL
A1P3-C-21	A1P3-C-21-1R	5/11/00	0	0.5	1349359	483589.3	Radium-226	1.007	pCi/g dry	-	NORMAL
A1P3-C-21	A1P3-C-21-2R	5/11/00	0	0.5	1349416	483620.2	Moisture Content	17.6	PERCENT	NV	NORMAL
A1P3-C-21	A1P3-C-21-2R	5/11/00	0	0.5	1349416	483620.2	Radium-228	1.156	pCi/g dry	-	NORMAL
A1P3-C-21	A1P3-C-21-2R	5/11/00	0	0.5	1349416	483620.2	Thorium-228	1.12	pCi/g dry	-	NORMAL
A1P3-C-21	A1P3-C-21-2R	5/11/00	0	0.5	1349416	483620.2	Uranium, Total	9.677	ug/g dry	-	NORMAL
A1P3-C-21	A1P3-C-21-2R	5/11/00	0	0.5	1349416	483620.2	Thorium-232	1.156	pCi/g dry	-	NORMAL
A1P3-C-21	A1P3-C-21-2R	5/11/00	0	0.5	1349416	483620.2	Radium-226	0.982	pCi/g dry	-	NORMAL
A1P3-C-21	A1P3-C-21-2R-D	5/11/00	0	0.5	1349416	483620.2	Moisture Content	17	PERCENT	NV	DUPLICATE

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TABLE C-1
AREA 1, PHASE III, PART ONE CERTIFICATION DATA

CU	Sample ID	Sample Date	Depth Top	Depth Bottom	East 83	North 83	Parameter	Result	Units	Val. Qual.	QA Type
A1P3-C-21	A1P3-C-21-2R-D	5/11/00	0	0.5	1349416	483620.2	Uranium, Total	8.905	ug/g dry	-	DUPLICATE
A1P3-C-21	A1P3-C-21-2R-D	5/11/00	0	0.5	1349416	483620.2	Thorium-232	1.168	pCi/g dry	-	DUPLICATE
A1P3-C-21	A1P3-C-21-2R-D	5/11/00	0	0.5	1349416	483620.2	Radium-226	0.99	pCi/g dry	-	DUPLICATE
A1P3-C-21	A1P3-C-21-2R-D	5/11/00	0	0.5	1349416	483620.2	Thorium-228	1.168	pCi/g dry	-	DUPLICATE
A1P3-C-21	A1P3-C-21-2R-D	5/11/00	0	0.5	1349416	483620.2	Radium-228	1.168	pCi/g dry	-	DUPLICATE
A1P3-C-21	A1P3-C-21-3R	5/11/00	0	0.5	1349363	483666.6	Moisture Content	12.9	PERCENT	NV	NORMAL
A1P3-C-21	A1P3-C-21-3R	5/11/00	0	0.5	1349363	483666.6	Uranium, Total	5.287	ug/g dry	-	NORMAL
A1P3-C-21	A1P3-C-21-3R	5/11/00	0	0.5	1349363	483666.6	Thorium-232	0.857	pCi/g dry	-	NORMAL
A1P3-C-21	A1P3-C-21-3R	5/11/00	0	0.5	1349363	483666.6	Thorium-228	0.847	pCi/g dry	-	NORMAL
A1P3-C-21	A1P3-C-21-3R	5/11/00	0	0.5	1349363	483666.6	Radium-228	0.857	pCi/g dry	-	NORMAL
A1P3-C-21	A1P3-C-21-3R	5/11/00	0	0.5	1349363	483666.6	Radium-226	0.911	pCi/g dry	-	NORMAL
A1P3-C-21	A1P3-C-21-5R	5/11/00	0	0.5	1349264	483694.7	Moisture Content	17	PERCENT	NV	NORMAL
A1P3-C-21	A1P3-C-21-5R	5/11/00	0	0.5	1349264	483694.7	Radium-226	0.773	pCi/g dry	-	NORMAL
A1P3-C-21	A1P3-C-21-5R	5/11/00	0	0.5	1349264	483694.7	Radium-228	0.594	pCi/g dry	-	NORMAL
A1P3-C-21	A1P3-C-21-5R	5/11/00	0	0.5	1349264	483694.7	Uranium, Total	9.435	ug/g dry	-	NORMAL
A1P3-C-21	A1P3-C-21-5R	5/11/00	0	0.5	1349264	483694.7	Thorium-232	0.594	pCi/g dry	-	NORMAL
A1P3-C-21	A1P3-C-21-5R	5/11/00	0	0.5	1349264	483694.7	Thorium-228	0.599	pCi/g dry	-	NORMAL
A1P3-C-21	A1P3-C-21-7R	5/11/00	0	0.5	1349392	483745.7	Moisture Content	10.9	PERCENT	NV	NORMAL
A1P3-C-21	A1P3-C-21-7R	5/11/00	0	0.5	1349392	483745.7	Radium-226	0.824	pCi/g dry	-	NORMAL
A1P3-C-21	A1P3-C-21-7R	5/11/00	0	0.5	1349392	483745.7	Thorium-228	0.714	pCi/g dry	-	NORMAL
A1P3-C-21	A1P3-C-21-7R	5/11/00	0	0.5	1349392	483745.7	Radium-228	0.745	pCi/g dry	-	NORMAL
A1P3-C-21	A1P3-C-21-7R	5/11/00	0	0.5	1349392	483745.7	Thorium-232	0.745	pCi/g dry	-	NORMAL
A1P3-C-21	A1P3-C-21-7R	5/11/00	0	0.5	1349392	483745.7	Uranium, Total	4.828	ug/g dry	-	NORMAL
A1P3-C-21	A1P3-C-21-8R	5/11/00	0	0.5	1349444	483722.9	Moisture Content	12.4	PERCENT	NV	NORMAL
A1P3-C-21	A1P3-C-21-8R	5/11/00	0	0.5	1349444	483722.9	Radium-228	0.895	pCi/g dry	-	NORMAL
A1P3-C-21	A1P3-C-21-8R	5/11/00	0	0.5	1349444	483722.9	Uranium, Total	4.018	ug/g dry	J	NORMAL
A1P3-C-21	A1P3-C-21-8R	5/11/00	0	0.5	1349444	483722.9	Thorium-232	0.895	pCi/g dry	-	NORMAL
A1P3-C-21	A1P3-C-21-8R	5/11/00	0	0.5	1349444	483722.9	Thorium-228	0.868	pCi/g dry	-	NORMAL
A1P3-C-21	A1P3-C-21-8R	5/11/00	0	0.5	1349444	483722.9	Radium-226	0.878	pCi/g dry	-	NORMAL
A1P3-C-21	A1P3-C-21-9R	5/11/00	0	0.5	1349219	483745.5	Moisture Content	15.4	PERCENT	NV	NORMAL
A1P3-C-21	A1P3-C-21-9R	5/11/00	0	0.5	1349219	483745.5	Uranium, Total	9.635	ug/g dry	-	NORMAL
A1P3-C-21	A1P3-C-21-9R	5/11/00	0	0.5	1349219	483745.5	Thorium-232	0.916	pCi/g dry	-	NORMAL
A1P3-C-21	A1P3-C-21-9R	5/11/00	0	0.5	1349219	483745.5	Thorium-228	0.922	pCi/g dry	-	NORMAL
A1P3-C-21	A1P3-C-21-9R	5/11/00	0	0.5	1349219	483745.5	Radium-228	0.916	pCi/g dry	-	NORMAL
A1P3-C-21	A1P3-C-21-9R	5/11/00	0	0.5	1349219	483745.5	Radium-226	0.992	pCi/g dry	-	NORMAL
A1P3-C-22	A1P3-C-22-11R	5/1/00	0	0.5	1348980	483219.1	Moisture Content	22	PERCENT	NV	NORMAL
A1P3-C-22	A1P3-C-22-11R	5/1/00	0	0.5	1348980	483219.1	Uranium, Total	15.978	ug/g dry	-	NORMAL
A1P3-C-22	A1P3-C-22-11R	5/1/00	0	0.5	1348980	483219.1	Thorium-232	1.1	pCi/g dry	-	NORMAL
A1P3-C-22	A1P3-C-22-11R	5/1/00	0	0.5	1348980	483219.1	Radium-226	1.333	pCi/g dry	-	NORMAL
A1P3-C-22	A1P3-C-22-11R	5/1/00	0	0.5	1348980	483219.1	Radium-228	1.1	pCi/g dry	-	NORMAL
A1P3-C-22	A1P3-C-22-11R	5/1/00	0	0.5	1348980	483219.1	Thorium-228	1.097	pCi/g dry	-	NORMAL

TABLE C-1
AREA 1, PHASE III, PART ONE CERTIFICATION DATA

CU	Sample ID	Sample Date	Depth Top	Depth Bottom	East 83	North 83	Parameter	Result	Units	Val. Qual.	QA Type
A1P3-C-22	A1P3-C-22-12R	5/1/00	0	0.5	1349146	483264.8	Moisture Content	21.1	PERCENT	NV	NORMAL
A1P3-C-22	A1P3-C-22-12R	5/1/00	0	0.5	1349146	483264.8	Thorium-228	1.031	pCi/g dry	-	NORMAL
A1P3-C-22	A1P3-C-22-12R	5/1/00	0	0.5	1349146	483264.8	Uranium, Total	13.754	ug/g dry	-	NORMAL
A1P3-C-22	A1P3-C-22-12R	5/1/00	0	0.5	1349146	483264.8	Thorium-232	1.051	pCi/g dry	-	NORMAL
A1P3-C-22	A1P3-C-22-12R	5/1/00	0	0.5	1349146	483264.8	Radium-228	1.051	pCi/g dry	-	NORMAL
A1P3-C-22	A1P3-C-22-12R	5/1/00	0	0.5	1349146	483264.8	Radium-226	1.197	pCi/g dry	J	NORMAL
A1P3-C-22	A1P3-C-22-12R-D	5/1/00	0	0.5	1349146	483264.8	Moisture Content	22.9	PERCENT	NV	DUPLICATE
A1P3-C-22	A1P3-C-22-12R-D	5/1/00	0	0.5	1349146	483264.8	Radium-226	1.393	pCi/g dry	J	DUPLICATE
A1P3-C-22	A1P3-C-22-12R-D	5/1/00	0	0.5	1349146	483264.8	Thorium-228	0.988	pCi/g dry	-	DUPLICATE
A1P3-C-22	A1P3-C-22-12R-D	5/1/00	0	0.5	1349146	483264.8	Uranium, Total	13.783	ug/g dry	-	DUPLICATE
A1P3-C-22	A1P3-C-22-12R-D	5/1/00	0	0.5	1349146	483264.8	Thorium-232	1.001	pCi/g dry	-	DUPLICATE
A1P3-C-22	A1P3-C-22-12R-D	5/1/00	0	0.5	1349146	483264.8	Radium-228	1.001	pCi/g dry	-	DUPLICATE
A1P3-C-22	A1P3-C-22-13R	5/1/00	0	0.5	1349181	483170.4	Moisture Content	24	PERCENT	NV	NORMAL
A1P3-C-22	A1P3-C-22-13R	5/1/00	0	0.5	1349181	483170.4	Radium-226	1.244	pCi/g dry	-	NORMAL
A1P3-C-22	A1P3-C-22-13R	5/1/00	0	0.5	1349181	483170.4	Radium-228	0.986	pCi/g dry	-	NORMAL
A1P3-C-22	A1P3-C-22-13R	5/1/00	0	0.5	1349181	483170.4	Uranium, Total	6.848	ug/g dry	-	NORMAL
A1P3-C-22	A1P3-C-22-13R	5/1/00	0	0.5	1349181	483170.4	Thorium-232	0.986	pCi/g dry	-	NORMAL
A1P3-C-22	A1P3-C-22-13R	5/1/00	0	0.5	1349181	483170.4	Thorium-228	0.953	pCi/g dry	-	NORMAL
A1P3-C-22	A1P3-C-22-15R	5/1/00	0	0.5	1349212	483274.6	Moisture Content	23	PERCENT	NV	NORMAL
A1P3-C-22	A1P3-C-22-15R	5/1/00	0	0.5	1349212	483274.6	Radium-226	1.244	pCi/g dry	-	NORMAL
A1P3-C-22	A1P3-C-22-15R	5/1/00	0	0.5	1349212	483274.6	Thorium-228	0.995	pCi/g dry	-	NORMAL
A1P3-C-22	A1P3-C-22-15R	5/1/00	0	0.5	1349212	483274.6	Radium-228	0.999	pCi/g dry	-	NORMAL
A1P3-C-22	A1P3-C-22-15R	5/1/00	0	0.5	1349212	483274.6	Thorium-232	0.999	pCi/g dry	-	NORMAL
A1P3-C-22	A1P3-C-22-15R	5/1/00	0	0.5	1349212	483274.6	Uranium, Total	7.511	ug/g dry	-	NORMAL
A1P3-C-22	A1P3-C-22-16R	5/1/00	0	0.5	1349348	483300.4	Moisture Content	21.5	PERCENT	NV	NORMAL
A1P3-C-22	A1P3-C-22-16R	5/1/00	0	0.5	1349348	483300.4	Radium-228	0.984	pCi/g dry	-	NORMAL
A1P3-C-22	A1P3-C-22-16R	5/1/00	0	0.5	1349348	483300.4	Uranium, Total	14.249	ug/g dry	-	NORMAL
A1P3-C-22	A1P3-C-22-16R	5/1/00	0	0.5	1349348	483300.4	Thorium-232	0.984	pCi/g dry	-	NORMAL
A1P3-C-22	A1P3-C-22-16R	5/1/00	0	0.5	1349348	483300.4	Thorium-228	0.985	pCi/g dry	-	NORMAL
A1P3-C-22	A1P3-C-22-16R	5/1/00	0	0.5	1349348	483300.4	Radium-226	1.041	pCi/g dry	-	NORMAL
A1P3-C-22	A1P3-C-22-2R	5/1/00	0	0.5	1349123	482984.2	Moisture Content	20.5	PERCENT	NV	NORMAL
A1P3-C-22	A1P3-C-22-2R	5/1/00	0	0.5	1349123	482984.2	Thorium-228	1.035	pCi/g dry	-	NORMAL
A1P3-C-22	A1P3-C-22-2R	5/1/00	0	0.5	1349123	482984.2	Thorium-232	1.031	pCi/g dry	-	NORMAL
A1P3-C-22	A1P3-C-22-2R	5/1/00	0	0.5	1349123	482984.2	Uranium, Total	18.717	ug/g dry	-	NORMAL
A1P3-C-22	A1P3-C-22-2R	5/1/00	0	0.5	1349123	482984.2	Radium-228	1.031	pCi/g dry	-	NORMAL
A1P3-C-22	A1P3-C-22-2R	5/1/00	0	0.5	1349123	482984.2	Radium-226	1.205	pCi/g dry	-	NORMAL
A1P3-C-22	A1P3-C-22-3R	5/1/00	0	0.5	1348977	483109.8	Moisture Content	27.5	PERCENT	NV	NORMAL
A1P3-C-22	A1P3-C-22-3R	5/1/00	0	0.5	1348977	483109.8	Radium-228	1.147	pCi/g dry	-	NORMAL
A1P3-C-22	A1P3-C-22-3R	5/1/00	0	0.5	1348977	483109.8	Thorium-228	1.142	pCi/g dry	-	NORMAL
A1P3-C-22	A1P3-C-22-3R	5/1/00	0	0.5	1348977	483109.8	Uranium, Total	11.486	ug/g dry	-	NORMAL
A1P3-C-22	A1P3-C-22-3R	5/1/00	0	0.5	1348977	483109.8	Thorium-232	1.147	pCi/g dry	-	NORMAL

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TABLE C-1
AREA 1, PHASE III, PART ONE CERTIFICATION DATA

CU	Sample ID	Sample Date	Depth Top	Depth Bottom	East 83	North 83	Parameter	Result	Units	Val. Qual.	QA Type
A1P3-C-22	A1P3-C-22-3R	5/1/00	0	0.5	1348977	483109.8	Radium-226	1.252	pCi/g dry	-	NORMAL
A1P3-C-22	A1P3-C-22-4R	5/1/00	0	0.5	1349137	483061.6	Moisture Content	24.3	PERCENT	NV	NORMAL
A1P3-C-22	A1P3-C-22-4R	5/1/00	0	0.5	1349137	483061.6	Uranium, Total	13.714	ug/g dry	-	NORMAL
A1P3-C-22	A1P3-C-22-4R	5/1/00	0	0.5	1349137	483061.6	Thorium-232	1.008	pCi/g dry	-	NORMAL
A1P3-C-22	A1P3-C-22-4R	5/1/00	0	0.5	1349137	483061.6	Thorium-228	1.01	pCi/g dry	-	NORMAL
A1P3-C-22	A1P3-C-22-4R	5/1/00	0	0.5	1349137	483061.6	Radium-228	1.008	pCi/g dry	-	NORMAL
A1P3-C-22	A1P3-C-22-4R	5/1/00	0	0.5	1349137	483061.6	Radium-226	1.198	pCi/g dry	NV	NORMAL
A1P3-C-22	A1P3-C-22-4R	5/1/00	0	0.5	1349251	483007.2	Moisture Content	23	PERCENT	-	NORMAL
A1P3-C-22	A1P3-C-22-5R	5/1/00	0	0.5	1349251	483007.2	Radium-226	1.301	pCi/g dry	-	NORMAL
A1P3-C-22	A1P3-C-22-5R	5/1/00	0	0.5	1349251	483007.2	Radium-228	1.052	pCi/g dry	-	NORMAL
A1P3-C-22	A1P3-C-22-5R	5/1/00	0	0.5	1349251	483007.2	Uranium, Total	16.231	ug/g dry	-	NORMAL
A1P3-C-22	A1P3-C-22-5R	5/1/00	0	0.5	1349251	483007.2	Thorium-232	1.052	pCi/g dry	-	NORMAL
A1P3-C-22	A1P3-C-22-5R	5/1/00	0	0.5	1349251	483007.2	Thorium-228	1.035	pCi/g dry	-	NORMAL
A1P3-C-22	A1P3-C-22-5R	5/1/00	0	0.5	1349251	483007.2	Moisture Content	24.7	PERCENT	NV	NORMAL
A1P3-C-22	A1P3-C-22-7R	5/1/00	0	0.5	1349266	483091.5	Radium-226	1.141	pCi/g dry	-	NORMAL
A1P3-C-22	A1P3-C-22-7R	5/1/00	0	0.5	1349266	483091.5	Thorium-228	0.915	pCi/g dry	-	NORMAL
A1P3-C-22	A1P3-C-22-7R	5/1/00	0	0.5	1349266	483091.5	Radium-228	0.918	pCi/g dry	-	NORMAL
A1P3-C-22	A1P3-C-22-7R	5/1/00	0	0.5	1349266	483091.5	Thorium-232	0.918	pCi/g dry	-	NORMAL
A1P3-C-22	A1P3-C-22-7R	5/1/00	0	0.5	1349266	483091.5	Uranium, Total	17.244	ug/g dry	-	NORMAL
A1P3-C-22	A1P3-C-22-7R	5/1/00	0	0.5	1349266	483091.5	Moisture Content	12.3	PERCENT	NV	NORMAL
A1P3-C-22	A1P3-C-22-8R	5/1/00	0	0.5	1349369	483102.3	Radium-228	0.484	pCi/g dry	-	NORMAL
A1P3-C-22	A1P3-C-22-8R	5/1/00	0	0.5	1349369	483102.3	Uranium, Total	7.19	ug/g dry	-	NORMAL
A1P3-C-22	A1P3-C-22-8R	5/1/00	0	0.5	1349369	483102.3	Thorium-232	0.484	pCi/g dry	-	NORMAL
A1P3-C-22	A1P3-C-22-8R	5/1/00	0	0.5	1349369	483102.3	Thorium-228	0.47	pCi/g dry	-	NORMAL
A1P3-C-22	A1P3-C-22-8R	5/1/00	0	0.5	1349369	483102.3	Radium-226	0.8	pCi/g dry	-	NORMAL
A1P3-C-22	A1P3-C-22-8R	5/1/00	0	0.5	1349369	483102.3	Moisture Content	26.3	PERCENT	NV	NORMAL
A1P3-C-22	A1P3-C-22-8R	5/1/00	0	0.5	1349004	483166.9	Uranium, Total	9.05	ug/g dry	-	NORMAL
A1P3-C-22	A1P3-C-22-9R	5/1/00	0	0.5	1349004	483166.9	Thorium-232	1.051	pCi/g dry	-	NORMAL
A1P3-C-22	A1P3-C-22-9R	5/1/00	0	0.5	1349004	483166.9	Thorium-228	0.997	pCi/g dry	-	NORMAL
A1P3-C-22	A1P3-C-22-9R	5/1/00	0	0.5	1349004	483166.9	Radium-228	1.051	pCi/g dry	-	NORMAL
A1P3-C-22	A1P3-C-22-9R	5/1/00	0	0.5	1349004	483166.9	Radium-226	1.356	pCi/g dry	-	NORMAL
A1P3-C-22	A1P3-C-22-9R	5/1/00	0	0.5	1349004	483166.9	Beryllium	0.55	mg/kg dry	-	NORMAL
A1P3-C-22	A1P3-C-22-9R	5/1/00	0	0.5	1348967	482870.2	Radium-228	1.183	pCi/g dry	-	NORMAL
A1P3-C-23	A1P3-C-23-10RM	5/10/00	0	0.5	1348967	482870.2	Thorium-228	1.165	pCi/g dry	-	NORMAL
A1P3-C-23	A1P3-C-23-10RM	5/10/00	0	0.5	1348967	482870.2	Thorium-232	1.183	pCi/g dry	-	NORMAL
A1P3-C-23	A1P3-C-23-10RM	5/10/00	0	0.5	1348967	482870.2	Uranium, Total	14.934	ug/g dry	-	NORMAL
A1P3-C-23	A1P3-C-23-10RM	5/10/00	0	0.5	1348967	482870.2	Radium-226	1.292	pCi/g dry	-	NORMAL
A1P3-C-23	A1P3-C-23-10RM	5/10/00	0	0.5	1348967	482870.2	Moisture Content	21	PERCENT	NV	NORMAL
A1P3-C-23	A1P3-C-23-10RM	5/10/00	0	0.5	1348967	482870.2	Beryllium	0.03	mg/kg dry	U	NORMAL
A1P3-C-23	A1P3-C-23-10RM	5/10/00	0	0.5	1349144	482851.1	Radium-228	0.492	pCi/g dry	-	NORMAL
A1P3-C-23	A1P3-C-23-11RM	5/10/00	0	0.5	1349144	482851.1	Thorium-228	0.485	pCi/g dry	-	NORMAL
A1P3-C-23	A1P3-C-23-11RM	5/10/00	0	0.5	1349144	482851.1					
A1P3-C-23	A1P3-C-23-11RM	5/10/00	0	0.5	1349144	482851.1					

