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MAY 28 1998

May 28, 1998

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77 West Jackson Boulevard
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Mr. Tom Schneider, Project Manager
Ohio Environmental Protection Agency
401 East 5th Street
Dayton, Ohio 45402-2911

Dear Mr. Saric and Mr. Schneider:

TRANSMITTAL OF THE REVISED AREA 1, PHASE I CERTIFICATION REPORT

The purpose of this letter is to transmit, for your review and approval, the Revised Area 1, Phase I Certification Report. This report incorporates the responses to the U.S. Environmental Protection Agency (U.S. EPA) and Ohio Environmental Protection Agency (OEPA) comments on the Area 1, Phase I Certification Report. The draft responses to comments were submitted to the U.S. EPA and OEPA on April 27, 1998. This report also includes three attachments: Attachment A) Certified and Characterized for Reuse Areas, May 28, 1998; Attachment B) Final Response to the U.S. EPA and OEPA Comments on the Area 1, Phase I Certification Report; and Attachment C) Memorandums concerning Technetium-99 volatility.

The enclosed report represents the compilation of the certification sampling and analysis data from the identified certification units within Area 1, Phase I, including the On-Site Disposal Facility (OSDF) Support Areas. The two remaining portions of the north access road within Area 1, Phase I have not been included in this report because these areas can not be certified until the areas have been excavated to the required certification depth.

If you have any questions, please contact Robert J. Janke at (513) 648-3124.

Sincerely,

Johnny Reising

FEMP:R.J. Janke

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AREA 1 PHASE I CERTIFICATION REPORT

FERNALD ENVIRONMENTAL MANAGEMENT PROJECT
FERNALD, OHIO

MAY 1998

U.S. DEPARTMENT OF ENERGY
FERNALD AREA OFFICE

20701-RP-0002
REVISION 1

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AREA 1 PHASE I CERTIFICATION REPORT

FERNALD ENVIRONMENTAL MANAGEMENT PROJECT
FERNALD, OHIO

INFORMATION ONLY

MAY 1998

U.S. DEPARTMENT OF ENERGY
FERNALD AREA OFFICE

REVISION 1

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LIST OF ACRONYMS AND ABBREVIATIONS

A1PI	Area 1 Phase I
ASCOC	Area-Specific Contaminant of Concern
ASL	Analytical Support Level
BTV	Benchmark Toxicity Value
CLP	Contract Laboratory Program
COC	Contaminant of Concern
CU	Certification Unit
DOE	US Department of Energy
FEMP	Fernald Environmental Management Project
FDF	Fluor Daniel Fernald
FRL	Final Remediation Level
ft	foot
GFAA	Graphite Furnace Atomic Absorption
GIS	Graphical Information System
HAMDC	highest allowable minimum detectable concentration
ICP	inductively coupled plasma
keV	kiloelectron volts
kg	kilograms
mg	milligrams
NAR	North Access Road
NPDES	National Pollutant Discharge Elimination System
OEPA	State of Ohio Environmental Protection Agency
OSDF	On-Site Disposal Facility
OU	Operable Unit
PCB	polychlorinated biphenyl
pCi/g	picocuries per gram
ppm	parts per million
PSP	Project Specific Plan
RAWP	Remedial Action Work Plan
RER	Relative Error Ratio
RI/FS	Remedial Investigation/feasibility Study
ROD	Record of Decision
RPD	Relative Percent Difference
SCEP	Soils Characterization and Excavation Project
SCQ	Sitewide CERCLA Quality Assurance Project Plan
SED	Sitewide Environmental Database
SEP	Sitewide Excavation Plan
SWRB	Stormwater Retention Basin
UCL	Upper Confidence Level
US EPA	United States Environmental Protection Agency
V&V	verification and validation
WAC	Waste Acceptance Criteria
yd^3	cubic yards

EXECUTIVE SUMMARY

This Certification Report presents the process and results for certification of soils within Area 1 Phase I (A1PI) at the Fernald Environmental Management Project (FEMP). However, the A1PI project and all associated draft documents were developed and submitted to the regulatory agencies in late 1996 and early 1997, prior to the development of the Sitewide Excavation Plan (SEP). The methods used for A1PI and discussed in this report apply to A1PI only. The methods to be utilized for all other soil projects are defined in the SEP.

The A1PI soil remediation project complies with requirements of the Operable Unit 5 (OU5) Record of Decision (ROD), which established a Department of Energy (DOE) commitment to execute remedial actions to excavate contaminated soil that exceed the health-based final remediation levels (FRLs). A1PI consists of 123 acres in the northeast corner of the site and includes the footprint of the two initial On-Site Disposal Facility (OSDF) cells, a portion of the existing North Access Road (NAR), 63 acres of open field and wooded areas west of the NAR and north of the former production area, adjacent areas needed for construction, and other areas appropriately addressed as part of this action. The main objectives of this report are to document what remedial actions occurred in A1PI, describe the certification process, present the data supporting the certification that the Area-Specific Constituents of Concern (ASCOCs) do not exceed the FRLs specified in the OU5 ROD, and describe access controls implemented to prevent recontamination.

The Operable Unit 5 Feasibility Study identified areas in A1PI that required excavation to meet the FRLs. Once stormwater controls and stockpile areas were established, approximately 59 acres within A1PI were excavated. This excavation was divided into two subareas, east of the NAR and west of the NAR. Contaminated soils were excavated and stockpiled on the same side of the NAR so as to reduce the safety concerns of transversing the active roadway. As part of the excavation process, underground drain tiles near the proposed On-Site Disposal Facility (OSDF) were removed to eliminate potential drainage pathways for leachate.

Prior to excavation, the area was divided into 82 certification units (CUs) based on a number of factors, including: spatial analysis results, homogeneity of contamination, topography, designed excavation limits, and process knowledge. Two additional CUs were created, bringing the total to 84,

when the initial certification for one CU failed, leading to follow-up corrective actions. The certification process consisted of sampling and analysis of physical samples in each CU, and a statistical analysis of the data to determine if the CU met the certification criteria. In A1PI, the CUs were analyzed for five primary ASCOCs (total uranium, radium-226, radium-228, thorium-228, and thorium-232); and for five secondary COCs: metals (arsenic and beryllium), PCB (aroclor-1260), and radiological (cesium-137 and thorium-230) as required. Certification sampling consisted of sampling each CU for the known contaminants at a minimum density of 12 samples per CU for primary COCs, and of 9 samples per CU for secondary COCs, at randomly selected locations. The certification samples were then submitted to FEMP approved laboratories, analyzed, and reported to analytical support level (ASL) D. The data were then validated with 90% of sample results validated at Level B, and the remaining 10% at Level D. The data were then analyzed statistically to determine if the certification criteria was met. These criteria required that the mean soil concentration within the CU be below the FRLs, with a minimum statistical confidence of 95% for primary COCs, and a minimum 90% for secondary COCs. The certification criteria also specified a "hot spot" criteria, which requires that no primary COCs be present in the certification samples at levels exceeding 2 x FRL. When statistical analyses demonstrated that the criteria were not met, corrective actions were taken until all the ASCOCs passed the FRL and "hot spot" criteria.

All except three original CUs met the certification criteria on the first attempt. Based upon statistical analysis of the certification samples, collected following initial remedial actions, it was determined that CU P17-32 failed the average concentration criteria for arsenic, Q18-40 failed for radium-226, and O20 failed for radium-228. CU O20 also failed the "hot spot" criterion with one sample for total uranium exceeding 2 x FRL. Corrective actions were taken for each CU in order to meet the certification criteria. For P17-32, an additional 6-inch layer of soil was excavated from the CU in order to attain certification. In Q18-40, the CU was divided into two new CUs (Q18-40A and Q18-40B) to certify for radium-226. Since the initial certification results showed that most of the contamination was in Q18-40B, six inches of soil was excavated from this CU. New certification samples were taken in Q18-40A and Q18-40B, and both CUs attained the certification criteria without further corrective actions. For CU O20, two corrective actions were necessary. For the total uranium "hot spot," the area of contamination was delineated and excavated. A new certification sample was taken, and the sample result (12.81 mg/kg) was well below the FRL. For the O20 radium-228 concentration, the failure was a result of high statistical variation within the CU. The corrective action

was to collect additional random physical samples to increase the confidence level. With the expanded data set, statistical analysis demonstrated that the certification criteria was attained. The six CUs comprising the Old North Access Road (NAR) and ditches in A1PI (CUs NAR 1-6) were certified "in place" by taking waste acceptance criteria (WAC) and certification samples at depth and analyzing them as per previous agreement with the regulatory agencies. No WAC or certificaiton sample result obtained from these CUs was at or above FRLs for ASCOCs. In order to remove artificial or imported media that cannot be certified, a level of excavation into native material residing beneath the road fill is specified. When this road and fill material in CUs NAR 1-6 is excavated to the specified depth, CU certification will be considered complete. However, due to construction demands, completing excavation of the NAR CUs will be a phased process dictated by the OSDF construction schedule.

Beginning at coordinate N 483445, E 1351342 approximately 1,300 feet of the NAR within the OSDF footprint (cells 1, 2 and half of cell 3) has been excavated to or beyond the specified certification depth. This excavated zone currently terminates at coordinates N 482175, E 1350928 which is approximately 250 feet north of the southern extreme of the A1PI NAR CUs. The southern (250') and northern (350') sections of the old NAR will not be considered certified until the artificial or imported materials have been excavated.

A northern section of approximately 350 feet of the NAR, between the intersection of the new NAR and the OSDF northern perimeter, has been left intact to provide support for OSDF construction. This unexcavated section of roadway must be kept intact until OSDF construction is completed. The remaining southern 250 foot section of certified in place old NAR will be excavated in July 1998 to accommodate construction of the OSDF Cell 2 compacted clay liner. A separate certification letter report for the southern section of the road will be submitted to the regulatory agencies after excavation to certification depth. The northern section of the old NAR will be transferred to Area 10, Corridors. Neither the southern nor northern section is included in this report.

Since all the CUs discussed in this report (except the remaining portions of CUs which will be excavated in the future) have passed certification, they can be released for final land use. In order to protect the integrity of certified areas from recontamination after certification has been completed, access restrictions to certified areas are maintained by DOE. A procedure has been developed to control access to certified areas.

SECTION 1.0
INTRODUCTION

1.1 PURPOSE

This Certification Report presents the information used by the United States Department of Energy (DOE) to determine that contaminated soil cleanup objectives were successfully achieved in Area 1 Phase I (A1PI) at the FEMP. On the basis of this reported information and supporting project files, DOE requests concurrence that the remedial actions are complete for all certification units (CUs) in this report. DOE has also completed follow-up regrading and reseeding operations and begun construction of the On-Site Disposal Facility (OSDF).

1.2 BACKGROUND

The Operable Unit 5 (OU5) Record of Decision (ROD), issued in 1996, established a DOE commitment to execute remedial actions to excavate contaminated soil that exceeds health-based final remediation levels (FRLs) with final disposition of the excavated material in the OSDF. The OU5 Remedial Investigation Report defined the extent of soil contamination exceeding the FRLs, and in general, indicated widespread contamination occurring in approximately 430 acres of the 1050-acre FEMP site. Approximately 1.8 million cubic yards (yd^3) of contaminated soil are anticipated to be excavated and placed within the OSDF.

The OU5 Remedial Action Work Plan (RAWP) established a commitment on the part of DOE to prepare a design document, the Sitewide Excavation Plan (SEP), defining the overall approach to implementing the soil cleanup obligations in the OU5 ROD. Discussions between DOE, the US Environmental Protection Agency (US EPA) and the State of Ohio EPA (OEPA) identified the desire to proceed with soil cleanup activities in A1PI prior to finalizing the sitewide strategies defined in the SEP. The soil remediation project was accelerated to facilitate removal of soil exceeding the FRLs in the northeast corner of the site. This included the area comprising the footprint of the initial two OSDF cells, adjacent areas needed to facilitate the construction effort, and other areas appropriately addressed as part of this action. In general, A1PI is comprised of approximately 123 acres located on federal property at the northeast corner of the site, as shown in Figure 1-1, General Remediation Areas 1 through 10. Following remedial action, Cell 1 of the OSDF and a relocated North Access Road were constructed in this area.

To support soil remediation activities, two types of documents were prepared to describe and guide planned activities in A1PI:

- A1PI Remedial Action Work Plan (RAWP);
- Project Specific Plans (PSPs) (Refer to Appendix D for a summary of A1PI PSPs).

The development of these documents established the constituents of concern (COCs) relative to A1PI remediation activities. Available characterization data from the OU5 RI Report were used to estimate the limits of required excavation in A1PI to attain the FRLs defined in the OU5 ROD for the individual COCs. Excavation activities were completed based upon this initial estimate. In general, a six-inch layer of soil was excavated from 59 acres of A1PI, these areas are depicted in Figure 1-2. The large, non-impacted forested area west of the North Access Road, north of the former production area, was not excavated; whereas the area east of the production area was excavated. Soil samples were collected from randomly selected locations within segmented areas, Certification Units, that encompassed the entire A1PI area. These samples, termed certification samples, were analyzed to determine the concentration of area-specific COCs remaining in the individual CUs.

The results of these analyses were statistically evaluated on an individual CU basis to determine if the FRLs were attained. When the statistical tests identified that the FRLs were not attained, additional corrective actions were taken. These actions included additional excavation of affected areas or collecting additional samples to increase the statistical confidence. Corrective actions continued until the post-excavation sampling results indicated that all areas in A1PI attained the FRLs. This report documents the sampling and analysis performed, the statistical evaluation conducted, applicable corrective actions, and the decisions reached regarding the attainment of the FRLs in A1PI.

1.3 SCOPE

The scope of this Certification Report includes the presentation and discussion of the certification results of the approximately 123 acres in A1PI. This area in the northeast portion of the site includes the location of the initial two OSDF cells, the northern portion of the existing North Access Road (NAR), the 63 acres of open field and wooded areas between the existing NAR and the old NAR, the Pump Station, and the OSDF Sediment Basin. This area was originally divided into 82 CUs, and 2 CUs were added as a result of corrective actions. As discussed with the regulatory agencies, the scope

of this report includes these 84 CUs only. Section 2.0 provides further detail regarding the CUs within A1PI. The certification results for the A1PI Sediment Traps 2 and 3 are not presented in this report, nor is borrow Area C which was originlly part of the A1PI RAWP. The certification of these areas will be discussed in the future Area 1 Phase II Certification Reports.

Certification for A1PI consists of demonstrating that the individual CUs attained the FRLs based on statistical analysis. The certification criteria requires that the average COC concentration within the CU to be below the FRL, with a minimum statistical confidence of 95% for primary COCs, and a minimum of 90% for secondary COCs. Furthermore, for primary COCs, no single sample result within a CU can be at or above two times its corresponding FRL. The CU is considered certified when these criteria are met.

Within A1PI, different COCs are present in different areas because of varying production and waste storage activities. Area-specific COCs (ASCOCs) are defined as those COCs detected at concentrations above the FRLs, and/or where process knowledge indicated that COCs are likely to be present at levels above the FRLs in A1PI. The A1PI ASCOCs presented in the A1PI RAWP are the analytes for which soil certification was determined. These ASCOCs include:

- Primary COCs
  Radiological: total uranium, radium-226, radium-228, thorium-228, and thorium-232
- Secondary COCs
  Metals: arsenic and beryllium;
  Polychlorinated Biphenyl (PCB): Aroclor-1260;
  Radiological: cesium-137 and thorium-230.

The strategy for identifying primary and secondary ASCOCs for A1PI is discussed in Section 2.1.2. Certification sampling for A1PI consisted of systematically sampling each CU for the known primary and secondary COCs.

1.4 OBJECTIVES

The objectives of the A1PI Certification Report are:

- Describe the remediation strategy and excavation results;
- Describe the physical sampling process, analytical methods, data validation processes, data reduction and statistical processes used to support certification;
- Present certification sampling results for the original 42 radiological, 30 metal, and 7 PCB CUs, plus two additional CUs created for corrective action following CU failure;

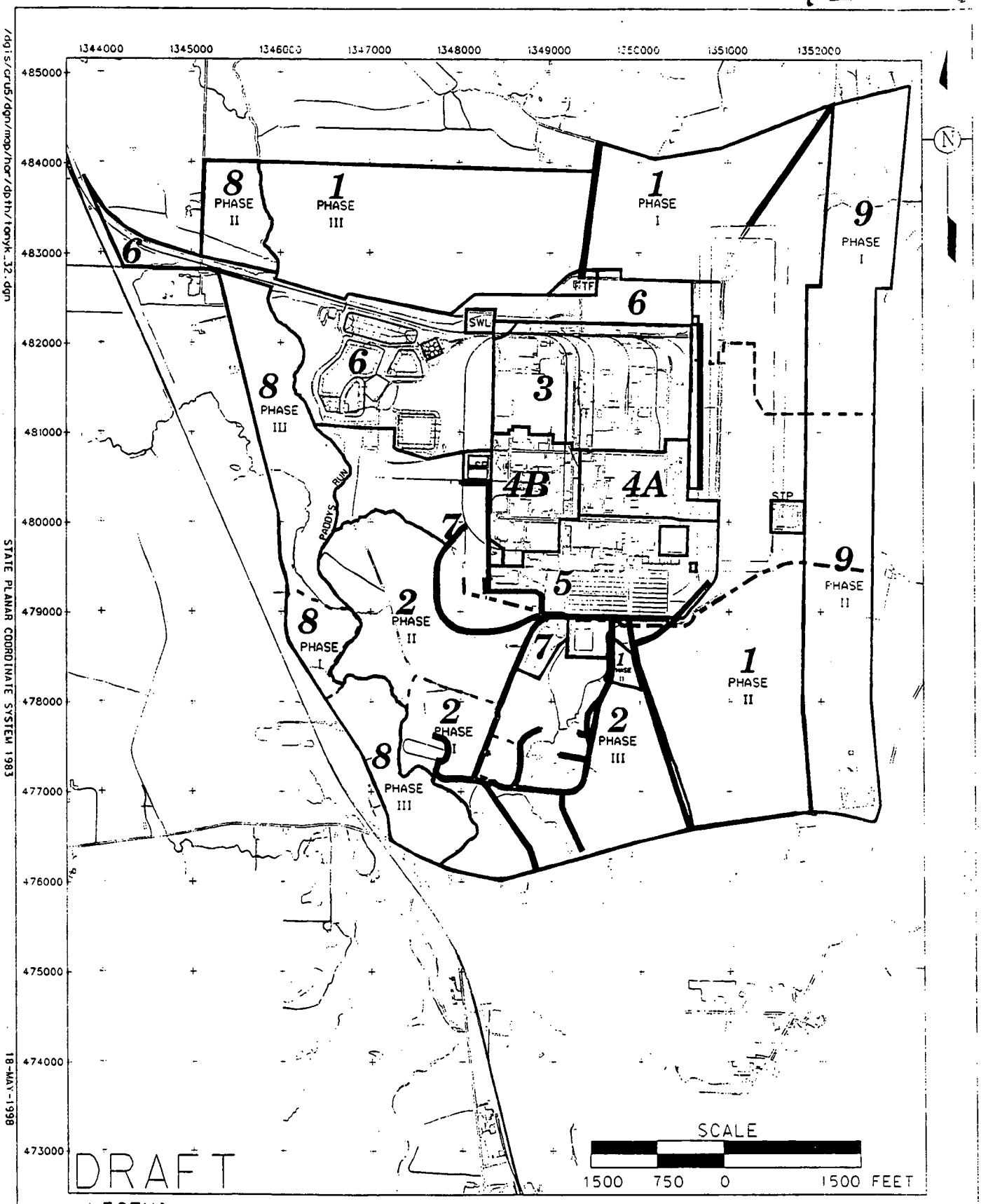

FIGURE 1-1. GENERAL REMEDIATION AREAS 1 THROUGH 10

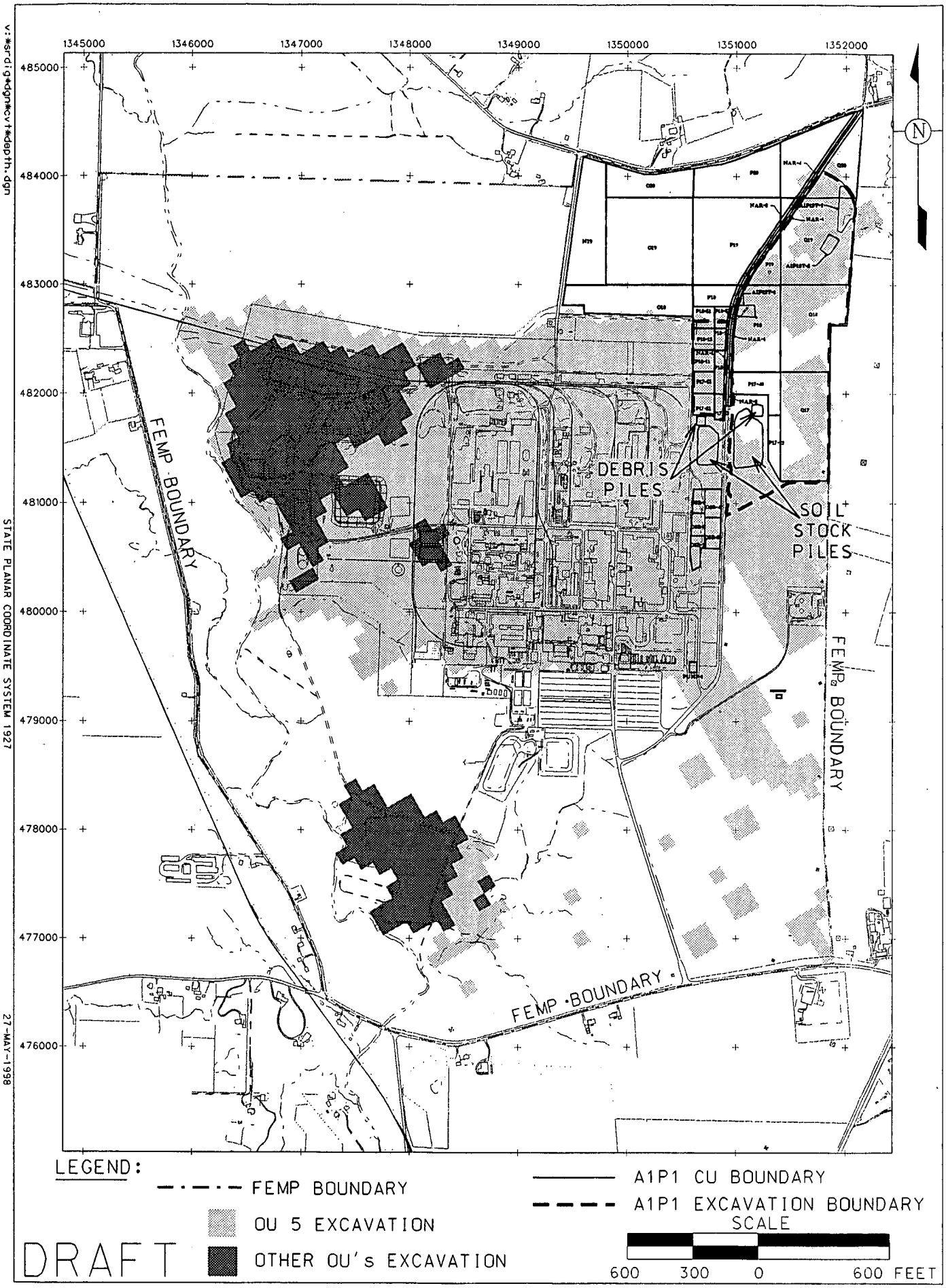

FIGURE 1-2. PRELIMINARY SITEWIDE SOIL EXCAVATION FOOTPRINT BASED ON RI/FS CHARACTERIZATION DATA

SECTION 2.0
CERTIFICATION APPROACH

2.1 CERTIFICATION STRATEGY

For purposes of this report, all discussion in this section is a description of the A1PI certification strategy, which will differ from that utilized for all other FEMP remediation areas. The certification strategy for the rest of the FEMP is defined in the Sitewide Excavation Plan (SEP).

The purpose of certification sampling is to verify that the mean concentrations or activities for ASCOCs remaining in the soil of a CU following remedial activities are less than the FRLs at the appropriate confidence level. If the mean residual concentrations or activities are below the FRLs within the respective confidence bounds, the remedial objectives have been achieved for the CU and it can be released for regrading, reseeding and development of a final land use. Where FRLs for a given constituent were exceeded in a CU as determined by the appropriate statistical test, corrective actions were taken until all FRL criteria were attained. An overview of the A1PI soil remediation process is depicted in Figure 2-1, A1PI Soil Remediation Process Flow Diagram.

Certification was demonstrated by collecting and analyzing physical soil samples in each CU, and evaluating the data based on statistical analysis. The A1PI remediation area was divided into CUs prior to excavation, as discussed in Section 2.2. Additionally, required waste acceptance criteria (WAC) evaluation, including Remedial Investigation/Feasibility Study (RI/FS) data assessment and process knowledge review, was completed prior to excavation to establish confidence that all soil designated for final disposal in the OSDF meets the WAC. A separate A1PI WAC Report, discussing the strategy and approach for WAC attainment and documenting the WAC sampling results will be provided separately from this Certification Report.

2.1.1 Sitewide Soil COCs

The OU5 ROD established FRLs for soil for 80 COCs. These COCs were identified through examination of the OU5 remedial investigation data set, which included the results from the laboratory analysis of thousands of soil samples obtained both on and off the FEMP property. To properly focus remedial activities and certification sampling on the key COCs, a COC evaluation matrix was developed to 1) identify those COCs with the greatest potential impact on human health and the

environment, and 2) eliminate those COCs with negligible value to the remediation requirements. This evaluation matrix considered five variables:

- The frequency of detections above FRLs for each of the 80 COCs in soil in the OU5 remedial investigation data set,
- The relative significance of the contribution to potential human health risk posed by post-remedial residual soil concentrations for each COC,
- The ratio of exposure point concentrations for each COC to the FRL,
- A comparison of the FRL for each COC to established soil background concentrations, and
- Process knowledge.

This evaluation process resulted in the selection of 30 COCs to drive sitewide soil remedial activities. These COCs are listed in Table 2-1, Summary of Sitewide COCs. COCs were assigned based on the frequency of detections above the FRLs. These 30 sitewide COCs account for 99% of potential risk to the hypothetical future undeveloped park land user. The undeveloped park land user was the exposure scenario for the derivation of the risk based FRLs in the OU5 ROD.

These 30 sitewide COCs were further evaluated by examining the spatial distribution of their sample results in the OU5 remedial investigation data set. The COCs were classified as primary or secondary based on an examination of this spatial distribution with consideration of the results of the COC evaluation matrix. Primary COCs are those contaminants which represent 90% of the potential risk to human health from exposure through the soil pathways, and for which available data indicated widespread distribution of the COCs across the study area. Five sitewide primary COCs were identified by this process: total uranium, radium-226 and -228, and thorium-228 and -232. The spatial distribution of above-FRL detections of these primary COCs approximate the total expected soil excavation footprint. The remediation of the primary COCs is driven by their respective FRLs.

The 25 secondary COCs, which were associated with more localized areas of contamination above the FRL, are identified in Table 2-1. COCs are classified as secondary if the extent of contamination is limited to localized areas, or if the COCs have been infrequently detected in concentrations marginally above the FRL over large areas (e.g., metals). Secondary COCs typically, but not exclusively, reside within the footprint of the primary COCs.

2.1.2 A1PI Soil COCs

The sitewide COCs were examined for their appropriateness for application to A1PI. The identification of ASCOCs for A1PI was completed based upon an analysis of available data which indicated the existence of above-FRL concentrations or activities within the A1PI area. In order to make this determination, spatial analyses relative to the FRLs were conducted on all existing soils data within A1PI. The purpose of these area-specific spatial analyses was to review the actual distribution of contamination for each COC, and to estimate the extent of contamination exceeding the FRL. The conclusions of these analyses were used to initially design the CU configurations for the COCs to ensure remediation activities in the area were successful in complying with applicable FRLs.

The spatial analyses resulted in the identification of the five primary COCs and five secondary COCs specific to A1PI. These COCs were identified as being present or having a high probability of presence at or above the FRLs, as shown in Table 2-2, Summary of Area 1 Phase I Area-Specific Constituents of Concern. Additionally, four ecological COCs (aluminum, manganese, molybdenum, and lead) were identified as being present or having a high probability of presence at or above corresponding Benchmark Toxicity Values (BTVs). Analytical data for these ecological COCs were collected in A1PI during certification sampling. However, these ecological COCs were not considered in the certification determination. Appendix A presents the results and simple statistics for the BTV data collected.

The primary and secondary COCs, as listed in Table 2-2, represent the demonstrated or likely contaminants in A1PI. The spatial distribution of these COCs in A1PI does not indicate that any one contaminant completely envelops other COCs in both horizontal and vertical extent. Thus, sampling and analysis were performed for all 10 COCs during certification to demonstrate that the post-remediation residual soil levels comply with the applicable standards.

2.1.3 Certification Sampling

Certification sampling was conducted by randomly collecting samples from the systematic grid within each CU. Section 2.4 includes a discussion of the sample point assignment process for A1PI. Each CU was divided into approximately 16 equal sized grid sub-CUs. At a minimum, a discrete primary COC sample location was randomly selected from 12 of the 16 sub-CUs. For secondary COCs, a

minimum of 9 sample locations was randomly selected for secondary COC analyses, when applicable. Laboratory and data validation methods are described in Section 4.0.

2.2 CERTIFICATION UNIT ASSIGNMENT

A CU is a predefined area which was sampled at a specified density during certification to demonstrate that the average residual COC soil concentrations were less than the soil FRLs. Table 2-3, Summary of Certification Unit Criteria, identifies three classes of CUs: Class I, Class II and Class III. The assignment of the class of CU applicable to a given area is based on three factors: 1) interpretation of the spatial analysis of existing characterization data for COCs having analytical detections above their FRL, 2) process knowledge, and 3) topography (including surface hydrology) of an area. A 200' X 200' sitewide grid system was established across the FEMP as the foundation for CU determination. This grid was also used to identify CUs in unique alpha-numeric labeling system. In A1PI, there were some circumstances, such as ditches, roads and sediment traps, which prompted the designation of irregular shaped Cus. The A1PI CUs are summarized in Table 2-4, A1PI Certification Units.

Similar certification testing protocols were used for all CUs, regardless of size or shape. For example, a minimum of 12 samples for primary COCs and, when applicable, a minimum of 9 samples for secondary COCs, were collected within the boundaries of each CU. However, to gain additional confidence for certification purposes, 16 or more samples were collected from several CUs. Section 2.3 includes a discussion of the justification for the number of samples necessary to determine certification.

2.2.1 Classes of CUs

The design of CUs is based primarily upon the demonstrated impact a constituent or group of constituents had on a specific geographic area relative to their soil FRLs. During the RI/FS process, sampling programs were designed to identify soil contamination based upon process knowledge (areas where possible releases may have occurred), and topographic areas of likely deposition (such as air deposition areas, surface runoff, etc.) The CU designations are primarily based upon the spatial analysis of these data and the geographic proximity to impacted areas.

Where applicable in A1PI, consideration of topography such as ditches or areas of likely deposition, and process knowledge were used to conservatively assign certification units. An example of this

process is the designation of Class I CUs for PCBs along the former production area. A release of oil from a PCB-containing transformer occurred near this area. This area demonstrated no PCBs above soil FRLs; however, to ensure that the area was not affected by this event, Class I PCB CUs were designated in the area that had potential for impact by the release. This same logic was applied when assigning other PCB CUs, such as O18 and NAR-1.

Descriptions of the three classes of CUs follow.

Class I - Demonstrated Contamination

CUs within sections of A1PI that demonstrated pre-remedial contiguous contamination, or a high probability of contamination above FRLs, are designated as Class I CUs (CU-I). A default CU-I consists of one (1) 200' X 200' grid (0.92 acres). The shape and size of a CU-I varied due to topography, physical obstacles, and engineering considerations. By definition, however, the size of a CU-I did not exceed one acre.

Class II - Marginal Contamination

CUs in sections of A1PI demonstrating marginal or scattered detections above the FRLs, which are relatively homogeneous, and are not adjacent to contaminated areas, were designated as Class II CUs (CU-II). A default CU-II consists of four 200' X 200' grids (e.g., 400' X 400'), or 3.7 acres. The shape and size of a CU-II varied due to topography, physical obstacles, and engineering considerations. By definition, however, the size of the CU-II does not exceed four acres.

Class III - Improbable Contamination

Class III CUs (CU-IIIs) were designated in peripheral sections of A1PI for soil exhibiting no indication of contamination as a result of spatial analysis of existing data and process knowledge. A default Class III CU consists of (16) 200' X 200' grids (e.g., 800' X 800'). The shape and size of a Class III CU varied due to topography, physical obstacles, and engineering considerations. By definition, however, the size of a CU-III did not exceed 16 acres.

Special Certification Units

Some areas requiring certification in A1PI could not be classified using these classification criteria. For example, CUs assigned to certify the existing roadway prior to excavation (NAR-1 through 6), a

sediment trap requiring certification in place (A1PIST-1), and CUs that were created for facilities and other long-term infrastructure needs (e.g., Pump 1) were designated as special CUs. The PSP for OSDF Support Areas Certification Sampling (Rev. 0) included a discussion of these special CUs, and the approach and sampling strategy used. These CUs exhibited homogeneity of known or probable contamination based on process knowledge. In A1PI, each of these specific CUs was treated as a Class I CU for certification purposes.

2.3 CERTIFICATION UNITS

Figure 2-2, A1PI Radiological Certification Units, Figure 2-3, A1PI Metals Certification Units, and Figure 2-4, A1PI PCB Certification Units, depict the certifications for radiological, metals, and PCB CU tupes, respectively. Detailed maps of each CU and all of the certification sample points for each suite of analyses are included in Appendix A.

For various reasons, the CUs in A1PI were reconfigured or created as compared to the original CU designs that were presented in the original A1PI PSPs and the A1PI RAWP. Figures 2-5, 2-6, 2-7, and 2-8 depict the CUs as designed and presented in the A1PI Certification PSP. All changes made to the configuration of the CUs considered the homogeneity of probable contamination and the spatial analysis of existing data. The reasons for the reconfigurations or additions of affected CUs are summarized in Table 2-5, Area 1 Phase I Certification Unit Reconfigurations and Additions. The descriptions in Table 2-5 use the final CU locations and nomenclature as presented in this report. The original configurations are included as Figures 2-5 through 2-8; however, revisions representing the evolution of the CUs from the original design to final configuration do not exist.

2.4 DETERMINATION OF NUMBER OF SAMPLES FOR CERTIFICATION

In order to certify a CU as meeting the FRL clean-up criteria, it was demonstrated that the average concentration or activity level for each COC was below its respective FRL with an acceptable confidence level. To determine the number of samples needed to certify the CU as having achieved the FRLs, the following formula was used:

$$n = \frac{(Z_{1-\alpha} + Z_{1-\beta})^2}{\left(\frac{RG - \bar{X}_{target}}{S_{CA}}\right)^2}$$

where

α = *probability of a Type I Error* (.05)
β = *probability of a Type II Error* (.20)
Z = *critical level (the designated probability for normal distribution)*
RG = *the Remedial Goal (i.e. FRL for the given analyte)*
$\bar{x}_{target}$ = *target clean-up level mean*
= *75% of the FRL*
S_{CA} = *standard deviation estimated for post-remedial conditions*

2.4.1 Assumptions

To meet the target confidence levels for certification (95% for primary COCs and 90% for secondary COCs), three assumptions were required. The first assumption was to establish the false negative error rate (Type I Error) and the false positive rate (Type II Error). The acceptable false negative rate, i.e., the probability of declaring that a CU meets the FRL when, in fact, the average exceeds the FRL, was set to correspond with the more conservative of the two confidence levels at 5 percent. The false positive error rate, i.e., the probability of declaring a CU as not meeting the FRL when, in fact, the average is below the FRL, was set at 20%.

A second assumption was that, when certification sampling was implemented for a CU in A1PI, the maximum expected average concentration or activity level is no greater than 75% of the FRL, or the "target cleanup level." The 75% level was chosen based on a cost-benefit analysis. It was considered more cost-effective to establish a conservative target level and recognize the possibility that a CU could be sampled, fail certification and require resampling rather than implement a more intensive certification readiness program, especially in light of the many unaffected areas within A1PI.

The third assumption was that the variability demonstrated in non-impacted areas would be similar to post-remedial conditions in impacted areas. Operating on this assumption, an estimate of the data variability (standard deviation) for post-remedial conditions was calculated from existing data in non-impacted areas as defined by levels of all ASCOCs being below their respective FRLs. The method used to estimate the standard deviation for each analyte in the non-impacted area was as follows:

1. The site was divided into 100 ft. by 100 ft. blocks. This was accomplished by dividing the Northing and Easting coordinates by 100 since these coordinates are presented in feet.

2. Block averages were calculated for each 100 x 100 ft block.

3. Blocks were categorized as either impacted (average greater than or equal to the FRL) or un-impacted (average less than the FRL).

4. All sample locations in impacted blocks were eliminated from consideration.

5. The final screening was to remove any sample in excess of 3 x FRL since these sample values would immediately trigger a localized remedial effort. This model was developed based on 3 x FRL hot spot criteria. However, based on subsequent discussion with US EPA and OEPA, the criteria was revised to 2 x FRL.

6. Standard deviations were calculated for each individual analyte from data from unaffected areas.

7. For ease of sampling and analysis, it was decided that the number of samples to be collected and analyzed for primary ASCOCs will be based on the maximum calculated sample size for all primary and secondary ASCOCs.

Under these assumptions and methods, the minimum estimated number of samples required for each CU was determined to be 12 for primary ASCOCs and 9 for secondary ASCOCs. The minimum number of samples per CU necessary to demonstrate certification was determined by the analytes requiring the greatest number of samples. The calculations, radium-226 and thorium-232 for the primary ASCOCs, and the sampling requirement for arsenic, established the CU sampling frequency driver for the secondary ASCOCs. Table 2-6, Summary of Estimated Number of Samples per Certification Unit in Area 1 Phase I to Achieve Acceptable Confidence Levels, summarizes the sample size results. For simplicity of sampling and analysis, the two secondary radiological ASCOCs (cesium-137 and thorium-230) were included in the analytical suite for primary ASCOCs, since the primary ASCOCs are all radiological analytes.

An example calculation of the sample size for thorium-232, estimated by applying this method, is provided below. Starting with the initial equation:

$$n = \frac{(Z_{1-\alpha} + Z_{1-\beta})^2}{\left(\frac{RG - \bar{x}_{target}}{s_{CA}}\right)^2}$$

Then, substituting in the values for

α = *probability of a Type I Error* = 0.05
$Z_{(1-0.05)} = Z_{0.95}$ = 1.645
β = *probability of a Type II Error* = 0.20
$Z_{(1-0.20)} = Z_{0.80}$ = 0.842
RG = *the Remedial Goal, FRL* = 1.5 *pCi/g*
$\bar{x}_{target}$ = *target clean-up level mean*
= *75% of the FRL* = 1.125 *pCi/g*
S_{n_A} = *standard deviation estimated non-impacted areas* = 0.503 (*from Table* 2-5)

gives

$$n = \frac{(1.645 + 0.842)^2}{\left(\frac{1.5 - 1.125}{0.503}\right)^2} = 11.128$$

To ensure that the alpha and beta error rates are satisfied under the given assumptions, the calculated number was rounded up to the next highest integer. In this case, the calculated value of 11.128 was rounded up to 12. Therefore, under the given assumptions, a minimum of 12 samples per CU was required for thorium-232 analysis in order to establish the appropriate confidence level to certify the CU.

2.5 SAMPLE DESIGN

A sampling plan strategy was designed after the minimum number of samples for certification was determined. In A1PI, the CUs for primary and secondary ASCOCs are not necessarily the same CUs. If the CU was not the same for both primary and secondary ASCOCs, the sample locations were generated independently. During the initial stages of A1PI, the sample locations were generated independently, even if the primary and secondary CUs were coexistent. Later, to improve efficiency, the primary and secondary samples were drawn from the same location if the primary and secondary CUs were coexistent.

A systematic random sampling plan was used to maintain the assumptions of random sampling for the certification determination analysis. In general, each CU was subdivided into 16 sub-CUs. The layout of the sub-CUs was arbitrary; the only stipulation was that each sub-CU represents approximately one sixteenth of the total area for the CU. The "one-sixteenth" stipulation was included in order to drop the

"weighting factor," i.e., the percentage of total area represented by the data point, from the subsequent statistical calculations. This action simplified calculations and interpretation of results. A minimum of 12 of the 16 sub-CUs were sampled for primary ASCOCs, and 9 for secondary ASCOCs. These variations are outlined in the following summary of the procedure for generating the random sampling locations. As discussed in the OSDF Support Areas PSP, 16 samples were collected in the CUs for all ASCOCs for these areas.

2.5.1 Procedure for Generating Random Sample Locations

The procedure used to generate random sample locations for each CU is summarized as follows.

1. Sub-divide the CU into 16 approximately equal (area-wise) sub-CUs.
   - A. For CUs approximating rectangular shapes, the CU was subdivided into 16 equal sub-CUs by griding the area four across the east-west direction, and four across the north-south direction.
   - B. For CUs approximating triangular shapes, the area was divided into 16 equal sub-CUs. These CUs were formed when an originally planned CU is divided by a newly imposed diagonal boundary. An example of this occurrence was CU Q20-30 which was a remnant area after the North Access Road was redesignated as a series of CUs.
   - C. For irregular shaped CUs, maps were generated by GIS personnel for each CU. The CU was divided visually into 16 equal sized sub-CUs, and these maps were given to the GIS personnel to overlay onto the electronic GIS-based CU map. Each CU size was calculated and resized until all sub-CU areas were approximately equal.
2. Generate sample locations.
   - A. For rectangular CUs: A random northing coordinate was generated between the minimum and maximum northing coordinates of the sub-CU, and a random easting coordinate was generated between the minimum and maximum easting coordinates. These random coordinates were rounded to the nearest foot for the surveyors to locate the sample.
   - B. For non-rectangular CUs: A "bounding box" was overlaid around the CU defined by the minimum and maximum northing and easting coordinates of the CU boundary. Sequential random locations were generated within the box limits, and the locations were plotted on the CU map. Coordinates were rounded to the nearest foot. Locations that fell outside of the CU boundary were discarded. Locations in a sub-CU were retained. This process was repeated until each sub-CU contained only one sample location.

NOTE: A list of 50 - 150 sets of three random numbers were generated. The first number was the easting coordinate within the box. The second was the northing coordinate within the box. The third was a random number. This list was sorted by random numbers and indexed by their position in the list. The entire list was plotted on the sub-CU map, with each location labeled with the index value. The location with the smallest index was selected, and the others were discarded. This method was identical to the one-point-at-a-time-method and generated random and unbiased locations.

C. Sub-CUs were chosen for sampling for the 12 primary ASCOCs or the 9 secondary ASCOCs. A random number was assigned to each of the 16 sub-CUs, with the 12 or 9 sub-CUs with the lowest assigned numbers selected. The remaining four primary sub-CUs were generally designated primary archive samples, with three of the four as secondary archive samples. When the primary and secondary CUs did not co-exist, the 12 primary and 9 secondary samples were chosen independently.

2.6 CERTIFICATION UNIT ANALYSIS

Certification sampling consisted of systematically sampling each CU for the known contaminants at the predetermined sample density. The certification of a CU within A1PI required the average soil concentration of COCs within the CU to be below the FRLs, with a minimum statistical confidence of 95% for primary COCs, and at least 90% for secondary COCs.

Statistical analysis, specifically hypothesis testing, was performed on the analytical results of the certification samples. The statistical analysis determined whether the average ASCOC levels in a given CU met their respective FRL; i.e., were less than the respective FRL, at the desired level of confidence. Consistent with the conservative approach used to assess COC levels, the null hypothesis for this analyte was defined to presume the average level of a specific ASCOC in a CU is greater than or equal to the FRL. The determination was made by applying the following equation:

$$t = \frac{RG - \bar{x}_i}{\sqrt{S^2/n}}$$

Where:

RG = remedial goal (i.e., FRL)

$\bar{x}_I$ = mean of samples from the ith CU.

S^2 = sample variance

n = number of samples from the ith CU.

If the statistical analysis indicated that the average level of a specific ASCOC in a CU did not exceed the FRL, the null hypothesis was rejected. The ASCOC level did not exceed the FRL if the computed value (t) exceeded the critical value of a t-distribution for alpha = 0.05 for primary ASCOCs and for alpha = 0.10 for secondary ASCOCs at the appropriate degrees of freedom. If this was the case for all ASCOCs within a CU, and if no single sample exceeded 2 x the FRL for primary COCs, the entire CU was certified as meeting the FRLs.

If the average detected result in a CU was not statistically less than the FRL at the minimum confidence level, one of two actions was taken:

- The CU was subjected to corrective actions, i.e., additional excavation, and resampled for certification, or
- If the average level in a CU was less than the FRL but the required statistical confidence was not achieved, additional samples were collected or available archived samples were submitted for analysis to increase the confidence level.

2.6.1 Statistical Quality Control

Quality control measures taken for the statistical data analysis were as follows:

- Algorithm accuracy was checked using Systat for Windows, a PC-based statistical package.
- Spot checks for accuracy were performed on individual spreadsheets to check for accuracy.
- All sample data results were checked for completeness and accuracy.

TABLE 2-1
SUMMARY OF SITEWIDE CONSTITUENTS OF CONCERN

Constituent of Concern	OU5 FRL	Constituent of Concern	OU5 FRL
Primary COCs			
Uranium, total (K_l = 325[a])	82/50 mg/kg	Thorium-228	1.7 pCi/g
Uranium, total (K_l = 15)	20 mg/kg	Thorium-232	1.5 pCi/g
Radium-226	1.7 pCi/g		
Radium-228	1.8 pCi/g		
Secondary COCs			
Aroclor-1254	0.13 mg/kg	Indeno(1,2,3-cd)pyrene	20 mg/kg
Aroclor-1260	0.13 mg/kg	Lead	400 mg/kg
Arsenic	12 mg/kg	Lead-210	38 pCi/g
Benzo(a)anthracene	20 mg/kg	Manganese	4600 mg/kg
Benzo(a)pyrene	2 mg/kg	Neptunium-237	3.2 pCi/g
Benzo(b)fluoranthene	20 mg/kg	Octachlorodibenzo-p-dioxin	0.0088 mg/kg
Beryllium	1.5 mg/kg	Plutonium-238	78 pCi/g
Carbazole	12 mg/kg	Strontium-90	1.4 pCi/g
Cesium-137	1.4 pCi/g	Technetium-99	30 pCi/g
Dibenzo(a,h)anthracene	2 mg/kg	Tetrachloroethene	3.6 mg/kg
1,1-dichloroethene	0.41 mg/kg	Thorium-230	280 pCi/g
Dieldrin	0.015 mg/kg	Trichloroethene	25 mg/kg
Heptachlorodibenzo-p-dioxin	0.00088 mg/kg	Zinc	120,000 mg/kg

a K_l = leaching coefficient. The FRL for total uranium in site soils outside the former production area, sewage treatment plant and the fire training area is 82 mg/kg with an ALARA goal for residual soil concentrations of 50 mg/kg. Within the production area, sewage treatment plant, and the fire training area the FRL for total uranium is 20 mg/kg.

TABLE 2-2
SUMMARY OF AREA 1 PHASE I AREA-SPECIFIC CONSTITUENTS OF CONCERN

COCs	FRL
Primary COCs	**FRL**
Uranium, total	82 mg/kg, with an ALARA goal of 50 mg/kg
Radium-226	1.7 pCi/g
Radium-228	1.8 pCi/g
Thorium-228	1.7 pCi/g
Thorium-232	1.5 pCi/g
Secondary COCs	**FRL**
Arsenic	12.0 mg/kg
Thorium-230	280 pCi/g
Aroclor-1260	0.13 mg/kg
Beryllium	1.5 mg/kg
Cesium-137	1.4 pCi/g
Ecological COCs[a]	**BTV**
Aluminum	10,103 mg/kg
Manganese	1500 mg/kg
Molybdenum	10 mg/kg
Lead	200 mg/kg

a Analytical data for ecological COCs were collected; however, no pass/fail determination was made relative to the BTV levels identified for each respective COC.

TABLE 2-3
SUMMARY OF CERTIFICATION UNIT CRITERIA

	CU-I	CU-II	CU-III
Maximum Certification Unit size	approx. 200' x 200' but not to exceed 1 acre	approx. 400' x 400' but not to exceed 4 acres	approx. 800' x 800' but not to exceed 16 acres
Criteria	Demonstrated Contamination above the FRL, or likely presence	Marginal Contamination	Considered to be Non-impacted
Sampling density	A minimum of 12 random discrete soil samples for primary COCs, and a minimum of 9 random discrete soil samples for secondary COCs	Same as Class I	Same as Class I

TABLE 2-4
AREA 1 PHASE I CERTIFICATION UNITS

CU Name	CU Type	CU Class
A1P1ST-1	Primary Radiological	Special
N19	Primary and Secondary Radiological	CU-III
NAR1	Primary Radiological	Special
NAR2	Primary Radiological	Special
NAR3	Primary Radiological	Special
NAR4	Primary Radiological	Special
NAR5	Primary Radiological	Special
NAR6	Primary Radiological	Special
O18	Primary Radiological	CU-III
O19	Primary Radiological	Cu-III
O20	Primary Radiological	CU-III
OSB 1	Primary Radiological	Special
OSB 2	Primary Radiological	Special
OSB 3	Primary Radiological	Special
OSB 4	Primary Radiological	Special
OSB 5	Primary Radiological	Special
P17-22	Primary Radiological	CU-I
P17-31	Primary Radiological	CU-I
P17-32	Primary Radiological	CU-I
P17-33	Primary Radiological	CU-I
P17-40	Primary Radiological	CU-II
P18	Primary Radiological	CU-III
P18-11	Primary Radiological	CU-I
P18-12	Primary Radiological	CU-I
P18-20	Primary Radiological	CU-II
P18-40	Primary Radiological	CU-II
P19	Primary Radiological	CU-III
P19-20	Primary Radiological	CU-I
P19-23	Primary Radiological	CU-II
P19-40	Primary Radiological	CU-II
P20-30	Primary Radiological	CU-II
PUMP-1	Primary and Secondary Radiological	Special
Q16-33	Primary Radiological	CU-I
Q16-34	Primary Radiological	CU-I
Q17-10	Primary and Secondary Radiological	CU-II
Q17-30	Primary and Secondary Radiological	CU-II
Q18-10	Primary and Secondary Radiological	CU-II
Q18-30	Primary Radiological	CU-II
Q18-40	Primary Radiological	CU-II
Q19-10	Primary Radiological	CU-II
Q19-20	Primary Radiological	CU-II
Q19-30	Primary Radiological	CU-II
Q19-40	Primary Radiological	CU-II
Q20-10	Primary Radiological	CU-II

TABLE 2-4
(continued)

CU Name	CU Type	CU Class
Q20-20	Primary Radiological	CU-II
Q20-30	Primary Radiological	CU-II
Q20-40	Primary Radiological	CU-II
Q18-40a	Radium-226	Special
Q18-40b	Radium-226	Special
A1P1ST-1	Metals	Special
N19	Metals	CU-III
NAR1	Metals	Special
NAR2	Metals	Special
NAR3	Metals	Special
NAR4	Metals	Special
NAR5	Metals	Special
NAR6	Metals	Special
O18	Metals	CU-III
O19	Metals	Cu-III
O20	Metals	CU-III
OSB 1	Metals	Special
OSB 2	Metals	Special
OSB 3	Metals	Special
OSB 4	Metals	Special
OSB 5	metals	Special
P17-22	Metals	CU-I
P17-31	Metals	CU-I
P17-32	Metals	CU-I
P17-33	Metals	CU-I
P17-40	Metals	CU-II
P18	Metals	CU-III
P18-11	Metals	CU-I
P18-12	Metals	CU-I
P-18-13	Metals	CU-I
P18-14	Metals	CU-I
P18-31	Metals	CU-I
P18-32	Metals	CU-I
P19	Metals	CU-III
P20	Metals	CU-III
PUMP-1	Metals	Special
Q17	Metals	CU-III
Q18	Metals	CU-III
Q19	Metals	CU-III
Q20	Metals	CU-III
NAR1	PCB	CU-I
O18	PCB	CU-III
OSB 1	PCB	NA
OSB 2	PCB	NA

TABLE 2-4
(continued)

CU Name	CU Type	CU Class
OSB 3	PCB	NA
OSB 4	PCB	NA
OSB 5	PCB	NA
P17-31	PCB	CU-I
P17-33	PCB	CU-I
P18-11	PCB	CU-I
P18-13	PCB	CU-I
PUMP-1	PCB	Special

TABLE 2-5
AREA 1, PHASE I CERTIFICATION UNIT RECONFIGURATIONS AND ADDITIONS

Justification for CU Reconfiguration	CU	Suite	Result
1) Certification units were reduced in size or eliminated because the limits of soil excavation did not encompass the areas of the originally designed certification units. In cases such as these, the limit of the area being excavated is used as the basis for the designation of the boundaries of certification units.	Q16-31	Primary	eliminated - will be addressed in A1PII
	Q16-32	Primary	
	P17-32	Primary	reduced in size, because primary P17-14 was not excavated entirely, the portion of primary P17-14 that was excavated was consolidated to primary P17-32
	Q17	Metals	reduced in size
2) Certification units were created to account for excavation of soil in an area that was not originally accounted for by the designation of a CU. Areas excavated were not originally planned to be certified.	P17-22	Primary	CU created for area excavated between the A1PI impacted soil pile and CUs primary Q17-10 and primary Q16-33.
	P17-22	Metals	CU created for area excavated between the A1PI impacted soil pile and CUs metals Q17
3) Certification Units were reconfigured to account for the placement of the A1PI impacted soil pile. CUs could not be placed on or beneath the impacted stockpile.	P17-40	Primary	reduced in size
	P17-40	Metals	
	P17-20	Primary	eliminated - will be addressed in A1PII

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TABLE 2-5
(continued)

Justification for CU Reconfiguration	CU	Suite	Result
4) Numerous CUs were reconfigured to account for the approach being used to certify the existing North Access Road. Within A1PI, six additional CUs were designed for the certification of the northern part of the existing North Access Road. Within A1PI, two CUs were created for the road, two for the ditch west of the road, and two for the ditch east of the road. The CUs encompass the road and its ditches. The CUs adjacent to the existing North Access Road were reconfigured in shape and size to accommodate the incorporation of the existing North Access Road CUs.	NAR-1 through NAR-6	Primary Metals	created
	NAR-1	PCBs	created
	Q20-30	Primary	reconfigured
	Q20-20	Primary	
	P19-40	Primary	
	Q20-40	Primary	reduced in size
	Q20-10	Primary	
	Q19-30	Primary	
	P19-20	Primary	reduced in size, area west of the road was incorporated into newly created primary P19-23
	P19-23	Primary	created to incorporate area of primary P19-20 west of road
	P18	Primary	reduced in size, areas east of road were incorporated into primary P18-40 and primary P18-20
	P18-40	Primary	reconfigured, incorporated part of primary P18
	P18-20	Primary	reconfigured, incorporated part of primary P18 and primary P18-12
	P17-40	Primary	reconfigured, incorporated part of the former primary P17-34
	P17-34	Primary	eliminated, areas incorporated into primary P18-12 and primary P17-40, west and east of the road, respectively
	P18-12	Primary	reduced in size, area east of road was incorporated into primary P18-20. However, did incorporate western portion of primary P17-34
	P17-32	Primary	reduced in size, area east of the road is eliminated because it is beneath the A1PI impacted soil stockpile
	P18	Metals	reconfigured, areas of metals P18-32, P18-14, and P18-12 east of road were incorporated

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TABLE 2-5
(continued)

Justification for CU Reconfiguration	CU	Suite	Result
5) Certification Units were changed to reflect the elimination of Area D from the scope of A1PI. Remediation and subsequent certification of Area D will be conducted with Area 6. Originally, CUs in areas west of the old North Access Road were designated so that the area could be certified, and to prevent potentially contaminated run-on from impacting Area D. Since Area D will no longer be remediated and certified with A1PI, it is no longer necessary to remediate and certify the areas west of the old north access road with A1PI. These areas will be certified with A1PIII.	N19 N19	Primary Metals	reduced in size, incorporated areas east of old north access road only
	O18 O18	Primary Metals/PCB	reconfigured, eliminated areas within Area D, incorporated area of primary N-18 east of the old north access road
	N18 N18	Primary Metals	eliminated, portion east of old north access road was incorporated into primary O-18 and metals O-18
	M18-40 M18-40	Primary Metals	eliminated
6) Additional certification units were created to allow certification of the sediment traps of A1PI.	A1PIST-1	Primary, Metals	created
	A1PIST-2	Primary, Metals	created
	A1PIST-3	Primary, Metals	created
7) Certification units associated with the excavation of the OSDF sediment basin and the Pump Station (PS) were reconfigured to accurately reflect the limits of excavation.	PUMP-1	Primary/Sec Metals/PCB	created
	OSB-1	Primary, Metals	created
	OSB-2	Primary, Metals	created
	OSB-3	Primary, Metals	created
	OSB-4	Primary, Metals	created
	OSB-5	Primary, Metals	created
	O14-42	Primary, Metals	created
	P14-31	Primary, Metals	eliminated

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TABLE 2-5
(continued)

Justification for CU Reconfiguration	CU	Suite	Result
8) Due to certification failure of CU Q18-40 for radium-226, the CU was separated into northern (Q18-40A) and southern (Q18-40B) halves, both of which were certified for radium-226 only.	Q18-40A Q18-40B	Radium-226 Radium-226	created

TABLE 2-6
SUMMARY OF ESTIMATED NUMBER OF SAMPLES PER CERTIFICATION UNIT IN AREA 1 PHASE 1 TO ACHIEVE ACCEPTABLE CONFIDENCE LEVELS

ASCOC	FRL	Number of Samples Used in Model	Standard Deviation of Data from Unimpacted Areas	Target Clean-up Mean Soil Concentration (75% of FRL)	Calculated Number of Samples Required
PRIMARY ASCOCs					
Uranium, Total	82 mg/Kg	4211	23.166	50*	4
Radium-226	1.7 pCi/g	2224	0.574	1.275	12
Radium-228	1.8 pCi/g	1508	0.441	1.35	6
Thorium-228	1.7 pCi/g	1514	0.471	1.275	8
Thorium-232	1.5 pCi/g	2258	0.503	1.125	12
SECONDARY ASCOCs					
Aroclor-1254	0.13 mg/Kg	1036	0.034	0.0975	7
Aroclor-1260	0.13 mg/Kg	641	0.035	0.0975	8
Arsenic	12 mg/Kg	983	3.475	9	9
Beryllium	1.5 mg/Kg	999	0.397	1.125	7
Lead	400 mg/Kg	1149	43.478	300	2
Cesium-137	1.4 pCi/g	2595	0.381	1.05	8
Thorium-230	280 pCi/g	2034	29.472	210	2

* Total Uranium Target Level is based on As Low As Reasonably Achievable (ALARA) goals. 75% of the FRL for total uranium is 61.5 mg/Kg.