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TABLE C-1
AREA 1, PHASE III, PART ONE CERTIFICATION DATA

CU	Sample ID	Sample Date	Depth Top	Depth Bottom	East 83	North 83	Parameter	Result	Units	Val. Qual.	QA Type
A1P3-C-23	A1P3-C-23-11RM	5/10/00	0	0.5	1349144	482851.1	Thorium-232	0.492	pCi/g dry	-	NORMAL
A1P3-C-23	A1P3-C-23-11RM	5/10/00	0	0.5	1349144	482851.1	Uranium, Total	6.151	ug/g dry	-	NORMAL
A1P3-C-23	A1P3-C-23-11RM	5/10/00	0	0.5	1349144	482851.1	Radium-226	0.799	pCi/g dry	-	NORMAL
A1P3-C-23	A1P3-C-23-11RM	5/10/00	0	0.5	1349144	482851.1	Moisture Content	18.2	PERCENT	NV	NORMAL
A1P3-C-23	A1P3-C-23-13RM	5/10/00	0	0.5	1349201	482869.8	Beryllium	0.43	mg/kg dry	-	NORMAL
A1P3-C-23	A1P3-C-23-13RM	5/10/00	0	0.5	1349201	482869.8	Radium-226	1.326	pCi/g dry	-	NORMAL
A1P3-C-23	A1P3-C-23-13RM	5/10/00	0	0.5	1349201	482869.8	Thorium-228	1.135	pCi/g dry	-	NORMAL
A1P3-C-23	A1P3-C-23-13RM	5/10/00	0	0.5	1349201	482869.8	Thorium-232	1.151	pCi/g dry	-	NORMAL
A1P3-C-23	A1P3-C-23-13RM	5/10/00	0	0.5	1349201	482869.8	Uranium, Total	16.466	ug/g dry	-	NORMAL
A1P3-C-23	A1P3-C-23-13RM	5/10/00	0	0.5	1349201	482869.8	Radium-228	1.151	pCi/g dry	-	NORMAL
A1P3-C-23	A1P3-C-23-13RM	5/10/00	0	0.5	1349201	482869.8	Moisture Content	21	PERCENT	NV	NORMAL
A1P3-C-23	A1P3-C-23-15RM	5/10/00	0	0.5	1349335	482939.9	Beryllium	0.08	mg/kg dry	-	NORMAL
A1P3-C-23	A1P3-C-23-15RM	5/10/00	0	0.5	1349335	482939.9	Uranium, Total	24.47	ug/g dry	-	NORMAL
A1P3-C-23	A1P3-C-23-15RM	5/10/00	0	0.5	1349335	482939.9	Radium-226	0.973	pCi/g dry	-	NORMAL
A1P3-C-23	A1P3-C-23-15RM	5/10/00	0	0.5	1349335	482939.9	Radium-228	0.64	pCi/g dry	-	NORMAL
A1P3-C-23	A1P3-C-23-15RM	5/10/00	0	0.5	1349335	482939.9	Thorium-232	0.64	pCi/g dry	-	NORMAL
A1P3-C-23	A1P3-C-23-15RM	5/10/00	0	0.5	1349335	482939.9	Thorium-228	0.63	pCi/g dry	-	NORMAL
A1P3-C-23	A1P3-C-23-15RM	5/10/00	0	0.5	1349335	482939.9	Moisture Content	24.6	PERCENT	NV	NORMAL
A1P3-C-23	A1P3-C-23-16RM	5/10/00	0	0.5	1349271	482984.6	Beryllium	0.23	mg/kg dry	-	NORMAL
A1P3-C-23	A1P3-C-23-16RM	5/10/00	0	0.5	1349271	482984.6	Uranium, Total	13.986	ug/g dry	-	NORMAL
A1P3-C-23	A1P3-C-23-16RM	5/10/00	0	0.5	1349271	482984.6	Thorium-232	0.93	pCi/g dry	-	NORMAL
A1P3-C-23	A1P3-C-23-16RM	5/10/00	0	0.5	1349271	482984.6	Radium-226	1.29	pCi/g dry	-	NORMAL
A1P3-C-23	A1P3-C-23-16RM	5/10/00	0	0.5	1349271	482984.6	Radium-228	0.93	pCi/g dry	-	NORMAL
A1P3-C-23	A1P3-C-23-16RM	5/10/00	0	0.5	1349271	482984.6	Thorium-228	0.887	pCi/g dry	-	NORMAL
A1P3-C-23	A1P3-C-23-16RM	5/10/00	0	0.5	1349271	482984.6	Moisture Content	26	PERCENT	NV	NORMAL
A1P3-C-23	A1P3-C-23-1RM	5/10/00	0	0.5	1348713	482595.8	Beryllium	0.5	mg/kg dry	-	NORMAL
A1P3-C-23	A1P3-C-23-1RM	5/10/00	0	0.5	1348713	482595.8	Thorium-232	0.988	pCi/g dry	-	NORMAL
A1P3-C-23	A1P3-C-23-1RM	5/10/00	0	0.5	1348713	482595.8	Uranium, Total	17.569	ug/g dry	-	NORMAL
A1P3-C-23	A1P3-C-23-1RM	5/10/00	0	0.5	1348713	482595.8	Thorium-228	0.957	pCi/g dry	-	NORMAL
A1P3-C-23	A1P3-C-23-1RM	5/10/00	0	0.5	1348713	482595.8	Moisture Content	20.3	PERCENT	NV	NORMAL
A1P3-C-23	A1P3-C-23-1RM	5/10/00	0	0.5	1348713	482595.8	Radium-228	0.988	pCi/g dry	-	NORMAL
A1P3-C-23	A1P3-C-23-1RM	5/10/00	0	0.5	1348713	482595.8	Radium-226	1.215	pCi/g dry	-	NORMAL
A1P3-C-23	A1P3-C-23-2RM	5/10/00	0	0.5	1348810	482576.6	Beryllium	0.4	mg/kg dry	-	NORMAL
A1P3-C-23	A1P3-C-23-2RM	5/10/00	0	0.5	1348810	482576.6	Thorium-228	0.849	pCi/g dry	-	NORMAL
A1P3-C-23	A1P3-C-23-2RM	5/10/00	0	0.5	1348810	482576.6	Uranium, Total	16.872	ug/g dry	-	NORMAL
A1P3-C-23	A1P3-C-23-2RM	5/10/00	0	0.5	1348810	482576.6	Thorium-232	0.885	pCi/g dry	-	NORMAL
A1P3-C-23	A1P3-C-23-2RM	5/10/00	0	0.5	1348810	482576.6	Radium-228	0.885	pCi/g dry	-	NORMAL
A1P3-C-23	A1P3-C-23-2RM	5/10/00	0	0.5	1348810	482576.6	Moisture Content	18.4	PERCENT	NV	NORMAL
A1P3-C-23	A1P3-C-23-2RM	5/10/00	0	0.5	1348810	482576.6	Radium-226	1.288	pCi/g dry	-	NORMAL
A1P3-C-23	A1P3-C-23-3RM	5/10/00	0	0.5	1348860	482639.8	Beryllium	0.51	mg/kg dry	-	NORMAL
A1P3-C-23	A1P3-C-23-3RM	5/10/00	0	0.5	1348860	482639.8	Radium-228	1.107	pCi/g dry	-	NORMAL

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TABLE C-1
AREA 1, PHASE III, PART ONE CERTIFICATION DATA

CU	Sample ID	Sample Date	Depth Top	Depth Bottom	East 83	North 83	Parameter	Result	Units	Val. Qual.	QA Type
A1P3-C-23	A1P3-C-23-3RM	5/10/00	0	0.5	1348860	482639.8	Thorium-232	1.107	pCi/g dry	-	NORMAL
A1P3-C-23	A1P3-C-23-3RM	5/10/00	0	0.5	1348860	482639.8	Uranium, Total	12.707	ug/g dry	J	NORMAL
A1P3-C-23	A1P3-C-23-3RM	5/10/00	0	0.5	1348860	482639.8	Thorium-228	1.115	pCi/g dry	-	NORMAL
A1P3-C-23	A1P3-C-23-3RM	5/10/00	0	0.5	1348860	482639.8	Moisture Content	20.5	PERCENT	NV	NORMAL
A1P3-C-23	A1P3-C-23-3RM	5/10/00	0	0.5	1348860	482639.8	Radium-226	1.254	pCi/g dry	-	NORMAL
A1P3-C-23	A1P3-C-23-3RM-D	5/10/00	0	0.5	1348860	482639.8	Beryllium	0.49	mg/kg dry	-	DUPLICATE
A1P3-C-23	A1P3-C-23-3RM-D	5/10/00	0	0.5	1348860	482639.8	Radium-228	1.094	pCi/g dry	-	DUPLICATE
A1P3-C-23	A1P3-C-23-3RM-D	5/10/00	0	0.5	1348860	482639.8	Thorium-228	1.078	pCi/g dry	-	DUPLICATE
A1P3-C-23	A1P3-C-23-3RM-D	5/10/00	0	0.5	1348860	482639.8	Uranium, Total	24.167	ug/g dry	J	DUPLICATE
A1P3-C-23	A1P3-C-23-3RM-D	5/10/00	0	0.5	1348860	482639.8	Thorium-232	1.094	pCi/g dry	-	DUPLICATE
A1P3-C-23	A1P3-C-23-3RM-D	5/10/00	0	0.5	1348860	482639.8	Moisture Content	25	PERCENT	NV	DUPLICATE
A1P3-C-23	A1P3-C-23-3RM-D	5/10/00	0	0.5	1348860	482639.8	Radium-226	1.343	pCi/g dry	-	DUPLICATE
A1P3-C-23	A1P3-C-23-5RM	5/10/00	0	0.5	1348941	482676	Beryllium	0.05	mg/kg dry	-	NORMAL
A1P3-C-23	A1P3-C-23-5RM	5/10/00	0	0.5	1348941	482676	Radium-228	0.426	pCi/g dry	-	NORMAL
A1P3-C-23	A1P3-C-23-5RM	5/10/00	0	0.5	1348941	482676	Thorium-228	0.412	pCi/g dry	-	NORMAL
A1P3-C-23	A1P3-C-23-5RM	5/10/00	0	0.5	1348941	482676	Thorium-232	0.426	pCi/g dry	-	NORMAL
A1P3-C-23	A1P3-C-23-5RM	5/10/00	0	0.5	1348941	482676	Uranium, Total	30.596	ug/g dry	-	NORMAL
A1P3-C-23	A1P3-C-23-5RM	5/10/00	0	0.5	1348941	482676	Radium-226	0.665	pCi/g dry	-	NORMAL
A1P3-C-23	A1P3-C-23-5RM	5/10/00	0	0.5	1348941	482676	Moisture Content	24.2	PERCENT	NV	NORMAL
A1P3-C-23	A1P3-C-23-6RM	5/10/00	0	0.5	1348859	482785.9	Beryllium	0.32	mg/kg dry	-	NORMAL
A1P3-C-23	A1P3-C-23-6RM	5/10/00	0	0.5	1348859	482785.9	Radium-226	1.142	pCi/g dry	-	NORMAL
A1P3-C-23	A1P3-C-23-6RM	5/10/00	0	0.5	1348859	482785.9	Thorium-228	0.908	pCi/g dry	-	NORMAL
A1P3-C-23	A1P3-C-23-6RM	5/10/00	0	0.5	1348859	482785.9	Thorium-232	0.911	pCi/g dry	-	NORMAL
A1P3-C-23	A1P3-C-23-6RM	5/10/00	0	0.5	1348859	482785.9	Uranium, Total	15.61	ug/g dry	-	NORMAL
A1P3-C-23	A1P3-C-23-6RM	5/10/00	0	0.5	1348859	482785.9	Radium-228	0.911	pCi/g dry	-	NORMAL
A1P3-C-23	A1P3-C-23-6RM	5/10/00	0	0.5	1348859	482785.9	Moisture Content	23.7	PERCENT	NV	NORMAL
A1P3-C-23	A1P3-C-23-7RM	5/10/00	0	0.5	1349006	482721.1	Beryllium	0.39	mg/kg dry	-	NORMAL
A1P3-C-23	A1P3-C-23-7RM	5/10/00	0	0.5	1349006	482721.1	Uranium, Total	12.332	ug/g dry	-	NORMAL
A1P3-C-23	A1P3-C-23-7RM	5/10/00	0	0.5	1349006	482721.1	Radium-226	1.361	pCi/g dry	-	NORMAL
A1P3-C-23	A1P3-C-23-7RM	5/10/00	0	0.5	1349006	482721.1	Radium-228	1.077	pCi/g dry	-	NORMAL
A1P3-C-23	A1P3-C-23-7RM	5/10/00	0	0.5	1349006	482721.1	Thorium-232	1.077	pCi/g dry	-	NORMAL
A1P3-C-23	A1P3-C-23-7RM	5/10/00	0	0.5	1349006	482721.1	Thorium-228	1.051	pCi/g dry	-	NORMAL
A1P3-C-23	A1P3-C-23-7RM	5/10/00	0	0.5	1349006	482721.1	Moisture Content	16.6	PERCENT	NV	NORMAL
A1P3-C-23	A1P3-C-23-9RM	5/10/00	0	0.5	1349046	482777.1	Beryllium	0.22	mg/kg dry	-	NORMAL
A1P3-C-23	A1P3-C-23-9RM	5/10/00	0	0.5	1349046	482777.1	Uranium, Total	19.505	ug/g dry	-	NORMAL
A1P3-C-23	A1P3-C-23-9RM	5/10/00	0	0.5	1349046	482777.1	Thorium-232	1.072	pCi/g dry	-	NORMAL
A1P3-C-23	A1P3-C-23-9RM	5/10/00	0	0.5	1349046	482777.1	Radium-226	1.285	pCi/g dry	-	NORMAL
A1P3-C-23	A1P3-C-23-9RM	5/10/00	0	0.5	1349046	482777.1	Radium-228	1.072	pCi/g dry	-	NORMAL
A1P3-C-23	A1P3-C-23-9RM	5/10/00	0	0.5	1349046	482777.1	Thorium-228	1.033	pCi/g dry	-	NORMAL
A1P3-C-23	A1P3-C-23-9RM	5/10/00	0	0.5	1349046	482777.1	Moisture Content	19.2	PERCENT	NV	NORMAL
A1P3-C-24	A1P3-C-24-10R	5/15/00	0	0.5	1346376	482604.8	Moisture Content	15.3	PERCENT	NV	NORMAL

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TABLE C-1
AREA 1, PHASE III, PART ONE CERTIFICATION DATA

CU	Sample ID	Sample Date	Depth Top	Depth Bottom	East 83	North 83	Parameter	Result	Units	Val. Qual.	QA Type
A1P3-C-24	A1P3-C-24-10R	5/15/00	0	0.5	1346376	482604.8	Thorium-228	0.579	pCi/g dry	-	NORMAL
A1P3-C-24	A1P3-C-24-10R	5/15/00	0	0.5	1346376	482604.8	Thorium-232	0.609	pCi/g dry	-	NORMAL
A1P3-C-24	A1P3-C-24-10R	5/15/00	0	0.5	1346376	482604.8	Uranium, Total	3.724	ug/g dry	J	NORMAL
A1P3-C-24	A1P3-C-24-10R	5/15/00	0	0.5	1346376	482604.8	Radium-228	0.609	pCi/g dry	-	NORMAL
A1P3-C-24	A1P3-C-24-10R	5/15/00	0	0.5	1346376	482604.8	Radium-226	0.799	pCi/g dry	-	NORMAL
A1P3-C-24	A1P3-C-24-11R	5/15/00	0	0.5	1346332	482735.4	Moisture Content	23.2	PERCENT	NV	NORMAL
A1P3-C-24	A1P3-C-24-11R	5/15/00	0	0.5	1346332	482735.4	Radium-228	1.047	pCi/g dry	-	NORMAL
A1P3-C-24	A1P3-C-24-11R	5/15/00	0	0.5	1346332	482735.4	Thorium-228	1.034	pCi/g dry	-	NORMAL
A1P3-C-24	A1P3-C-24-11R	5/15/00	0	0.5	1346332	482735.4	Uranium, Total	8.61	ug/g dry	-	NORMAL
A1P3-C-24	A1P3-C-24-11R	5/15/00	0	0.5	1346332	482735.4	Thorium-232	1.047	pCi/g dry	-	NORMAL
A1P3-C-24	A1P3-C-24-11R	5/15/00	0	0.5	1346332	482735.4	Radium-226	1.179	pCi/g dry	-	NORMAL
A1P3-C-24	A1P3-C-24-11R-D	5/15/00	0	0.5	1346332	482735.4	Moisture Content	22.6	PERCENT	NV	DUPLICATE
A1P3-C-24	A1P3-C-24-11R-D	5/15/00	0	0.5	1346332	482735.4	Uranium, Total	7.291	ug/g dry	-	DUPLICATE
A1P3-C-24	A1P3-C-24-11R-D	5/15/00	0	0.5	1346332	482735.4	Thorium-232	0.947	pCi/g dry	-	DUPLICATE
A1P3-C-24	A1P3-C-24-11R-D	5/15/00	0	0.5	1346332	482735.4	Radium-226	1.058	pCi/g dry	-	DUPLICATE
A1P3-C-24	A1P3-C-24-11R-D	5/15/00	0	0.5	1346332	482735.4	Thorium-228	0.909	pCi/g dry	-	DUPLICATE
A1P3-C-24	A1P3-C-24-11R-D	5/15/00	0	0.5	1346332	482735.4	Radium-228	0.947	pCi/g dry	-	DUPLICATE
A1P3-C-24	A1P3-C-24-14R	5/11/00	0	0.5	1346465	482767.7	Moisture Content	21.2	PERCENT	NV	NORMAL
A1P3-C-24	A1P3-C-24-14R	5/11/00	0	0.5	1346465	482767.7	Radium-228	0.887	pCi/g dry	-	NORMAL
A1P3-C-24	A1P3-C-24-14R	5/11/00	0	0.5	1346465	482767.7	Thorium-228	0.839	pCi/g dry	-	NORMAL
A1P3-C-24	A1P3-C-24-14R	5/11/00	0	0.5	1346465	482767.7	Thorium-232	0.887	pCi/g dry	-	NORMAL
A1P3-C-24	A1P3-C-24-14R	5/11/00	0	0.5	1346465	482767.7	Uranium, Total	8.829	ug/g dry	-	NORMAL
A1P3-C-24	A1P3-C-24-14R	5/11/00	0	0.5	1346465	482767.7	Radium-226	1.029	pCi/g dry	-	NORMAL
A1P3-C-24	A1P3-C-24-15R	5/11/00	0	0.5	1346387	482902.6	Moisture Content	23	PERCENT	NV	NORMAL
A1P3-C-24	A1P3-C-24-15R	5/11/00	0	0.5	1346387	482902.6	Uranium, Total	6.906	ug/g dry	-	NORMAL
A1P3-C-24	A1P3-C-24-15R	5/11/00	0	0.5	1346387	482902.6	Radium-226	1.15	pCi/g dry	-	NORMAL
A1P3-C-24	A1P3-C-24-15R	5/11/00	0	0.5	1346387	482902.6	Radium-228	0.961	pCi/g dry	-	NORMAL
A1P3-C-24	A1P3-C-24-15R	5/11/00	0	0.5	1346387	482902.6	Thorium-232	0.961	pCi/g dry	-	NORMAL
A1P3-C-24	A1P3-C-24-15R	5/11/00	0	0.5	1346387	482902.6	Thorium-228	0.963	pCi/g dry	-	NORMAL
A1P3-C-24	A1P3-C-24-16R	5/11/00	0	0.5	1346528	482795.5	Moisture Content	21	PERCENT	NV	NORMAL
A1P3-C-24	A1P3-C-24-16R	5/11/00	0	0.5	1346528	482795.5	Thorium-232	0.896	pCi/g dry	-	NORMAL
A1P3-C-24	A1P3-C-24-16R	5/11/00	0	0.5	1346528	482795.5	Uranium, Total	8.428	ug/g dry	-	NORMAL
A1P3-C-24	A1P3-C-24-16R	5/11/00	0	0.5	1346528	482795.5	Thorium-228	0.889	pCi/g dry	-	NORMAL
A1P3-C-24	A1P3-C-24-16R	5/11/00	0	0.5	1346528	482795.5	Radium-226	1.026	pCi/g dry	-	NORMAL
A1P3-C-24	A1P3-C-24-16R	5/11/00	0	0.5	1346528	482795.5	Radium-228	0.896	pCi/g dry	-	NORMAL
A1P3-C-24	A1P3-C-24-1R	5/15/00	0	0.5	1346021	482701.4	Moisture Content	13.2	PERCENT	NV	NORMAL
A1P3-C-24	A1P3-C-24-1R	5/15/00	0	0.5	1346021	482701.4	Radium-228	0.51	pCi/g dry	-	NORMAL
A1P3-C-24	A1P3-C-24-1R	5/15/00	0	0.5	1346021	482701.4	Thorium-232	0.51	pCi/g dry	-	NORMAL
A1P3-C-24	A1P3-C-24-1R	5/15/00	0	0.5	1346021	482701.4	Uranium, Total	1.722	ug/g dry	U	NORMAL
A1P3-C-24	A1P3-C-24-1R	5/15/00	0	0.5	1346021	482701.4	Thorium-228	0.503	pCi/g dry	-	NORMAL
A1P3-C-24	A1P3-C-24-1R	5/15/00	0	0.5	1346021	482701.4	Radium-226	0.625	pCi/g dry	-	NORMAL