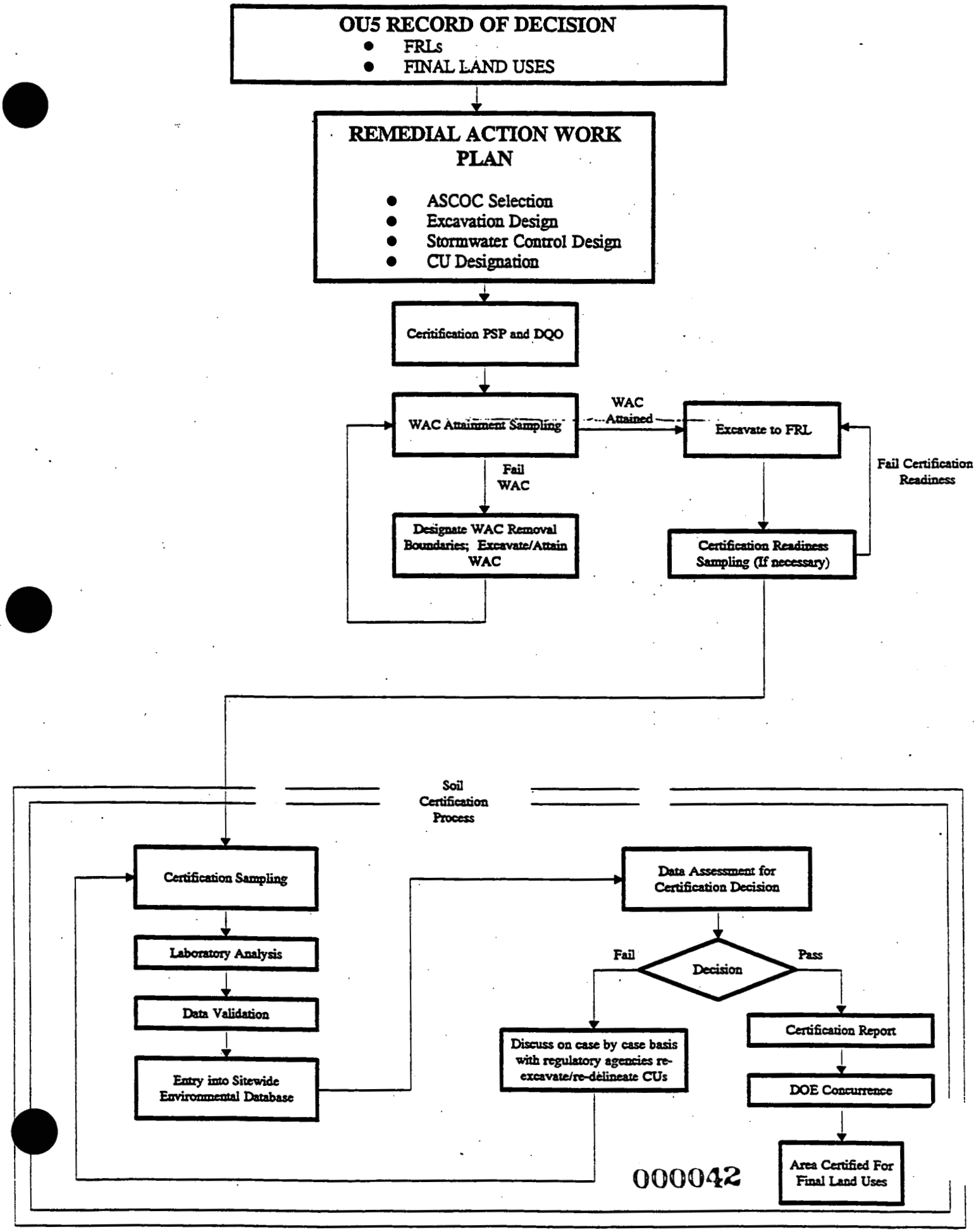

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Figure 2-1 A1PI SOIL REMEDIATION PROCESS FLOW DIAGRAM

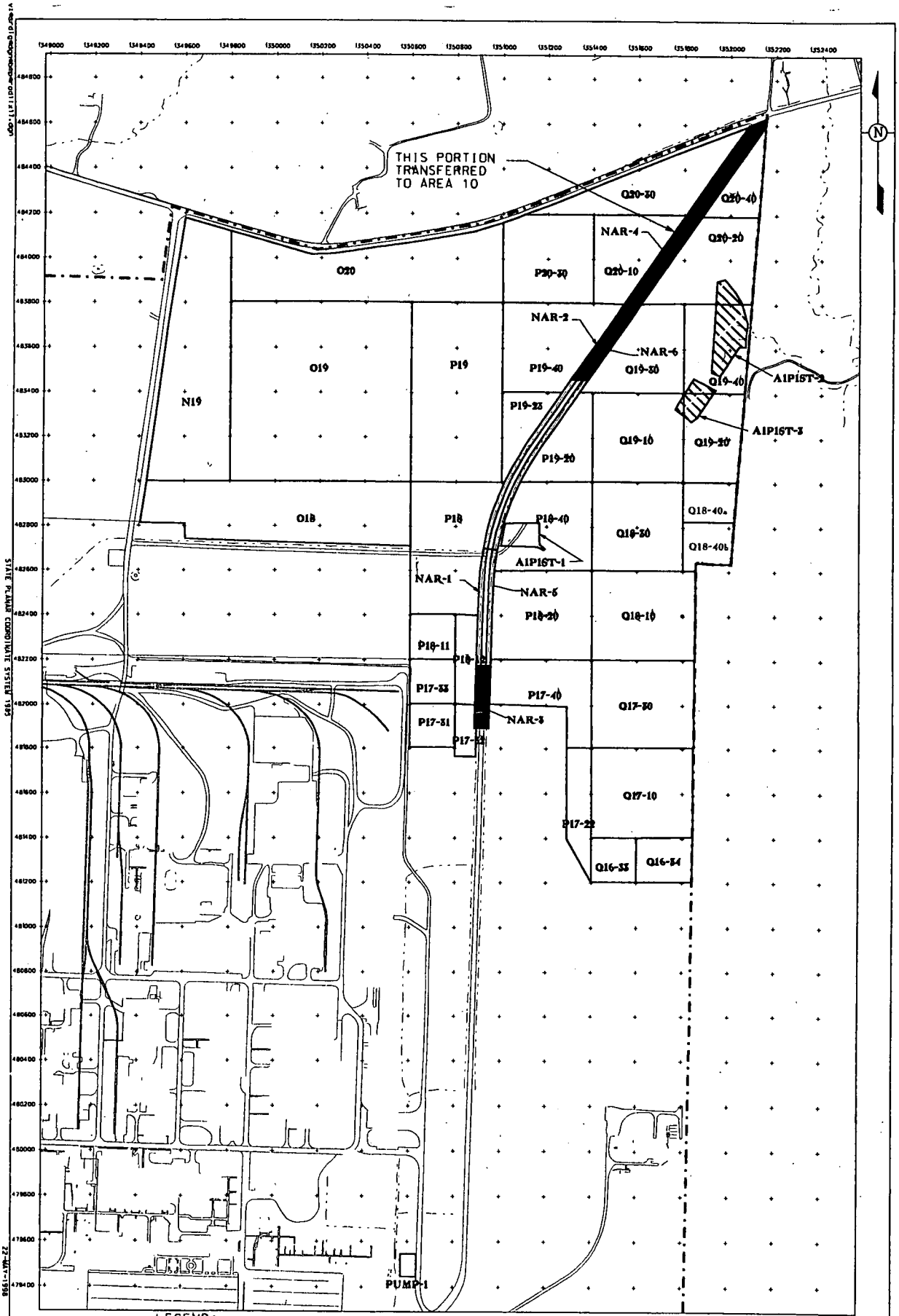

FIGURE 2-2. A1P1 RADIOLOGICAL CERTICIATION UNITS

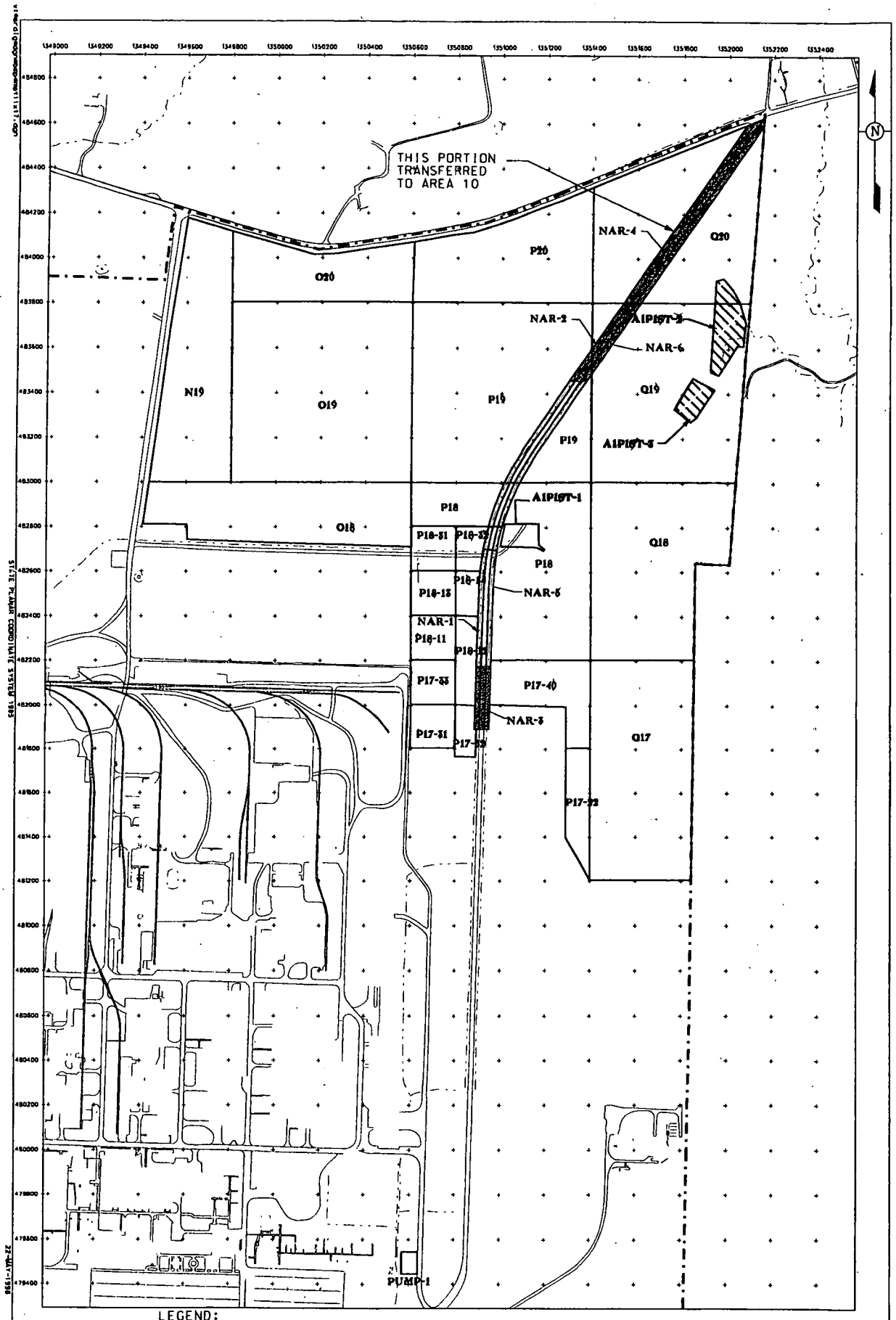

FIGURE 2-3. A1P1 METALS CERTIFICATION UNITS

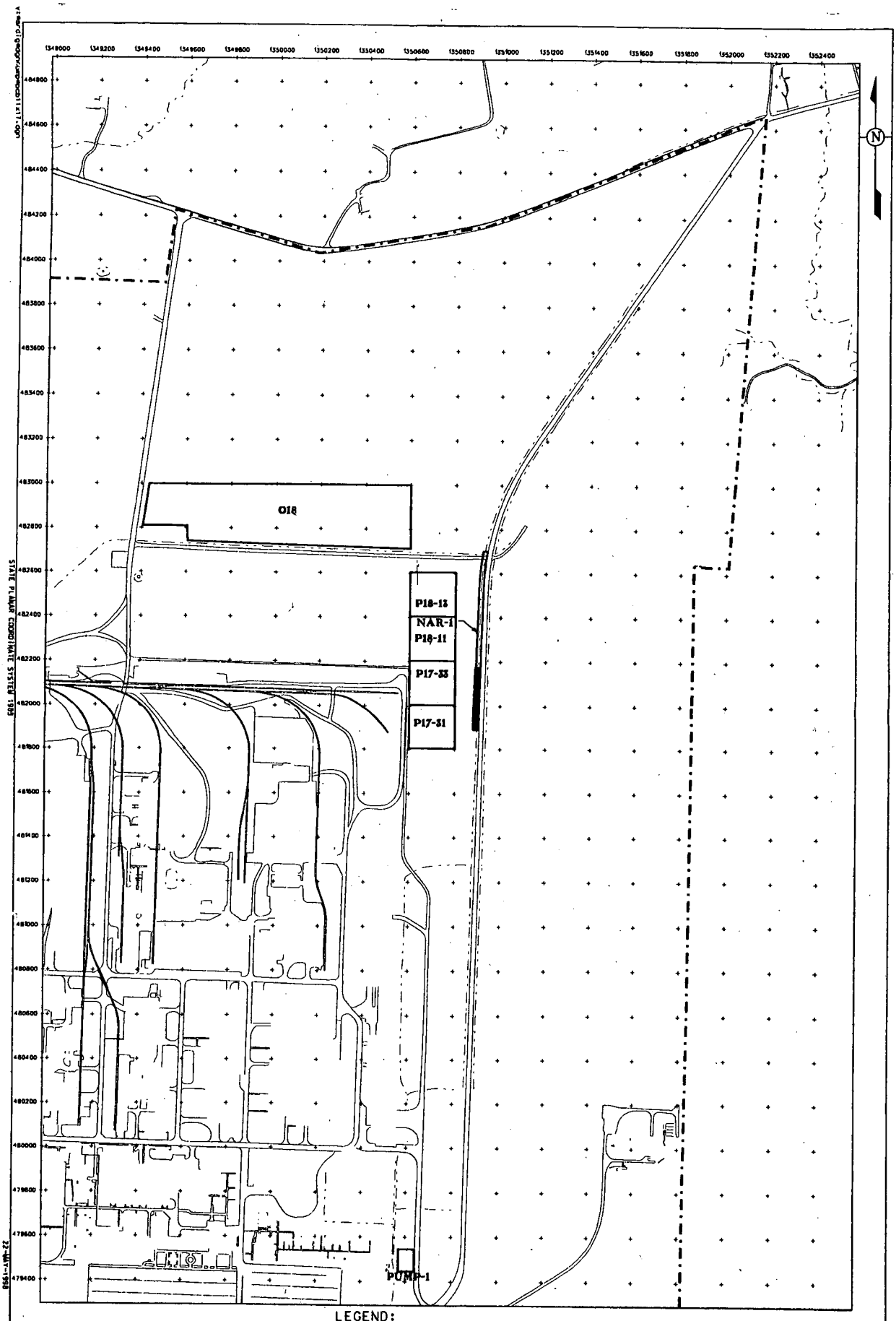

FIGURE 2-4. A1P1 PCB CERTIFICATIION UNITS

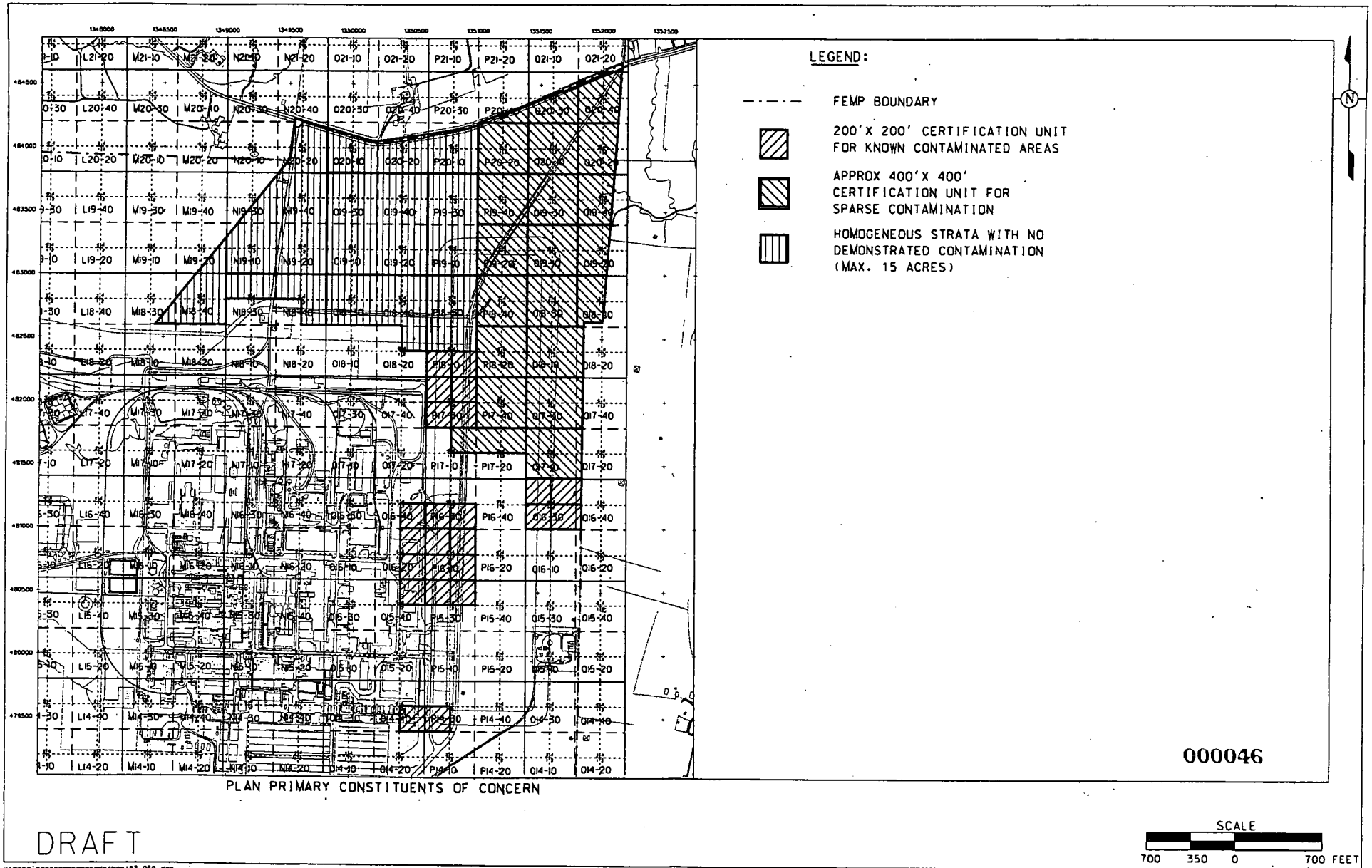

FIGURE 2-5. ORIGINAL A1PI CERTIFICATION SAMPLING FOR PRIMARY CONSTITUENTS OF CONCERN INCLUDED IN A1PI CERTIFICATION PSP.

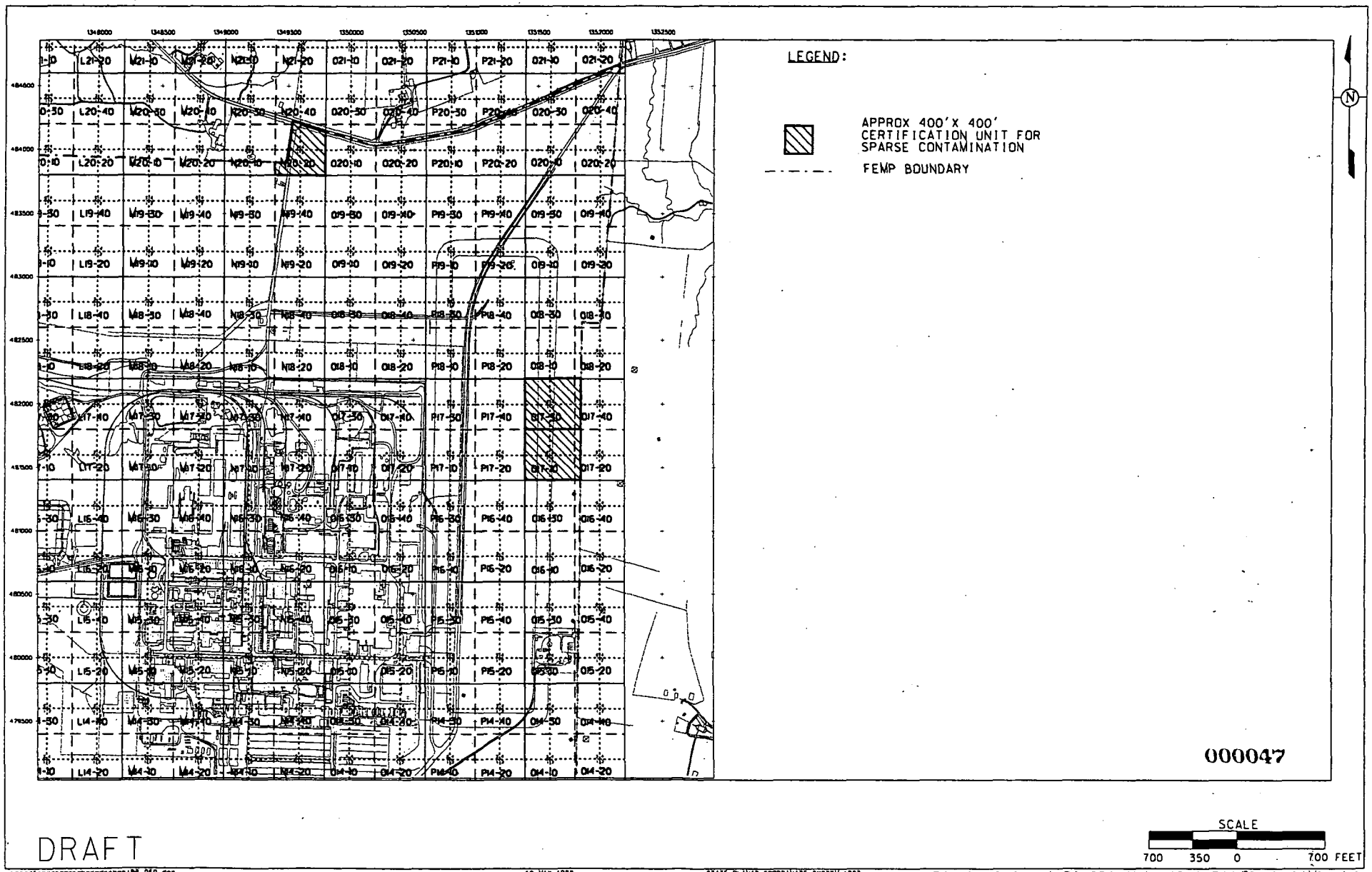

FIGURE 2-6. A1PI ORIGINAL CERTIFICATION SAMPLING FOR SECONDARY CONSTITUENTS OF CONCERN: RADs INCLUDED IN A1PI CERTIFICATION PSP

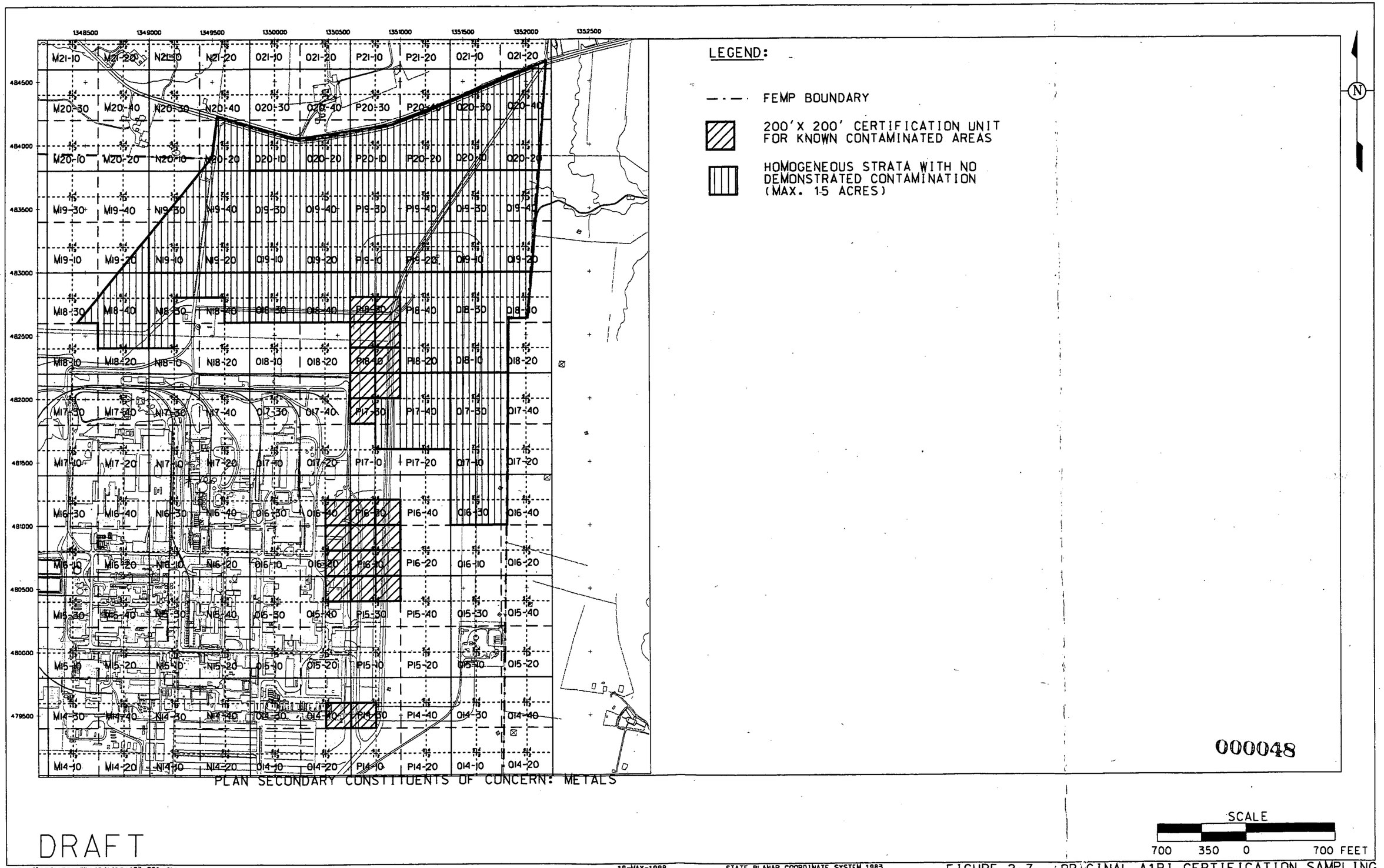

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FIGURE 2-7. ORIGINAL A1PI CERTIFICATION SAMPLING FOR SECONDARY CONSTITUENTS OF CONCERN: METALS. INCLUDED IN A1PI CERTIFICATION PSP.

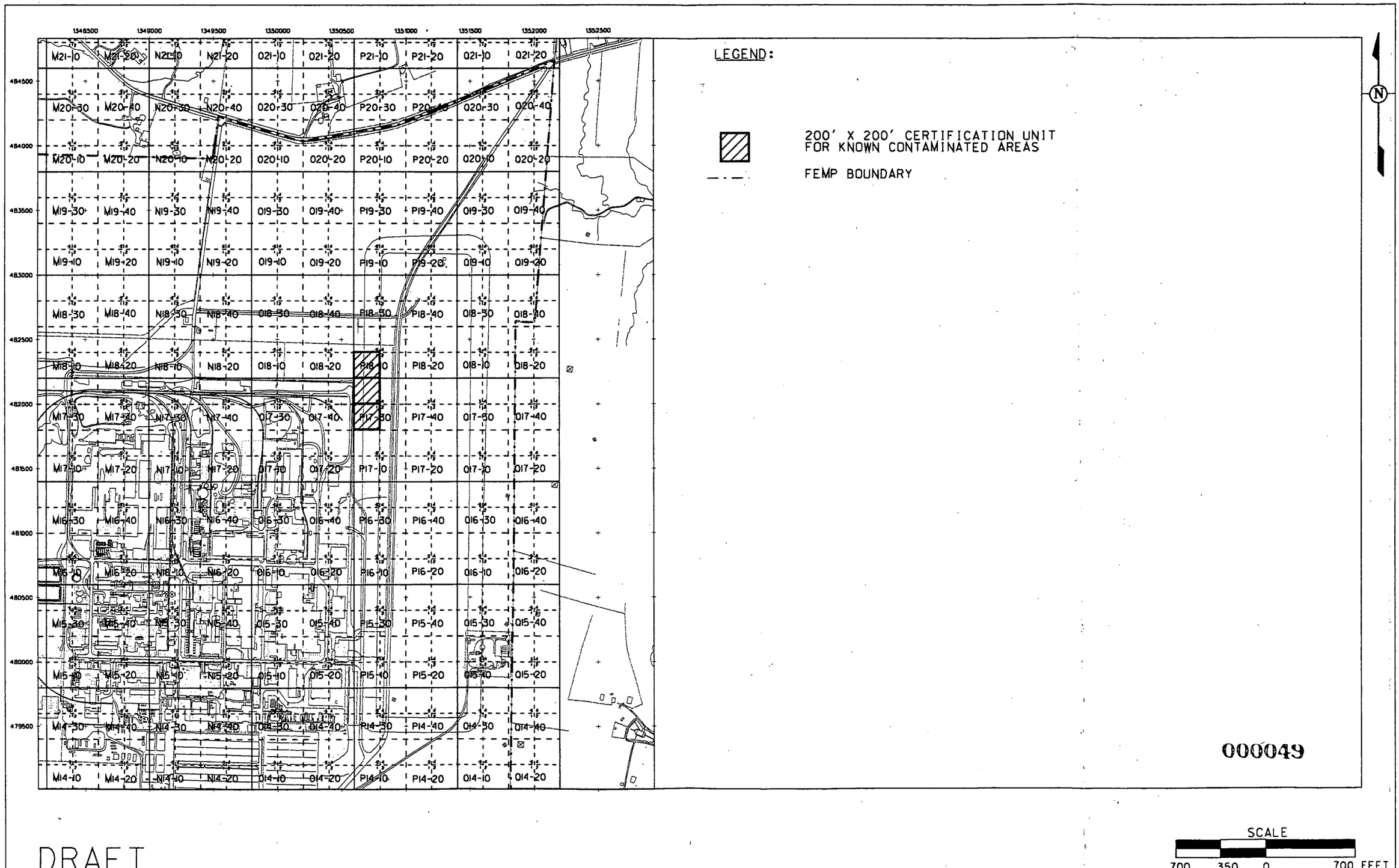

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FIGURE 2-8. ORIGINAL A1PI CERTIFICATION SAMPLING FOR SECONDARY CONSTITUENTS OF CONCERN: PCBs. INCLUDED IN A1PI CERTIFICATION PSP.

SECTION 3.0
OVERVIEW OF FIELD ACTIVITIES

3.1 AREA PREPARATION

A1PI remediation involved site preparation activities, including establishing stormwater controls, defining stockpile areas, and instituting access controls. Surface water and stockpile controls were established before any significant remedial activities occurred. Three sediment traps and two sedimentation basins (one on each side of the North Access Road) were constructed. In addition, diversion ditches, berms and silt fences were installed to prevent sediment in non-remediated areas from entering remediated areas (including non-remediated areas both on- and off-property). Silt fencing was also installed to prevent sediment from entering or leaving the remediation area. Boundaries were established for both debris and impacted soil stockpiles. Perimeter fencing and signs were installed to control access into the project work area; the procedure used to control access to the area is summarized in Section 6.0.

Three sediment traps and one sediment basin were constructed to collect runoff from remediated areas, to capture sediment, and to release water to flow across the existing drainage features without additional treatment. An additional sediment basin was constructed west of the North Access Road to collect runoff from the debris and soil stockpiles. This basin releases water to the Stormwater Retention Basin (SWRB). A timed release design allows the SWRB to accommodate the additional load. Treatment and discharge of water entering the SWRB is in accordance with the FEMP National Pollutant Discharge Elimination System (NPDES) permit and OU5 ROD requirements.

3.2 SOIL EXCAVATION

Soil excavation began after the controls for project surface water and waste placement were established. The A1PI Soil Remediation Project was divided into two functional subareas. The A1PI (East) Soil Remediation and Support Facilities Project included all remedial excavations east of the North Access Road. The Site Rail Improvement Project included all remedial excavations west of the North Access Road. Excavating and stockpiling soils on the same side of the North Access Road eliminated the potential for cross-contamination by avoiding hauling soils across the road. A total of 59 acres were excavated in A1PI An approximate six-inch layer of soil was excavated from most of A1PI (East) and placed in the east impacted soil stockpile. Approximately 53 acres were excavated in A1PI (East) (approximately 44.2 acres within the certification area and approximately 9 acres outside the

certification area for the sediment traps, a sediment basin, and stockpile area) and approximately 6 acres were excavated west of the North Access Road, as shown in Figure 3-1, Excavation Limits of A1PI.

3.3 CHANGES TO SCOPE OF WORK

Underground drain tiles within the remediation area located near, but outside, the OSDF footprint were removed to eliminate potential unplanned drainage pathways for OSDF leachate, as shown in Figure 3-2, A1PI Drain Tile Locations. The drain tiles were removed during A1PI activities using a backhoe and were placed in the east debris stockpile. Other drain tiles found within the OSDF footprint will be removed during OSDF construction.

After analysis of certification samples, certain areas were targeted for corrective action due to certification failure as discussed in Section 2.5. The additional volumes derived and a description of the corrective action are as follows:

- Approximately 1300 yd^3 from CU Q18-40b. This material resulted from excavating an additional six inches from the southern portion of the original CU, which was divided into two new CUs (Q18-40a and Q18-40b) when sample results indicated radium-226 exceeded the FRL following the initial excavation. This soil was placed in the A1PI East Stockpile.

- Approximately 950 yd^3 from CU P17-32. This material resulted from excavating an additional six inches from the CU following the determination that arsenic exceeded the FRL following the initial excavation. This soil was placed in the A1PI West Stockpile.

- Approximately 50 yd^3 of soil in CU O20. This material resulted from the excavation of a "hot spot" from the CU following the determination that uranium exceeded the pre-established criterion of 2 x FRL. This soil was placed in the OU1 blending pile.

Following certification, one portion of A1PI was excavated as part of OSDF construction activities. The soil underlying the North Access Road was certified in place as part of the A1PI activities. Samples were collected from the soil at a depth representing the top of the native clays underlying the road bed and adjacent drainage ditches. The soil, macadam (gravel bedding material), and asphalt residing above the certified native clay layer will be excavated during the initial phase of OSDF construction. The soil will be placed in the east soil and debris stockpiles for eventual placement in the OSDF. The certification data presented in this report for the North Access Road CUs represent samples from the native clay soil. This sequence of activities allows the North Access Road to be used as long as possible.

3.4 A1PI SOIL AND DEBRIS VOLUMES

The estimated (from the OU5 Feasibility Study and the A1PI Excavation Design) and actual A1PI excavated soil volumes are summarized in Table 3-1, A1PI Soil Volumes. The volumes and contents of the soil and debris stockpiles associated with the project are discussed in Section 3.4.1, A1PI Stockpiles.

The difference between the OU5 FS Excavation Model and the A1PI Design volumes, approximately 5,124 yd^3, is due to additional soil that was excavated east of the North Access Road. In the OU5 FS Excavation Model, a portion of A1PI east of the existing North Access Road was identified as non-impacted; this portion is shown as non-shaded areas in Figure 3-3, A1PI Excavation Footprint. The designed excavation area in A1PI is depicted in Figure 3-1. Additional soil was excavated during A1PI East Excavation activities for the following reasons:

- In order to segment the areas effectively and to design the excavation of the segmented areas, the areas would have to be separated by levels of COCs within the soils. At the time of the A1PI excavation design, a viable real-time monitoring process to detect radiological COCs was not available to attempt to segment the non-impacted areas from the impacted areas, as designated by the OU5 FS. The collection of analytical data from physical laboratory samples could not be completed within the A1PI excavation design schedule.

- The design would have required excavation of small isolated segments around the non-impacted area. The topography and established drainage patterns within and adjacent to the non-impacted area were such that excessive surface water controls would have been necessary in order to segment the excavation into two to three more parts.

Given the above factors, the conservative approach to excavate the additional area was adopted. Although the OU5 FS Excavation Model designated the area as non-impacted, the more stringent A1PI certification analyses indicated that at least one portion of the area was impacted (Q18-40 was located within the non-impacted area). Nonetheless, the excavation of non-impacted materials as designated by the OU5 FS Model will be minimized in the future.

The excavation of this and similar areas are not anticipated to cause the OSDF designed soil volume to be exceeded. A small percentage of the soil to be disposed in the OSDF will be generated from shallow excavations such as A1PI. Approximately 83% of the soil destined for the OSDF will be generated during the remediation of areas requiring deep excavation, such as the Former Production Area (Areas 3, 4, and 5), Southern Waste Units (Area 2, Phase I), etc.

3.4.1 A1PI Stockpiles

A1PI East Soil Stockpile

Contents: - 33,400 yd^3 from initial excavation of A1PI East
- 1,300 yd^3 from re-excavation of Q18-40b for radium-226 contamination

Total Volume: 34,700 yd^3

A1PI East Debris Stockpile

Contents: - Debris such as trees, concrete rubble, drain tiles, etc., from excavation of A1PI East

Total Volume: 225 yd^3

A1PI West Soil Stockpile

Contents: - 16,000 yd^3 from excavation of Area D for railroad expansion
- 5,700 yd^3 of A1PI West CUs
- 1,900 yd^3 from excavation of the areas necessary to construct the OSDF sediment basin (OSB-1 through - 5) and the OSDF permanent lift station (PUMP-1)
- 950 yd^3 from the re-excavation of P17-32 for arsenic contamination

Total Volume: 24,550 yd^3

A1PI West Debris Stockpile

Contents: Debris such as trees, concrete rubble, fencing, broken culvert piping, etc., from excavation of A1PI West and Area D for site railroad improvement

Total Volume: 680 yd^3

3.5 A1PI SEDIMENT TRAPS

There were three sediment traps located within A1PI, A1PIST-1, A1PIST-2, and A1PIST-3. The material that was used to construct the berms for all three originated from the sediment trap excavations prior to remedial excavation and certification. Figure 3-4, Area 1, Phase I Sediment Traps, shows the location of the remaining traps within A1PI (A1PIST-2 and A1PIST-3), including the location of the berms for each trap. A1PIST-1 was excavated during construction of OSDF Cell 1. CU A1P1ST-1 was certified in-place to reduce impact to the OSDF construction schedule. The berm materials in A1PIST-1 were considered impacted. The berm materials and contents of the trap were placed in the East Impacted Material Stockpile. Certification sampling and analysis testing were conducted on the

native soils beneath the berm materials for all ASCOCs. The results passed certification analysis and the analytical results are included in this report.

As part of the work scope of Area 1 Phase II, the remaining two sediment trap CUs, A1PIST-2 and A1PIST-3 (including the berm materials), will be sampled for certification. Following certification, the sediment traps will be graded for wetland mitigation. The volume of soil in the berms of the remaining sediment traps are approximately 1,120 yd^3 in A1PIST-2 and 1,140 yd^3 in A1PIST-3.

3.6 A1PI NAR CUs

The six CUs comprising the Old North Access Road (NAR) and ditches in A1PI (certification units NAR 1-6) were certified "in place" by taking waste acceptance criteria (WAC) and certification samples at depth and analyzing them as per previous agreement reached with the regulatory agencies. None of the samples indicated soil in the CUs was at or above the FRLs for ASCOCs. In order to remove artificial or imported media that can not be certified, a level of excavation into native material residing beneath the road fill is specified. When this road and fill material in CUs NAR 1-6 is excavated to the specified depth, certification of these CUs will be considered complete. Figure 3-5, Typical Cross Section of Excavation of Existing North Access Road, summarizes the methods used to excavate these areas to the certified depth. However, due to construction demands, completing excavation of the NAR CUs will be a phased process dictated by the OSDF construction schedule.

A northern section of approximately 350 feet of the NAR between the intersection of the new NAR and the northern perimeter of the OSDF has been left intact to provide support for the construction of the OSDF. It will be necessary to keep this unexcavated northern section of roadway intact until the completion of OSDF construction. Beginning at coordinate N 483445, E 1351342 approximately 1,300 feet of the NAR within the OSDF footprint (cells 1, 2 and half of cell 3) has been excavated to or beyond the specified certification depth. This excavated zone currently terminates at coordinates N 482175, E 1350928 which is approximately 250 feet north of the southern extreme of the A1PI NAR CUs. The southern (250') and northern (350') sections of the old NAR will not be considered certified until the artificial or imported materials have been excavated.

The remaining southern 250 foot section of certified in place old NAR will be excavated during July 1998 to accommodate the construction of the OSDF Cell 2 compacted clay liner. A separate

certification letter report for the southern section of the road will be submitted to the regulatory agencies after excavation to certification depth. The northern section of the old NAR will be transferred to Area 10, Corridors. Both the southern and northern sections will no longer be considered a portion of A1PI and are not included in this report. These portions of the ANR being excluded are depicted in Figure 3-6. The southern section of the road left in place is scheduled to be removed in June 1998. The northern section of the road left in place will be remediated with Area 10, as necessary.

The roadway south of A1PI has not been subjected to certification and WAC attainment sampling and will be addressed in the work scope detailed in the Certification Design Letter (CDL) for Area 1 Phase II, Sector 2. After in place certification and WAC attainment are completed, the remaining sections of the old NAR will be excavated sequentially to accommodate the construction of OSDF Cells 4, 5, 6, 7, and 8.

TABLE 3-1
A1PI SOIL VOLUMES

A1PI Area	FS Volumes (yd^3)	A1PI Designed Volumes (yd^3)	A1PI Actual Volumes (yd^3)
East*	24,880	30,000	34,700
West	4,760	4,760	5,700
Totals (without area of A1PIST-1, -2 and -3)	na	34,760	40,400
Totals (without area of A1PIST-1, -2 and -3; without 1,440 yd^3)	31,080	36,200	41,840

* The sediment traps installed within areas certified under A1PI have not been excavated at this time. The CUs associated with these sediment traps will be certified when the sediment traps are removed. All the material associated with each sediment trap will be placed in the OSDF. The volumes for the A1PI sediment traps do not include soil in the berms. The volumes of soil in A1PIST-2 and A1PIST-3 are 1,120 yd^3 and 1,140 yd^3 respectively.

EXCAVATION OF O20 HOT SPOT

WEST EXCAVATION AREA

EAST EXCAVATION AREA

SOIL EXCAVATED AREA

DEBRIS PILE

SOIL STOCK PILE

DEBRIS PILE

SOIL STOCKPILE

PUMP STATION

PUMP-1

O20 P20-30 Q20-10 Q20-20 Q20-30 Q20-40 NAR-4

O19 P19 P19-40 Q19-30 Q19-40 NAR-6 A1P1ST-2 A1P1ST-3 N19 P19-23 Q19-10 Q19-20 P19-20

O18 P18 P18-40 Q18-30 Q18-40 A1P1ST-1 NAR-1 NAR-5 P18-20 Q18-10 P18-11 P18-12

P17-33 P17-40 Q17-30 P17-31 P17-32 NAR-3 Q17-10 P17-22 Q16-33 Q16-34

LEGEND:

FEMP BOUNDARY
LIMITS OF EXCAVATION

CORRECTIVE ACTION AREAS

EXCAVATED WITH A1PI

SCALE

400 200 0 400 FEET

DRAFT

FIGURE 3-1. EXCAVATION LIMITS OF A1PI

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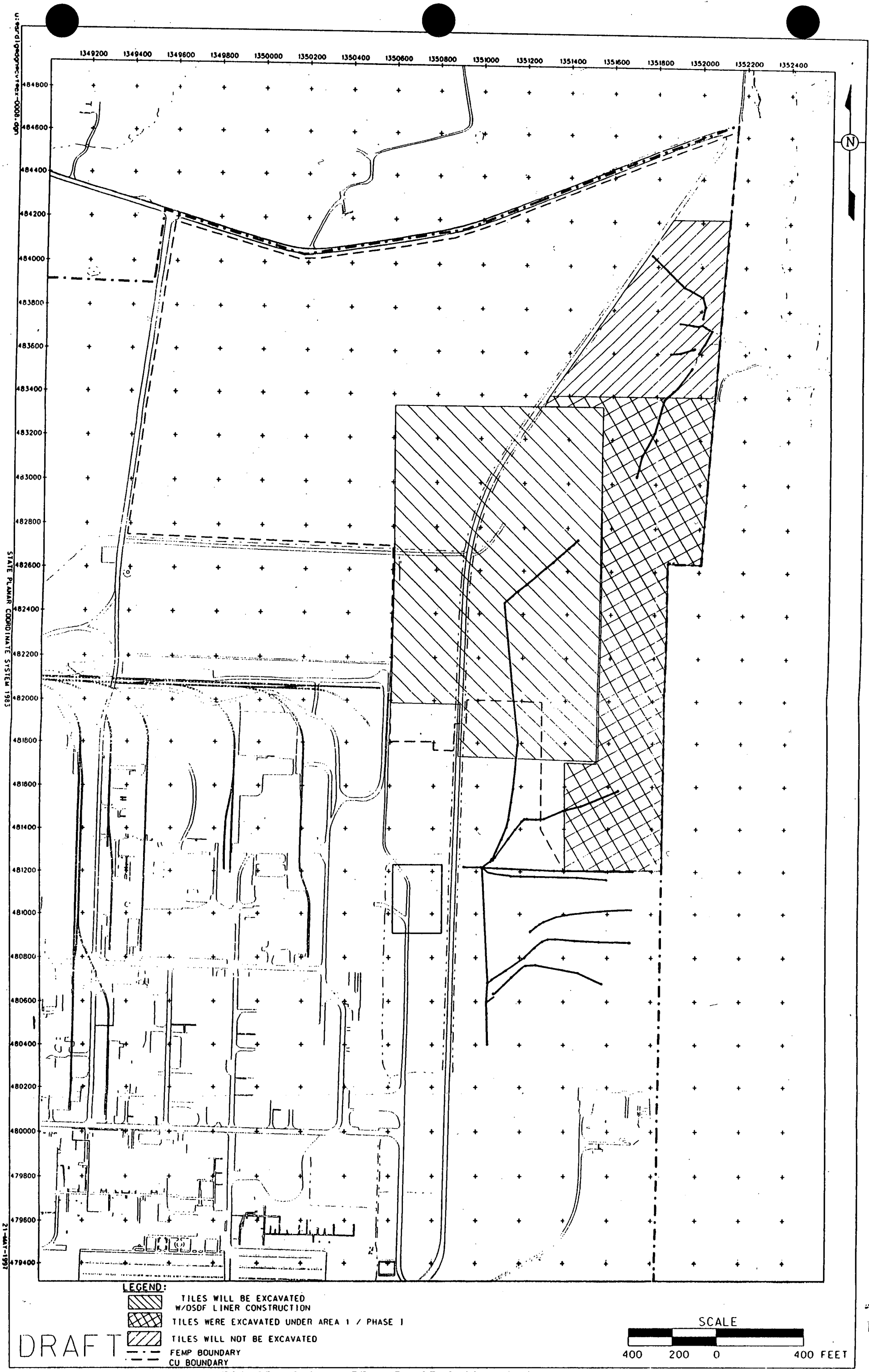

FIGURE 3-2. AREA1 PHASE I DRAIN TILE LOCATIONS

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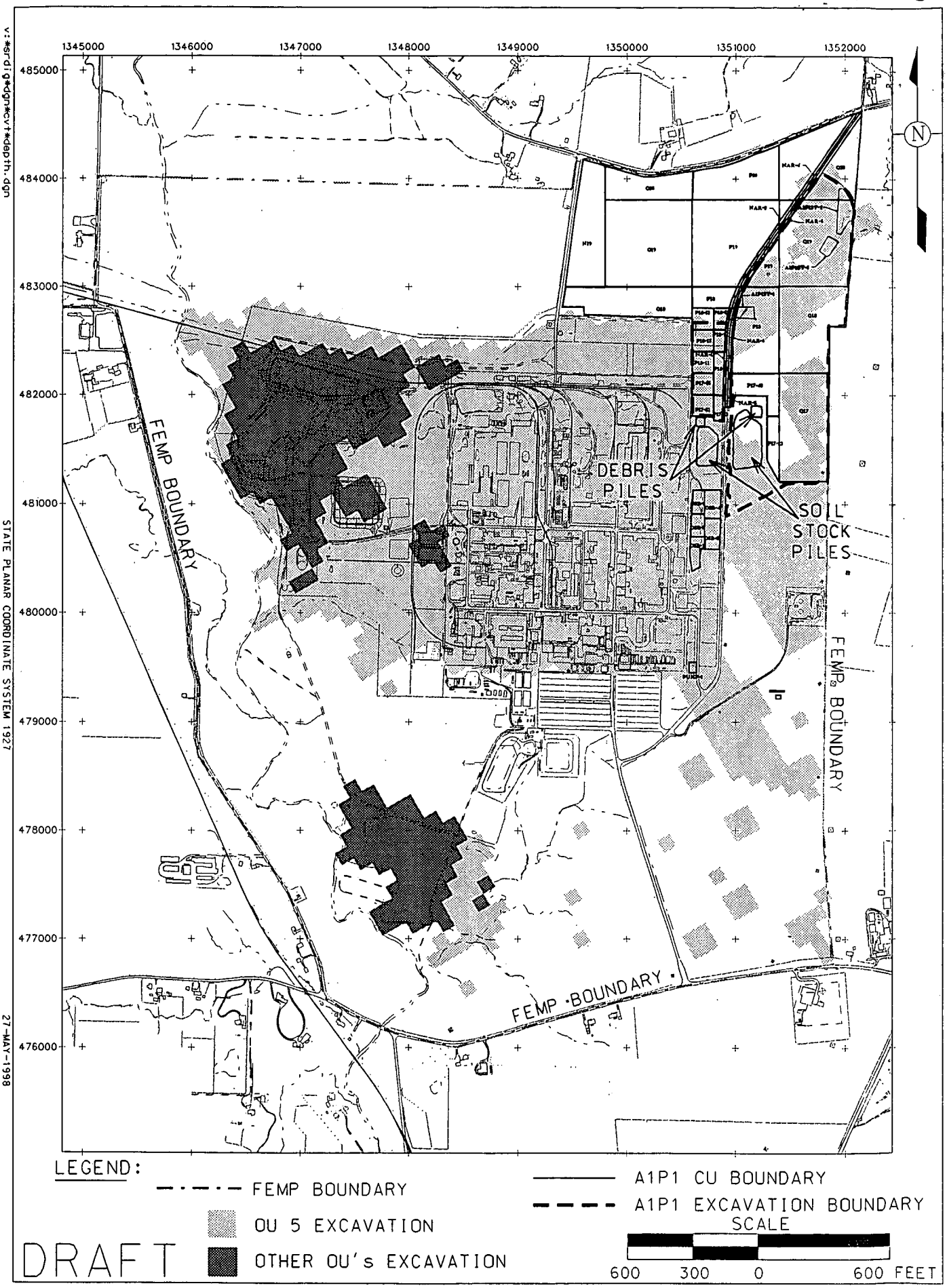


FIGURE 3-3. A1P1 EXCAVATION FOOTPRINT

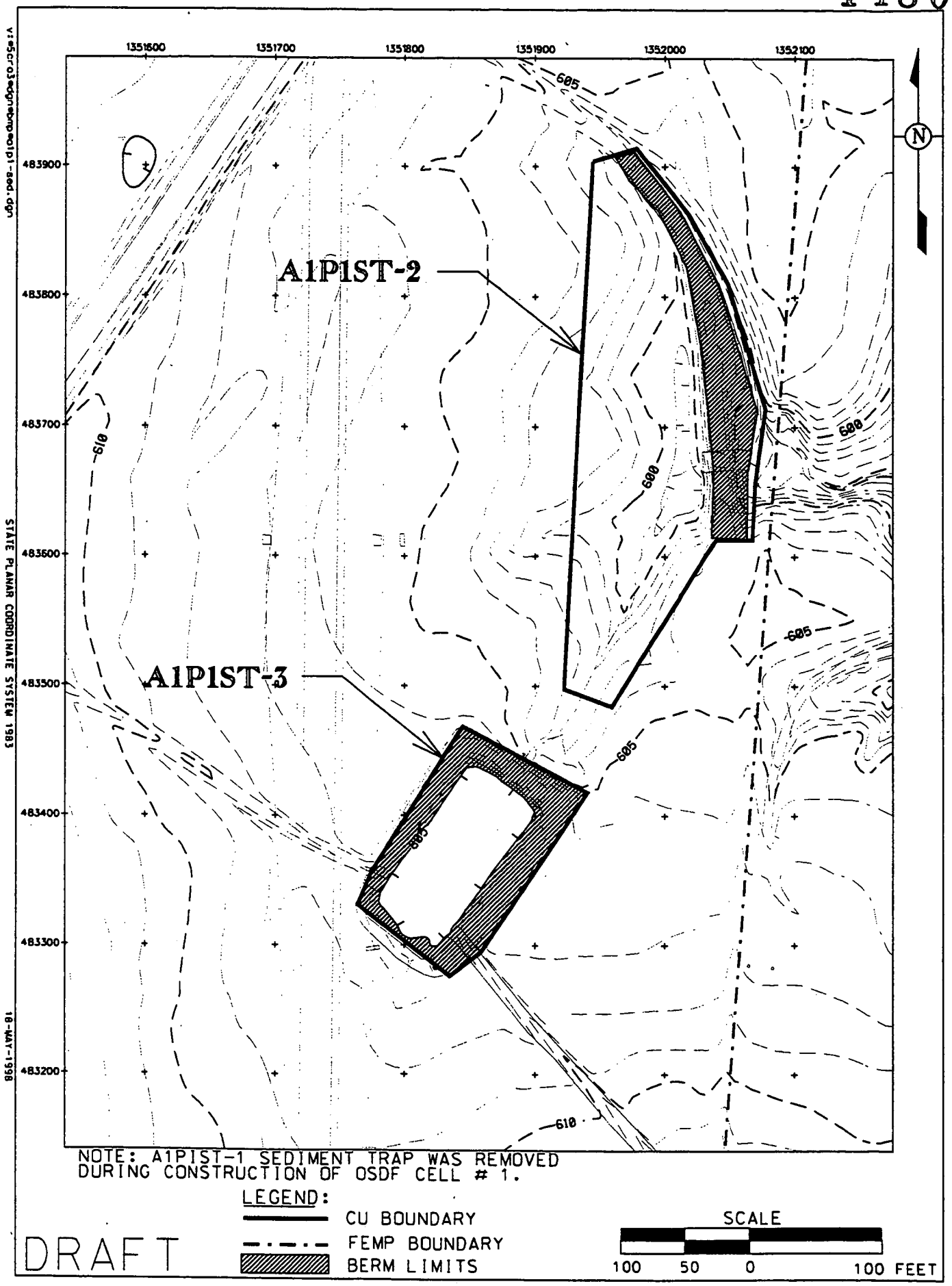


FIGURE 3-4. A1P1 SEDIMENT TRAPS

LEGEND

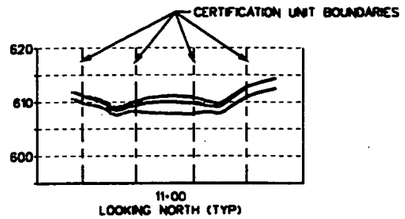
- PRE-EXISTING GROUND SURFACE
- BASE OF FILL (SEE NOTE 1)
- EXCAVATED SURFACE (SURVEYED)
- CERTIFICATION UNIT (CU) BOUNDARIES (NAR-1 TO NAR-6)

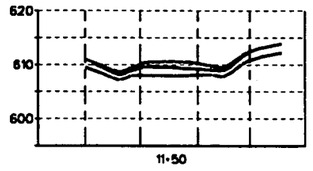
NOTES

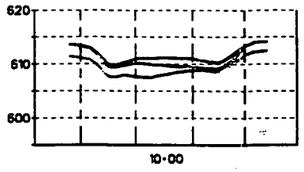
1) SOIL BELOW FILL HAS BEEN SAMPLED AND CERTIFIED.