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TABLE C-1
AREA 1, PHASE III, PART ONE CERTIFICATION DATA

CU	Sample ID	Sample Date	Depth Top	Depth Bottom	East 83	North 83	Parameter	Result	Units	Val. Qual.	QA Type
A1P3-C-24	A1P3-C-24-2R	5/15/00	0	0.5	1346140	482741.8	Moisture Content	21.5	PERCENT	NV	NORMAL
A1P3-C-24	A1P3-C-24-2R	5/15/00	0	0.5	1346140	482741.8	Radium-228	1.087	pCi/g dry	-	NORMAL
A1P3-C-24	A1P3-C-24-2R	5/15/00	0	0.5	1346140	482741.8	Thorium-228	1.062	pCi/g dry	-	NORMAL
A1P3-C-24	A1P3-C-24-2R	5/15/00	0	0.5	1346140	482741.8	Thorium-232	1.087	pCi/g dry	-	NORMAL
A1P3-C-24	A1P3-C-24-2R	5/15/00	0	0.5	1346140	482741.8	Uranium, Total	14.227	ug/g dry	-	NORMAL
A1P3-C-24	A1P3-C-24-2R	5/15/00	0	0.5	1346140	482741.8	Radium-226	1.17	pCi/g dry	-	NORMAL
A1P3-C-24	A1P3-C-24-3R	5/15/00	0	0.5	1345975	482790.3	Moisture Content	19.8	PERCENT	NV	NORMAL
A1P3-C-24	A1P3-C-24-3R	5/15/00	0	0.5	1345975	482790.3	Uranium, Total	13.41	ug/g dry	-	NORMAL
A1P3-C-24	A1P3-C-24-3R	5/15/00	0	0.5	1345975	482790.3	Radium-226	1.108	pCi/g dry	-	NORMAL
A1P3-C-24	A1P3-C-24-3R	5/15/00	0	0.5	1345975	482790.3	Radium-228	0.839	pCi/g dry	-	NORMAL
A1P3-C-24	A1P3-C-24-3R	5/15/00	0	0.5	1345975	482790.3	Thorium-232	0.839	pCi/g dry	-	NORMAL
A1P3-C-24	A1P3-C-24-3R	5/15/00	0	0.5	1345975	482790.3	Thorium-228	0.828	pCi/g dry	-	NORMAL
A1P3-C-24	A1P3-C-24-5R	5/15/00	0	0.5	1346182	482667.8	Moisture Content	13.7	PERCENT	NV	NORMAL
A1P3-C-24	A1P3-C-24-5R	5/15/00	0	0.5	1346182	482667.8	Thorium-232	0.6	pCi/g dry	-	NORMAL
A1P3-C-24	A1P3-C-24-5R	5/15/00	0	0.5	1346182	482667.8	Uranium, Total	2.608	ug/g dry	U	NORMAL
A1P3-C-24	A1P3-C-24-5R	5/15/00	0	0.5	1346182	482667.8	Thorium-228	0.576	pCi/g dry	-	NORMAL
A1P3-C-24	A1P3-C-24-5R	5/15/00	0	0.5	1346182	482667.8	Radium-226	0.859	pCi/g dry	-	NORMAL
A1P3-C-24	A1P3-C-24-5R	5/15/00	0	0.5	1346182	482667.8	Radium-228	0.6	pCi/g dry	-	NORMAL
A1P3-C-24	A1P3-C-24-6R	5/15/00	0	0.5	1346209	482773.9	Moisture Content	33.6	PERCENT	NV	NORMAL
A1P3-C-24	A1P3-C-24-6R	5/15/00	0	0.5	1346209	482773.9	Radium-228	0.892	pCi/g dry	-	NORMAL
A1P3-C-24	A1P3-C-24-6R	5/15/00	0	0.5	1346209	482773.9	Thorium-232	0.892	pCi/g dry	-	NORMAL
A1P3-C-24	A1P3-C-24-6R	5/15/00	0	0.5	1346209	482773.9	Uranium, Total	7.719	ug/g dry	-	NORMAL
A1P3-C-24	A1P3-C-24-6R	5/15/00	0	0.5	1346209	482773.9	Thorium-228	0.9	pCi/g dry	-	NORMAL
A1P3-C-24	A1P3-C-24-6R	5/15/00	0	0.5	1346209	482773.9	Radium-226	1.165	pCi/g dry	-	NORMAL
A1P3-C-24	A1P3-C-24-7R	5/15/00	0	0.5	1346272	482788.2	Moisture Content	24	PERCENT	NV	NORMAL
A1P3-C-24	A1P3-C-24-7R	5/15/00	0	0.5	1346272	482788.2	Radium-228	0.973	pCi/g dry	-	NORMAL
A1P3-C-24	A1P3-C-24-7R	5/15/00	0	0.5	1346272	482788.2	Thorium-228	0.99	pCi/g dry	-	NORMAL
A1P3-C-24	A1P3-C-24-7R	5/15/00	0	0.5	1346272	482788.2	Thorium-232	0.973	pCi/g dry	-	NORMAL
A1P3-C-24	A1P3-C-24-7R	5/15/00	0	0.5	1346272	482788.2	Uranium, Total	7.454	ug/g dry	-	NORMAL
A1P3-C-24	A1P3-C-24-7R	5/15/00	0	0.5	1346272	482788.2	Radium-226	1.097	pCi/g dry	-	NORMAL
A1P3-C-24	A1P3-C-24-9R	5/15/00	0	0.5	1346314	482649.1	Moisture Content	13.3	PERCENT	NV	NORMAL
A1P3-C-24	A1P3-C-24-9R	5/15/00	0	0.5	1346314	482649.1	Uranium, Total	0.884	ug/g dry	U	NORMAL
A1P3-C-24	A1P3-C-24-9R	5/15/00	0	0.5	1346314	482649.1	Radium-226	0.922	pCi/g dry	-	NORMAL
A1P3-C-24	A1P3-C-24-9R	5/15/00	0	0.5	1346314	482649.1	Radium-228	0.683	pCi/g dry	-	NORMAL
A1P3-C-24	A1P3-C-24-9R	5/15/00	0	0.5	1346314	482649.1	Thorium-232	0.683	pCi/g dry	-	NORMAL
A1P3-C-24	A1P3-C-24-9R	5/15/00	0	0.5	1346314	482649.1	Thorium-228	0.671	pCi/g dry	-	NORMAL
A1P3-C-25	A1P3-C-25-10RM	5/9/00	0	0.5	1348822	482519.8	Beryllium	0.31	mg/kg dry	-	NORMAL
A1P3-C-25	A1P3-C-25-10RM	5/9/00	0	0.5	1348822	482519.8	Radium-228	0.951	pCi/g dry	-	NORMAL
A1P3-C-25	A1P3-C-25-10RM	5/9/00	0	0.5	1348822	482519.8	Thorium-228	0.96	pCi/g dry	-	NORMAL
A1P3-C-25	A1P3-C-25-10RM	5/9/00	0	0.5	1348822	482519.8	Thorium-232	0.951	pCi/g dry	-	NORMAL
A1P3-C-25	A1P3-C-25-10RM	5/9/00	0	0.5	1348822	482519.8	Uranium, Total	11.07	ug/g dry	-	NORMAL

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TABLE C-1
AREA 1, PHASE III, PART ONE CERTIFICATION DATA

CU	Sample ID	Sample Date	Depth Top	Depth Bottom	East 83	North 83	Parameter	Result	Units	Val. Qual.	QA Type
A1P3-C-25	A1P3-C-25-10RM	5/9/00	0	0.5	1348822	482519.8	Radium-226	1.16	pCi/g dry	-	NORMAL
A1P3-C-25	A1P3-C-25-10RM	5/9/00	0	0.5	1348822	482519.8	Moisture Content	7.9	PERCENT	NV	NORMAL
A1P3-C-25	A1P3-C-25-12RM	5/10/00	0	0.5	1348969	482619.1	Beryllium	0.03	mg/kg dry	U	NORMAL
A1P3-C-25	A1P3-C-25-12RM	5/10/00	0	0.5	1348969	482619.1	Uranium, Total	36.608	ug/g dry	-	NORMAL
A1P3-C-25	A1P3-C-25-12RM	5/10/00	0	0.5	1348969	482619.1	Moisture Content	8.4	PERCENT	NV	NORMAL
A1P3-C-25	A1P3-C-25-12RM	5/10/00	0	0.5	1348969	482619.1	Radium-228	0.444	pCi/g dry	-	NORMAL
A1P3-C-25	A1P3-C-25-12RM	5/10/00	0	0.5	1348969	482619.1	Thorium-228	0.433	pCi/g dry	-	NORMAL
A1P3-C-25	A1P3-C-25-12RM	5/10/00	0	0.5	1348969	482619.1	Thorium-232	0.444	pCi/g dry	-	NORMAL
A1P3-C-25	A1P3-C-25-12RM	5/10/00	0	0.5	1348969	482619.1	Radium-226	0.618	pCi/g dry	-	NORMAL
A1P3-C-25	A1P3-C-25-13RM	5/10/00	0	0.5	1349065	482691.3	Beryllium	0.19	mg/kg dry	-	NORMAL
A1P3-C-25	A1P3-C-25-13RM	5/10/00	0	0.5	1349065	482691.3	Uranium, Total	10.646	ug/g dry	-	NORMAL
A1P3-C-25	A1P3-C-25-13RM	5/10/00	0	0.5	1349065	482691.3	Thorium-232	0.55	pCi/g dry	-	NORMAL
A1P3-C-25	A1P3-C-25-13RM	5/10/00	0	0.5	1349065	482691.3	Moisture Content	7.3	PERCENT	NV	NORMAL
A1P3-C-25	A1P3-C-25-13RM	5/10/00	0	0.5	1349065	482691.3	Radium-226	0.785	pCi/g dry	-	NORMAL
A1P3-C-25	A1P3-C-25-13RM	5/10/00	0	0.5	1349065	482691.3	Thorium-228	0.545	pCi/g dry	-	NORMAL
A1P3-C-25	A1P3-C-25-13RM	5/10/00	0	0.5	1349065	482691.3	Radium-228	0.55	pCi/g dry	-	NORMAL
A1P3-C-25	A1P3-C-25-15RM	5/10/00	0	0.5	1349230	482847.3	Beryllium	0.31	mg/kg dry	-	NORMAL
A1P3-C-25	A1P3-C-25-15RM	5/10/00	0	0.5	1349230	482847.3	Thorium-232	0.77	pCi/g dry	-	NORMAL
A1P3-C-25	A1P3-C-25-15RM	5/10/00	0	0.5	1349230	482847.3	Uranium, Total	16.878	ug/g dry	-	NORMAL
A1P3-C-25	A1P3-C-25-15RM	5/10/00	0	0.5	1349230	482847.3	Thorium-228	0.737	pCi/g dry	-	NORMAL
A1P3-C-25	A1P3-C-25-15RM	5/10/00	0	0.5	1349230	482847.3	Moisture Content	16.6	PERCENT	NV	NORMAL
A1P3-C-25	A1P3-C-25-15RM	5/10/00	0	0.5	1349230	482847.3	Radium-226	0.906	pCi/g dry	-	NORMAL
A1P3-C-25	A1P3-C-25-15RM	5/10/00	0	0.5	1349230	482847.3	Radium-228	0.77	pCi/g dry	-	NORMAL
A1P3-C-25	A1P3-C-25-16RM	5/10/00	0	0.5	1349296	482833.9	Beryllium	0.03	mg/kg dry	U	NORMAL
A1P3-C-25	A1P3-C-25-16RM	5/10/00	0	0.5	1349296	482833.9	Thorium-228	0.493	pCi/g dry	-	NORMAL
A1P3-C-25	A1P3-C-25-16RM	5/10/00	0	0.5	1349296	482833.9	Uranium, Total	17.838	ug/g dry	-	NORMAL
A1P3-C-25	A1P3-C-25-16RM	5/10/00	0	0.5	1349296	482833.9	Thorium-232	0.502	pCi/g dry	-	NORMAL
A1P3-C-25	A1P3-C-25-16RM	5/10/00	0	0.5	1349296	482833.9	Radium-228	0.502	pCi/g dry	-	NORMAL
A1P3-C-25	A1P3-C-25-16RM	5/10/00	0	0.5	1349296	482833.9	Moisture Content	18.9	PERCENT	NV	NORMAL
A1P3-C-25	A1P3-C-25-16RM	5/10/00	0	0.5	1349296	482833.9	Radium-226	0.815	pCi/g dry	-	NORMAL
A1P3-C-25	A1P3-C-25-1RM	5/9/00	0	0.5	1347796	482611.7	Beryllium	0.09	mg/kg dry	-	NORMAL
A1P3-C-25	A1P3-C-25-1RM	5/9/00	0	0.5	1347796	482611.7	Radium-226	1.177	pCi/g dry	-	NORMAL
A1P3-C-25	A1P3-C-25-1RM	5/9/00	0	0.5	1347796	482611.7	Thorium-228	0.917	pCi/g dry	-	NORMAL
A1P3-C-25	A1P3-C-25-1RM	5/9/00	0	0.5	1347796	482611.7	Thorium-232	0.936	pCi/g dry	-	NORMAL
A1P3-C-25	A1P3-C-25-1RM	5/9/00	0	0.5	1347796	482611.7	Uranium, Total	12.058	ug/g dry	-	NORMAL
A1P3-C-25	A1P3-C-25-1RM	5/9/00	0	0.5	1347796	482611.7	Radium-228	0.936	pCi/g dry	-	NORMAL
A1P3-C-25	A1P3-C-25-1RM	5/9/00	0	0.5	1347796	482611.7	Moisture Content	14.6	PERCENT	NV	NORMAL
A1P3-C-25	A1P3-C-25-2RM	5/9/00	0	0.5	1347923	482602.7	Beryllium	0.03	mg/kg dry	U	NORMAL
A1P3-C-25	A1P3-C-25-2RM	5/9/00	0	0.5	1347923	482602.7	Uranium, Total	20.98	ug/g dry	-	NORMAL
A1P3-C-25	A1P3-C-25-2RM	5/9/00	0	0.5	1347923	482602.7	Radium-226	0.99	pCi/g dry	-	NORMAL
A1P3-C-25	A1P3-C-25-2RM	5/9/00	0	0.5	1347923	482602.7	Radium-228	0.959	pCi/g dry	-	NORMAL