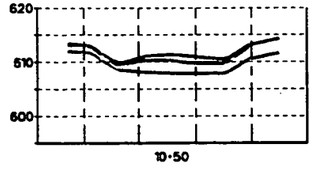
2) MATERIAL BETWEEN PRE-EXISTING SURFACE AND EXCAVATED SURFACE WAS HAULED TO EAST IMPACTED MATERIAL STOCKPILE.

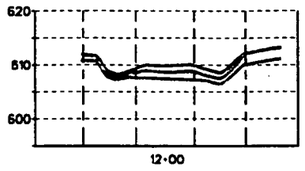
CROSS SECTION DIMENSIONS : 100' (HORIZONTAL) x 25' (VERTICAL)

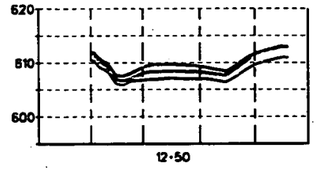


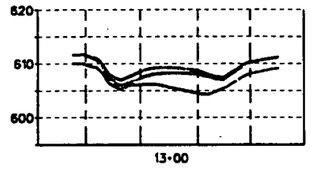


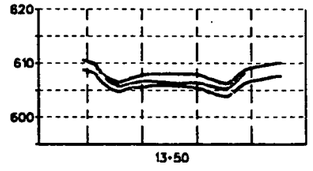


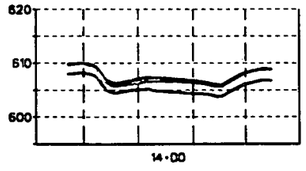


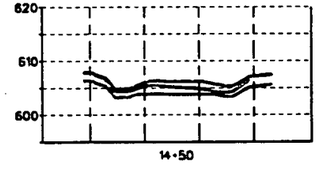


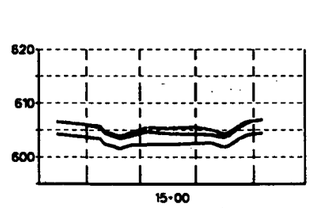


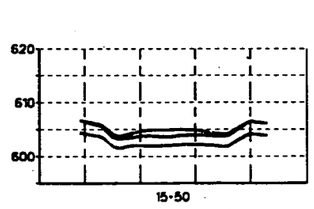


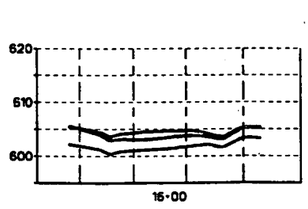


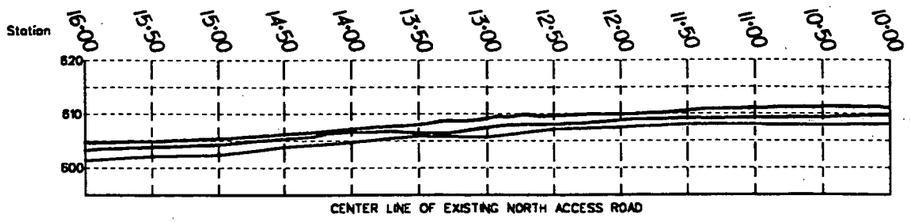


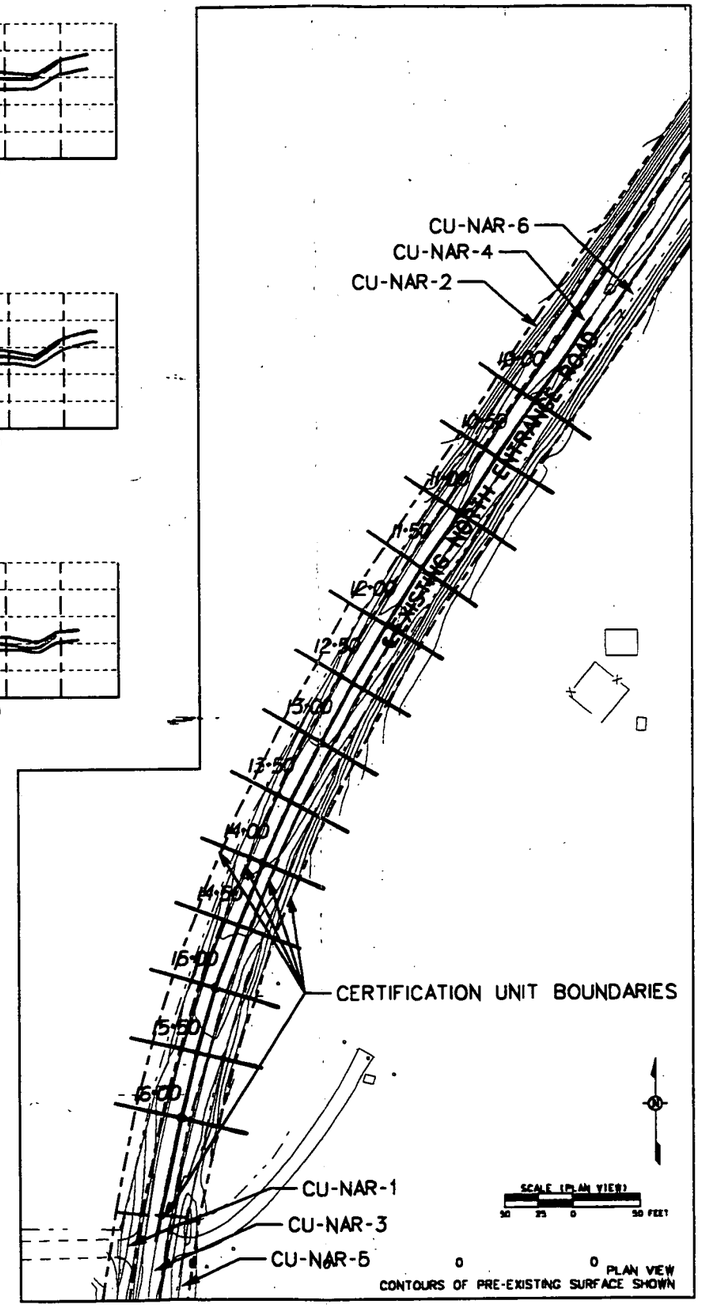












SCALE (SECTIONS)

HORIZONTAL (CROSS SECTIONS)	50	25	0	50 FEET
HORIZONTAL (C.L. SECTION)	100	50	0	100 FEET
VERTICAL	25	12.5	0	25 FEET

FIGURE 3-5. TYPICAL CROSS SECTION OF EXCAVATION OF EXISTING NORTH ENTRANCE ROAD

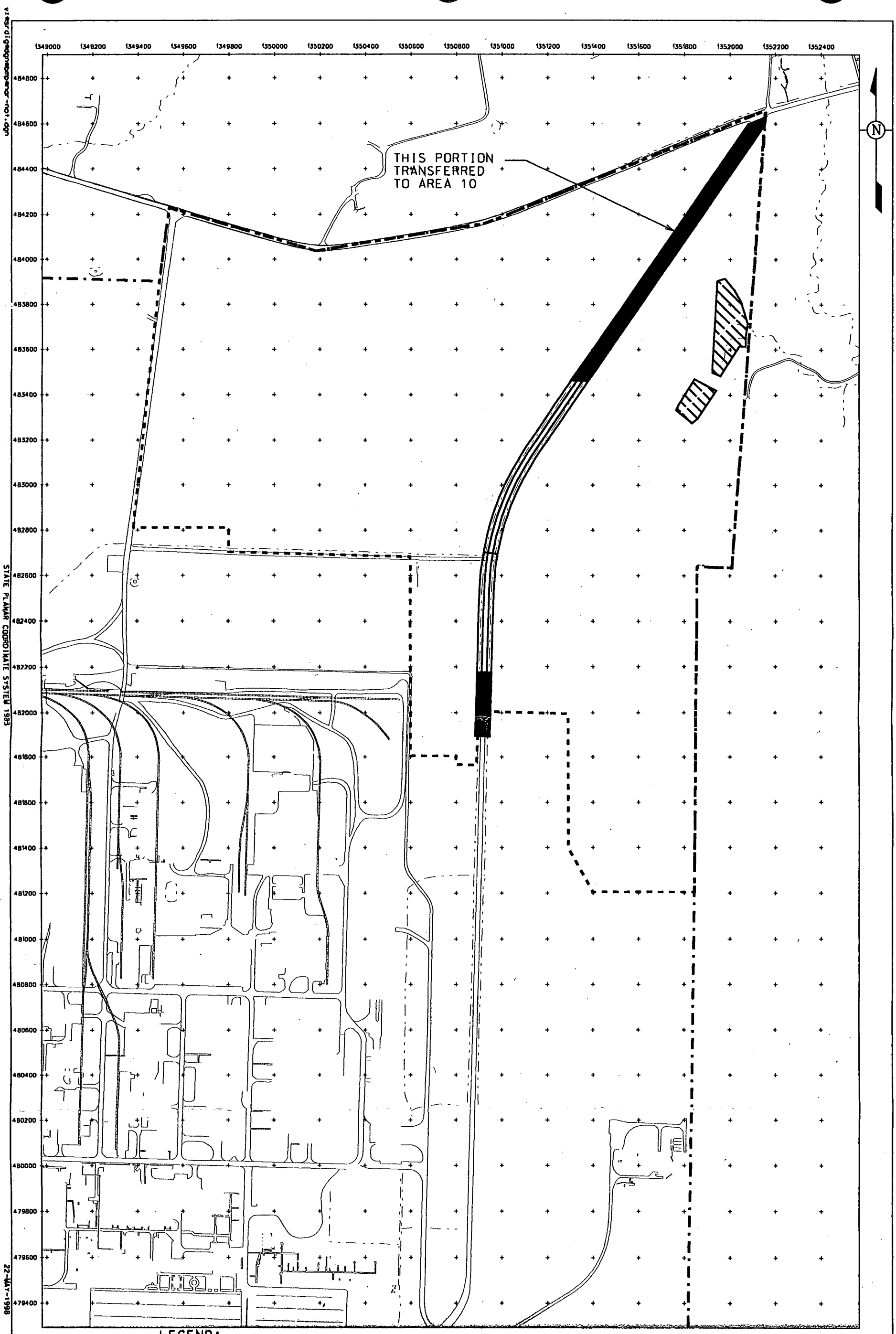


FIGURE 3-6. PORTIONS OF THE NAR NOT INCLUDED IN A1P1I CERTIFICATION REPORT.

SECTION 4.0
ANALYTICAL METHODOLOGIES, DATA VALIDATION PROCESSES, AND DATA REDUCTION

4.1 ANALYTICAL METHODOLOGIES

The samples for A1PI were analyzed at laboratories on the FEMP Approved Laboratories List per the Sitewide Quality Assurance Project Plan (SCQ). A laboratory must comply with SCQ requirements to be on the list. Furthermore, each laboratory was audited within one year of the analysis of A1PI samples. The SCQ is also the source for analytical methodologies, data validation and verification, and analytical and field quality assurance/quality control (QA/QC) requirements. All the samples in A1PI were analyzed and reported at Analytical Support Level (ASL) D. (Refer to the SCQ for more information on ASLs.) The reported data packages included sample results, associated QA/QC data, and all applicable raw data. A summary of the analytical methods follows.

4.1.1 Chemical Methods

Standard sample analytical methodologies were used. Samples were analyzed for inorganic ASCOCs using the EPA's Contract Laboratory Program (CLP) method ILMO3.1 or ILMO4.1, depending on the specific analytical task order requirements. Both methods are essentially the same in terms of analytical methodology; ILMO4.1 is the recently promulgated EPA method available for use by laboratories.

Samples were analyzed for PCBs using SW-846 method 8080 or CLP method OLMO3.1, depending on specific laboratory task order requirements. Both methods are equivalent regarding analytical quality methodologies and QA/QC requirements.

4.1.2 Radiochemical Methods

The radiological analytical methods depended on the specific nuclide of interest. Specific performance criteria were specified for each analyte in A1PI. This criteria included: Highest Allowable Minimum Detectable Concentrations (HAMDCs), percent overall tracer / chemical recovery, percent matrix spike recovery, method blank contamination, percent recovery for laboratory control samples, and percent recovery for duplicate samples. In order to meet these criteria the laboratories used to support A1PI used primarily two methodologies, alpha spectroscopy and gamma spectroscopy.

The alpha spectroscopy method consists of a chemical separation for the radionuclide of interest followed by alpha spectrometry counting. The measured values from this method were used for thorium-228, thorium 230, and thorium-232.

Gamma spectroscopy is a more direct method of analysis, in which the gamma radiation is measured from each sample. The presence of a radionuclide is based on the gamma radiation energies measured. This method was used for radium-226, radium-228, and cesium-137. This method was used to calculate the total uranium value, using the reported uranium-238 measurement. The calculation used was as follows:

Total Uranium (mg/kg) = (2.998544) x uranium-238 gamma spectroscopy result (pCi/g)

The validation qualifier assigned to the uranium-238 value was carried over to the total uranium value.

A1PI certification samples were analyzed for thorium-232 by two different methods; alpha spectrometry and gamma-ray spectrometry. Both are industry accepted methods for the analysis of Thorium-232 in soil. Alpha spectrometry analysis provides for the direct analysis of Thorium isotopes without the use of equilibrium assumptions. Gamma spectrometry, which is significantly less costly, uses the measurement of the gamma photons emitted by one or more Thorium-232 daughters to calculate an activity concentration based on an equilibrium assumption. For the purposes of thorium-228 and thorium-232 certification, alpha spectrometry, rather than gamma spectrometry, was used. The data used to calculate A1PI certification are included in Appendix B; other data collected during certification sampling, but not used to calculate certification (such as thorium-228 and thorium-232 gamma spectrometry results) are included in Appendix B.1.

Comparison of the individual results from A1PI indicates that those produced by gamma-ray spectrometry are generally higher than corresponding results generated by alpha spectrometry. Furthermore, statistical evaluation of the data sets for A1PI certification results identified 8 units that would slightly exceed the FRL for Thorium-232 at the 95% upper confidence limit on the mean based upon the gamma-ray spectrometry results. The FRL was exceeded in 7 of these units by less than 0.07 and by 0.36 in CU O20. Statistical analysis of the alpha spectrometry data for Thorium-232, however, identified that all certification units were less than the FRL at the 95% upper confidence limit. It was recognized that the source of the high bias associated with the gamma-ray spectrometry results relative to the alpha spectrometry results

could be due to a number of factors. The potential possibilities for the gamma-ray versus alpha spectrometry descrepancy included laboratory variability in gamma-ray spectrometry analyses (three contract laboratories were performing the analyses), a general high bias trend with gamma-ray spectrometry as compared to alpha spectrometry, or a laboratory-specific high bias due to the particular gamma-ray spectrometry approach (abundancies, photons and computational methods) which was being used. As a result of this descrepancy, its potential sources, and the FEMP's and, generally, contract laboratories familarity with alpha spectrometry, DOE made the decision to (1) report the A1PI certification results for thorium-232 in terms of alpha spectrometry and (2) continue to investigate the causes of the gamma-ray versus alpha spectrometry descrepancy.

The general trend toward higher results yielded by gamma-ray spectrometry versus alpha spectrometry for thorium-232 was identified during the compilation of the A1PI results and the development of a companion report evaluating the comparability of HPGe gamma-ray spectrometry measurements versus more traditional laboratory based gamma-ray measurements. An analysis was undertaken by the FEMP to attempt to understand the basis for this analytical phenomenon. While this analysis continues, recent evaluations have has highlighted the significance of the inherent variability in laboratory data, and methods, which is even more pronounced as the measured concentrations decrease toward the detection limit. Evaluation of individual samples measured for thorium-232 by both analytical methods at three commercial laboratories used to support A1PI certification indicated that gamma-ray spectroscopy results ranged from 13 to 17 percent higher than corresponding alpha measurements on the same samples. The FEMP attributes this variability to the uncertainty in the methods and to differences in analytical procedures and techniques between the three laboratories.

To begin to examine the origin of the variability, samples from CU O20 were submitted to a different lab for re-analysis by gamma spectrometry, in order to compare laboratory variability. The re-analysis indicated that the second laboratory's results varied by approximately 20% for the same samples using the same measurement techniques (gamma spectrometry). Further analysis indicated that each laboratory used different gamma photons, abundancies, and computational methods to quantify the thorium-232 results. While one method is not necessarily any better than another, the difference did lead to variability.

While evaluations continue to determine the necessary actions to minimize future variability in results, some preliminary lessons learned have been identified. First, a set of site-specific radiological standards will be developed by DOE's Environmental Measurements Laboratory for use as calibration standards or

check standards to be continually analyzed along with FEMP soil samples. Analysis of these standards will highlight future analytical variabilities or discrepancies. Second, analytical detection limits are being re-evaluated and specifications for more prescriptive analytical methods are being developed to be used consistently by all support or contract laboratories. The prescriptive methods will specify abundancies, which gamma photons are to be used for quantification, and specific computational methods.

4.2 DATA VERIFICATION AND VALIDATION

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

Specific parameters associated with the data were evaluated during V&V to determine if 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 analytical data to determine the level of confidence of the results. General areas examined that apply to all the chemical data include the following:

- Holding Times
- Instrument calibrations
- Calculation of results
- Matrix spike/matrix spike duplicate recoveries
- 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

Specific areas of evaluation for organic PCB data include:

- Gas chromatographic quality of PCB target compounds
- Surrogate recoveries
- Internal or External Standard Area evaluations for PCB data
- Relative percent difference between initial and continuing calibration response and calibration factors

Parameters unique to inorganic analyses that were evaluated include:

- Graphite furnace atomic absorption (GFAA) post-digestion spike recoveries
- Inductively coupled plasma (ICP) and GFAA performance checks

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

For A1PI, 90% of the data were validated at ASL B. This validation included a review of the data for all criteria noted above, and a cursory review of the raw data. Ten percent of the data were validated to ASL D. This validation included the same review process as for ASL B, but included a systematic review of the raw data and recalculations.

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

-	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; useable for decision-making purposes
UJ	Undetected result; detection limit is considered estimated or imprecise; useable for decision-making purposes
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..

4.2.1 Results of the Data Validation Process

The qualification of all data for this project is summarized in Table 4-1, Evaluation of Data Qualifiers, which includes the total number of data points, the number qualified as Rejected (R), and the number qualified as Estimated (J or UJ). In general, the data validation process did not result in a significant amount of the data being qualified estimated or unusable. In every CU an adequate number of data points was available for statistical analysis. Table 4-2 summarizes the reasons for qualification of the inorganics, and Table 4-3 summarizes the reasons for the qualification of radiological ASCOCs.

4.3 DATA REDUCTION

The data set for A1PI Certification ASCOCs can be found in Appendix B, and in Appendix C for Ecological ASCOCs. Each sample used to support the A1PI certification decision was entered in the FEMP Sitewide Environmental Database (SED) with the following information.

Field Information

- Sample Identification Number - A unique number assigned to each discrete sample point.
- Sample Collection Date - Date the sample was collected in the field
- 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 inorganic and organic data these qualifiers are consistent with the CLP Qualifiers. 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. For example, 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 was queried from SED. All the data was used even if the CU had more than the minimum required data points.
2. The data from the validation fields were used for statistics.
3. Data with a qualifier of R or Z was not used in the statistics.
4. Duplicate results were averaged, and the average result was used in the statistics.
5. One half of the non-detect (U or UJ) values were used in the statistics.

TABLE 4-1
EVALUATION OF DATA QUALIFIERS

Analyte	Method	Total Number of Points[a]	Number Qualified "R"	Number Qualified "J" or "UJ"
Total Uranium	calculation/gamma	653	0	196
Thorium-232	alpha	660	0	202
Thorium-228	alpha	660	0	231
Radium-226	gamma	668	0	74
Radium-228	gamma	659	0	46
Cesium-137	gamma	43	0	0
Thorium-230	alpha	43	0	8
Arsenic	ILMO3.1 or ILM)4.1	409	0	124
Beryllium	ILMO3.1 or ILMO4.1	406	0	3
Aluminum	ILMO3.1 or ILMO4.1	485	0	40
Manganese	ILMO3.1 or ILMO4.1	495	16	228
Molybdenum	ILMO3.1 or ILMO4.1	485	0	116
Aroclor-1260	SW-846 8080	77	4	14

[a] If a sample was re-analyzed, both the original result and the re-analysis are included in this total.

TABLE 4-2
REASONS FOR QUALIFICATIONS OF INORGANIC / ORGANIC DATA

Analyte	Qualifier (s)	Primary Reasons for Qualification
Aluminium	J	• Serial Dilution imprecision. • Laboratory duplicate imprecision.
Arsenic	J / UJ	• Matrix Spike recoveries out of control. • Initial Calibration Check Standard (ICS) recovery low. • Field Duplicate RPD high
Beryllium	J / UJ	• Field Duplicate RPD high.
Manganese	R	• Matrix Spike recoveries were less than 30%. These samples were reanalyzed, and some recoveries remained below the acceptable limit.
Manganese	J	• Serial Dilution imprecision. • Matrix Spike recoveries out of control • Field duplicate RPD high. • Laboratory duplicate imprecision.
Molybdenum	J / UJ	• ICS recovery low.
Aroclor 1260	R	• Matrix Spike recoveries were out of control. These samples were reanalyzed. All reanalyses resulted in acceptable data..
Aroclor 1260	J / UJ	• Hold times were slightly exceeded.

TABLE 4-3
REASONS FOR QUALIFICATION OF RADIOLOGICAL DATA

Analyte	Qualifier (s)	Primary Reasons for Qualification
Radium 226	J / UJ	• Laboratory duplicate imprecision. • Field duplicate imprecision. • Calibration deficiency. • High background.
Radium -228	J / UJ	• Elevated TPU. • Calibration deficiency. • Laboratory blank contamination
Thorium-228	J / UJ	• Tracer yield out of control. • Laboratory duplicate imprecision. • Matrix Spike recovery out of control. • Laboratory blank contamination.
Thorium-230	J / UJ	• Tracer yield out of control. • Laboratory duplicate imprecision. • Matrix Spike recovery out of control. • Laboratory blank contamination.
Thorium-232	J / UJ	• Tracer yield out of control. • Laboratory duplicate imprecision. • Matrix Spike recovery out of control. • Laboratory blank contamination.
Total Uranium	J / UJ	• Elevated TPU. • Laboratory duplicate imprecision. • Laboratory blank contamination.
Cesium-137	J / UJ	• Elevated TPU. • Laboratory duplicate imprecision.

SECTION 5.0
CERTIFICATION RESULTS AND CONCLUSIONS

The current pass/fail certification results for A1PI CUs are summarized in Table 5-1, Area 1 Phase I Certification Results. 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 2.5. As indicated in Table 5-1, all the CUs in A1PI have passed certification. CUs O20, Q18-40, and P17-32 required additional corrective actions to attain the final certification criteria.

Initially, some CUs failed certification based upon the statistical analyses discussed in Section 2.5. Note that the certification criteria are specific to A1PI; criteria for all other areas are defined in the SEP. Additional corrective actions aside from the designed excavation were taken for any CU that did not pass initial certification. Corrective actions included: collection of additional samples, and re-excavation of soil in the entire CU, or portions of a CU, to a sufficient depth that the CU under question passed certification. Each CU was re-certified for the COC(s) for which it had initially failed. A discussion of the CUs which required corrective actions to complete certification is included in Section 5.3.

5.1 FRLs RELATIVE TO THE UCLs

All CUs passed final FRL certification relative to the average concentration of COCs in residual A1PI soils. Additionally, the total uranium ALARA goal of 50 mg/kg in residual soils was not an issue in A1PI. Three CUs required additional corrective actions; i.e., excavation of more than the designed six inches, or additional sampling, to pass FRL certification analyses. These CUs were Q18-40 for radium-226, P17-32 for arsenic, and O20 for radium-228.

5.1.1 Q18-40 Radium-226

Twelve certification samples were collected and analyzed for primary radiological COCs in CU Q18-40 after the CU had been initially excavated. Of the 12 sample results, 3 were above the radium-226 FRL of 1.7 mg/kg. The original certification sample locations and results for radium-226 within Q18-40 are depicted in Figure 5-1, Original Radium-226 Certification Results in Q18-40. CU Q18-40 initially failed FRL certification for radium-226 based on statistical analysis, with an upper confidence limit of 1.80 pCi/g, and a probability of 13.5% that the mean concentration is above the radium-226 FRL.

These results are shown in Table 5-2, Radium-226 Certification Results and Statistics in Q18-40 Before Corrective Action. Corrective actions taken for this CU are discussed in Section 5.3.

5.1.2 P17-32 Arsenic

Fourteen certification samples were collected in CU P17-32, and analyzed for inorganic COCs. Of the 14 sample results, 7 were above the arsenic FRL of 12 mg/kg. The original certification sample locations and results for arsenic within P17-32 are depicted in Figure 5-2, Original Arsenic Certification Results in P17-32. CU P17-32 failed certification for arsenic based on statistical analysis, with an upper confidence limit of 13.05 mg/kg, and a probability of 41.1% that the mean concentration is above the FRL. These results are shown in Table 5-3, Arsenic Certification Results and Statistics in CU P17-32 Before Corrective Action. Corrective action taken for this CU is discussed in Section 5.3.

5.1.3 O20 Radium-228

Twelve certification samples were collected in CU O20 and analyzed for primary radiological COCs. Five of the 12 results for radium-228 were above the 1.8 pCi/g FRL. The original certification sample locations and results for radium-228 are depicted in Figure 5-3, Original Radium-228 Certification Results in O20. CU O20 failed the certification for radium-228 with a UCL of 1.86 pCi/g, and a probability of 11.6% that the mean concentration is above the FRL. The statistical analysis is shown in Table 5-4, Radium-228 Certification Results and Statistics in CU O20 Before Corrective Action. The corrective action taken for this CU is discussed in Section 5.3.

5.2 HOT SPOT DETERMINATION

All CUs passed final certification relative to the "hot spot" criterion of COCs in residual soils of A1PI. Only CU O20 for total uranium required an additional corrective action to pass the A1PI "hot spot" criterion of 2 x FRL.