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TABLE C-1
AREA 1, PHASE III, PART ONE CERTIFICATION DATA

CU	Sample ID	Sample Date	Depth Top	Depth Bottom	East 83	North 83	Parameter	Result	Units	Val. Qual.	QA Type
A1P3-C-25	A1P3-C-25-2RM	5/9/00	0	0.5	1347923	482602.7	Thorium-232	0.959	pCi/g dry	-	NORMAL
A1P3-C-25	A1P3-C-25-2RM	5/9/00	0	0.5	1347923	482602.7	Thorium-228	0.949	pCi/g dry	-	NORMAL
A1P3-C-25	A1P3-C-25-2RM	5/9/00	0	0.5	1347923	482602.7	Moisture Content	16.4	PERCENT	NV	NORMAL
A1P3-C-25	A1P3-C-25-3RM	5/9/00	0	0.5	1348049	482554.9	Beryllium	0.31	mg/kg dry	-	NORMAL
A1P3-C-25	A1P3-C-25-3RM	5/9/00	0	0.5	1348049	482554.9	Uranium, Total	17.062	ug/g dry	-	NORMAL
A1P3-C-25	A1P3-C-25-3RM	5/9/00	0	0.5	1348049	482554.9	Thorium-232	0.992	pCi/g dry	-	NORMAL
A1P3-C-25	A1P3-C-25-3RM	5/9/00	0	0.5	1348049	482554.9	Radium-226	1.242	pCi/g dry	-	NORMAL
A1P3-C-25	A1P3-C-25-3RM	5/9/00	0	0.5	1348049	482554.9	Radium-228	0.992	pCi/g dry	-	NORMAL
A1P3-C-25	A1P3-C-25-3RM	5/9/00	0	0.5	1348049	482554.9	Thorium-228	0.985	pCi/g dry	-	NORMAL
A1P3-C-25	A1P3-C-25-3RM	5/9/00	0	0.5	1348049	482554.9	Moisture Content	13.2	PERCENT	NV	NORMAL
A1P3-C-25	A1P3-C-25-3RM-D	5/9/00	0	0.5	1348049	482554.9	Beryllium	0.4	mg/kg dry	-	DUPLICATE
A1P3-C-25	A1P3-C-25-3RM-D	5/9/00	0	0.5	1348049	482554.9	Thorium-232	1.089	pCi/g dry	-	DUPLICATE
A1P3-C-25	A1P3-C-25-3RM-D	5/9/00	0	0.5	1348049	482554.9	Uranium, Total	17.041	ug/g dry	-	DUPLICATE
A1P3-C-25	A1P3-C-25-3RM-D	5/9/00	0	0.5	1348049	482554.9	Thorium-228	1.061	pCi/g dry	-	DUPLICATE
A1P3-C-25	A1P3-C-25-3RM-D	5/9/00	0	0.5	1348049	482554.9	Moisture Content	13	PERCENT	NV	DUPLICATE
A1P3-C-25	A1P3-C-25-3RM-D	5/9/00	0	0.5	1348049	482554.9	Radium-228	1.089	pCi/g dry	-	DUPLICATE
A1P3-C-25	A1P3-C-25-3RM-D	5/9/00	0	0.5	1348049	482554.9	Radium-226	1.274	pCi/g dry	-	DUPLICATE
A1P3-C-25	A1P3-C-25-5RM	5/9/00	0	0.5	1348256	482549	Beryllium	0.03	mg/kg dry	-	NORMAL
A1P3-C-25	A1P3-C-25-5RM	5/9/00	0	0.5	1348256	482549	Thorium-228	0.995	pCi/g dry	-	NORMAL
A1P3-C-25	A1P3-C-25-5RM	5/9/00	0	0.5	1348256	482549	Uranium, Total	82.686	ug/g dry	-	NORMAL
A1P3-C-25	A1P3-C-25-5RM	5/9/00	0	0.5	1348256	482549	Thorium-232	1.002	pCi/g dry	-	NORMAL
A1P3-C-25	A1P3-C-25-5RM	5/9/00	0	0.5	1348256	482549	Radium-228	1.002	pCi/g dry	-	NORMAL
A1P3-C-25	A1P3-C-25-5RM	5/9/00	0	0.5	1348256	482549	Moisture Content	21	PERCENT	NV	NORMAL
A1P3-C-25	A1P3-C-25-5RM	5/9/00	0	0.5	1348256	482549	Radium-226	1.167	pCi/g dry	-	NORMAL
A1P3-C-25	A1P3-C-25-7RM	5/9/00	0	0.5	1348412	482541.5	Beryllium	0.03	mg/kg dry	U	NORMAL
A1P3-C-25	A1P3-C-25-7RM	5/9/00	0	0.5	1348412	482541.5	Moisture Content	11.3	PERCENT	NV	NORMAL
A1P3-C-25	A1P3-C-25-7RM	5/9/00	0	0.5	1348412	482541.5	Radium-226	1.042	pCi/g dry	-	NORMAL
A1P3-C-25	A1P3-C-25-7RM	5/9/00	0	0.5	1348412	482541.5	Radium-228	0.891	pCi/g dry	-	NORMAL
A1P3-C-25	A1P3-C-25-7RM	5/9/00	0	0.5	1348412	482541.5	Thorium-228	0.875	pCi/g dry	-	NORMAL
A1P3-C-25	A1P3-C-25-7RM	5/9/00	0	0.5	1348412	482541.5	Thorium-232	0.891	pCi/g dry	-	NORMAL
A1P3-C-25	A1P3-C-25-7RM	5/9/00	0	0.5	1348412	482541.5	Uranium, Total	5.13	ug/g dry	-	NORMAL
A1P3-C-25	A1P3-C-25-8RM	5/9/00	0	0.5	1348584	482537.1	Beryllium	0.04	mg/kg dry	-	NORMAL
A1P3-C-25	A1P3-C-25-8RM	5/9/00	0	0.5	1348584	482537.1	Moisture Content	13.5	PERCENT	NV	NORMAL
A1P3-C-25	A1P3-C-25-8RM	5/9/00	0	0.5	1348584	482537.1	Radium-226	1.09	pCi/g dry	-	NORMAL
A1P3-C-25	A1P3-C-25-8RM	5/9/00	0	0.5	1348584	482537.1	Radium-228	0.976	pCi/g dry	-	NORMAL
A1P3-C-25	A1P3-C-25-8RM	5/9/00	0	0.5	1348584	482537.1	Thorium-228	0.949	pCi/g dry	-	NORMAL
A1P3-C-25	A1P3-C-25-8RM	5/9/00	0	0.5	1348584	482537.1	Thorium-232	0.976	pCi/g dry	-	NORMAL
A1P3-C-25	A1P3-C-25-8RM	5/9/00	0	0.5	1348584	482537.1	Uranium, Total	23.758	ug/g dry	-	NORMAL
A1P3-C-25	A1P3-C-25-9RM	5/9/00	0	0.5	1348679	482528	Beryllium	0.34	mg/kg dry	-	NORMAL
A1P3-C-25	A1P3-C-25-9RM	5/9/00	0	0.5	1348679	482528	Moisture Content	13.9	PERCENT	NV	NORMAL
A1P3-C-25	A1P3-C-25-9RM	5/9/00	0	0.5	1348679	482528	Radium-226	1.175	pCi/g dry	-	NORMAL

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TABLE C-1
AREA 1, PHASE III, PART ONE CERTIFICATION DATA

CU	Sample ID	Sample Date	Depth Top	Depth Bottom	East 83	North 83	Parameter	Result	Units	Val. Qual.	QA Type
A1P3-C-25	A1P3-C-25-9RM	5/9/00	0	0.5	1348679	482528	Radium-228	0.826	pCi/g dry	-	NORMAL
A1P3-C-25	A1P3-C-25-9RM	5/9/00	0	0.5	1348679	482528	Thorium-228	0.805	pCi/g dry	-	NORMAL
A1P3-C-25	A1P3-C-25-9RM	5/9/00	0	0.5	1348679	482528	Thorium-232	0.826	pCi/g dry	-	NORMAL
A1P3-C-25	A1P3-C-25-9RM	5/9/00	0	0.5	1348679	482528	Uranium, Total	15.795	ug/g dry	-	NORMAL
A1P3-C-26	A1P3-C-26-10RM	4/4/01	0	0.5	482728	1346184	Beryllium	0.01	mg/kg	U	NORMAL
A1P3-C-26	A1P3-C-26-10RM	4/4/01	0	0.5	482728	1346184	Radium-226	1.164	pCi/g	J	NORMAL
A1P3-C-26	A1P3-C-26-10RM	4/4/01	0	0.5	482728	1346184	Radium-228	0.933	pCi/g	J	NORMAL
A1P3-C-26	A1P3-C-26-10RM	4/4/01	0	0.5	482728	1346184	Thorium-228	0.867	pCi/g	J	NORMAL
A1P3-C-26	A1P3-C-26-10RM	4/4/01	0	0.5	482728	1346184	Thorium-232	0.933	pCi/g	J	NORMAL
A1P3-C-26	A1P3-C-26-10RM	4/4/01	0	0.5	482728	1346184	Uranium, Total	11.565	ug/g	-	NORMAL
A1P3-C-26	A1P3-C-26-12RM	4/4/01	0	0.5	482789	1346091	Beryllium	0.18	mg/kg	-	NORMAL
A1P3-C-26	A1P3-C-26-12RM	4/4/01	0	0.5	482789	1346091	Radium-226	1.256	pCi/g	J	NORMAL
A1P3-C-26	A1P3-C-26-12RM	4/4/01	0	0.5	482789	1346091	Radium-228	0.968	pCi/g	J	NORMAL
A1P3-C-26	A1P3-C-26-12RM	4/4/01	0	0.5	482789	1346091	Thorium-228	0.931	pCi/g	J	NORMAL
A1P3-C-26	A1P3-C-26-12RM	4/4/01	0	0.5	482789	1346091	Thorium-232	0.968	pCi/g	J	NORMAL
A1P3-C-26	A1P3-C-26-12RM	4/4/01	0	0.5	482789	1346091	Uranium, Total	12.092	ug/g	-	NORMAL
A1P3-C-26	A1P3-C-26-13RM	4/4/01	0	0.5	482778	1346127	Beryllium	0.07	mg/kg	-	NORMAL
A1P3-C-26	A1P3-C-26-13RM	4/4/01	0	0.5	482778	1346127	Radium-226	1.343	pCi/g	J	NORMAL
A1P3-C-26	A1P3-C-26-13RM	4/4/01	0	0.5	482778	1346127	Radium-228	0.856	pCi/g	J	NORMAL
A1P3-C-26	A1P3-C-26-13RM	4/4/01	0	0.5	482778	1346127	Thorium-228	0.851	pCi/g	J	NORMAL
A1P3-C-26	A1P3-C-26-13RM	4/4/01	0	0.5	482778	1346127	Thorium-232	0.856	pCi/g	J	NORMAL
A1P3-C-26	A1P3-C-26-13RM	4/4/01	0	0.5	482778	1346127	Uranium, Total	15.73	ug/g	-	NORMAL
A1P3-C-26	A1P3-C-26-14RM	4/4/01	0	0.5	482769	1346156	Beryllium	0.13	mg/kg	-	NORMAL
A1P3-C-26	A1P3-C-26-14RM	4/4/01	0	0.5	482769	1346156	Radium-226	1.257	pCi/g	J	NORMAL
A1P3-C-26	A1P3-C-26-14RM	4/4/01	0	0.5	482769	1346156	Radium-228	0.717	pCi/g	J	NORMAL
A1P3-C-26	A1P3-C-26-14RM	4/4/01	0	0.5	482769	1346156	Thorium-228	0.664	pCi/g	J	NORMAL
A1P3-C-26	A1P3-C-26-14RM	4/4/01	0	0.5	482769	1346156	Thorium-232	0.717	pCi/g	J	NORMAL
A1P3-C-26	A1P3-C-26-14RM	4/4/01	0	0.5	482769	1346156	Uranium, Total	7.501	ug/g	-	NORMAL
A1P3-C-26	A1P3-C-26-16RM	4/4/01	0	0.5	482738	1346218	Beryllium	0.01	mg/kg	U	NORMAL
A1P3-C-26	A1P3-C-26-16RM	4/4/01	0	0.5	482738	1346218	Radium-226	1.114	pCi/g	J	NORMAL
A1P3-C-26	A1P3-C-26-16RM	4/4/01	0	0.5	482738	1346218	Radium-228	0.802	pCi/g	J	NORMAL
A1P3-C-26	A1P3-C-26-16RM	4/4/01	0	0.5	482738	1346218	Thorium-228	0.767	pCi/g	J	NORMAL
A1P3-C-26	A1P3-C-26-16RM	4/4/01	0	0.5	482738	1346218	Thorium-232	0.802	pCi/g	J	NORMAL
A1P3-C-26	A1P3-C-26-16RM	4/4/01	0	0.5	482738	1346218	Uranium, Total	12.924	ug/g	-	NORMAL
A1P3-C-26	A1P3-C-26-1RM	4/4/01	0	0.5	482698	1346025	Beryllium	0.06	mg/kg	-	NORMAL
A1P3-C-26	A1P3-C-26-1RM	4/4/01	0	0.5	482698	1346025	Radium-226	0.801	pCi/g	J	NORMAL
A1P3-C-26	A1P3-C-26-1RM	4/4/01	0	0.5	482698	1346025	Radium-228	0.614	pCi/g	J	NORMAL
A1P3-C-26	A1P3-C-26-1RM	4/4/01	0	0.5	482698	1346025	Thorium-228	0.601	pCi/g	J	NORMAL
A1P3-C-26	A1P3-C-26-1RM	4/4/01	0	0.5	482698	1346025	Thorium-232	0.614	pCi/g	J	NORMAL
A1P3-C-26	A1P3-C-26-1RM	4/4/01	0	0.5	482698	1346025	Uranium, Total	3.828	ug/g	U	NORMAL
A1P3-C-26	A1P3-C-26-2RM	4/4/01	0	0.5	482713	1346064	Beryllium	0.15	mg/kg	-	NORMAL

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TABLE C-1
AREA 1, PHASE III, PART ONE CERTIFICATION DATA

CU	Sample ID	Sample Date	Depth Top	Depth Bottom	East 83	North 83	Parameter	Result	Units	Val. Qual.	QA Type
A1P3-C-26	A1P3-C-26-2RM	4/4/01	0	0.5	482713	1346064	Radium-226	0.899	pCi/g	J	NORMAL
A1P3-C-26	A1P3-C-26-2RM	4/4/01	0	0.5	482713	1346064	Radium-228	0.686	pCi/g	J	NORMAL
A1P3-C-26	A1P3-C-26-2RM	4/4/01	0	0.5	482713	1346064	Thorium-228	0.707	pCi/g	J	NORMAL
A1P3-C-26	A1P3-C-26-2RM	4/4/01	0	0.5	482713	1346064	Thorium-232	0.686	pCi/g	J	NORMAL
A1P3-C-26	A1P3-C-26-2RM	4/4/01	0	0.5	482713	1346064	Uranium, Total	6.571	ug/g	-	NORMAL
A1P3-C-26	A1P3-C-26-3RM	4/4/01	0	0.5	482706	1346110	Beryllium	0.04	mg/kg	-	NORMAL
A1P3-C-26	A1P3-C-26-3RM	4/4/01	0	0.5	482706	1346110	Radium-226	0.972	pCi/g	J	NORMAL
A1P3-C-26	A1P3-C-26-3RM	4/4/01	0	0.5	482706	1346110	Radium-228	0.718	pCi/g	J	NORMAL
A1P3-C-26	A1P3-C-26-3RM	4/4/01	0	0.5	482706	1346110	Thorium-228	0.71	pCi/g	J	NORMAL
A1P3-C-26	A1P3-C-26-3RM	4/4/01	0	0.5	482706	1346110	Thorium-232	0.718	pCi/g	J	NORMAL
A1P3-C-26	A1P3-C-26-3RM	4/4/01	0	0.5	482706	1346110	Uranium, Total	7.723	ug/g	-	NORMAL
A1P3-C-26	A1P3-C-26-3RM-D	4/4/01	0	0.5	482706	1346110	Beryllium	0.01	mg/kg	U	DUPLICATE
A1P3-C-26	A1P3-C-26-3RM-D	4/4/01	0	0.5	482706	1346110	Radium-226	1.018	pCi/g	J	DUPLICATE
A1P3-C-26	A1P3-C-26-3RM-D	4/4/01	0	0.5	482706	1346110	Radium-228	0.758	pCi/g	J	DUPLICATE
A1P3-C-26	A1P3-C-26-3RM-D	4/4/01	0	0.5	482706	1346110	Thorium-228	0.724	pCi/g	J	DUPLICATE
A1P3-C-26	A1P3-C-26-3RM-D	4/4/01	0	0.5	482706	1346110	Thorium-232	0.758	pCi/g	J	DUPLICATE
A1P3-C-26	A1P3-C-26-3RM-D	4/4/01	0	0.5	482706	1346110	Uranium, Total	6.899	ug/g	-	DUPLICATE
A1P3-C-26	A1P3-C-26-4RM	4/4/01	0	0.5	482692	1346146	Beryllium	0.04	mg/kg	-	NORMAL
A1P3-C-26	A1P3-C-26-4RM	4/4/01	0	0.5	482692	1346146	Radium-226	0.931	pCi/g	J	NORMAL
A1P3-C-26	A1P3-C-26-4RM	4/4/01	0	0.5	482692	1346146	Radium-228	0.733	pCi/g	J	NORMAL
A1P3-C-26	A1P3-C-26-4RM	4/4/01	0	0.5	482692	1346146	Thorium-228	0.741	pCi/g	J	NORMAL
A1P3-C-26	A1P3-C-26-4RM	4/4/01	0	0.5	482692	1346146	Thorium-232	0.733	pCi/g	J	NORMAL
A1P3-C-26	A1P3-C-26-4RM	4/4/01	0	0.5	482692	1346146	Uranium, Total	9.537	ug/g	-	NORMAL
A1P3-C-26	A1P3-C-26-5RM	4/4/01	0	0.5	482680	1346146	Beryllium	0.05	mg/kg	-	NORMAL
A1P3-C-26	A1P3-C-26-5RM	4/4/01	0	0.5	482680	1346146	Radium-226	0.895	pCi/g	J	NORMAL
A1P3-C-26	A1P3-C-26-5RM	4/4/01	0	0.5	482680	1346146	Radium-228	0.651	pCi/g	J	NORMAL
A1P3-C-26	A1P3-C-26-5RM	4/4/01	0	0.5	482680	1346146	Thorium-228	0.638	pCi/g	J	NORMAL
A1P3-C-26	A1P3-C-26-5RM	4/4/01	0	0.5	482680	1346146	Thorium-232	0.651	pCi/g	J	NORMAL
A1P3-C-26	A1P3-C-26-5RM	4/4/01	0	0.5	482680	1346146	Uranium, Total	3.12	ug/g	U	NORMAL
A1P3-C-26	A1P3-C-26-7RM	4/4/01	0	0.5	482746	1346083	Beryllium	0.12	mg/kg	-	NORMAL
A1P3-C-26	A1P3-C-26-7RM	4/4/01	0	0.5	482746	1346083	Radium-226	0.854	pCi/g	J	NORMAL
A1P3-C-26	A1P3-C-26-7RM	4/4/01	0	0.5	482746	1346083	Radium-228	0.706	pCi/g	J	NORMAL
A1P3-C-26	A1P3-C-26-7RM	4/4/01	0	0.5	482746	1346083	Thorium-228	0.671	pCi/g	J	NORMAL
A1P3-C-26	A1P3-C-26-7RM	4/4/01	0	0.5	482746	1346083	Thorium-232	0.706	pCi/g	J	NORMAL
A1P3-C-26	A1P3-C-26-7RM	4/4/01	0	0.5	482746	1346083	Uranium, Total	4.268	ug/g	-	NORMAL
A1P3-C-26	A1P3-C-26-8RM	4/4/01	0	0.5	482730	1346104	Beryllium	0.05	mg/kg	-	NORMAL
A1P3-C-26	A1P3-C-26-8RM	4/4/01	0	0.5	482730	1346104	Radium-226	0.88	pCi/g	J	NORMAL
A1P3-C-26	A1P3-C-26-8RM	4/4/01	0	0.5	482730	1346104	Radium-228	0.64	pCi/g	J	NORMAL
A1P3-C-26	A1P3-C-26-8RM	4/4/01	0	0.5	482730	1346104	Thorium-228	0.623	pCi/g	J	NORMAL
A1P3-C-26	A1P3-C-26-8RM	4/4/01	0	0.5	482730	1346104	Thorium-232	0.64	pCi/g	J	NORMAL
A1P3-C-26	A1P3-C-26-8RM	4/4/01	0	0.5	482730	1346104	Uranium, Total	10.201	ug/g	-	NORMAL

TABLE C-2: Certification Statistics for A1P3-C-01

	PRIMARY COCs				
Sample ID	Radium-226	Radium-228	Thorium-228	Thorium-232	Uranium, Total
A1P3-C-01-02RM	1.24 -	0.77 -	0.74 -	0.77 -	3.72 J
A1P3-C-01-03RM	1.20 -	0.92 -	0.89 -	0.92 -	5.45 -
A1P3-C-01-04RM	1.31 -	1.05 -	1.04 -	1.05 -	8.36 -
A1P3-C-01-05RM	1.24 -	1.02 -	0.99 -	1.02 -	6.92 -
A1P3-C-01-07RM	1.06 -	0.87 -	0.83 -	0.87 -	11.56 -
A1P3-C-01-07RM-D	1.00 -	0.92 -	0.90 -	0.92 -	9.32 -
A1P3-C-01-08RM	1.09 -	1.09 -	1.10 -	1.09 -	7.02 -
A1P3-C-01-09RM	1.26 -	1.02 -	0.99 -	1.02 -	7.79 -
A1P3-C-01-11RM	1.22 -	1.01 -	1.01 -	1.01 -	17.27 -
A1P3-C-01-12RM	1.24 -	1.04 -	1.01 -	1.04 -	13.46 -
A1P3-C-01-13RM	1.34 -	1.04 -	1.03 -	1.04 -	13.11 -
A1P3-C-01-14RM	1.17 -	1.12 -	1.07 -	1.12 -	3.70 J
A1P3-C-01-16RM	1.33 -	1.12 -	1.11 -	1.12 -	9.69 -
FRL	1.70	1.80	1.70	1.50	82
Units	pCi/g	pCi/g	pCi/g	pCi/g	ug/g
Confidence Level	95%	95%	95%	95%	95%
Max Result	1.33 @	1.12 @	1.11 @	1.12 @	17.27 @
W-Statistic Probability*	--	--	--	--	--
Test Procedure	--	--	--	--	--
Sample Size	12	12	12	12	12
Estimated Mean	--	--	--	--	--
UCL on the Mean**	--	--	--	--	--
Non-Parametric Prob.	--	--	--	--	--
Est. Mean - Pass / Fail	--	--	--	--	--
2x Rule Pass / Fail	Pass	Pass	Pass	Pass	Pass
a posteriori Sample	--	--	--	--	--
Size calculation	--	--	--	--	--

Definition of Qualifiers
J" = estimated result
UJ" = not detected, estimated
U" = not detected
- " = no data qualifier
NV" = not validated
UNV" = not detected, not validated

NOTES:
(1) Maximum result did not exceed the FRL, therefore no statistics were generated and no other tests performed.
(2) The maximum value of the two duplicates was used in all statistical equations.
(3) * W-Statistic Probability is the highest calculated probability of the Shapiro-Wilk W-statistic for tests for the validity of the normality assumption. The test is performed on the raw data (untransformed) data (Normal) and the log-transformed data (LogNormal) to test for lognormality.
(4) ** Estimated Mean = Estimated measure of central tendency (Normal: Mean; LogNormal: Est. Mean; Non-Parametric: Median).

TABLE C-3: Certification Statistics for A1P3-C-02

	PRIMARY COCs				
Sample ID	**Radium-226**	**Radium-228**	**Thorium-228**	**Thorium-232**	**Uranium, Total**
A1P3-C-02-01RM	1.17 -	1.02 -	1.00 -	1.02 -	6.00 -
A1P3-C-02-02RM	1.13 -	0.92 -	0.90 -	0.92 -	5.71 -
A1P3-C-02-03RM	1.32 -	0.99 -	1.00 -	0.99 -	8.99 -
A1P3-C-02-05RM	1.16 -	1.06 -	1.07 -	1.06 -	5.11 -
A1P3-C-02-06RM	1.20 -	1.02 -	1.04 -	1.02 -	7.65 -
A1P3-C-02-07RM	1.05 -	0.91 -	0.86 -	0.91 -	7.59 -
A1P3-C-02-10RM	1.32 -	1.06 -	1.03 -	1.06 -	10.68 J
A1P3-C-02-10RM-D	1.27 -	1.07 -	1.06 -	1.07 -	6.50 J
A1P3-C-02-11RM	1.18 -	1.04 -	1.02 -	1.04 -	7.23 -
A1P3-C-02-12RM	1.12 -	0.96 -	0.93 -	0.96 -	8.44 -
A1P3-C-02-13RM	1.22 -	0.86 -	0.83 -	0.86 -	7.23 -
A1P3-C-02-15RM	1.10 -	0.97 -	0.95 -	0.97 -	7.87 -
A1P3-C-02-16RM	1.15 -	1.08 -	1.07 -	1.08 -	6.45 -
FRL	1.70	1.80	1.70	1.50	82
Units	pCi/g	pCi/g	pCi/g	pCi/g	ug/g
Confidence Level	95%	95%	95%	95%	95%
Max Result	1.32 @	1.08 @	1.07 @	1.08 @	10.68 @
W-Statistic Probability*	--	--	--	--	--
Test Procedure	--	--	--	--	--
Sample Size	12	12	12	12	12
Estimated Mean	--	--	--	--	--
UCL on the Mean**	--	--	--	--	--
Non-Parametric Prob.	--	--	--	--	--
Est. Mean - Pass / Fail	--	--	--	--	--
2x Rule Pass / Fail	Pass	Pass	Pass	Pass	Pass
a posteriori Sample	--	--	--	--	--
Size calculation	--	--	--	--	--

Definition of Qualifiers
J" = estimated result
UJ" = not detected, estimated
U" = not detected
- " = no data qualifier
NV" = not validated
UNV" = not detected, not validated

NOTES:

(1) Maximum result did not exceed the FRL, therefore no statistics were generated and no other tests performed.

(2) The maximum value of the two duplicates was used in all statistical equations.

(3) * W-Statistic Probability is the highest calculated probability of the Shapiro-Wilk W-statistic for tests for the validity of the normality assumption. The test is performed on the raw data (untransformed) data (Normal) and the log-transformed data (LogNormal) to test for lognormality.

(4) ** Estimated Mean = Estimated measure of central tendency (Normal: Mean; LogNormal: Est. Mean; Non-Parametric: Median).

TABLE C-4: Certification Statistics for A1P3-C-03

	PRIMARY COCs				
Sample ID	Radium-226	Radium-228	Thorium-228	Thorium-232	Uranium, Total
A1P3-C-03-02RM	1.22 -	1.00 -	1.00 -	1.00 -	6.05 -
A1P3-C-03-03RM	1.13 -	1.03 -	1.00 -	1.03 -	6.14 -
A1P3-C-03-04RM	1.20 -	0.92 -	0.92 -	0.92 -	5.49 -
A1P3-C-03-04RM-D	1.11 -	0.98 -	0.97 -	0.98 -	7.25 -
A1P3-C-03-05RM	1.27 -	0.96 -	0.96 -	0.96 -	7.02 -
A1P3-C-03-07RM	1.25 -	1.03 -	1.04 -	1.03 -	7.39 -
A1P3-C-03-08RM	1.20 -	0.98 -	0.97 -	0.98 -	7.13 -
A1P3-C-03-09RM	1.33 -	1.02 -	1.01 -	1.02 -	15.46 -
A1P3-C-03-10RM	1.24 -	1.02 -	0.99 -	1.02 -	10.12 -
A1P3-C-03-11RM	1.13 -	1.00 -	0.98 -	1.00 -	6.31 -
A1P3-C-03-13RM	1.17 -	1.07 -	1.04 -	1.07 -	9.96 -
A1P3-C-03-15RM	1.18 -	1.09 -	1.07 -	1.09 -	7.44 -
A1P3-C-03-16RM	1.12 -	0.90 -	0.88 -	0.90 -	9.81 -
FRL	1.70	1.80	1.70	1.50	82
Units	pCi/g	pCi/g	pCi/g	pCi/g	ug/g
Confidence Level	95%	95%	95%	95%	95%
Max Result	1.33 @	1.09 @	1.07 @	1.09 @	15.46 @
W-Statistic Probability*	--	--	--	--	--
Test Procedure	--	--	--	--	--
Sample Size	12	12	12	12	12
Estimated Mean	--	--	--	--	--
UCL on the Mean**	--	--	--	--	--
Non-Parametric Prob.	--	--	--	--	--
Est. Mean - Pass / Fail	--	--	--	--	--
2x Rule Pass / Fail	Pass	Pass	Pass	Pass	Pass
a posteriori Sample	--	--	--	--	--
Size calculation	--	--	--	--	--

Definition of Qualifiers
J" = estimated result
UJ" = not detected, estimated
U" = not detected
- " = no data qualifier
NV" = not validated
UNV" = not detected, not validated

NOTES:
(1) Maximum result did not exceed the FRL, therefore no statistics were generated and no other tests performed.
(2) The maximum value of the two duplicates was used in all statistical equations.
(3) * W-Statistic Probability is the highest calculated probability of the Shapiro-Wilk W-statistic for tests for the validity of the normality assumption. The test is performed on the raw data (untransformed) data (Normal) and the log-transformed data (LogNormal) to test for lognormality.
(4) ** Estimated Mean = Estimated measure of central tendency (Normal: Mean; LogNormal: Est. Mean; Non-Parametric: Median).

TABLE C-5: Certification Statistics for A1P3-C-04

	PRIMARY COCs					
Sample ID	Radium-226	Radium-228	Thorium-228	Thorium-232	Uranium, Total	Beryllium
A1P3-C-04-02RM	1.29 -	1.04 -	1.02 -	1.04 -	6.82 -	0.43 -
A1P3-C-04-03RM	1.19 -	0.98 -	0.96 -	0.98 -	4.00 U	0.26 -
A1P3-C-04-04RM	1.05 -	0.92 -	0.91 -	0.92 -	7.48 -	0.08 -
A1P3-C-04-05RM	1.20 -	1.01 -	0.99 -	1.01 -	10.41 -	0.42 -
A1P3-C-04-05RM-D	1.23 -	1.04 -	1.04 -	1.04 -	6.95 -	0.48 -
A1P3-C-04-06RM	1.10 -	0.86 -	0.87 -	0.86 -	10.19 -	0.34 -
A1P3-C-04-08RM	1.22 -	1.08 -	1.06 -	1.08 -	9.95 -	0.33 -
A1P3-C-04-09RM	1.18 -	1.11 -	1.10 -	1.11 -	9.15 -	0.18 -
A1P3-C-04-10RM	1.20 -	0.96 -	0.96 -	0.96 -	13.16 -	0.20 -
A1P3-C-04-11RM	1.36 -	1.12 -	1.09 -	1.12 -	5.78 -	0.38 -
A1P3-C-04-14RM	1.18 -	1.05 -	1.01 -	1.05 -	7.95 -	0.21 -
A1P3-C-04-15RM	1.30 -	0.95 -	0.94 -	0.95 -	10.97 -	0.26 -
A1P3-C-04-16RM	1.34 -	0.98 -	0.95 -	0.98 -	9.50 UJ	0.35 -
FRL	1.70	1.80	1.70	1.50	82	1.50
Units	pCi/g	pCi/g	pCi/g	pCi/g	ug/g	ug/g
Confidence Level	95%	95%	95%	95%	95%	90%
Max Result	1.36 @	1.12 @	1.10 @	1.12 @	13.16 @	0.48 @
W-Statistic Probability*	--	--	--	--	--	--
Test Procedure	--	--	--	--	--	--
Sample Size	12	12	12	12	12	12
Estimated Mean	--	--	--	--	--	--
UCL on the Mean**	--	--	--	--	--	--
Non-Parametric Prob.	--	--	--	--	--	--
Est. Mean - Pass / Fail	--	--	--	--	--	--
2x Rule Pass / Fail	Pass	Pass	Pass	Pass	Pass	Pass
a posteriori Sample	--	--	--	--	--	--
Size calculation	--	--	--	--	--	--

Definition of Qualifiers
J" = estimated result
UJ" = not detected, estimated
U" = not detected
- " = no data qualifier
NV" = not validated
UNV" = not detected, not validated

NOTES:
(1) Maximum result did not exceed the FRL, therefore no statistics were generated and no other tests performed.
(2) The maximum value of the two duplicates was used in all statistical equations.
(3) * W-Statistic Probability is the highest calculated probability of the Shapiro-Wilk W-statistic for tests for the validity of the normality assumption. The test is performed on the raw data (untransformed) data (Normal) and the log-transformed data (LogNormal) to test for lognormality.
(4) ** Estimated Mean = Estimated measure of central tendency (Normal: Mean; LogNormal: Est. Mean; Non-Parametric: Median).

TABLE C-6: Certification Statistics for A1P3-C-05

	PRIMARY COCs					
Sample ID	Radium-226	Radium-228	Thorium-228	Thorium-232	Uranium, Total	Beryllium
A1P3-C-05-01RM	1.08 -	0.89 -	0.88 -	0.89 -	6.06 -	0.05 -
A1P3-C-05-02RM	1.15 -	0.98 -	0.95 -	0.98 -	5.36 -	0.03 U
A1P3-C-05-03RM	1.04 -	0.80 -	0.80 -	0.80 -	5.10 -	0.03 U
A1P3-C-05-05RM	1.14 -	1.01 -	0.99 -	1.01 -	5.41 -	0.03 U
A1P3-C-05-06RM	1.15 -	0.88 -	0.88 -	0.88 -	11.61 -	0.09 -
A1P3-C-05-07RM	1.12 -	0.94 -	0.93 -	0.94 -	13.30 -	0.03 U
A1P3-C-05-09RM	1.23 -	1.06 -	1.05 -	1.06 -	8.05 -	0.05 -
A1P3-C-05-10RM	1.21 -	0.99 -	1.00 -	0.99 -	15.56 -	0.03 U
A1P3-C-05-11RM	1.17 -	0.89 -	0.84 -	0.89 -	14.39 -	0.11 -
A1P3-C-05-14RM	1.00 -	0.78 -	0.80 -	0.78 -	7.09 -	0.18 -
A1P3-C-05-15RM	0.95 -	0.86 -	0.84 -	0.86 -	13.53 -	0.03 U
A1P3-C-05-16RM	1.12 -	1.00 -	0.98 -	1.00 -	11.89 -	0.18 -
A1P3-C-05-16RM-D	1.07 -	0.90 -	0.86 -	0.90 -	10.30 -	0.12 -
FRL	1.70	1.80	1.70	1.50	82	1.50
Units	pCi/g	pCi/g	pCi/g	pCi/g	ug/g	ug/g
Confidence Level	95%	95%	95%	95%	95%	90%
Max Result	1.23 @	1.06 @	1.05 @	1.06 @	15.56 @	0.18 @
W-Statistic Probability*	--	--	--	--	--	--
Test Procedure	--	--	--	--	--	--
Sample Size	12	12	12	12	12	12
Estimated Mean	--	--	--	--	--	--
UCL on the Mean**	--	--	--	--	--	--
Non-Parametric Prob.	--	--	--	--	--	--
Est. Mean - Pass / Fail	--	--	--	--	--	--
2x Rule Pass / Fail	Pass	Pass	Pass	Pass	Pass	Pass
a posteriori Sample	--	--	--	--	--	--
Size calculation	--	--	--	--	--	--

Definition of Qualifiers
J" = estimated result
UJ" = not detected, estimated
U" = not detected
- " = no data qualifier
NV" = not validated
UNV" = not detected, not validated

NOTES:
(1) Maximum result did not exceed the FRL, therefore no statistics were generated and no other tests performed.
(2) The maximum value of the two duplicates was used in all statistical equations.
(3) * W-Statistic Probability is the highest calculated probability of the Shapiro-Wilk W-statistic for tests for the validity of the normality assumption. The test is performed on the raw data (untransformed) data (Normal) and the log-transformed data (LogNormal) to test for lognormality.
(4) ** Estimated Mean = Estimated measure of central tendency (Normal: Mean; LogNormal: Est. Mean; Non-Parametric: Median).

TABLE C-7: Certification Statistics for A1P3-C-06

	PRIMARY COCs				
Sample ID	Radium-226	Radium-228	Thorium-228	Thorium-232	Uranium, Total
A1P3-C-06-01RM	1.14 -	0.86 -	0.83 -	0.86 -	9.31 -
A1P3-C-06-03RM	0.64 -	0.42 -	0.42 -	0.42 -	2.60 U
A1P3-C-06-04RM	0.96 -	0.72 -	0.67 -	0.72 -	5.18 J
A1P3-C-06-05RM	0.99 -	0.82 -	0.80 -	0.82 -	4.49 -
A1P3-C-06-06RM	0.96 -	0.78 -	0.74 -	0.78 -	2.53 U
A1P3-C-06-08RM	1.05 -	0.85 -	0.83 -	0.85 -	2.55 J
A1P3-C-06-09RM	0.69 -	0.60 -	0.60 -	0.60 -	2.22 U
A1P3-C-06-11RM	1.14 -	0.92 -	0.88 -	0.92 -	10.69 UJ
A1P3-C-06-12RM	0.91 -	0.87 -	0.87 -	0.87 -	5.34 J
A1P3-C-06-13RM	0.55 -	0.40 -	0.41 -	0.40 -	2.88 U
A1P3-C-06-14RM	1.05 -	0.89 -	0.86 -	0.89 -	5.93 -
A1P3-C-06-16RM	0.97 -	0.85 -	0.84 -	0.85 -	3.03 U
A1P3-C-06-16RM-D	1.10 -	0.91 -	0.90 -	0.91 -	3.43 J
FRL	1.70	1.80	1.70	1.50	82
Units	pCi/g	pCi/g	pCi/g	pCi/g	ug/g
Confidence Level	95%	95%	95%	95%	95%
Max Result	1.14 @	0.92 @	0.90 @	0.92 @	10.69 UJ @ +
W-Statistic Probability*	--	--	--	--	--
Test Procedure	--	--	--	--	--
Sample Size	12	12	12	12	12
Estimated Mean	--	--	--	--	--
UCL on the Mean**	--	--	--	--	--
Non-Parametric Prob.	--	--	--	--	--
Est. Mean - Pass / Fail	--	--	--	--	--
2x Rule Pass / Fail	Pass	Pass	Pass	Pass	Pass
a posteriori Sample	--	--	--	--	--
Size calculation	--	--	--	--	--

Definition of Qualifiers
J" = estimated result
UJ" = not detected, estimated
U" = not detected
- " = no data qualifier
NV" = not validated
UNV" = not detected, not validated

NOTES:
(1) Maximum result did not exceed the FRL, therefore no statistics were generated and no other tests performed.
(2) The maximum value of the two duplicates was used in all statistical equations.
(3) * W-Statistic Probability is the highest calculated probability of the Shapiro-Wilk W-statistic for tests for the validity of the normality assumption. The test is performed on the raw data (untransformed) data (Normal) and the log-transformed data (LogNormal) to test for lognormality.
(4) ** Estimated Mean = Estimated measure of central tendency (Normal: Mean; LogNormal: Est. Mean; Non-Parametric: Median).
(5) + 9.31 is the maximum detected concentration.

TABLE C-8: Certification Statistics for A1P3-C-07

	PRIMARY COCs				
Sample ID	Radium-226	Radium-228	Thorium-228	Thorium-232	Uranium, Total
A1P3-C-07-01RM	1.22 -	1.01 -	0.99 -	1.01 -	8.39 -
A1P3-C-07-02RM	1.10 -	0.84 -	0.82 -	0.84 -	10.52 -
A1P3-C-07-03RM	1.24 -	1.05 -	1.07 -	1.05 -	4.65 J
A1P3-C-07-06RM	1.20 -	1.03 -	1.04 -	1.03 -	5.22 -
A1P3-C-07-07RM	1.22 -	0.98 -	0.96 -	0.98 -	8.26 -
A1P3-C-07-08RM	1.51 -	1.27 -	1.26 -	1.27 -	4.31 J
A1P3-C-07-08RM-D	1.47 -	1.24 -	1.22 -	1.24 -	10.60 J
A1P3-C-07-09RM	1.22 -	0.98 -	1.00 -	0.98 -	7.68 -
A1P3-C-07-11RM	1.19 -	0.88 -	0.87 -	0.88 -	6.34 -
A1P3-C-07-12RM	0.99 -	0.90 -	0.89 -	0.90 -	7.28 -
A1P3-C-07-13RM	1.29 -	1.06 -	1.03 -	1.06 -	3.81 U
A1P3-C-07-14RM	1.12 -	0.90 -	0.89 -	0.90 -	2.59 J
A1P3-C-07-15RM	1.38 -	1.13 -	1.13 -	1.13 -	3.77 J
FRL	1.70	1.80	1.70	1.50	82
Units	pCi/g	pCi/g	pCi/g	pCi/g	ug/g
Confidence Level	95%	95%	95%	95%	95%
Max Result	1.51 @	1.27 @	1.26 @	1.27 @	10.60 @
W-Statistic Probability*	--	--	--	--	--
Test Procedure	--	--	--	--	--
Sample Size	12	12	12	12	12
Estimated Mean	--	--	--	--	--
UCL on the Mean**	--	--	--	--	--
Non-Parametric Prob.	--	--	--	--	--
Est. Mean - Pass / Fail	--	--	--	--	--
2x Rule Pass / Fail	Pass	Pass	Pass	Pass	Pass
a posteriori Sample	--	--	--	--	--
Size calculation	--	--	--	--	--

Definition of Qualifiers
J" = estimated result
UJ" = not detected, estimated
U" = not detected
- " = no data qualifier
NV" = not validated
UNV" = not detected, not validated

NOTES:
(1) Maximum result did not exceed the FRL, therefore no statistics were generated and no other tests performed.
(2) The maximum value of the two duplicates was used in all statistical equations.
(3) * W-Statistic Probability is the highest calculated probability of the Shapiro-Wilk W-statistic for tests for the validity of the normality assumption. The test is performed on the raw data (untransformed) data (Normal) and the log-transformed data (LogNormal) to test for lognormality.
(4) ** Estimated Mean = Estimated measure of central tendency (Normal: Mean; LogNormal: Est. Mean; Non-Parametric: Median).