5.2.1 O20 Total Uranium

Based upon the certification sample results, CU O20 failed certification for total uranium due to a concentration of 205.4 mg/kg in a single sample point compared with the 2 x FRL criterion of 164 mg/kg. The original certification sample locations and results for total uranium within O20 are depicted in Figure 5-4, Original Total Uranium Results in O20. The O20 total uranium original certification sample results and statistics are summarized in Table 5-5, Total Uranium Certification

Results And Statistics O20 Before Corrective Action. Corrective action taken for this CU is discussed in Section 5.3.

5.3 ADDITIONAL CORRECTIVE ACTIONS FOR FAILING CUs

5.3.1 Q18-40 Radium-226 Corrective Action

As a result of the initial certification failure for radium-226 in CU Q18-40, the following actions were taken as agreed upon with the regulatory agencies. Since the original certification results demonstrated that the area of contamination appeared to be primarily located in the southern portion of the CU, the CU was divided into two new CUs. The 482825 northing coordinate line was used to bisect the CU. The northern CU was labeled Q18-40A, and the southern CU was labeled Q18-40B. The two CUs were then divided into 16 sub-CUs, as shown in Figure 5-5, New CUs Q18-40A and Q18-40B and Systematic Random Sampling Locations within Each. The plan to determine the depth of regional excavation required to remove contaminated radium-226 soil for Q18-40A and Q18-40B is discussed in Sections 5.3.2 and 5.3.3, respectively.

5.3.2 Q18-40A

In Q18-40A, five original Q18-40 sample locations and their radium-226 results were retained for radium-226 certification results. These locations are #2, #5, #8, #9, and #11 in Figure 5-1, and #6, #14, #7, #15, and #4 in Q18-40A in Figure 5-5. These sample locations and their analytical laboratory results serve as the radium-226 results for each of their respective subunits. Sample locations were randomly selected in the other 11 subunits in Q18-40; these are shown in Figure 5-5.

Using the Geoprobe® Technique, soil core samples were collected in 6 inch intervals at the 16 locations to a depth of 24 inches in Q18-40A (see Figure 5-5). For the initial five sample locations, the 6-12 inch interval was submitted for analysis, and the 12-18 inch and 18-24 inch intervals were archived. The other 11 locations were sampled at both the 0-6 inches and the 6-12 inch intervals, and samples were submitted for radium-226 analysis. The 12-18 and 18-24 inch intervals were archived. Based upon the statistical evaluation of the radium-226 data shown in Table 5-6, Q18-40A Post Corrective Action 0-6 inch and 6-12 inch Radium-226 Statistics, Q18-40A passed certification analyses at the 0-6 inch interval. This evaluation was completed using the original 5 sample points and the additional 11 samples. No further corrective action is necessary. Furthermore, the 6-12 inch interval also passed certification and this data is also presented in Table 5-6.

5.3.3 Q18-40B

Using the Geoprobe® Technique, a soil core was collected to a depth of 24 inches at each of the 16 random points within Q18-40B. The cores were divided into 4 discrete 6-inch increments. Except for WAC attainment samples submitted for total uranium analysis, the 0-6 inch samples were discarded, since this increment was removed due to demonstrated radium-226 contamination.

The 6-12 inch and 12-18 inch intervals were collected and analyzed for radium-226, and the 18-24 inch intervals were archived. Based on statistical evaluation of the radium-226 data shown in Table 5-7, Q18-40B Post Corrective Action 6-12 inch and 12-18 inch Radium-226 Statistics, Q18-40B passed certification analyses at the 6-12 inch interval. Furthermore, the 12-18 inch interval also passed certification and these data are also presented in Table 5-7. Based on these results, the excavation was limited to 6 inches as shown in Figure 5-6, Q18-40 Re-excavation.

A review of the data collected from CUs Q18-40A and Q18-40B was conducted to determine if the corrective action was sufficient for certification of the area. Review of the average concentrations does show a slight increase at depth for CU Q18-40A, but a decrease for CU Q18-40B. For the background data set, the 95th percentile for radium-226 is 1.42 pCi/g. The concentrations measured in these CUs are all within the background levels and the analytical uncertainties. Therefore, these data do not raise the question that the radium-226 contamination in the area came from another source than air deposition. No further corrective action is necessary.

5.3.4 P17-32 Arsenic Corrective Action

An additional six inches of surface soil was removed from CU P17-32 to address the certification failure for arsenic. The following plan was used to determine the depth of regional excavation required to remove soil contaminated with arsenic exceeding the FRL.

P17-32 was re-divided into 16 sub-units, and a random sampling location was selected within each sub-CU as shown in Figure 5-7, Random Sample Points in CU P17-32. Using the Geoprobe® Technique, a soil core was collected to a depth of 24 inches at each of the 16 random points. The cores were divided into four discrete six-inch increments. Except for WAC attainment samples submitted for total uranium analysis, the 0-6 inch samples were discarded, since this increment was removed due to

demonstrated arsenic contamination. The 6-12 inch, 12-18 inch and 18-24 inch samples were analyzed as follows:

- All 16 of the 6-12 inch delineation increments were analyzed using the graphite furnace atomic adsorption method.
- Had the 6-12 inch sample results shown arsenic concentrations above the FRL, the 12-18 inch delineation increments would have been analyzed.

When results from a delineation increment revealed no arsenic contamination, the archived certification portions of that increment were validated and used as the P17-32 arsenic certification data. Based upon the statistical evaluation of the arsenic data shown in Table 5-8, P17-32 Post-Excavation Arsenic Statistics, P17-32 passed certification analyses at the 6-12 inch interval. The 0-6 inch interval across the entire P17-32 CU was excavated.

Prior to corrective action excavation of 0.5 feet (0-6 inches) from CU P17-32, a pre-excavation survey was conducted at 30 survey control points. Unfortunately, the CU was regraded immediately after excavation of the 0.5 feet and prior to conducting the post-excavation control survey. Calculations of removed soil volume were conducted at 0.869 feet compared to the commitment of 0.5 feet. If 0.5 feet were excavated from across the CU, approximately 394 yd^3 of soil would be generated. Approximately 704 yd^3 were actually generated during the excavation process (based on the 0.869 feet average excavation depth). In summary, after post-excavation re-grading, 9 of the 30 locations showed less than 0.5 feet of excavation, 21 of the 30 exhibited greater than or equal to 0.5 feet, and 15 of the 30 exhibited over 1.0 feet of excavation. Therefore, the commitment to remove 0.5 ft or 6" of soil across CU P17-32 was exceeded by approximately 70%.

5.3.5 O20 Corrective Actions

In O20, the statistical analysis of the original certification samples indicated that CU O20 failed both the average concentration criterion, and the hot spot criterion of 2 x FRL. For radium-228, the UCL of 1.86 pCi/g exceeded the FRL of 1.8 pCi/g, and a single total uranium result of 205.4 mg/kg exceeded the A1PI 2 x FRL criterion of 164 mg/kg (FRL = 82 mg/kg).

Hot Spot Failure

The O20 hot spot area was initially delineated with HPGe detectors to aid in the corrective action sampling design. The existing analytical and HPGe data obtained in CU O20 was kriged to illustrate the probabilistic lateral and vertical extent of the total uranium contamination at the identified hot spot and immediate surroundings. Based on this kriging, sample points in O20 were selected to bound the surface and subsurface extent of total uranium in the area of potential influence around the hot spot. The model indicated a surface contamination condition (i.e., a greater area of probable total uranium contamination present in the surface soil layer). Several strategic sample points close to the hot spot were chosen to gain adequate surface and subsurface delineation data to design the corrective action excavation. Additional sample points were selected away from the hot spot to collect surface data to further bound the extent of surface contamination. The combined data points are shown in Figure 5-9. The corrective actions that were taken to address the total uranium hot spot are summarized below:

- In order to confirm the area of contamination, physical samples were collected at twelve sample locations to delineate the extent of contaminated soil. Figure 5-9, Sampling Locations in O-20, shows the locations of the samples. One location was at the hot spot (#1 in Figure 9), nine locations were used to bound the area (#2, #4, #5, #6, #7, #8, #9, #10, #11), and two locations were within the bounded area (#3, #12). Table 5-9, CU O20 Sample Locations, shows the sample identification number and the depths that were analyzed. The samples were collected and submitted for total uranium analysis.

- Figure 5-10, O20 Total Uranium Concentration 0"-6" Interval, shows the results from the top interval. Figure 5-11, O20 Total Uranium Concentration 6"-12" Interval, shows the results of the next interval, and Figure 5-12, O20 Total Uranium Concentration 12"-18" Interval, shows the results of the lowest interval. Since contamination above the FRL was seen at the 6" - 12" interval at the hot spot, and no contamination at the 12"-18" interval the depth of excavation was set at 12 inches.

- During actual excavation a radiological technician used a Geiger Moeller Beta/Gamma detector during excavation to ensure complete removal of the contamination. This resulted in a localized 3' x 5'area that was excavated, as shown in Figure 5-13, O20 Hot Spot Excavation.

- After the area was excavated, four confirmatory samples were taken in the area of the original hot spot. The total uranium results for these confirmatory samples were 4 mg/kg, 3 mg/kg, 6 mg/kg, and 35 mg/kg. Since all of these values are well below the FRL, another certification sample was taken at the hot spot location and submitted for analysis. The total uranium result for this sample was 12.8 mg/kg, demonstrating that the hot spot had been removed. The statistics for total uranium were recalculated using this result, and are presented in Appendix B.

Radium-228 Failure

The FRL for radium-228 is 1.8 pCi/g and the mean concentration found in O20 from the original certification samples was 1.65 pCi/g with a standard deviation of 0.42. However, the UCL was 1.86 pCi/g, with a probability of 11.6% that the mean concentration is above the FRL. The highest single value was 2.46 pCi/g. Given that the mean concentration was below the FRL, this failure was a result of variance within the data set. The strategy to address this failure was to collect additional samples to increase the confidence level. Seven additional random samples were obtained to supplement the existing 12 samples. The sampling and analysis was performed and the UCL on the mean met the FRL when the additional sample data were integrated. The following corrective actions were taken:

- The CU was divided into 16 sub-CUs using the process described in Section 2.4.1.
- If a sample was not already located in the subunit, a sample location was randomly selected within that subunit. This resulted in 7 additional samples being taken in O20. See Figure 5-14, O20 Radium-228 Sample Locations.
- Using the additional samples the statistics were recalculated, which indicated that radium-228 in O20 meets the FRL criteria. Table 5-10, Radium-228 Statistics in O20 after Corrective Action, presents this data. No further action is necessary.

Additional samples will be collected north of CU O20 during the Area 9, Phase I off-property certification process. The locations of the samples will be detailed in the Area 9, Phase I Certification Design Letter.

5.4 NORTH ACCESS ROAD FILL CERTIFICATION

The soil beneath the north access road was certified in place (in CUs NAR-3 and NAR-4) through the pavement, the macadam and compacted fill material underlying the road. WAC attainment samples were collected from the first 6-inch interval of the compacted clay fill material, and the next 6-inch interval of compacted clay fill material was archived for possible WAC attainment analysis. Certification samples were collected and submitted for analysis when "native clay material" was encountered. Generally, "native clay material" was found between 17 and 21 inches below the road surface.

Prior to the certification sampling of NAR-4, the depth to the "native clay material" was estimated to be up to 70 inches below surface in the northern portion of the CU, as shown in Figure 5-15, North Access Road Fill. This portion of the existing North Access Road will not be impacted by the

relocation, as shown in Figure 5-16, NAR-4 and Planned Relocated North Access Road. Concern was expressed about the integrity of this large thickness of compacted fill material relative to soil FRLs and the 2 x FRL hot spot criterion. DOE prefers to avoid excavating this area of the existing North Access Road to prevent placement of clean material into the OSDF. Therefore, DOE proposed a strategy to collect certification analysis data for the compacted clay fill material in this portion of NAR-4 to make a certification determination. The strategy consisted of collecting additional certification samples from every 6-inch interval of compacted clay fill material encountered between the WAC attainment archive sample and the native clay material. The samples collected in the compacted clay fill material for certification analysis are summarized in Table 5-11, NAR-4 Certification Samples. The determination for certification pass/fail for this material was conducted independently of the certification samples collected from "native clay material" for NAR-4. The same methodology of certification analyses as discussed in Section 2.5 was applied to the compacted clay fill material.

Based upon on the analytical data collected from the certification samples in the compacted clay fill, it was determined that the fill under the northern portion of NAR-4 is not contaminated, and it passed certification analyses, relative to the average residual soil concentration of COCs, within the established confidence intervals relative to the soil FRLs and according to the A1PI hot spot criterion of 2 x FRL. Appendix A includes statistical analyses of these data from NAR-4 for primary radiological COCs and secondary COCs. Therefore, the compacted clay fill material can be left in place, and excavation of the portion of the North Access Road that is planned to be left in place is unnecessary.

5.5 A1PI CERTIFICATION CONCLUSIONS

All of the CUs in A1PI have passed certification testing analyses relative to the determination of average residual soil concentrations within applicable confidence bounds (except for O20 for radium-228 and Q18-40 for Radium-226, which are pending), and relative to the 2 x FRL "hot spot" criterion implemented in A1PI. Corrective actions were implemented for any CU that failed initial certification analyses. Final certification data are presented in Appendix A.

Based on these results, DOE requests concurrence that the remedial actions conducted in A1PI have successfully attained the FRLs consistent with the approach described in this document. Except for the excavation of the two remaining portions of the NAR, remedial objectives in the OU5 ROD have been achieved and no further remedial actions are warranted in A1PI. A separate certification letter report

will be submitted for review and approval for the remaining southern section of the NAR. The northern section will be transferred to Area 10. The remaining sediment traps in A1PI will be certified during remedial activities in Area 1 Phase II. Following certification of the sediment traps, these areas will be regraded in support of wetland mitigation. Final land use in A1PI has been initiated and includes construction of the northern portion of the OSDF and related infrastructure, placement of the relocated North Access Road, and construction of miscellaneous support facilities.

TABLE 5-1
AREA 1 PHASE I CERTIFICATION UNITS RESULTS

CU Name	CU Type	Certification Determination		Corrective Action
		UCL	2 times FRL	CU Explanation
A1P1ST-1	Primary Radiological	Pass	Pass	
N19	Primary and Secondary Radiological	Pass	Pass	
NAR1	Primary Radiological	Pass	Pass	
NAR2	Primary Radiological	Pass	Pass	
NAR3	Primary Radiological	Pass	Pass	
NAR4	Primary Radiological	Pass	Pass	
NAR5	Primary Radiological	Pass	Pass	
NAR6	Primary Radiological	Pass	Pass	
O18	Primary Radiological	Pass	Pass	
O19	Primary Radiological	Pass	Pass	
OSB 1	Primary Radiological	Pass	Pass	
OSB 2	Primary Radiological	Pass	Pass	
OSB 3	Primary Radiological	Pass	Pass	
OSB 4	Primary Radiological	Pass	Pass	
OSB 5	Primary Radiological	Pass	Pass	
O20	Primary Radiological	Pending	Pass	Total Uranium > 2x FRL, UCL Ra-228 >FRL
P17-22	Primary Radiological	Pass	Pass	
P17-31	Primary Radiological	Pass	Pass	
P17-32	Primary Radiological	Pass	Pass	
P17-33	Primary Radiological	Pass	Pass	
P17-40	Primary Radiological	Pass	Pass	
P18	Primary Radiological	Pass	Pass	
P18-11	Primary Radiological	Pass	Pass	
P18-12	Primary Radiological	Pass	Pass	
P18-20	Primary Radiological	Pass	Pass	
P18-40	Primary Radiological	Pass	Pass	
P19	Primary Radiological	Pass	Pass	
P19-20	Primary Radiological	Pass	Pass	
P19-23	Primary Radiological	Pass	Pass	
P19-40	Primary Radiological	Pass	Pass	
P20-30	Primary Radiological	Pass	Pass	
PUMP-1	Primary and Secondary Radiological	Pass	Pass	
Q16-33	Primary Radiological	Pass	Pass	
Q16-34	Primary Radiological	Pass	Pass	
Q17-10	Primary and Secondary Radiological	Pass	Pass	
Q17-30	Primary and Secondary Radiological	Pass	Pass	
Q18-10	Primary and Secondary Radiological	Pass	Pass	
Q18-30	Primary Radiological	Pass	Pass	
Q18-40	Primary Radiological	Pending	Pass	UCL Ra-226 >FRL
Q19-10	Primary Radiological	Pass	Pass	
Q19-20	Primary Radiological	Pass	Pass	
Q19-30	Primary Radiological	Pass	Pass	
Q19-40	Primary Radiological	Pass	Pass	
Q20-10	Primary Radiological	Pass	Pass	
Q20-20	Primary Radiological	Pass	Pass	

TABLE 5-1
(continued)

CU Name	CU Type	Certification Determination		Corrective Action
		UCL	2 times FRL	CU Explanation
Q20-30	Primary Radiological	Pass	Pass	
Q20-40	Primary Radiological	Pass	Pass	
Q18-40a	Radium-226	Pass	Pass	
Q18-40b	Radium-226	Pass	Pass	
A1P1ST-1	Metals	Pass	N/A	
N19	Metals	Pass	N/A	
NAR-1	Metals	Pass	N/A	
NAR-2	Metals	Pass	N/A	
NAR-3	Metals	Pass	N/A	
NAR-4	Metals	Pass	N/A	
NAR-5	Metals	Pass	N/A	
NAR-6	Metals	Pass	N/A	
O18	Metals	Pass	N/A	
O19	Metals	Pass	N/A	
O20	Metals	Pass	N/A	
OSB 1	Metals	Pass	N/A	
OSB 2	Metals	Pass	N/A	
OSB 3	Metals	Pass	N/A	
OSB 4	Metals	Pass	N/A	
OSB 5	Metals	Pass	N/A	
P17-22	Metals	Pass	N/A	
P17-31	Metals	Pass	N/A	
P17-32	Metals	Pass	N/A	UCL Arsenic >FRL
P17-33	Metals	Pass	N/A	
P17-40	Metals	Pass	N/A	
P18	Metals	Pass	N/A	
P18-11	Metals	Pass	N/A	
P18-12	Metals	Pass	N/A	
P18-13	Metals	Pass	N/A	
P18-14	Metals	Pass	N/A	
P18-31	Metals	Pass	N/A	
P18-32	Metals	Pass	N/A	
P19	Metals	Pass	N/A	
P20	Metals	Pass	N/A	
PUMP-1	Metals	Pass	N/A	
Q17	Metals	Pass	N/A	
Q18	Metals	Pass	N/A	
Q19	Metals	Pass	N/A	
Q20	Metals	Pass	N/A	
NAR1	PCB	Pass	N/A	
O18	PCB	Pass	N/A	
OSB 1	PCB	Pass	N/A	
OSB 2	PCB	Pass	N/A	
OSB 3	PCB	Pass	N/A	
OSB 4	PCB	Pass	N/A	
OSB 5	PCB	Pass	N/A	

TABLE 5-1
(continued)

CU Name	CU Type	Certification Determination		Corrective Action
		UCL	2 times FRL	CU Explanation
P17-31	PCB	Pass	N/A	
P17-33	PCB	Pass	N/A	
P18-11	PCB	Pass	N/A	
P18-13	PCB	Pass	N/A	
PUMP-1	PCB	Pass	N/A	

TABLE 5-2
RADIUM-226 CERTIFICATION RESULTS AND STATISTICS IN Q18-40 BEFORE CORRECTIVE ACTION

Sample Number (see Figure 5-1)	Radium-226 Result (pCi/g)	Result Validated?
1	1.29	Yes
2	1.57	Yes
3	1.25	Yes
4	1.25	Yes
5	1.94	Yes
6	2.61	Yes
7	1.04	Yes
8	1.07	Yes
9	1.4	Yes
9*	1.64	Yes
10	1.06	Yes
11	1.25	Yes
12	2.42	Yes

* Duplicate

STATISTICS FOR RADIUM-226 IN CU Q18-40 :

FRL:	1.7 pCi/g
Samples:	12
Detections	12
Maximum:	2.61 pCi/g
Mean:	1.52 pCi/g
Standard Deviation:	0.53 pCi/g
Upper Confidence Limit:	1.80 pCi/g
t-Statistic	1.16
Probability	13.5%
Pass/Fail:	Fail

TABLE 5-3
ARSENIC CERTIFICATION RESULTS AND STATISTICS IN CU P17-32 BEFORE CORRECTIVE ACTION

Sample Number (see Figure 5-2)	Arsenic Result (mg/kg) before	Result Validated?
1	10.3	Yes
2	14.8	Yes
3	16.9	Yes
4	10.7	Yes
5	14.1	Yes
6	7.1	Yes
7	13.8	Yes
8	7.4	Yes
9	10.8	Yes
10	14.6	Yes
11	16.0	Yes
12	7.1	Yes
13	13.9	Yes
14	7.5	Yes

STATISTICS FOR ARSENIC IN CU P17-32 :

FRL:	12 mg/kg
Samples:	14
Detections	14
Maximum:	16.9 mg/kg
Mean:	11.79 mg/kg
Standard Deviation:	3.52 mg/kg
Upper Confidence Limit:	13.05 mg/kg
t-Statistic	0.23
Probability	41.1%
Pass/Fail:	Fail

TABLE 5-4
RADIUM-228 CERTIFICATION RESULTS AND STATISTICS IN CU O20 BEFORE CORRECTIVE ACTION

Sample Number (see Figure 5-3)	Radium-228 Result (mg/kg)	Result Validated?
1	1.27	Yes
2	2.46	Yes
3	1.6	Yes
4	1.51	Yes
5	1.99	Yes
6	1.89	Yes
6*	1.85	Yes
7	1.65	Yes
8	1.24	Yes
9	0.84	Yes
10	1.95	Yes
11	1.7	Yes
12	1.7	Yes

* Duplicate

STATISTICS FOR RADIUM-228 IN CU O20

FRL:	1.8
Samples:	12
Detections:	12
Maximum:	2.46
Mean:	1.65
Standard Deviation:	0.42
Upper Confidence Limit:	1.86
t-Statistic:	1.26
Probability:	11.6%
Pass/Fail:	Fail
2 x FRL	Pass

TABLE 5-5
TOTAL URANIUM CERTIFICATION RESULTS AND STATISTICS IN CU O20 BEFORE CORRECTIVE ACTION

Sample Number (see Figure 5-4)	Total Uranium Result (mg/kg)	Result Validated?
1	22.0	Yes
2	52.8	Yes
3	47.4	Yes
4	9.1	Yes
5	32.4	Yes
6	29.6	Yes
6*	28.3	Yes
7	16.2	Yes
8	205.4	Yes
9	3.5	Yes
10	38.4	Yes
11	13.7	Yes
12	9.4	Yes

* Duplicate

STATISTICS FOR TOTAL URANIUM IN CU O20 (FRL = 82 mg/kg)

Samples:	12
Maximum:	205.4
Mean:	37.8
Standard Deviation:	55.68
Upper Confidence Limit:	66.6
Pass/Fail:	Pass
2 x FRL (Pass/Fail)	Fail

TABLE 5-6
Q18-40A POST CORRECTIVE ACTION 0-6 INCH AND 6-12 INCH RADIUM-226 STATISTICS

Sample Number (see Figure 5-5)	Radium-226 (pCi/g) 0-6 Inch Interval	Radium-226 (pCi/g) 6-12 Inch Interval
1	1.24	1.40
2	1.16	1.30
3	1.12	1.64
4	1.25**	1.30
5	1.22	1.18
*5	1.20	1.24
6	1.57**	1.43
7	1.07**	1.53
8	1.19	1.34
9	0.98	1.46
10	1.26	1.67
11	1.30	1.36
12	1.14	1.47
13	1.28	1.51
14	1.94**	1.28
15	1.40**	1.38
15*	1.64**	N/A
16	1.30	1.51

* Duplicate

** Sample Points 4, 6, 7, 14, and 15 are the original radium-226 results from Q18-40.

STATISTICS FOR RADIUM-226 IN Q18-40A 0-6 AND 6-12 INTERVALS

	0-6 Inch	6-12 Inch
FRL:	1.7	1.7
Samples:	16	16
Detections:	16	16
Maximum:	1.94	1.67
Mean:	1.28	1.43
Standard Deviation:	0.23	.013
Upper Confidence Limit:	1.38	1.48
t-Statistic:	7.28	8.62
Probability:	0.0%	0.0%
Pass/Fail:	Pass	Pass
2 x (P/F)	Pass	Pass

TABLE 5-7
Q18-40B POST CORRECTIVE ACTION 6-12 INCH AND 12-18 INCH RADIUM-226 STATISTICS

Sample Number (see Figure 5-5)	Radium-226 (pCi/g) 6-12 Inch Interval	Radium-226 (pCi/g) 12-18 Inch Interval
1	1.49	1.22
2	1.28	1.38
3	1.34	1.37
4	1.35	1.43
5	1.45	1.49
5*	1.43	1.37
6	1.28	0.97
7	1.71	1.29
8	1.51	1.03
9	1.30	1.29
10	1.50	1.30
11	1.47	1.56
12	1.60	1.49
13	1.38	1.46
14	1.17	1.70
15	1.59	0.98
16	1.48	1.38

* Duplicate

STATISTICS FOR RADIUM-226 IN Q18-40B 6-12 AND 12-18 INTERVALS

	6-12 Inch	12-18 Inch
FRL:	1.7	1.7
Samples:	16	16
Detections:	16	16
Maximum:	1.71	1.70
Mean:	1.43	1.33
Standard Deviation:	0.14	0.20
Upper Confidence Limit:	1.49	1.42
t-Statistic:	7.63	7.32
Probability:	0.0%	0.0%
Pass/Fail:	Pass	Pass
2 x (P/F)	Pass	Pass

TABLE 5-8
P17-32 POST-EXCAVATION ARSENIC STATISTICS

Sample Number (see Figure 5-7)	Arsenic Result (mg/kg)	Result Validated?
1	4.6	Yes
2	5.8	Yes
3	8.5	Yes
4	11.3	Yes
5	7.7	Yes
6	11	Yes
7	11.3	Yes
8	8.6	Yes
9	5	Yes
9*	4.5	Yes
10	11	Yes
11	10.5	Yes
12	12	Yes
13	6.5	Yes
14	7	Yes
15	11.6	Yes
16	9.8	Yes

* Duplicate

STATISTICS FOR ARSENIC IN P17-32 POST-EXCAVATION

FRL:	12
Samples:	16
Detections:	16
Maximum:	11.6
Mean:	9.17
Standard Deviation:	2.29
Upper Confidence Limit:	9.94
t-Statistic:	4.94
Probability:	0.0%
Pass/Fail:	Pass

TABLE 5-9
CU O20 SAMPLE LOCATIONS

Sample Point	Sample ID Number[a]	Northing Coordinate	Easting Coordinate	Depth Increments Analyzed
1[b]	O20HS-x-R-1	484092.69	1349877.1	0"-6", 6"-12", 12"-18"
1[b]	O20HS-x-R-1-D	484092.69	1349877.1	0"-6"
2	O20HS-x-R-2	484096.38	1349878.08	0"-6", 6"-12", 12"-18"
3	O20HS-x-R-3	484078.87	1349873.0	0"-6", 6"-12", 12"-18"
3	O20HS-x-R-3-D	484078.87	1349873.0	0"-6"
4	O20HS-x-R-4	484109.14	1349833.97	0"-6"
5	O20HS-x-R-5	484094.38	1349829.6	0"-6", 6"-12", 12"-18"
6	O20HS-x-R-6	484079.88	1349824.88	0"-6"
7	O20HS-x-R-7	484069.74	1349859.0	0"-6", 6"-12", 12"-18"
8	O20HS-x-R-8	484062.17	1349885.59	0"-6"
9	O20HS-x-R-9	484068.66	1349898.94	0"-6", 6"-12", 12"-18"
10	O20HS-x-R-10	484075.56	1349914.21	0"-6", 6"-12", 12"-18"
11	O20HS-x-R-11	484084.99	1349917.12	0"-6"
12	O20HS-x-R-12	484096.03	1349846.75	0"-6", 6"-12", 12"-18"

[a] The "x" in the sample ID number was replaced by the number that indicates the sample depth. A 1 represents the 0"-6" sample depth, a 2 represents the 6"-12" sample depth and a 3 represents the 12"-18" sample depth.

[b] Location of original certification sample with total uranium concentration of 205.4 mg/kg.

TABLE 5-10
RADIUM-228 STATISTICS IN O20 AFTER CORRECTIVE ACTION

Sample Number (see Figure 5-14)*	Radium-228 Result (pCi/g)	Result Validated?
1 (Original)	1.27	Yes
2 (Original)	2.46	Yes
3 (Original)	1.6	Yes
4 (Original)	1.51	Yes
5 (Original)	1.99	Yes
6 (Original)	1.89	Yes
6** (Original)	1.85	Yes
7 (Original)	1.65	Yes
8 (Original)	1.24	Yes
9 (Original)	0.84	Yes
10 (Original)	1.95	Yes
11 (Original)	1.7	Yes
12 (Original)	1.7	Yes
13 (New)	1.61	Yes
14 (New)	1.15	Yes
15 (New)	1.51	Yes
16 (New)	1.49	Yes
17 (New)	1.49	Yes
18 (New)	1.4	Yes
19 (New)	1.35	Yes

* Original Sample Points 1 - 12 in O20 as noted in Figure 5-13 as a circle, New sample Points as noted in Figure 5-14 as triangles.

** Duplicate

STATISTICS FOR RADIUM-228 IN O20 AFTER CORRECTIVE ACTION

FRL:	1.8
Samples:	19
Detections:	19
Maximum:	2.46
Mean:	1.57
Standard Deviation:	0.35
Upper Confidence Limit:	1.71
t-Statistic:	2.87
Probability:	0.5%
Pass/Fail:	Pass
2 x (P/F)	Pass

TABLE 5-11
NAR-4 CERTIFICATION SAMPLES

NAR-4 LOCATION	SAMPLE NUMBER	SAMPLE INTERVAL DEPTH BELOW ROAD SURFACE (INCHES)
NAR-4-1	NAR-4-1C-(X)	16-20
NAR-4-2	NAR-4-2C-(X)	15-19
NAR-4-3	NAR-4-3C-(X)	19-23
NAR-4-4	NAR-4-4C-(X)	14-18
NAR-4-5	NAR-4-5C-(X)	14-18
NAR-4-6	NAR-4-6C-(X)	24-28
NAR-4-7	NAR-4-7C-(X)	13-17
NAR-4-8	NAR-4-8C2-(X)	15-21
NAR-4-8	NAR-4-8C-(X)	38-42
NAR-4-9	NAR-4-9C2-(X)	10-14
NAR-4-9	NAR-4-9C-(X)	14-18
NAR-4-10	NAR-4-10C2-(X)	15-21
NAR-4-10	NAR-4-10C-(X)	27-31
NAR-4-11	NAR-4-11C2-(X)	13-19
NAR-4-11	NAR-4-11C-(X)	39-43
NAR-4-12	NAR-4-12C2-(X)	12-18
NAR-4-12	NAR-4-12C3-(X)	18-23
NAR-4-12	NAR-4-12C-(X)	23-27
NAR-4-13	NAR-4-13C2-(X)	18-24
NAR-4-13	NAR-4-13C3-(X)	24-30
NAR-4-13	NAR-4-13C-(X)	30-34
NAR-4-14	NAR-4-14C2-(X)	14-20
NAR-4-14	NAR-4-14C3-(X)	20-26
NAR-4-14	NAR-4-14C4-(X)	26-32
NAR-4-14	NAR-4-14C5-(X)	32-38
NAR-4-14	NAR-4-14C6-(X)	38-44
NAR-4-14	NAR-4-14C7-(X)	44-50
NAR-4-14	NAR-4-14C8-(X)	50-56

TABLE 5-11
(Continued)

NAR-4 LOCATION	SAMPLE NUMBER	SAMPLE INTERVAL DEPTH BELOW ROAD SURFACE (INCHES)
NAR-4-14	NAR-4-14C-(X)	59-63
NAR-4-15	NAR-4-15C2-(X)	12-18
NAR-4-15	NAR-4-15C3-(X)	18-24
NAR-4-15	NAR-4-15C4-(X)	24-30
NAR-4-15	NAR-4-15C5-(X)	30-36
NAR-4-15	NAR-4-15C6-(X)	36-42
NAR-4-15	NAR-4-15C7-(X)	42-48
NAR-4-15	NAR-4-15C8-(X)	48-54
NAR-4-15	NAR-4-15C9-(X)	54-60
NAR-4-15	NAR-4-15C10-(X)	60-66
NAR-4-15	NAR-4-15C11-(X)	66-70
NAR-4-15	NAR-4-15C-(X)	70-74
NAR-4-16	NAR-4-16C2-(X)	13-19
NAR-4-16	NAR-4-16C3-(X)	19-25
NAR-4-16	NAR-4-16C4-(X)	25-31
NAR-4-16	NAR-4-16C5-(X)	31-37
NAR-4-16	NAR-4-16C6-(X)	37-43
NAR-4-16	NAR-4-16C7-(X)	43-49
NAR-4-16	NAR-4-16C8-(X)	49-55
NAR-4-16	NAR-4-16C9-(X)	55-61
NAR-4-16	NAR-4-16C10-(X)	61-67
NAR-4-16	NAR-4-16C-(X)	67-70
NAR-4-16	NAR-4-16C11-(X)	70-74

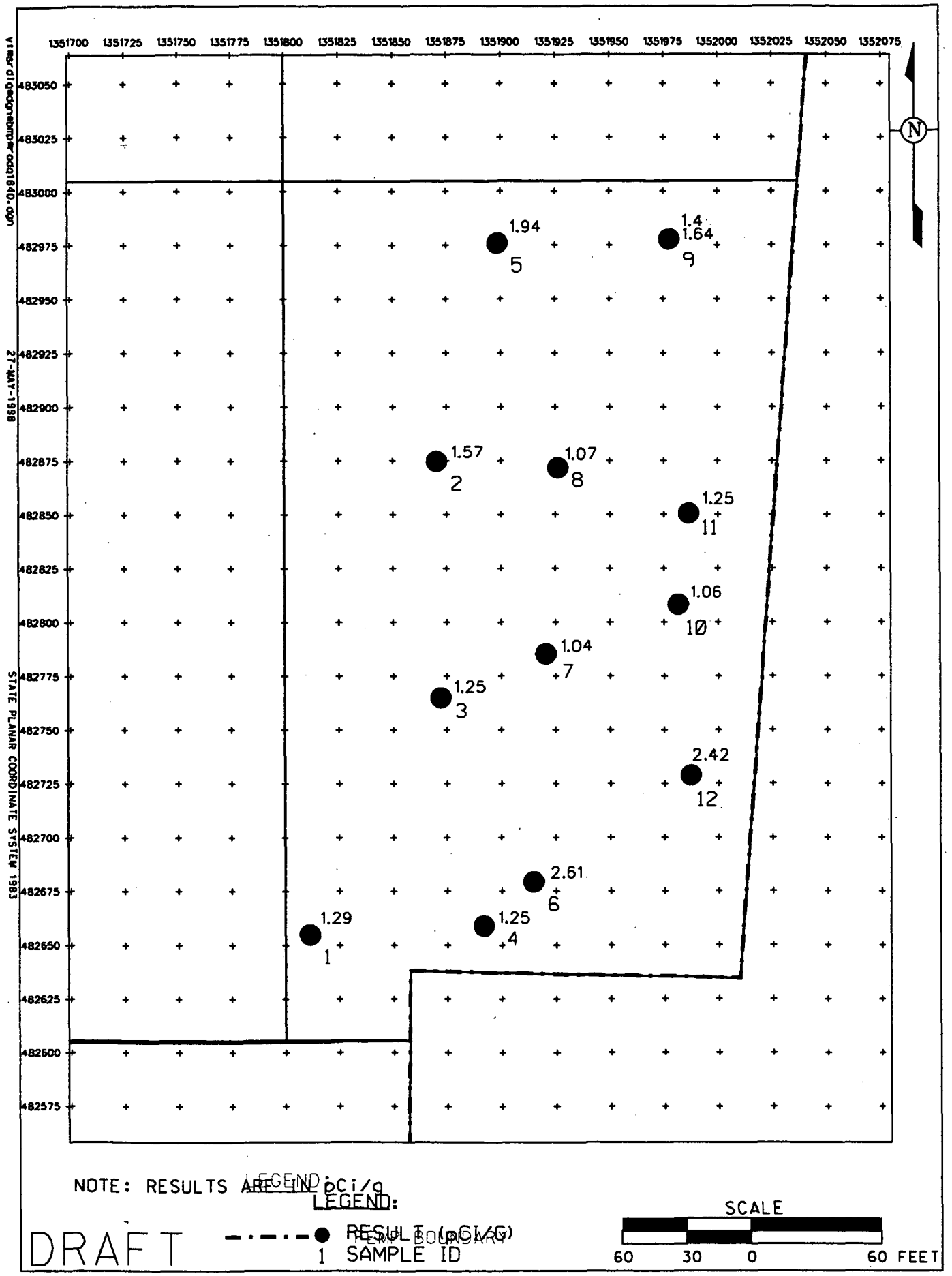


FIGURE 5-1. ORIGINAL RADIUM-226 CERTIFICATION RESULTS IN Q18-40

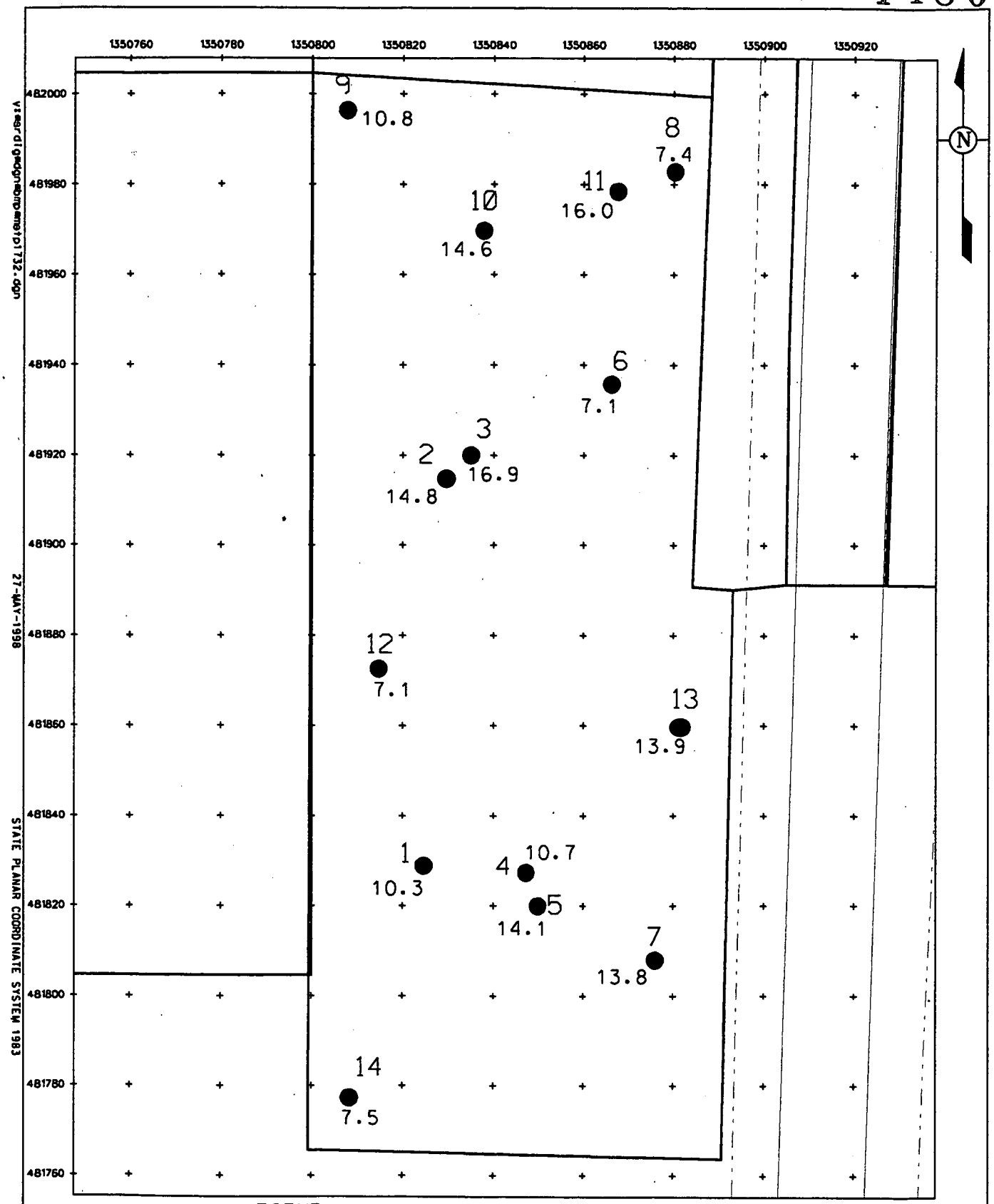


FIGURE 5-2. ORIGINAL ARSENIC CERTIFICATION RESULTS IN P17-32

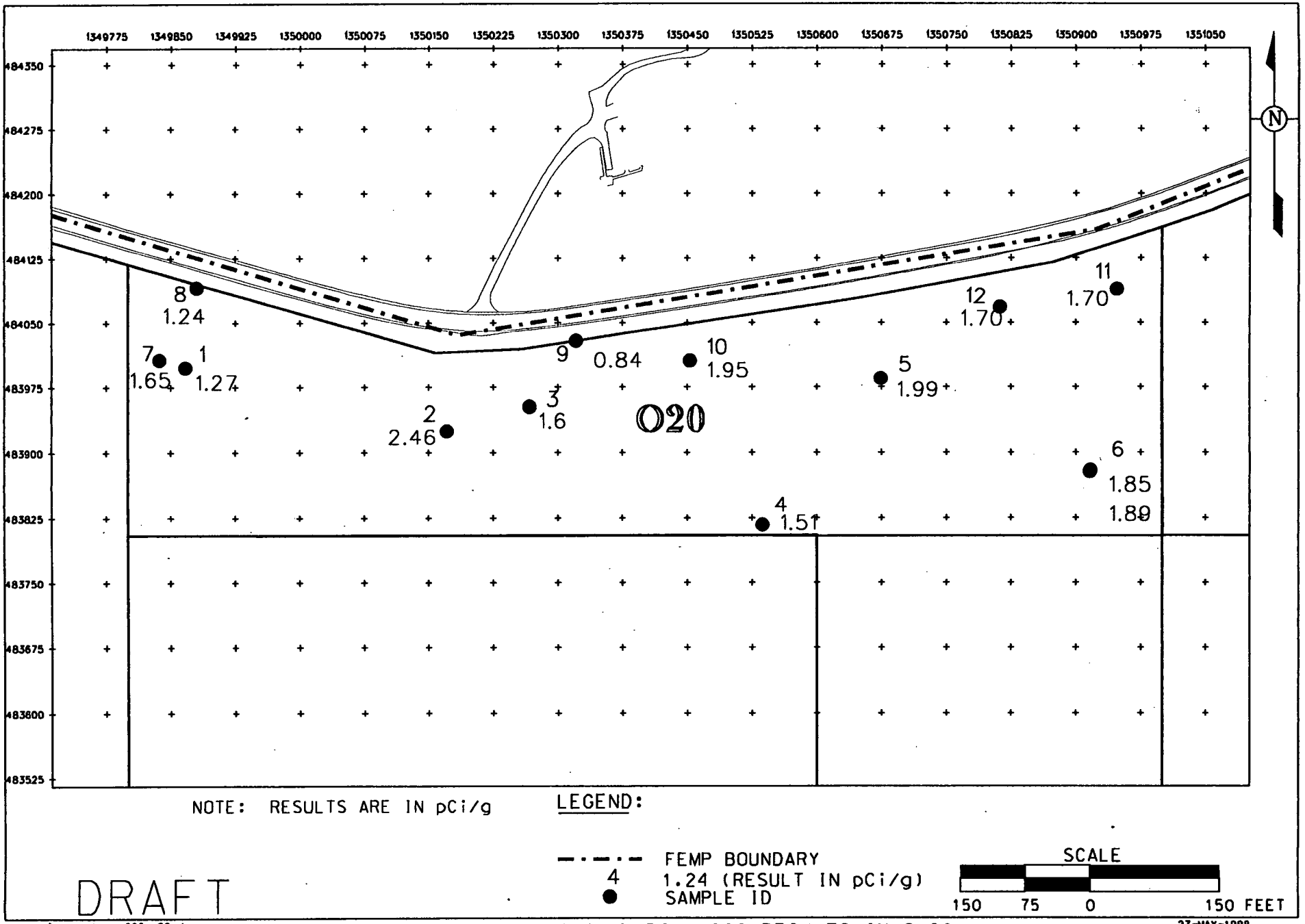
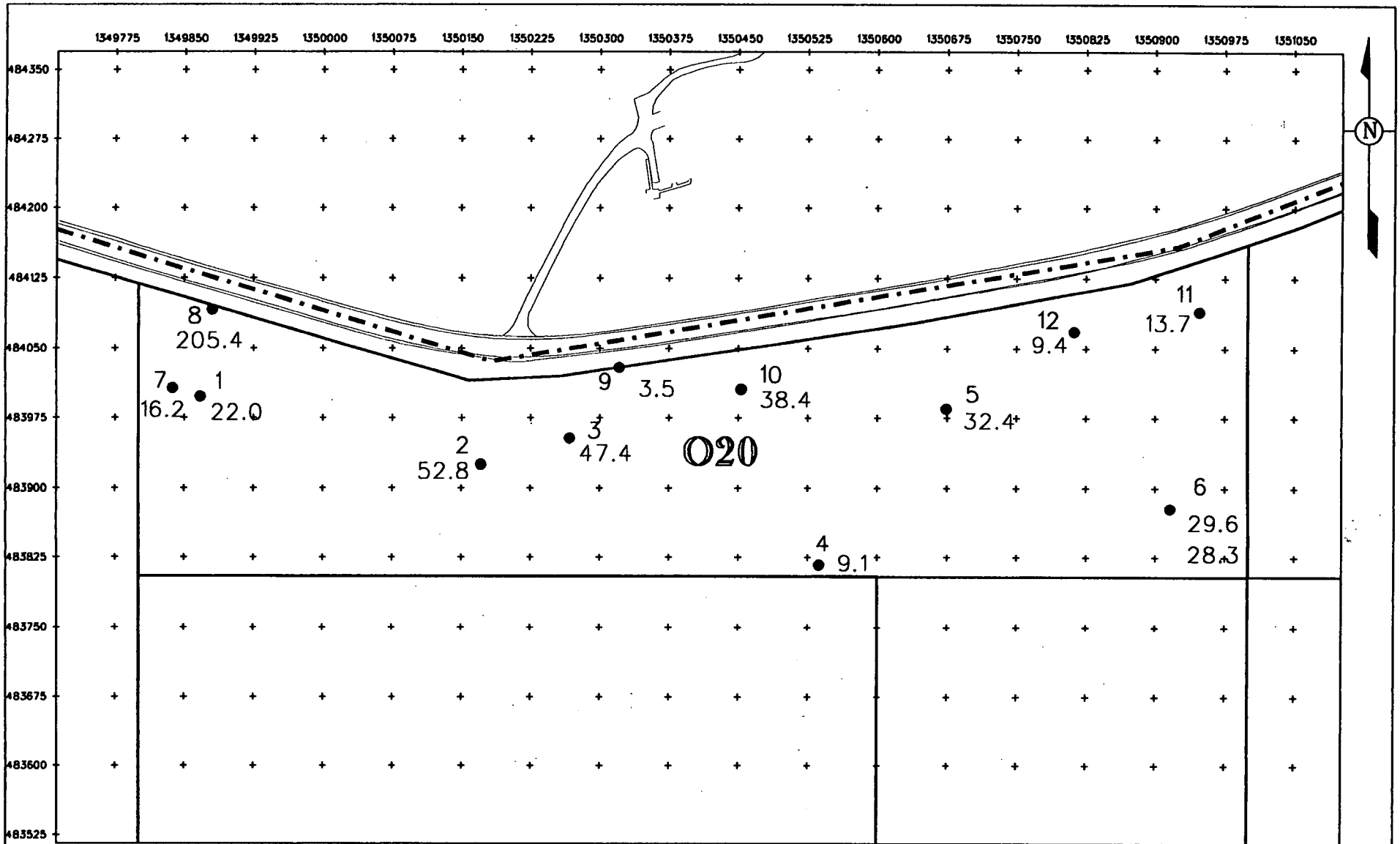


FIGURE 5-3 RADIUM-228 RESULTS IN O-20

0000098



NOTE: RESULTS ARE IN mg/kg

LEGEND:

4 SAMPLE ID

● 22.0 (RESULT mg/kg)