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TABLE C-9: Certification Statistics for A1P3-C-08

	PRIMARY COCs				
Sample ID	Radium-226	Radium-228	Thorium-228	Thorium-232	Uranium, Total
A1P3-C-08-01RM	1.22 -	0.91 -	0.89 -	0.91 -	5.69 -
A1P3-C-08-03RM	1.26 -	0.97 -	0.92 -	0.97 -	10.11 -
A1P3-C-08-04RM	1.06 -	0.79 -	0.80 -	0.79 -	12.58 -
A1P3-C-08-05RM	0.95 -	0.72 -	0.70 -	0.72 -	7.62 -
A1P3-C-08-06RM	1.14 -	0.84 -	0.83 -	0.84 -	10.90 -
A1P3-C-08-08RM	1.03 -	0.73 -	0.71 -	0.73 -	8.04 -
A1P3-C-08-09RM	1.31 -	1.05 -	1.04 -	1.05 -	8.28 -
A1P3-C-08-11RM	1.16 -	0.93 -	0.93 -	0.93 -	7.74 -
A1P3-C-08-12RM	1.19 -	0.96 -	0.96 -	0.96 -	8.98 -
A1P3-C-08-13RM	1.09 -	0.87 -	0.86 -	0.87 -	9.67 -
A1P3-C-08-14RM	1.13 -	0.87 -	0.86 -	0.87 -	9.66 -
A1P3-C-08-16RM	1.36 -	1.04 -	1.04 -	1.04 -	9.26 -
A1P3-C-08-16RM-D	1.28 -	1.03 -	1.03 -	1.03 -	7.27 -
FRL	1.70	1.80	1.70	1.50	82
Units	pCi/g	pCi/g	pCi/g	pCi/g	ug/g
Confidence Level	95%	95%	95%	95%	95%
Max Result	1.36 @	1.05 @	1.04 @	1.05 @	12.58 @
W-Statistic Probability*	--	--	--	--	--
Test Procedure	--	--	--	--	--
Sample Size	12	12	12	12	12
Estimated Mean	--	--	--	--	--
UCL on the Mean**	--	--	--	--	--
Non-Parametric Prob.	--	--	--	--	--
Est. Mean - Pass / Fail	--	--	--	--	--
2x Rule Pass / Fail	Pass	Pass	Pass	Pass	Pass
a posteriori Sample	--	--	--	--	--
Size calculation	--	--	--	--	--

Definition of Qualifiers
J" = estimated result
UJ" = not detected, estimated
U" = not detected
- " = no data qualifier
NV" = not validated
UNV" = not detected, not validated

NOTES:
(1) Maximum result did not exceed the FRL, therefore no statistics were generated and no other tests performed.
(2) The maximum value of the two duplicates was used in all statistical equations.
(3) * W-Statistic Probability is the highest calculated probability of the Shapiro-Wilk W-statistic for tests for the validity of the normality assumption. The test is performed on the raw data (untransformed) data (Normal) and the log-transformed data (LogNormal) to test for lognormality.
(4) ** Estimated Mean = Estimated measure of central tendency (Normal: Mean; LogNormal: Est. Mean; Non-Parametric: Median).

TABLE C-10: Certification Statistics for A1P3-C-09

	PRIMARY COCs				
Sample ID	Radium-226	Radium-228	Thorium-228	Thorium-232	Uranium, Total
A1P3-C-09-01RM	1.18 -	0.84 J	0.83 -	0.84 J	4.99 -
A1P3-C-09-02RM	1.06 -	0.91 -	0.90 -	0.91 -	7.33 -
A1P3-C-09-03RM	1.17 -	0.99 -	0.98 -	0.99 -	7.86 -
A1P3-C-09-05RM	1.29 -	1.12 -	1.11 -	1.12 -	6.01 -
A1P3-C-09-05RM-D	1.32 -	0.97 -	0.96 -	0.97 -	8.28 -
A1P3-C-09-06RM	1.34 -	1.11 -	1.09 -	1.11 -	6.95 -
A1P3-C-09-07RM	1.36 -	1.13 -	1.11 -	1.13 -	3.00 U
A1P3-C-09-09RM	1.15 -	1.00 -	0.96 -	1.00 -	6.34 -
A1P3-C-09-11RM	1.26 -	1.10 -	1.08 -	1.10 -	7.78 -
A1P3-C-09-12RM	1.25 -	1.00 -	0.98 -	1.00 -	4.98 -
A1P3-C-09-13RM	1.16 -	0.99 -	0.97 -	0.99 -	7.16 -
A1P3-C-09-14RM	1.23 -	1.06 -	1.02 -	1.06 -	5.11 -
A1P3-C-09-16RM	1.32 -	1.05 -	1.05 -	1.05 -	7.68 -
FRL	1.70	1.80	1.70	1.50	82
Units	pCi/g	pCi/g	pCi/g	pCi/g	ug/g
Confidence Level	95%	95%	95%	95%	95%
Max Result	1.36 @	1.13 @	1.11 @	1.13 @	8.28 @
W-Statistic Probability*	--	--	--	--	--
Test Procedure	--	--	--	--	--
Sample Size	12	12	12	12	12
Estimated Mean	--	--	--	--	--
UCL on the Mean**	--	--	--	--	--
Non-Parametric Prob.	--	--	--	--	--
Est. Mean - Pass / Fail	--	--	--	--	--
2x Rule Pass / Fail	Pass	Pass	Pass	Pass	Pass
a posteriori Sample	--	--	--	--	--
Size calculation	--	--	--	--	--

Definition of Qualifiers
J" = estimated result
UJ" = not detected, estimated
U" = not detected
- " = no data qualifier
NV" = not validated
UNV" = not detected, not validated

NOTES:
(1) Maximum result did not exceed the FRL, therefore no statistics were generated and no other tests performed.
(2) The maximum value of the two duplicates was used in all statistical equations.
(3) * W-Statistic Probability is the highest calculated probability of the Shapiro-Wilk W-statistic for tests for the validity of the normality assumption. The test is performed on the raw data (untransformed) data (Normal) and the log-transformed data (LogNormal) to test for lognormality.
(4) ** Estimated Mean = Estimated measure of central tendency (Normal: Mean; LogNormal: Est. Mean; Non-Parametric: Median).

TABLE C-11: Certification Statistics for A1P3-C-10

	PRIMARY COCs				
Sample ID	Radium-226	Radium-228	Thorium-228	Thorium-232	Uranium, Total
A1P3-C-10-02RM	1.04 -	1.02 -	0.97 -	1.02 -	7.42 -
A1P3-C-10-03RM	1.31 -	0.93 -	0.93 -	0.93 -	5.40 -
A1P3-C-10-04RM	1.19 -	0.98 -	0.95 -	0.98 -	7.87 -
A1P3-C-10-06RM	1.24 -	1.01 -	1.01 -	1.01 -	14.04 -
A1P3-C-10-07RM	1.08 -	0.98 -	0.96 -	0.98 -	9.67 -
A1P3-C-10-08RM	1.22 -	1.02 -	1.00 -	1.02 -	4.96 -
A1P3-C-10-08RM-D	1.28 -	1.13 -	1.12 -	1.13 -	4.84 J
A1P3-C-10-09RM	1.33 -	1.09 -	1.08 -	1.09 -	6.17 -
A1P3-C-10-11RM	1.28 -	1.08 -	1.05 -	1.08 -	9.20 -
A1P3-C-10-12RM	1.22 -	1.06 -	1.04 -	1.06 -	6.91 -
A1P3-C-10-13RM	0.95 -	0.97 -	0.93 -	0.97 -	7.74 -
A1P3-C-10-14RM	1.09 -	0.91 -	0.87 -	0.91 -	8.23 -
A1P3-C-10-16RM	1.29 -	1.04 -	1.03 -	1.04 -	8.47 -
FRL	1.70	1.80	1.70	1.50	82
Units	pCi/g	pCi/g	pCi/g	pCi/g	ug/g
Confidence Level	95%	95%	95%	95%	95%
Max Result	1.33 @	1.13 @	1.12 @	1.13 @	14.04 @
W-Statistic Probability*	--	--	--	--	--
Test Procedure	--	--	--	--	--
Sample Size	12	12	12	12	12
Estimated Mean	--	--	--	--	--
UCL on the Mean**	--	--	--	--	--
Non-Parametric Prob.	--	--	--	--	--
Est. Mean - Pass / Fail	--	--	--	--	--
2x Rule Pass / Fail	Pass	Pass	Pass	Pass	Pass
a posteriori Sample	--	--	--	--	--
Size calculation	--	--	--	--	--

Definition of Qualifiers
J" = estimated result
UJ" = not detected, estimated
U" = not detected
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NV" = not validated
UNV" = not detected, not validated

NOTES:
(1) Maximum result did not exceed the FRL, therefore no statistics were generated and no other tests performed.
(2) The maximum value of the two duplicates was used in all statistical equations.
(3) * W-Statistic Probability is the highest calculated probability of the Shapiro-Wilk W-statistic for tests for the validity of the normality assumption. The test is performed on the raw data (untransformed) data (Normal) and the log-transformed data (LogNormal) to test for lognormality.
(4) ** Estimated Mean = Estimated measure of central tendency (Normal: Mean; LogNormal: Est. Mean; Non-Parametric: Median).

TABLE C-12: Certification Statistics for A1P3-C-11

	PRIMARY COCs				
Sample ID	Radium-226	Radium-228	Thorium-228	Thorium-232	Uranium, Total
A1P3-C-11-01RM	1.17 -	0.96 -	0.93 -	0.96 -	5.96 -
A1P3-C-11-02RM	1.30 -	1.08 -	1.07 -	1.08 -	6.43 -
A1P3-C-11-04RM	1.25 -	1.06 -	1.12 -	1.06 -	8.96 -
A1P3-C-11-06RM	1.12 -	0.94 -	0.93 -	0.94 -	7.08 -
A1P3-C-11-07RM	1.37 -	1.17 -	1.15 -	1.17 -	7.39 -
A1P3-C-11-08RM	1.23 -	1.03 -	1.05 -	1.03 -	12.29 -
A1P3-C-11-09RM	1.30 -	1.09 -	1.10 -	1.09 -	11.37 -
A1P3-C-11-09RM-D	1.33 -	1.02 -	1.00 -	1.02 -	8.15 -
A1P3-C-11-10RM	1.28 -	1.00 -	0.98 -	1.00 -	9.71 -
A1P3-C-11-12RM	1.39 -	1.07 -	1.03 -	1.07 -	8.63 -
A1P3-C-11-14RM	1.10 -	0.98 -	0.98 -	0.98 -	7.81 -
A1P3-C-11-15RM	1.06 -	0.90 -	0.87 -	0.90 -	8.13 -
A1P3-C-11-16RM	1.01 -	0.94 -	0.95 -	0.94 -	9.24 -
FRL	1.70	1.80	1.70	1.50	82
Units	pCi/g	pCi/g	pCi/g	pCi/g	ug/g
Confidence Level	95%	95%	95%	95%	95%
Max Result	1.39 @	1.17 @	1.15 @	1.17 @	12.29 @
W-Statistic Probability*	--	--	--	--	--
Test Procedure	--	--	--	--	--
Sample Size	12	12	12	12	12
Estimated Mean	--	--	--	--	--
UCL on the Mean**	--	--	--	--	--
Non-Parametric Prob.	--	--	--	--	--
Est. Mean - Pass / Fail	--	--	--	--	--
2x Rule Pass / Fail	Pass	Pass	Pass	Pass	Pass
a posteriori Sample	--	--	--	--	--
Size calculation	--	--	--	--	--

Definition of Qualifiers
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UJ" = not detected, estimated
U" = not detected
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UNV" = not detected, not validated

NOTES:
(1) Maximum result did not exceed the FRL, therefore no statistics were generated and no other tests performed.
(2) The maximum value of the two duplicates was used in all statistical equations.
(3) * W-Statistic Probability is the highest calculated probability of the Shapiro-Wilk W-statistic for tests for the validity of the normality assumption. The test is performed on the raw data (untransformed) data (Normal) and the log-transformed data (LogNormal) to test for lognormality.
(4) ** Estimated Mean = Estimated measure of central tendency (Normal: Mean; LogNormal: Est. Mean; Non-Parametric: Median).

TABLE C-13: Certification Statistics for A1P3-C-12

	PRIMARY COCs				
Sample ID	Radium-226	Radium-228	Thorium-228	Thorium-232	Uranium, Total
A1P3-C-12-02RM	1.24 -	0.90 -	0.90 -	0.90 -	8.64 -
A1P3-C-12-02RM-D	1.22 -	1.00 -	0.95 -	1.00 -	6.09 -
A1P3-C-12-03RM	1.09 -	0.99 -	0.98 -	0.99 -	7.63 -
A1P3-C-12-04RM	1.17 -	0.93 -	0.91 -	0.93 -	5.41 -
A1P3-C-12-05RM	0.99 -	0.85 -	0.84 -	0.85 -	5.99 -
A1P3-C-12-07RM	1.27 -	1.06 -	1.03 -	1.06 -	8.30 -
A1P3-C-12-08RM	1.07 -	1.02 -	1.00 -	1.02 -	4.59 -
A1P3-C-12-09RM	1.07 -	0.81 -	0.79 -	0.81 -	7.65 -
A1P3-C-12-10RM	1.27 -	0.98 -	0.95 -	0.98 -	7.75 -
A1P3-C-12-12RM	1.15 -	0.92 -	0.90 -	0.92 -	6.56 -
A1P3-C-12-13RM	1.15 -	1.05 -	1.02 -	1.05 -	11.36 -
A1P3-C-12-14RM	1.12 -	1.04 -	1.01 -	1.04 -	9.85 -
A1P3-C-12-16RM	1.14 -	1.04 -	1.00 -	1.04 -	9.35 -
FRL	1.70	1.80	1.70	1.50	82
Units	pCi/g	pCi/g	pCi/g	pCi/g	ug/g
Confidence Level	95%	95%	95%	95%	95%
Max Result	1.27 @	1.06 @	1.03 @	1.06 @	11.36 @
W-Statistic Probability*	--	--	--	--	--
Test Procedure	--	--	--	--	--
Sample Size	12	12	12	12	12
Estimated Mean	--	--	--	--	--
UCL on the Mean**	--	--	--	--	--
Non-Parametric Prob.	--	--	--	--	--
Est. Mean - Pass / Fail	--	--	--	--	--
2x Rule Pass / Fail	Pass	Pass	Pass	Pass	Pass
a posteriori Sample	--	--	--	--	--
Size calculation	--	--	--	--	--

Definition of Qualifiers
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UJ" = not detected, estimated
U" = not detected
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NV" = not validated
UNV" = not detected, not validated

NOTES:

(1) Maximum result did not exceed the FRL, therefore no statistics were generated and no other tests performed.

(2) The maximum value of the two duplicates was used in all statistical equations.

(3) * W-Statistic Probability is the highest calculated probability of the Shapiro-Wilk W-statistic for tests for the validity of the normality assumption. The test is performed on the raw data (untransformed) data (Normal) and the log-transformed data (LogNormal) to test for lognormality.

(4) ** Estimated Mean = Estimated measure of central tendency (Normal: Mean; LogNormal: Est. Mean; Non-Parametric: Median).

TABLE C-14: Certification Statistics for A1P3-C-13

	PRIMARY COCs				
Sample ID	Radium-226	Radium-228	Thorium-228	Thorium-232	Uranium, Total
A1P3-C-13-01RM	1.30 -	1.14 -	1.11 -	1.14 -	8.83 -
A1P3-C-13-02RM	1.31 -	1.04 -	1.01 -	1.04 -	10.52 -
A1P3-C-13-04RM	1.20 -	1.05 -	1.02 -	1.05 -	9.52 -
A1P3-C-13-05RM	1.07 -	0.94 -	0.93 -	0.94 -	12.14 -
A1P3-C-13-06RM	1.11 -	1.07 -	1.01 -	1.07 -	10.59 -
A1P3-C-13-08RM	1.14 -	1.02 -	1.00 -	1.02 -	10.02 -
A1P3-C-13-09RM	1.19 -	1.02 -	1.01 -	1.02 -	11.72 -
A1P3-C-13-09RM-D	1.17 -	1.01 -	1.00 -	1.01 -	12.96 -
A1P3-C-13-11RM	1.18 -	1.06 -	1.02 -	1.06 -	11.33 -
A1P3-C-13-12RM	1.30 -	1.10 -	1.09 -	1.10 -	11.51 -
A1P3-C-13-14RM	1.22 -	1.15 -	1.12 -	1.15 -	12.67 -
A1P3-C-13-15RM	1.17 -	1.03 -	1.01 -	1.03 -	16.12 -
A1P3-C-13-16RM	1.23 -	1.16 -	1.17 -	1.16 -	9.80 -
FRL	1.70	1.80	1.70	1.50	82
Units	pCi/g	pCi/g	pCi/g	pCi/g	ug/g
Confidence Level	95%	95%	95%	95%	95%
Max Result	1.31 @	1.16 @	1.17 @	1.16 @	16.12 @
W-Statistic Probability*	--	--	--	--	--
Test Procedure	--	--	--	--	--
Sample Size	12	12	12	12	12
Estimated Mean	--	--	--	--	--
UCL on the Mean**	--	--	--	--	--
Non-Parametric Prob.	--	--	--	--	--
Est. Mean - Pass / Fail	--	--	--	--	--
2x Rule Pass / Fail	Pass	Pass	Pass	Pass	Pass
a posteriori Sample	--	--	--	--	--
Size calculation	--	--	--	--	--

Definition of Qualifiers
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UJ" = not detected, estimated
U" = not detected
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UNV" = not detected, not validated

NOTES:
(1) Maximum result did not exceed the FRL, therefore no statistics were generated and no other tests performed.
(2) The maximum value of the two duplicates was used in all statistical equations.
(3) * W-Statistic Probability is the highest calculated probability of the Shapiro-Wilk W-statistic for tests for the validity of the normality assumption. The test is performed on the raw data (untransformed) data (Normal) and the log-transformed data (LogNormal) to test for lognormality.
(4) ** Estimated Mean = Estimated measure of central tendency (Normal: Mean; LogNormal: Est. Mean; Non-Parametric: Median).

TABLE C-15: Certification Statistics for A1P3-C-14

	PRIMARY COCs					
Sample ID	Radium-226	Radium-228	Thorium-228	Thorium-232	Uranium, Total	Beryllium
A1P3-C-14-02RM	1.13 -	1.00 -	1.01 -	1.00 -	7.82 -	0.23 -
A1P3-C-14-03RM	1.15 -	0.88 J	0.87 J	0.88 J	8.42 -	0.03 U
A1P3-C-14-03RM-D	1.18 -	1.08 J	1.08 J	1.08 J	8.34 -	0.03 U
A1P3-C-14-04RM	1.08 -	0.98 -	0.97 -	0.98 -	9.35 -	0.26 -
A1P3-C-14-06RM	1.18 -	0.96 -	0.89 -	0.96 -	10.48 -	0.22 -
A1P3-C-14-07RM	1.33 -	0.99 -	0.97 -	0.99 -	8.80 -	0.53 -
A1P3-C-14-08RM	1.37 -	0.95 -	0.93 -	0.95 -	11.61 -	0.66 -
A1P3-C-14-09RM	1.19 -	0.97 -	0.97 -	0.97 -	8.43 -	0.23 -
A1P3-C-14-10RM	1.37 -	1.06 -	1.06 -	1.06 -	3.38 U	0.41 -
A1P3-C-14-11RM	1.17 -	0.95 -	0.92 -	0.95 -	6.90 -	0.03 U
A1P3-C-14-13RM	1.19 -	1.13 -	1.14 -	1.13 -	12.64 -	0.41 -
A1P3-C-14-15RM	1.31 -	1.04 -	1.01 -	1.04 -	15.56 -	0.37 -
A1P3-C-14-16RM	1.07 -	0.84 -	0.82 -	0.84 -	10.79 -	0.22 -
FRL	1.70	1.80	1.70	1.50	82	1.50
Units	pCi/g	pCi/g	pCi/g	pCi/g	ug/g	ug/g
Confidence Level	95%	95%	95%	95%	95%	90%
Max Result	1.37 @	1.13 @	1.14 @	1.13 @	15.56 @	0.66 @
W-Statistic Probability*	--	--	--	--	--	--
Test Procedure	--	--	--	--	--	--
Sample Size	12	12	12	12	12	12
Estimated Mean	--	--	--	--	--	--
UCL on the Mean**	--	--	--	--	--	--
Non-Parametric Prob.	--	--	--	--	--	--
Est. Mean - Pass / Fail	--	--	--	--	--	--
2x Rule Pass / Fail	Pass	Pass	Pass	Pass	Pass	Pass
a posteriori Sample	--	--	--	--	--	--
Size calculation	--	--	--	--	--	--

Definition of Qualifiers
J" = estimated result
UJ" = not detected, estimated
U" = not detected
- " = no data qualifier
NV" = not validated
UNV" = not detected, not validated

NOTES:
(1) Maximum result did not exceed the FRL, therefore no statistics were generated and no other tests performed.
(2) The maximum value of the two duplicates was used in all statistical equations.
(3) * W-Statistic Probability is the highest calculated probability of the Shapiro-Wilk W-statistic for tests for the validity of the normality assumption. The test is performed on the raw data (untransformed) data (Normal) and the log-transformed data (LogNormal) to test for lognormality.
(4) ** Estimated Mean = Estimated measure of central tendency (Normal: Mean; LogNormal: Est. Mean; Non-Parametric: Median).

TABLE C-16: Certification Statistics for A1P3-C-15

	PRIMARY COCs					
Sample ID	Radium-226	Radium-228	Thorium-228	Thorium-232	Uranium, Total	Beryllium
A1P3-C-15-01RM	1.23 -	1.08 -	1.09 -	1.08 -	17.51 -	0.03 U
A1P3-C-15-03RM	1.15 -	0.94 -	0.94 -	0.94 -	15.30 -	0.03 U
A1P3-C-15-04RM	1.45 -	1.06 -	1.05 -	1.06 -	14.63 -	0.37 -
A1P3-C-15-05RM	1.27 -	0.96 -	0.94 -	0.96 -	12.40 -	0.15 -
A1P3-C-15-07RM	1.18 -	0.96 -	0.93 -	0.96 -	13.91 -	0.23 -
A1P3-C-15-08RM	1.25 -	1.05 -	1.02 -	1.05 -	8.00 -	0.22 -
A1P3-C-15-10RM	1.38 -	1.14 -	1.14 -	1.14 -	16.85 -	0.36 -
A1P3-C-15-11RM	1.15 -	0.99 -	0.98 -	0.99 -	11.60 -	0.04 -
A1P3-C-15-12RM	1.29 -	1.09 -	1.03 -	1.09 -	20.67 -	0.16 -
A1P3-C-15-14RM	1.17 -	0.96 -	0.95 -	0.96 -	15.24 -	0.03 U
A1P3-C-15-15RM	1.50 -	1.14 -	1.10 -	1.14 -	12.40 -	0.36 -
A1P3-C-15-16RM	1.36 -	1.21 -	1.20 -	1.21 -	16.92 -	0.50 -
A1P3-C-15-16RM-D	1.28 -	1.13 -	1.10 -	1.13 -	15.38 -	0.47 -
FRL	1.70	1.80	1.70	1.50	82	1.50
Units	pCi/g	pCi/g	pCi/g	pCi/g	ug/g	ug/g
Confidence Level	95%	95%	95%	95%	95%	90%
Max Result	1.50 @	1.21 @	1.20 @	1.21 @	20.67 @	0.50 @
W-Statistic Probability*	--	--	--	--	--	--
Test Procedure	--	--	--	--	--	--
Sample Size	12	12	12	12	12	12
Estimated Mean	--	--	--	--	--	--
UCL on the Mean**	--	--	--	--	--	--
Non-Parametric Prob.	--	--	--	--	--	--
Est. Mean - Pass / Fail	--	--	--	--	--	--
2x Rule Pass / Fail	Pass	Pass	Pass	Pass	Pass	Pass
a posteriori Sample	--	--	--	--	--	--
Size calculation	--	--	--	--	--	--

Definition of Qualifiers
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UJ" = not detected, estimated
U" = not detected
- " = no data qualifier
NV" = not validated
UNV" = not detected, not validated

NOTES:
(1) Maximum result did not exceed the FRL, therefore no statistics were generated and no other tests performed.
(2) The maximum value of the two duplicates was used in all statistical equations.
(3) * W-Statistic Probability is the highest calculated probability of the Shapiro-Wilk W-statistic for tests for the validity of the normality assumption. The test is performed on the raw data (untransformed) data (Normal) and the log-transformed data (LogNormal) to test for lognormality.
(4) ** Estimated Mean = Estimated measure of central tendency (Normal: Mean; LogNormal: Est. Mean; Non-Parametric: Median).

TABLE C-17: Certification Statistics for A1P3-C-16

	PRIMARY COCs					
Sample ID	Radium-226	Radium-228	Thorium-228	Thorium-232	Uranium, Total	Beryllium
A1P3-C-16-01RM	1.26 -	0.98 -	0.97 -	0.98 -	9.70 -	0.32 -
A1P3-C-16-02RM	1.23 -	1.17 -	1.15 -	1.17 -	9.71 -	0.16 -
A1P3-C-16-03RM	1.09 -	0.68 -	0.68 -	0.68 -	6.68 -	0.18 -
A1P3-C-16-05RM	1.17 -	1.00 -	0.99 -	1.00 -	24.90 -	0.29 -
A1P3-C-16-06RM	1.14 -	0.95 -	0.93 -	0.95 -	47.49 -	0.05 -
A1P3-C-16-08RM	1.29 -	1.02 -	1.00 -	1.02 -	22.85 -	0.31 -
A1P3-C-16-09RM	1.31 -	1.06 -	1.04 -	1.06 -	14.74 -	0.09 -
A1P3-C-16-10RM	1.19 -	0.94 -	0.94 -	0.94 -	25.13 -	0.31 -
A1P3-C-16-12RM	1.26 -	1.05 -	1.03 -	1.05 -	15.82 -	0.30 -
A1P3-C-16-12RM-D	1.34 -	1.06 -	1.05 -	1.06 -	14.97 -	0.26 -
A1P3-C-16-13RM	1.00 -	0.67 -	0.62 -	0.67 -	24.24 -	0.17 -
A1P3-C-16-14RM	1.04 -	0.80 -	0.79 -	0.80 -	19.40 -	0.19 -
A1P3-C-16-16RM	0.92 -	0.77 -	0.76 -	0.77 -	30.47 -	0.30 -
FRL	1.70	1.80	1.70	1.50	82	1.50
Units	pCi/g	pCi/g	pCi/g	pCi/g	ug/g	ug/g
Confidence Level	95%	95%	95%	95%	95%	90%
Max Result	1.34 @	1.17 @	1.15 @	1.17 @	47.49 @	0.32 @
W-Statistic Probability*	--	--	--	--	--	--
Test Procedure	--	--	--	--	--	--
Sample Size	12	12	12	12	12	12
Estimated Mean	--	--	--	--	--	--
UCL on the Mean**	--	--	--	--	--	--
Non-Parametric Prob.	--	--	--	--	--	--
Est. Mean - Pass / Fail	--	--	--	--	--	--
2x Rule Pass / Fail	Pass	Pass	Pass	Pass	Pass	Pass
a posteriori Sample	--	--	--	--	--	--
Size calculation	--	--	--	--	--	--

Definition of Qualifiers
J" = estimated result
UJ" = not detected, estimated
U" = not detected
- " = no data qualifier
NV" = not validated
UNV" = not detected, not validated

NOTES:
(1) Maximum result did not exceed the FRL, therefore no statistics were generated and no other tests performed.
(2) The maximum value of the two duplicates was used in all statistical equations.
(3) * W-Statistic Probability is the highest calculated probability of the Shapiro-Wilk W-statistic for tests for the validity of the normality assumption. The test is performed on the raw data (untransformed) data (Normal) and the log-transformed data (LogNormal) to test for lognormality.
(4) ** Estimated Mean = Estimated measure of central tendency (Normal: Mean; LogNormal: Est. Mean; Non-Parametric: Median).

TABLE C-18: Certification Statistics for A1P3-C-17

	PRIMARY COCs				
Sample ID	Radium-226	Radium-228	Thorium-228	Thorium-232	Uranium, Total
A1P3-C-17-01RM	1.10 -	0.95 -	0.93 -	0.95 -	11.90 -
A1P3-C-17-02RM	1.29 -	1.04 -	1.02 -	1.04 -	12.01 -
A1P3-C-17-04RM	1.21 -	0.93 -	0.92 -	0.93 -	9.15 -
A1P3-C-17-06RM	1.23 -	1.22 -	1.20 -	1.22 -	14.01 -
A1P3-C-17-07RM	1.25 -	1.09 -	1.09 -	1.09 -	8.53 -
A1P3-C-17-08RM	1.17 -	1.14 -	1.13 -	1.14 -	11.67 -
A1P3-C-17-09RM	1.18 -	0.99 -	0.97 -	0.99 -	15.79 -
A1P3-C-17-10RM	1.29 -	1.11 -	1.12 -	1.11 -	7.76 -
A1P3-C-17-12RM	1.19 -	1.07 -	1.04 -	1.07 -	3.82 U
A1P3-C-17-14RM	1.21 -	0.92 -	0.89 -	0.92 -	5.34 J
A1P3-C-17-15RM	1.24 -	1.01 -	0.98 -	1.01 -	17.24 -
A1P3-C-17-16RM	1.29 -	1.14 -	1.13 -	1.14 -	12.38 -
A1P3-C-17-16RM-D	1.22 -	1.16 -	1.16 -	1.16 -	9.29 -
FRL	1.70	1.80	1.70	1.50	82
Units	pCi/g	pCi/g	pCi/g	pCi/g	ug/g
Confidence Level	95%	95%	95%	95%	95%
Max Result	1.29 @	1.22 @	1.20 @	1.22 @	17.24 @
W-Statistic Probability*	--	--	--	--	--
Test Procedure	--	--	--	--	--
Sample Size	12	12	12	12	12
Estimated Mean	--	--	--	--	--
UCL on the Mean**	--	--	--	--	--
Non-Parametric Prob.	--	--	--	--	--
Est. Mean - Pass / Fail	--	--	--	--	--
2x Rule Pass / Fail	Pass	Pass	Pass	Pass	Pass
a posteriori Sample	--	--	--	--	--
Size calculation	--	--	--	--	--

Definition of Qualifiers
J" = estimated result
UJ" = not detected, estimated
U" = not detected
- " = no data qualifier
NV" = not validated
UNV" = not detected, not validated

NOTES:
(1) Maximum result did not exceed the FRL, therefore no statistics were generated and no other tests performed.
(2) The maximum value of the two duplicates was used in all statistical equations.
(3) * W-Statistic Probability is the highest calculated probability of the Shapiro-Wilk W-statistic for tests for the validity of the normality assumption. The test is performed on the raw data (untransformed) data (Normal) and the log-transformed data (LogNormal) to test for lognormality.
(4) ** Estimated Mean = Estimated measure of central tendency (Normal: Mean; LogNormal: Est. Mean; Non-Parametric: Median).

TABLE C-19: Certification Statistics for A1P3-C-18

	PRIMARY COCs				
Sample ID	Radium-226	Radium-228	Thorium-228	Thorium-232	Uranium, Total
A1P3-C-18-01RM	1.20 -	1.07 -	1.08 -	1.07 -	15.10 -
A1P3-C-18-02RM	1.06 -	0.96 -	0.93 -	0.96 -	8.03 -
A1P3-C-18-04RM	1.24 -	1.08 -	1.02 -	1.08 -	9.59 -
A1P3-C-18-05RM	1.19 -	1.00 -	1.00 -	1.00 -	4.75 -
A1P3-C-18-07RM	1.34 -	1.08 -	1.06 -	1.08 -	12.42 -
A1P3-C-18-08RM	1.21 -	1.00 -	0.99 -	1.00 -	15.14 -
A1P3-C-18-09RM	1.18 -	1.10 -	1.10 -	1.10 -	11.97 -
A1P3-C-18-09RM-D	1.05 -	1.09 -	1.09 -	1.09 -	8.69 -
A1P3-C-18-11RM	1.31 J	1.06 -	1.04 -	1.06 -	10.31 -
A1P3-C-18-12RM	1.24 -	1.09 -	1.08 -	1.09 -	12.01 -
A1P3-C-18-13RM	1.24 -	1.03 -	1.05 -	1.03 -	12.49 -
A1P3-C-18-14RM	1.27 -	1.10 -	1.07 -	1.10 -	7.91 -
A1P3-C-18-16RM	1.25 -	1.03 -	1.03 -	1.03 -	14.52 -
FRL	1.70	1.80	1.70	1.50	82
Units	pCi/g	pCi/g	pCi/g	pCi/g	ug/g
Confidence Level	95%	95%	95%	95%	95%
Max Result	1.34 @	1.10 @	1.10 @	1.10 @	15.14 @
W-Statistic Probability*	--	--	--	--	--
Test Procedure	--	--	--	--	--
Sample Size	12	12	12	12	12
Estimated Mean	--	--	--	--	--
UCL on the Mean**	--	--	--	--	--
Non-Parametric Prob.	--	--	--	--	--
Est. Mean - Pass / Fail	--	--	--	--	--
2x Rule Pass / Fail	Pass	Pass	Pass	Pass	Pass
a posteriori Sample	--	--	--	--	--
Size calculation	--	--	--	--	--

Definition of Qualifiers
J" = estimated result
UJ" = not detected, estimated
U" = not detected
- " = no data qualifier
NV" = not validated
UNV" = not detected, not validated

NOTES:

(1) Maximum result did not exceed the FRL, therefore no statistics were generated and no other tests performed.

(2) The maximum value of the two duplicates was used in all statistical equations.

(3) * W-Statistic Probability is the highest calculated probability of the Shapiro-Wilk W-statistic for tests for the validity of the normality assumption. The test is performed on the raw data (untransformed) data (Normal) and the log-transformed data (LogNormal) to test for lognormality.

(4) ** Estimated Mean = Estimated measure of central tendency (Normal: Mean; LogNormal: Est. Mean; Non-Parametric: Median).

TABLE C-20: Certification Statistics for A1P3-C-19

	PRIMARY COCs					
Sample ID	Radium-226	Radium-228	Thorium-228	Thorium-232	Uranium, Total	Beryllium
A1P3-C-19-01RM	1.21 -	1.14 -	1.13 -	1.14 -	13.76 -	0.54 -
A1P3-C-19-03RM	1.28 -	1.10 -	1.08 -	1.10 -	17.95 -	0.49 -
A1P3-C-19-04RM	1.15 -	1.10 -	1.12 -	1.10 -	13.78 -	0.48 -
A1P3-C-19-05RM	1.13 -	0.90 -	0.88 -	0.90 -	15.86 -	0.18 -
A1P3-C-19-06RM	1.12 -	1.04 -	1.03 -	1.04 -	14.93 -	0.32 -
A1P3-C-19-07RM	1.13 -	1.03 -	1.03 -	1.03 -	14.43 -	0.28 -
A1P3-C-19-09RM	0.93 -	0.78 -	0.78 -	0.78 -	5.44 -	0.24 -
A1P3-C-19-10RM	0.87 -	0.78 -	0.78 -	0.78 -	13.87 -	0.04 -
A1P3-C-19-12RM	1.16 -	0.95 -	0.93 -	0.95 -	6.70 -	0.36 -
A1P3-C-19-13RM	1.17 -	0.95 -	0.94 -	0.95 -	23.63 -	0.03 -
A1P3-C-19-15RM	1.06 -	0.87 -	0.87 -	0.87 -	14.84 -	0.12 -
A1P3-C-19-15RM-D	1.00 -	0.80 -	0.80 -	0.80 -	13.59 -	0.25 -
A1P3-C-19-16RM	0.97 -	0.82 -	0.80 -	0.82 -	10.12 -	0.03 U
FRL	1.70	1.80	1.70	1.50	82	1.50
Units	pCi/g	pCi/g	pCi/g	pCi/g	ug/g	ug/g
Confidence Level	95%	95%	95%	95%	95%	90%
Max Result	1.28 @	1.14 @	1.13 @	1.14 @	23.63 @	0.54 @
W-Statistic Probability*	--	--	--	--	--	--
Test Procedure	--	--	--	--	--	--
Sample Size	12	12	12	12	12	12
Estimated Mean	--	--	--	--	--	--
UCL on the Mean**	--	--	--	--	--	--
Non-Parametric Prob.	--	--	--	--	--	--
Est. Mean - Pass / Fail	--	--	--	--	--	--
2x Rule Pass / Fail	Pass	Pass	Pass	Pass	Pass	Pass
a posteriori Sample	--	--	--	--	--	--
Size calculation	--	--	--	--	--	--

Definition of Qualifiers
J" = estimated result
UJ" = not detected, estimated
U" = not detected
- " = no data qualifier
NV" = not validated
UNV" = not detected, not validated

NOTES:
(1) Maximum result did not exceed the FRL, therefore no statistics were generated and no other tests performed.
(2) The maximum value of the two duplicates was used in all statistical equations.
(3) * W-Statistic Probability is the highest calculated probability of the Shapiro-Wilk W-statistic for tests for the validity of the normality assumption. The test is performed on the raw data (untransformed) data (Normal) and the log-transformed data (LogNormal) to test for lognormality.
(4) ** Estimated Mean = Estimated measure of central tendency (Normal: Mean; LogNormal: Est. Mean; Non-Parametric: Median).

TABLE C-21: Certification Statistics for A1P3-C-20

	PRIMARY COCs				
Sample ID	Radium-226	Radium-228	Thorium-228	Thorium-232	Uranium, Total
A1P3-C-20-01RM	1.28 -	1.09 -	1.09 -	1.09 -	5.57 -
A1P3-C-20-02RM	1.26 -	1.20 -	1.18 -	1.20 -	6.10 -
A1P3-C-20-03RM	1.31 -	1.12 -	1.12 -	1.12 -	11.31 -
A1P3-C-20-05RM	1.26 -	1.12 -	1.08 -	1.12 -	13.99 -
A1P3-C-20-06RM	1.15 -	0.97 -	0.93 -	0.97 -	7.34 -
A1P3-C-20-08RM	1.23 -	1.03 -	1.01 -	1.03 -	10.89 -
A1P3-C-20-09RM	1.35 -	1.10 -	1.07 -	1.10 -	9.57 -
A1P3-C-20-11RM	1.18 -	0.94 -	0.94 -	0.94 -	5.43 -
A1P3-C-20-12RM	1.04 -	0.89 -	0.89 -	0.89 -	4.56 -
A1P3-C-20-13RM	1.23 -	0.97 -	0.96 -	0.97 -	7.42 -
A1P3-C-20-14RM	1.08 -	0.76 -	0.76 -	0.76 -	5.38 -
A1P3-C-20-15RM	1.07 -	0.91 -	0.90 -	0.91 -	6.14 -
A1P3-C-20-15RM-D	1.10 -	0.98 -	0.97 -	0.98 -	8.03 -
FRL	1.70	1.80	1.70	1.50	82
Units	pCi/g	pCi/g	pCi/g	pCi/g	ug/g
Confidence Level	95%	95%	95%	95%	95%
Max Result	1.35 @	1.20 @	1.18 @	1.20 @	13.99 @
W-Statistic Probability*	--	--	--	--	--
Test Procedure	--	--	--	--	--
Sample Size	12	12	12	12	12
Estimated Mean	--	--	--	--	--
UCL on the Mean**	--	--	--	--	--
Non-Parametric Prob.	--	--	--	--	--
Est. Mean - Pass / Fail	--	--	--	--	--
2x Rule Pass / Fail	Pass	Pass	Pass	Pass	Pass
a posteriori Sample	--	--	--	--	--
Size calculation	--	--	--	--	--

Definition of Qualifiers
J" = estimated result
UJ" = not detected, estimated
U" = not detected
- " = no data qualifier
NV" = not validated
UNV" = not detected, not validated

NOTES:
(1) Maximum result did not exceed the FRL, therefore no statistics were generated and no other tests performed.
(2) The maximum value of the two duplicates was used in all statistical equations.
(3) * W-Statistic Probability is the highest calculated probability of the Shapiro-Wilk W-statistic for tests for the validity of the normality assumption. The test is performed on the raw data (untransformed) data (Normal) and the log-transformed data (LogNormal) to test for lognormality.
(4) ** Estimated Mean = Estimated measure of central tendency (Normal: Mean; LogNormal: Est. Mean; Non-Parametric: Median).

TABLE C-22: Certification Statistics for A1P3-C-21

	PRIMARY COCs				
Sample ID	Radium-226	Radium-228	Thorium-228	Thorium-232	Uranium, Total
A1P3-C-21-01RM	1.01 -	1.21 -	1.18 -	1.21 -	8.72 -
A1P3-C-21-02RM	0.98 -	1.16 -	1.12 -	1.16 -	9.68 -
A1P3-C-21-02RM-D	0.99 -	1.17 -	1.17 -	1.17 -	8.91 -
A1P3-C-21-03RM	0.91 -	0.86 -	0.85 -	0.86 -	5.29 -
A1P3-C-21-05RM	0.77 -	0.59 -	0.60 -	0.59 -	9.44 -
A1P3-C-21-07RM	0.82 -	0.75 -	0.71 -	0.75 -	4.83 -
A1P3-C-21-08RM	0.88 -	0.90 -	0.87 -	0.90 -	4.02 J
A1P3-C-21-09RM	0.99 -	0.92 -	0.92 -	0.92 -	9.64 -
A1P3-C-21-10RM	0.89 -	0.75 -	0.75 -	0.75 -	5.76 -
A1P3-C-21-11RM	0.89 -	0.84 -	0.85 -	0.84 -	5.09 -
A1P3-C-21-13RM	0.89 -	0.63 -	0.63 -	0.63 -	5.57 -
A1P3-C-21-15RM	1.16 -	1.14 -	1.12 -	1.14 -	11.98 -
A1P3-C-21-16RM	1.36 -	1.21 -	1.21 -	1.21 -	11.56 -
FRL	1.70	1.80	1.70	1.50	82
Units	pCi/g	pCi/g	pCi/g	pCi/g	ug/g
Confidence Level	95%	95%	95%	95%	95%
Max Result	1.36 @	1.21 @	1.21 @	1.21 @	11.98 @
W-Statistic Probability*	--	--	--	--	--
Test Procedure	--	--	--	--	--
Sample Size	12	12	12	12	12
Estimated Mean	--	--	--	--	--
UCL on the Mean**	--	--	--	--	--
Non-Parametric Prob.	--	--	--	--	--
Est. Mean - Pass / Fail	--	--	--	--	--
2x Rule Pass / Fail	Pass	Pass	Pass	Pass	Pass
a posteriori Sample Size calculation	-- --	-- --	-- --	-- --	-- --

Definition of Qualifiers
J" = estimated result
UJ" = not detected, estimated
U" = not detected
- " = no data qualifier
NV" = not validated
UNV" = not detected, not validated

NOTES:
(1) Maximum result did not exceed the FRL, therefore no statistics were generated and no other tests performed.
(2) The maximum value of the two duplicates was used in all statistical equations.
(3) * W-Statistic Probability is the highest calculated probability of the Shapiro-Wilk W-statistic for tests for the validity of the normality assumption. The test is performed on the raw data (untransformed) data (Normal) and the log-transformed data (LogNormal) to test for lognormality.
(4) ** Estimated Mean = Estimated measure of central tendency (Normal: Mean; LogNormal: Est. Mean; Non-Parametric: Median).

TABLE C-23: Certification Statistics for A1P3-C-22

	PRIMARY COCs				
Sample ID	Radium-226	Radium-228	Thorium-228	Thorium-232	Uranium, Total
A1P3-C-22-02RM	1.21 -	1.03 -	1.04 -	1.03 -	18.72 -
A1P3-C-22-03RM	1.25 -	1.15 -	1.14 -	1.15 -	11.49 -
A1P3-C-22-04RM	1.20 -	1.01 -	1.01 -	1.01 -	13.71 -
A1P3-C-22-05RM	1.30 -	1.05 -	1.04 -	1.05 -	16.23 -
A1P3-C-22-07RM	1.14 -	0.92 -	0.92 -	0.92 -	17.24 -
A1P3-C-22-08RM	0.80 -	0.48 -	0.47 -	0.48 -	7.19 -
A1P3-C-22-09RM	1.36 -	1.05 -	1.00 -	1.05 -	9.05 -
A1P3-C-22-11RM	1.33 -	1.10 -	1.10 -	1.10 -	15.98 -
A1P3-C-22-12RM	1.20 J	1.05 -	1.03 -	1.05 -	13.75 -
A1P3-C-22-12RM-D	1.39 J	1.00 -	0.99 -	1.00 -	13.78 -
A1P3-C-22-13RM	1.24 -	0.99 -	0.95 -	0.99 -	6.85 -
A1P3-C-22-15RM	1.24 -	1.00 -	1.00 -	1.00 -	7.51 -
A1P3-C-22-16RM	1.04 -	0.98 -	0.99 -	0.98 -	14.25 -
FRL	1.70	1.80	1.70	1.50	82
Units	pCi/g	pCi/g	pCi/g	pCi/g	ug/g
Confidence Level	95%	95%	95%	95%	95%
Max Result	1.39 @	1.15 @	1.14 @	1.15 @	18.72 @
W-Statistic Probability*	--	--	--	--	--
Test Procedure	--	--	--	--	--
Sample Size	12	12	12	12	12
Estimated Mean	--	--	--	--	--
UCL on the Mean**	--	--	--	--	--
Non-Parametric Prob.	--	--	--	--	--
Est. Mean - Pass / Fail	--	--	--	--	--
2x Rule Pass / Fail	Pass	Pass	Pass	Pass	Pass
a posteriori Sample	--	--	--	--	--
Size calculation	--	--	--	--	--

Definition of Qualifiers
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UJ" = not detected, estimated
U" = not detected
- " = no data qualifier
NV" = not validated
UNV" = not detected, not validated

NOTES:
(1) Maximum result did not exceed the FRL, therefore no statistics were generated and no other tests performed.
(2) The maximum value of the two duplicates was used in all statistical equations.
(3) * W-Statistic Probability is the highest calculated probability of the Shapiro-Wilk W-statistic for tests for the validity of the normality assumption. The test is performed on the raw data (untransformed) data (Normal) and the log-transformed data (LogNormal) to test for lognormality.
(4) ** Estimated Mean = Estimated measure of central tendency (Normal: Mean; LogNormal: Est. Mean; Non-Parametric: Median).

TABLE C-24: Certification Statistics for A1P3-C-23

	PRIMARY COCs					
Sample ID	Radium-226	Radium-228	Thorium-228	Thorium-232	Uranium, Total	Beryllium
A1P3-C-23-01RM	1.22 -	0.99 -	0.96 -	0.99 -	17.57 -	0.50 -
A1P3-C-23-02RM	1.29 -	0.89 -	0.85 -	0.89 -	16.87 -	0.40 -
A1P3-C-23-03RM	1.25 -	1.11 -	1.12 -	1.11 -	12.71 J	0.51 -
A1P3-C-23-03RM-D	1.34 -	1.09 -	1.08 -	1.09 -	24.17 J	0.49 -
A1P3-C-23-05RM	0.67 -	0.43 -	0.41 -	0.43 -	30.60 -	0.05 -
A1P3-C-23-06RM	1.14 -	0.91 -	0.91 -	0.91 -	15.61 -	0.32 -
A1P3-C-23-07RM	1.36 -	1.08 -	1.05 -	1.08 -	12.33 -	0.39 -
A1P3-C-23-09RM	1.29 -	1.07 -	1.03 -	1.07 -	19.51 -	0.22 -
A1P3-C-23-10RM	1.29 -	1.18 -	1.17 -	1.18 -	14.93 -	0.55 -
A1P3-C-23-11RM	0.80 -	0.49 -	0.49 -	0.49 -	6.15 -	0.03 U
A1P3-C-23-13RM	1.33 -	1.15 -	1.14 -	1.15 -	16.47 -	0.43 -
A1P3-C-23-15RM	0.97 -	0.64 -	0.63 -	0.64 -	24.47 -	0.08 -
A1P3-C-23-16RM	1.29 -	0.93 -	0.89 -	0.93 -	13.99 -	0.23 -
FRL	1.70	1.80	1.70	1.50	82	1.50
Units	pCi/g	pCi/g	pCi/g	pCi/g	ug/g	ug/g
Confidence Level	95%	95%	95%	95%	95%	90%
Max Result	1.36 @	1.18 @	1.17 @	1.18 @	30.60 @	0.55 @
W-Statistic Probability*	--	--	--	--	--	--
Test Procedure	--	--	--	--	--	--
Sample Size	12	12	12	12	12	12
Estimated Mean	--	--	--	--	--	--
UCL on the Mean**	--	--	--	--	--	--
Non-Parametric Prob.	--	--	--	--	--	--
Est. Mean - Pass / Fail	--	--	--	--	--	--
2x Rule Pass / Fail	Pass	Pass	Pass	Pass	Pass	Pass
a posteriori Sample	--	--	--	--	--	--
Size calculation	--	--	--	--	--	--

Definition of Qualifiers
J" = estimated result
UJ" = not detected, estimated
U" = not detected
- " = no data qualifier
NV" = not validated
UNV" = not detected, not validated

NOTES:
(1) Maximum result did not exceed the FRL, therefore no statistics were generated and no other tests performed.
(2) The maximum value of the two duplicates was used in all statistical equations.
(3) * W-Statistic Probability is the highest calculated probability of the Shapiro-Wilk W-statistic for tests for the validity of the normality assumption. The test is performed on the raw data (untransformed) data (Normal) and the log-transformed data (LogNormal) to test for lognormality.
(4) ** Estimated Mean = Estimated measure of central tendency (Normal: Mean; LogNormal: Est. Mean; Non-Parametric: Median).

TABLE C-25: Certification Statistics for A1P3-C-24

	PRIMARY COCs				
Sample ID	Radium-226	Radium-228	Thorium-228	Thorium-232	Uranium, Total
A1P3-C-24-01RM	0.63 -	0.51 -	0.50 -	0.51 -	2.57 U
A1P3-C-24-02RM	1.17 -	1.09 -	1.06 -	1.09 -	14.23 -
A1P3-C-24-03RM	1.11 -	0.84 -	0.83 -	0.84 -	13.41 -
A1P3-C-24-05RM	0.86 -	0.60 -	0.58 -	0.60 -	2.79 U
A1P3-C-24-06RM	1.17 -	0.89 -	0.90 -	0.89 -	7.72 -
A1P3-C-24-07RM	1.10 -	0.97 -	0.99 -	0.97 -	7.45 -
A1P3-C-24-09RM	0.92 -	0.68 -	0.67 -	0.68 -	1.96 U
A1P3-C-24-10RM	0.80 -	0.61 -	0.58 -	0.61 -	3.72 J
A1P3-C-24-11RM	1.18 -	1.05 -	1.03 -	1.05 -	8.61 -
A1P3-C-24-11RM-D	1.06 -	0.95 -	0.91 -	0.95 -	7.29 -
A1P3-C-24-14RM	1.03 -	0.89 -	0.84 -	0.89 -	8.83 -
A1P3-C-24-15RM	1.15 -	0.96 -	0.96 -	0.96 -	6.91 -
A1P3-C-24-16RM	1.03 -	0.90 -	0.89 -	0.90 -	8.43 -
FRL	1.70	1.80	1.70	1.50	82
Units	pCi/g	pCi/g	pCi/g	pCi/g	ug/g
Confidence Level	95%	95%	95%	95%	95%
Max Result	1.18 @	1.09 @	1.06 @	1.09 @	14.23 @
W-Statistic Probability*	--	--	--	--	--
Test Procedure	--	--	--	--	--
Sample Size	12	12	12	12	12
Estimated Mean	--	--	--	--	--
UCL on the Mean**	--	--	--	--	--
Non-Parametric Prob.	--	--	--	--	--
Est. Mean - Pass / Fail	--	--	--	--	--
2x Rule Pass / Fail	Pass	Pass	Pass	Pass	Pass
a posteriori Sample	--	--	--	--	--
Size calculation	--	--	--	--	--

Definition of Qualifiers
J" = estimated result
UJ" = not detected, estimated
U" = not detected
- " = no data qualifier
NV" = not validated
UNV" = not detected, not validated

NOTES:
(1) Maximum result did not exceed the FRL, therefore no statistics were generated and no other tests performed.
(2) The maximum value of the two duplicates was used in all statistical equations.
(3) * W-Statistic Probability is the highest calculated probability of the Shapiro-Wilk W-statistic for tests for the validity of the normality assumption. The test is performed on the raw data (untransformed) data (Normal) and the log-transformed data (LogNormal) to test for lognormality.
(4) ** Estimated Mean = Estimated measure of central tendency (Normal: Mean; LogNormal: Est. Mean; Non-Parametric: Median).

TABLE C-26: Certification Statistics for A1P3-C-25

	PRIMARY COCs					
Sample ID	Radium-226	Radium-228	Thorium-228	Thorium-232	Uranium, Total	Beryllium
A1P3-C-25-01RM	1.18 -	0.94 -	0.92 -	0.94 -	12.06 -	0.09 -
A1P3-C-25-02RM	0.99 -	0.96 -	0.95 -	0.96 -	20.98 -	0.03 U
A1P3-C-25-03RM	1.24 -	0.99 -	0.99 -	0.99 -	17.06 -	0.31 -
A1P3-C-25-03RM-D	1.27 -	1.09 -	1.06 -	1.09 -	17.04 -	0.40 -
A1P3-C-25-05RM	1.17 -	1.00 -	1.00 -	1.00 -	82.69 -	0.03 -
A1P3-C-25-07RM	1.04 -	0.89 -	0.88 -	0.89 -	5.13 -	0.03 U
A1P3-C-25-08RM	1.09 -	0.98 -	0.95 -	0.98 -	23.76 -	0.04 -
A1P3-C-25-09RM	1.18 -	0.83 -	0.81 -	0.83 -	15.80 -	0.34 -
A1P3-C-25-10RM	1.16 -	0.95 -	0.96 -	0.95 -	11.07 -	0.31 -
A1P3-C-25-12RM	0.62 -	0.44 -	0.43 -	0.44 -	36.61 -	0.03 U
A1P3-C-25-13RM	0.79 -	0.55 -	0.55 -	0.55 -	10.65 -	0.19 -
A1P3-C-25-15RM	0.91 -	0.77 -	0.74 -	0.77 -	16.88 -	0.31 -
A1P3-C-25-16RM	0.82 -	0.50 -	0.49 -	0.50 -	17.84 -	0.03 U
FRL	1.70	1.80	1.70	1.50	82	1.50
Units	pCi/g	pCi/g	pCi/g	pCi/g	ug/g	ug/g
Confidence Level	95%	95%	95%	95%	95%	90%
Max Result	1.27 @	1.09 @	1.06 @	1.09 @	82.69	0.40 @
W-Statistic Probability*	--	--	--	--	48.7% (LN)	--
Test Procedure	--	--	--	--	t-Test (LN)	--
Sample Size	12	12	12	12	12	12
Estimated Mean	--	--	--	--	22.31	--
UCL on the Mean**	--	--	--	--	36.65	--
Non-Parametric Prob.	--	--	--	--	--	--
Est. Mean - Pass / Fail	--	--	--	--	pass	--
2x Rule Pass / Fail	Pass	Pass	Pass	Pass	pass	Pass
a posteriori Sample	--	--	--	--	3	--
Size calculation	--	--	--	--	pass	--

Definition of Qualifiers
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U" = not detected
- " = no data qualifier
NV" = not validated
UNV" = not detected, not validated

NOTES:
(1) Maximum result did not exceed the FRL, therefore no statistics were generated and no other tests performed.
(2) The maximum value of the two duplicates was used in all statistical equations.
(3) * W-Statistic Probability is the highest calculated probability of the Shapiro-Wilk W-statistic for tests for the validity of the normality assumption. The test is performed on the raw data (untransformed) data (Normal) and the log-transformed data (LogNormal) to test for lognormality.
(4) ** Estimated Mean = Estimated measure of central tendency (Normal: Mean; LogNormal: Est. Mean; Non-Parametric: Median).

Table C-27: Certification Statistics for A1P3-C-26

	PRIMARY COCs					Secondary
Sample ID	Radium-226	Radium-228	Thorium-228	Thorium-232	Uranium, Total	Beryllium
A1P3-C-26-1RM	0.80 J	0.61 J	0.60 J	0.61 J	3.83 U	0.06 -
A1P3-C-26-2RM	0.90 J	0.69 J	0.71 J	0.69 J	6.57 -	0.15 -
A1P3-C-26-3RM-D	1.02 J	0.76 J	0.72 J	0.76 J	6.90 -	0.01 U
A1P3-C-26-3RM	0.97 J	0.72 J	0.71 J	0.72 J	7.72 -	0.04 -
A1P3-C-26-4RM	0.93 J	0.73 J	0.74 J	0.73 J	9.54 -	0.04 -
A1P3-C-26-5RM	0.90 J	0.65 J	0.64 J	0.65 J	3.12 U	0.05 -
A1P3-C-26-7RM	0.85 J	0.71 J	0.67 J	0.71 J	4.27 -	0.12 -
A1P3-C-26-8RM	0.88 J	0.64 J	0.62 J	0.64 J	10.20 -	0.05 -
A1P3-C-26-10RM	1.16 J	0.93 J	0.87 J	0.93 J	11.57 -	0.01 U
A1P3-C-26-12RM	1.26 J	0.97 J	0.93 J	0.97 J	12.09 -	0.18 -
A1P3-C-26-13RM	1.34 J	0.86 J	0.85 J	0.86 J	15.73 -	0.07 -
A1P3-C-26-14RM	1.26 J	0.72 J	0.66 J	0.72 J	7.50 -	0.13 -
A1P3-C-26-16RM	1.11 J	0.80 J	0.77 J	0.80 J	12.92 -	0.01 U
Limit	1.70	1.80	1.70	1.50	82	1.5
Units	pCi/g	pCi/g	pCi/g	pCi/g	mg/kg	mg/kg
Conf. Level	95%	95%	95%	95%	95%	90%
Max. Result	1.34	0.97	0.93	0.97	15.73	0.18
Max. >= Limit	No	No	No	No	No	No
W-statistic Prob. #	--	--	--	--	--	--
Test Procedure	--	--	--	--	--	--
Sample Size	12	12	12	12	12	12
Nondetects	--	--	--	--	--	--
% Nondetects	--	--	--	--	--	--
Est. Mean*	--	--	--	--	--	--
UCL	--	--	--	--	--	--
Prob. > Limit	--	--	--	--	--	--
Pass / Fail	--	--	--	--	--	--
a posteriori Sample	--	--	--	--	--	--
Size calculation	--	--	--	--	--	--

Definition of Qualifiers
"J" = estimated result
"UJ" = not detected, estimated
"U" = not detected
"- " = no data qualifier
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NOTES:
(1) Maximum result did not exceed the FRL, therefore no statistics were generated and no other tests performed.
(2) The maximum value of the two duplicates was used in all statistical equations.
(3) * W-Statistic Probability is the highest calculated probability of the Shapiro-Wilk W-statistic for tests for the validity of the normality assumption. The test is performed on the raw data (untransformed) data (Normal) and the log-transformed data (LogNormal) to test for lognormality.
(4) ** Estimated Mean = Estimated measure of central tendency (Normal: Mean; LogNormal: Est. Mean; Non-Parametric: Median).

TABLE C-28

AREA 1, PHASE III DEBRIS EXCAVATION SAMPLES FROM VARIANCE 20720-PSP-0001-4

Sample ID	Sample Date	Depth Top	Depth Bottom	Easting	Northing	Parameter	Result	Units	Val. Qual.	QA Type
A1P3-EX4-1RM	4/4/01	0	0.5	1346372	482797	Beryllium	0.03	MG/KG	-	Normal
A1P3-EX4-1RM	4/4/01	0	0.5	1346372	482797	Radium-226	1.416	PCI/G	J	Normal
A1P3-EX4-1RM	4/4/01	0	0.5	1346372	482797	Radium-228	0.986	PCI/G	J	Normal
A1P3-EX4-1RM	4/4/01	0	0.5	1346372	482797	Thorium-228	0.954	PCI/G	J	Normal
A1P3-EX4-1RM	4/4/01	0	0.5	1346372	482797	Thorium-232	0.986	PCI/G	J	Normal
A1P3-EX4-1RM	4/4/01	0	0.5	1346372	482797	Uranium, Total	4.146	MG/KG	U	Normal
A1P3-EX4-1RM	4/4/01	0	0.5	1346372	482797	Moisture Content	20.5	PERCENT	NV	Normal
A1P3-EX5-1RM	4/4/01	0	0.5	1345996	482790	Beryllium	0.01	MG/KG	U	Normal
A1P3-EX5-1RM	4/4/01	0	0.5	1345996	482790	Thorium-232	0.662	PCI/G	J	Normal
A1P3-EX5-1RM	4/4/01	0	0.5	1345996	482790	Thorium-228	0.654	PCI/G	J	Normal
A1P3-EX5-1RM	4/4/01	0	0.5	1345996	482790	Radium-228	0.662	PCI/G	J	Normal
A1P3-EX5-1RM	4/4/01	0	0.5	1345996	482790	Radium-226	0.886	PCI/G	J	Normal
A1P3-EX5-1RM	4/4/01	0	0.5	1345996	482790	Uranium, Total	3.445	MG/KG	U	Normal
A1P3-EX5-1RM	4/4/01	0	0.5	1345996	482790	Moisture Content	10.7	PERCENT	NV	Normal