SCALE

150 75 0 150 FEET

DRAFT

y:\srdig\dgn\bmp\rad-o20.dgn
STATE PLANAR COORDINATE SYSTEM 1983

FIGURE 5-4 ORIGINAL TOTAL URANIUM RESULTS IN O-20

27-MAY-1998

000099

1480

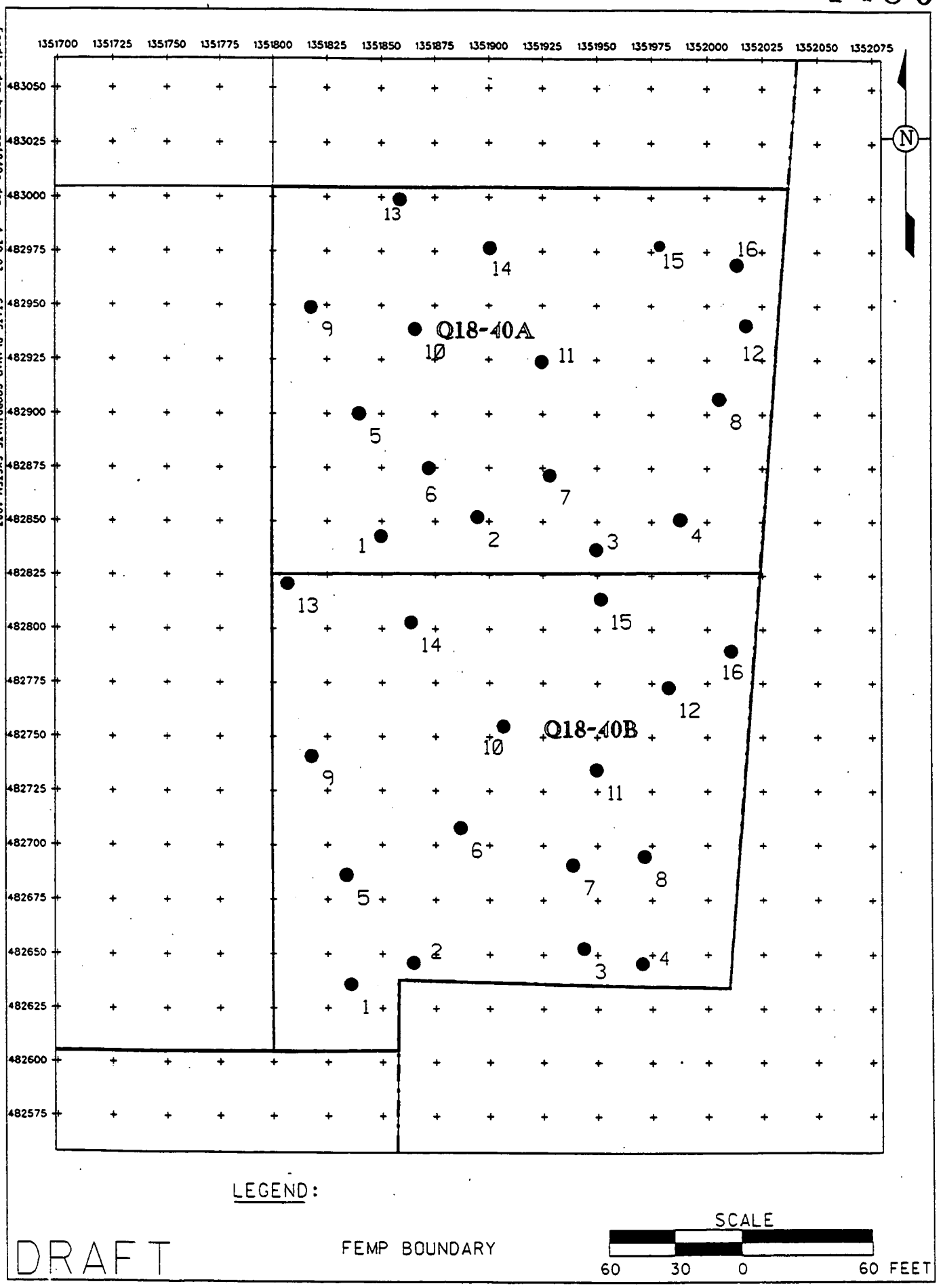


FIGURE 5-5. NEW CUs Q18-40A AND Q18-40B AND THE SYSTEMATIC RANDOM SAMPLING LOCATIONS WITHIN EACH

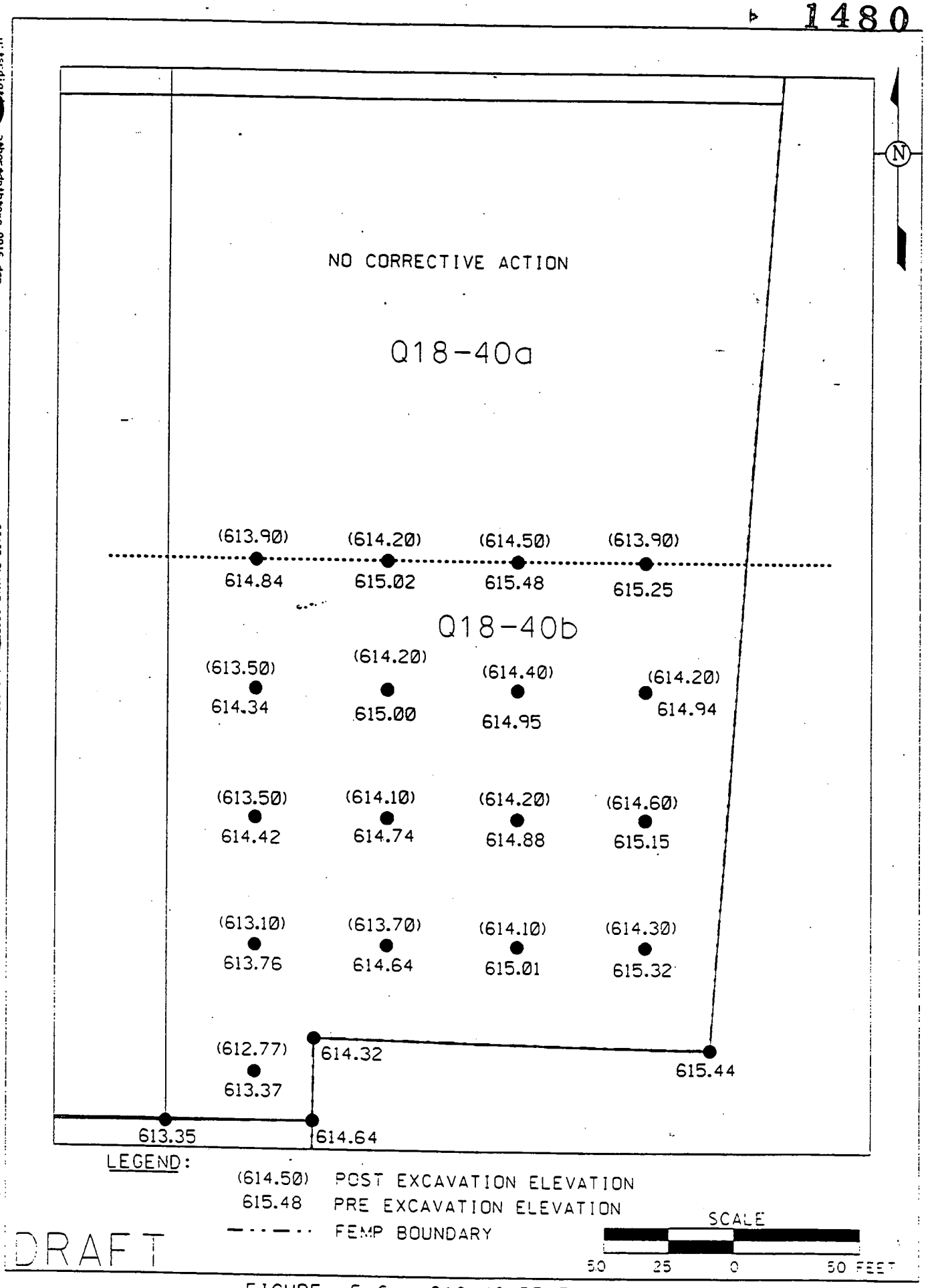


FIGURE 5-6. Q18-40 RE-EXCAVATION

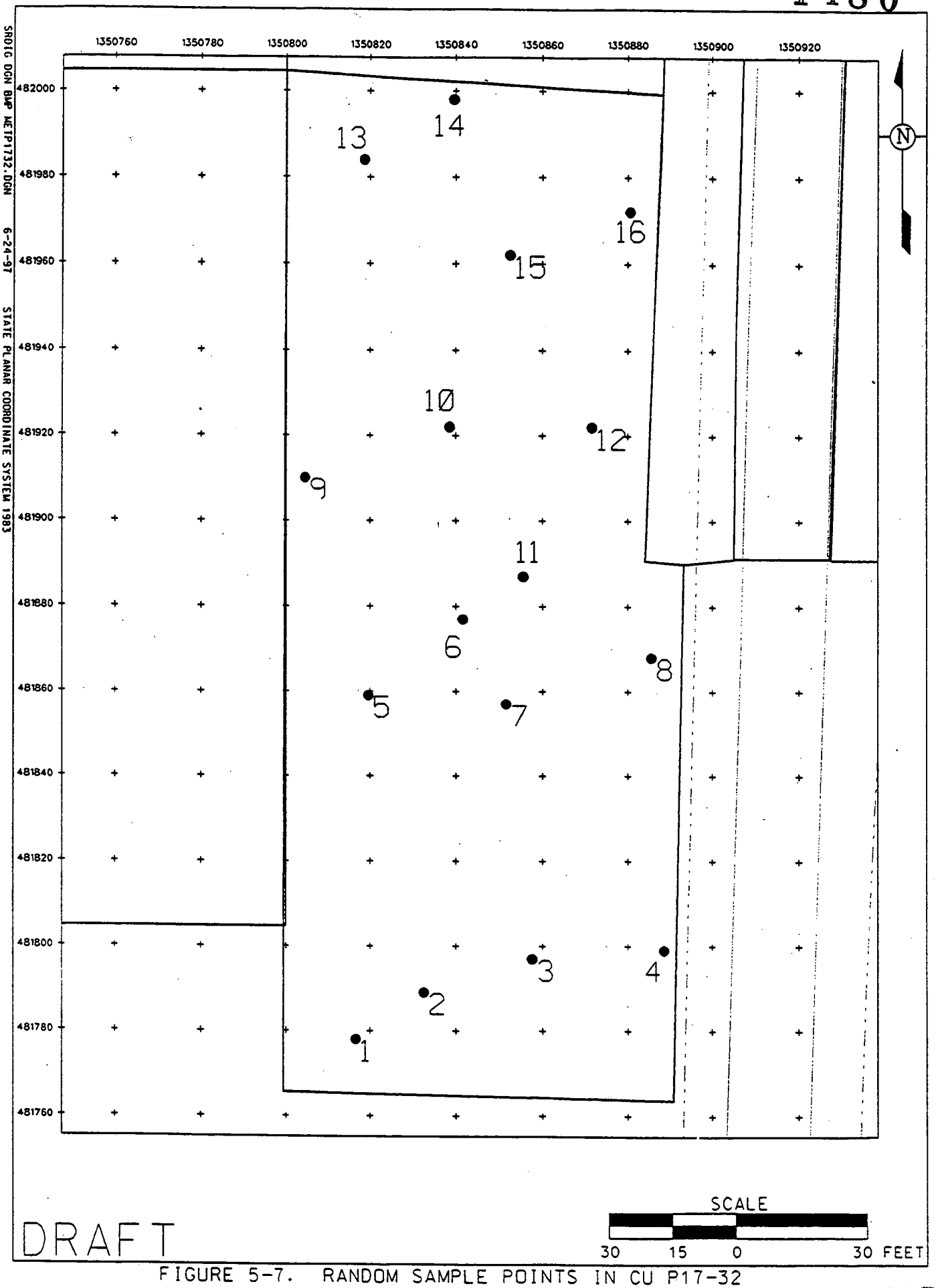
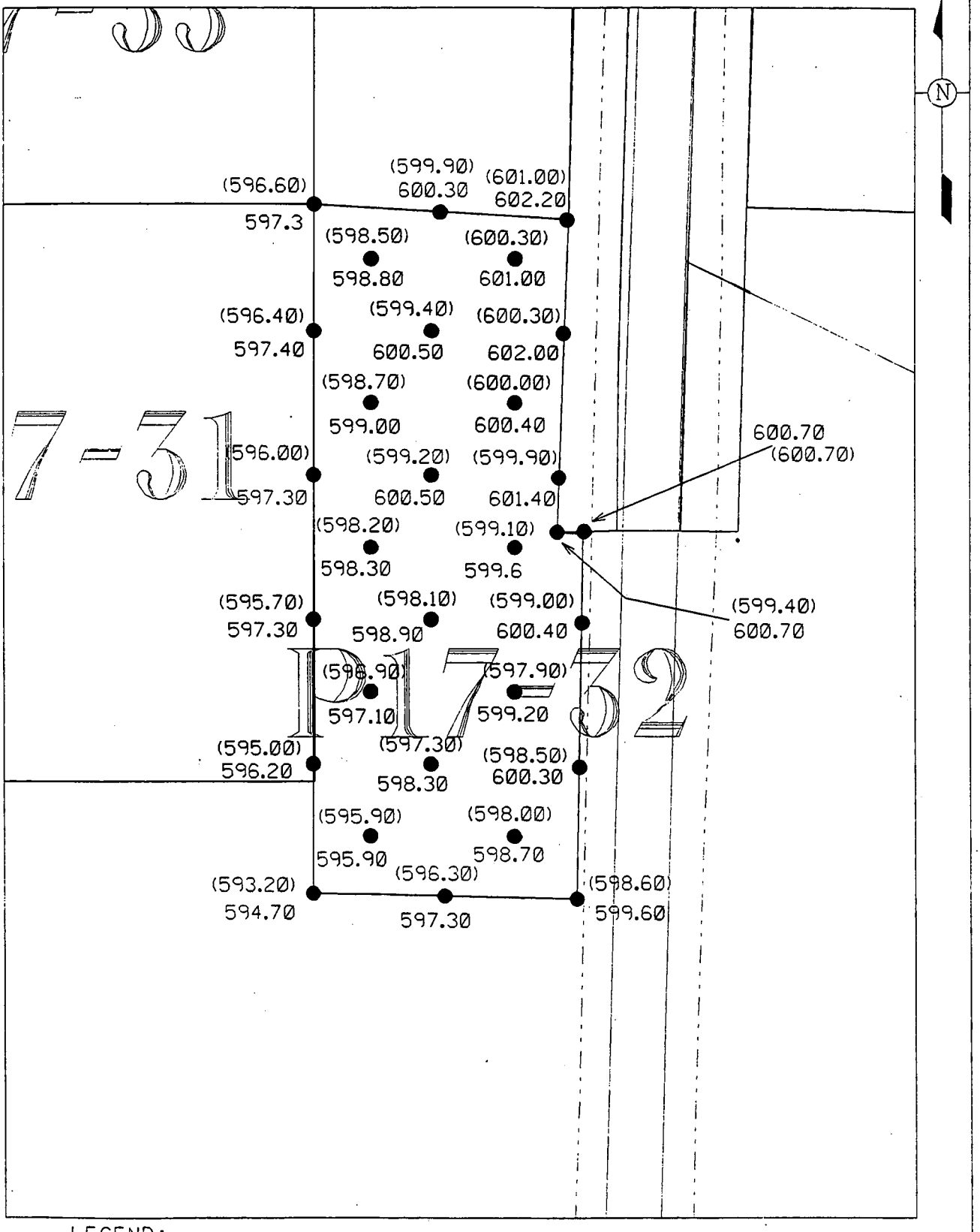


FIGURE 5-7. RANDOM SAMPLE POINTS IN CU P17-32



LEGEND:

(614.50) POST EXCAVATION ELEVATION

615.48 PRE EXCAVATION ELEVATION

—·—·— FEMP BOUNDARY

SCALE

50 25 0 50 FEET

DRAFT

FIGURE 5-8. P17-32 RE-EXCAVATION

u:\srdig\dgn\cvt\exc-0015.dgn
STATE PLANAR COORDINATE SYSTEM 1983
22-AUG-1997

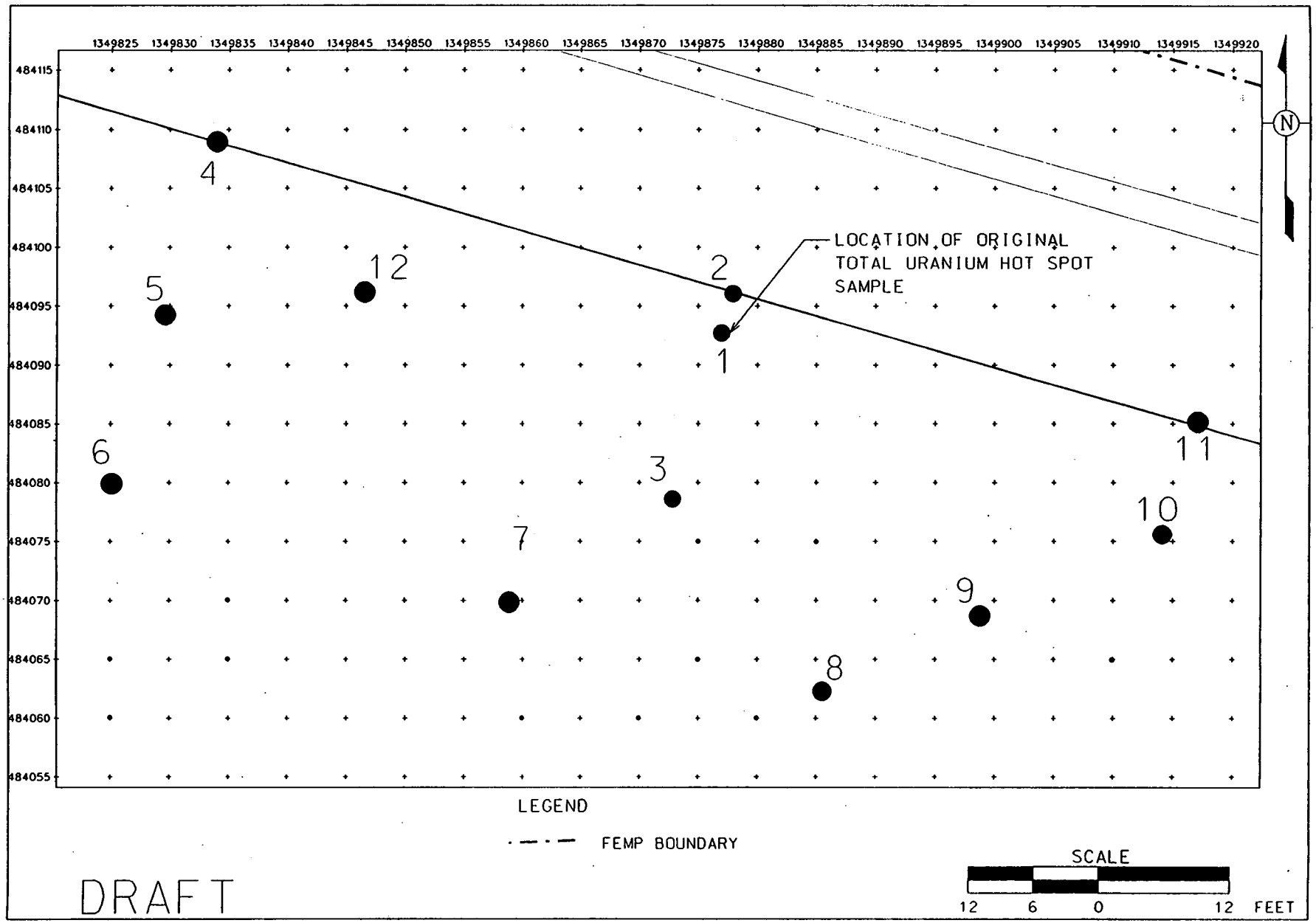
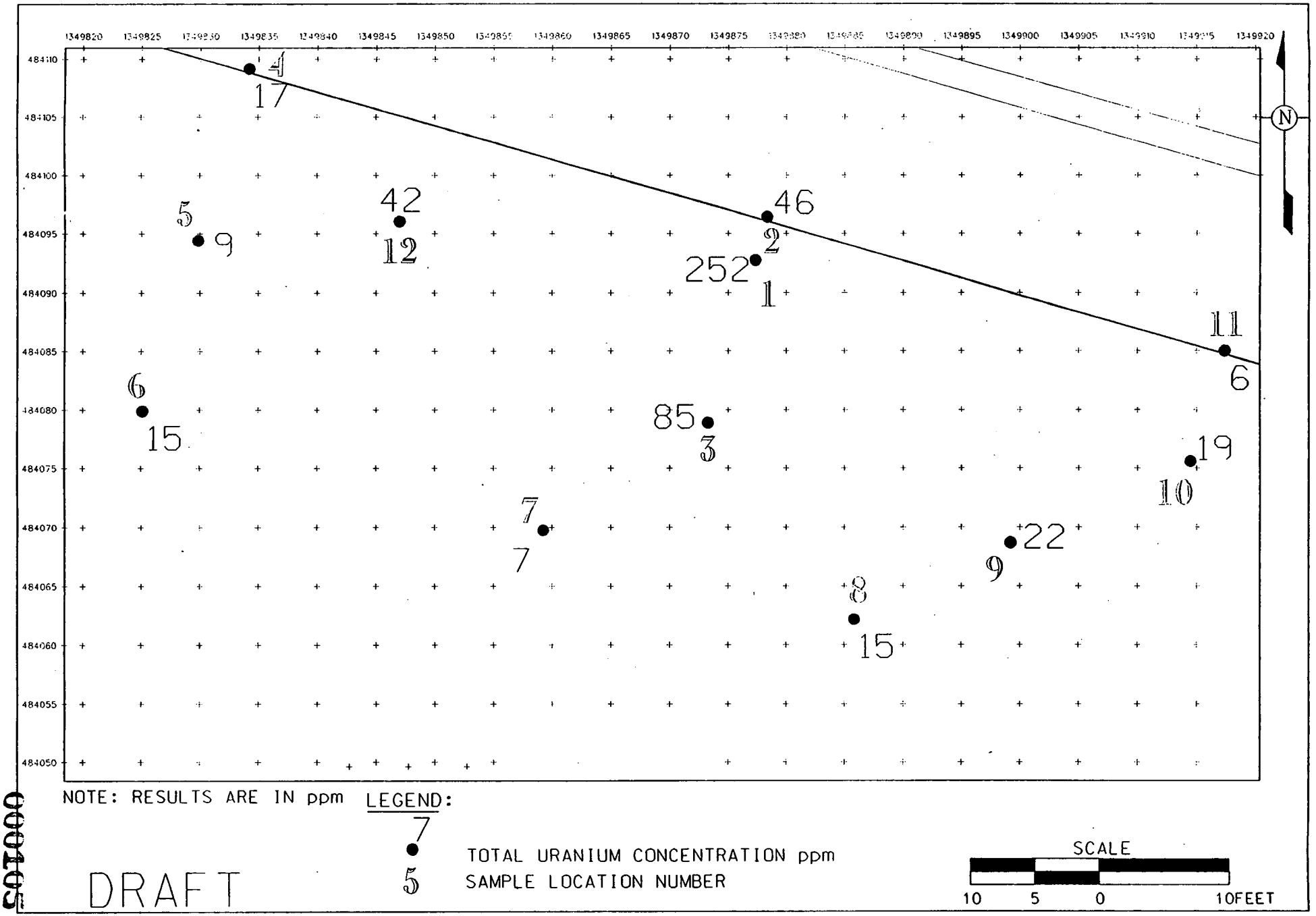


FIGURE 5-9. SAMPLING LOCATIONS IN O-20 FOR HOTSPOT REMOVAL

000104



NOTE: RESULTS ARE IN ppm

LEGEND:

7 — TOTAL URANIUM CONCENTRATION ppm

5 — SAMPLE LOCATION NUMBER

SCALE

10 5 0 10FEET

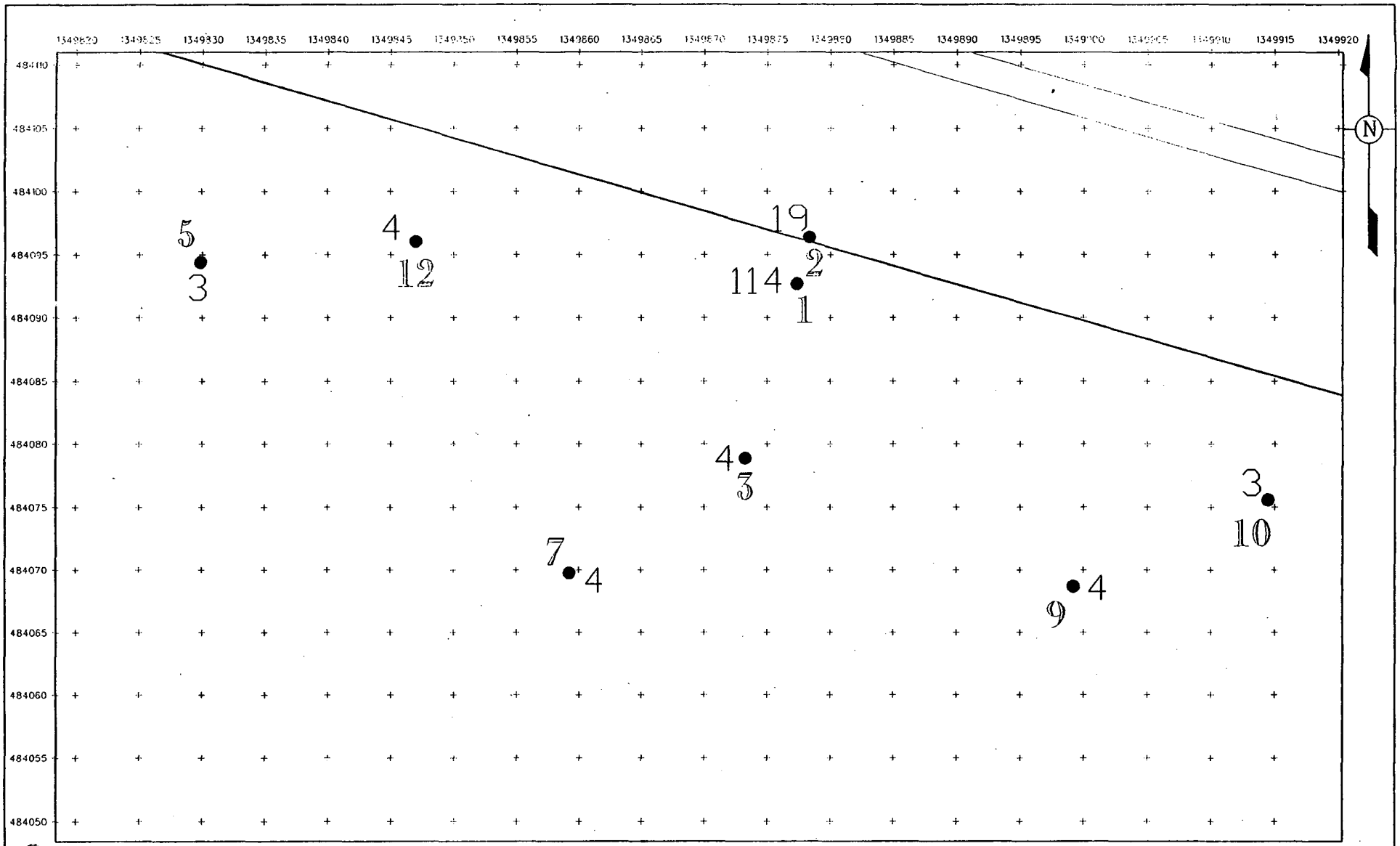
DRAFT

SRDIG DGN BMP O2OCONT1.DGN 8-21-97
STATE PLANAR COORDINATE SYSTEM 1983

FIGURE 5-10. 020 TOTAL URANIUM CONCENTRATION (ppm)
SAMPLE DEPTH 0" - 6"

0001405

1480



NOTE: RESULTS ARE IN ppm

LEGEND:

4
7

TOTAL URANIUM CONCENTATION ppm
SAMPLE LOCATION NUMBER

SCALE
10 5 0 10FEET

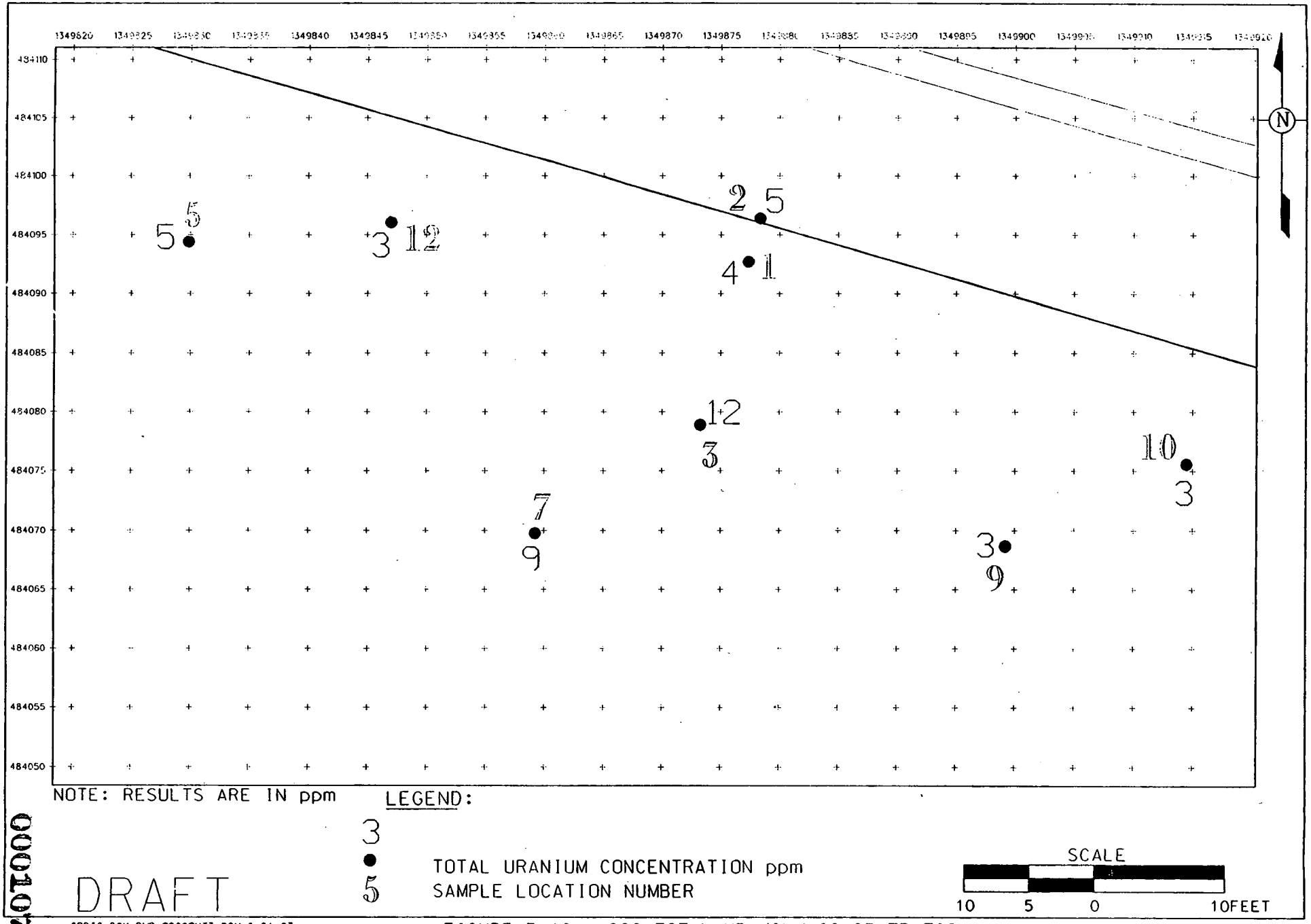
DRAFT

SRDIG DGN BMP 020CONT2.DGN 8-21-97
STATE PLANAR COORDINATE SYSTEM 1983

FIGURE 5-11. 020 TOTAL URANIUM CONCENTRATION (ppm)
SAMPLE DEPTH 6" - 12"

000106

1480



NOTE: RESULTS ARE IN ppm

LEGEND:

3 ● 5 — TOTAL URANIUM CONCENTRATION ppm / SAMPLE LOCATION NUMBER

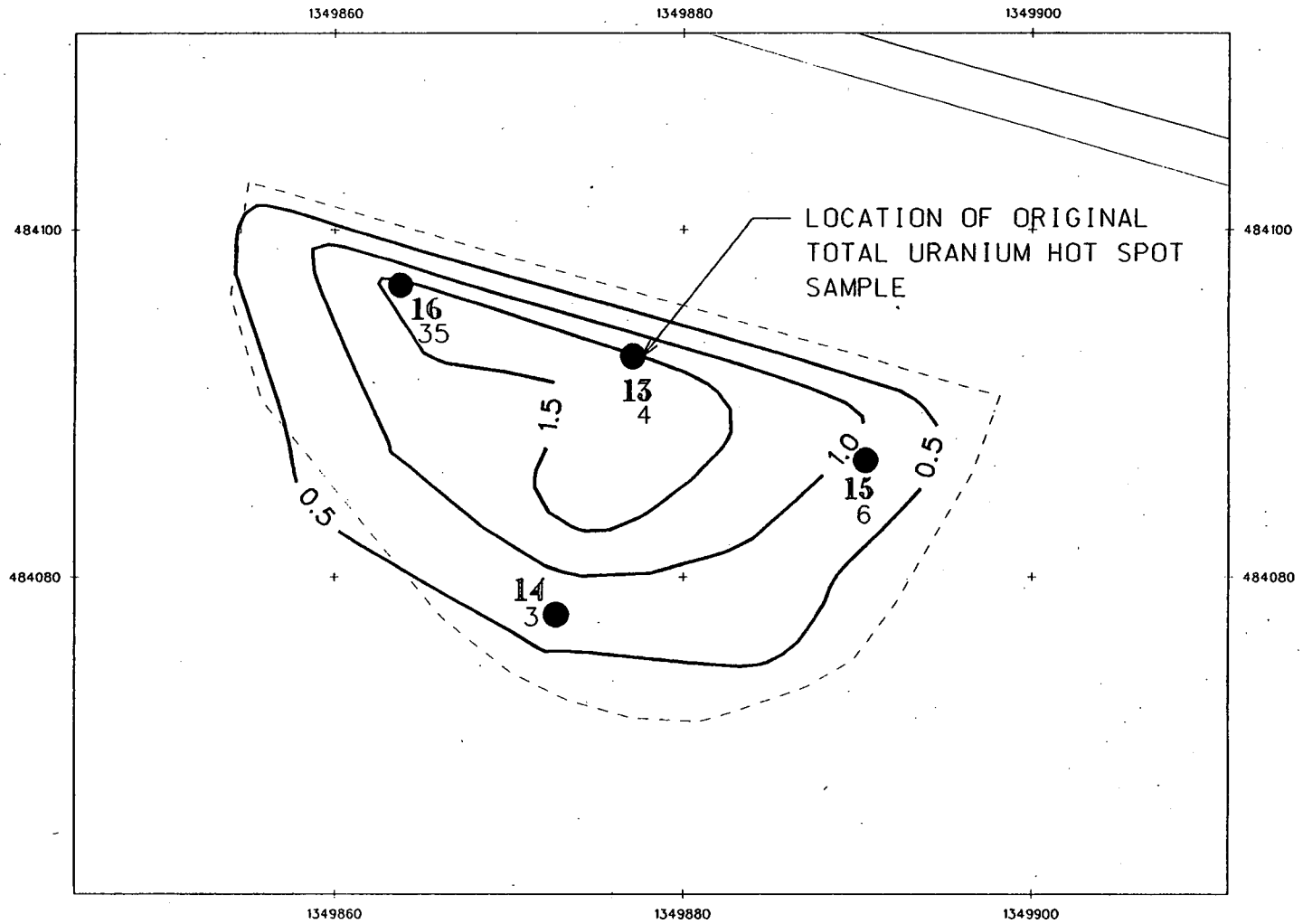
SCALE
10 5 0 10FEET

DRAFT

SRDIG DGN BMP 020CONT3.DGN 8-21-97
STATE PLANAR COORDINATE SYSTEM 1983

FIGURE 5-12. 020 TOTAL URANIUM CONCENTRATION (ppm)
SAMPLE DEPTH 12" - 18"

007000



LEGEND:

14 ● SAMPLE LOCATION

3 TOTAL URANIUM RESULT

SCALE

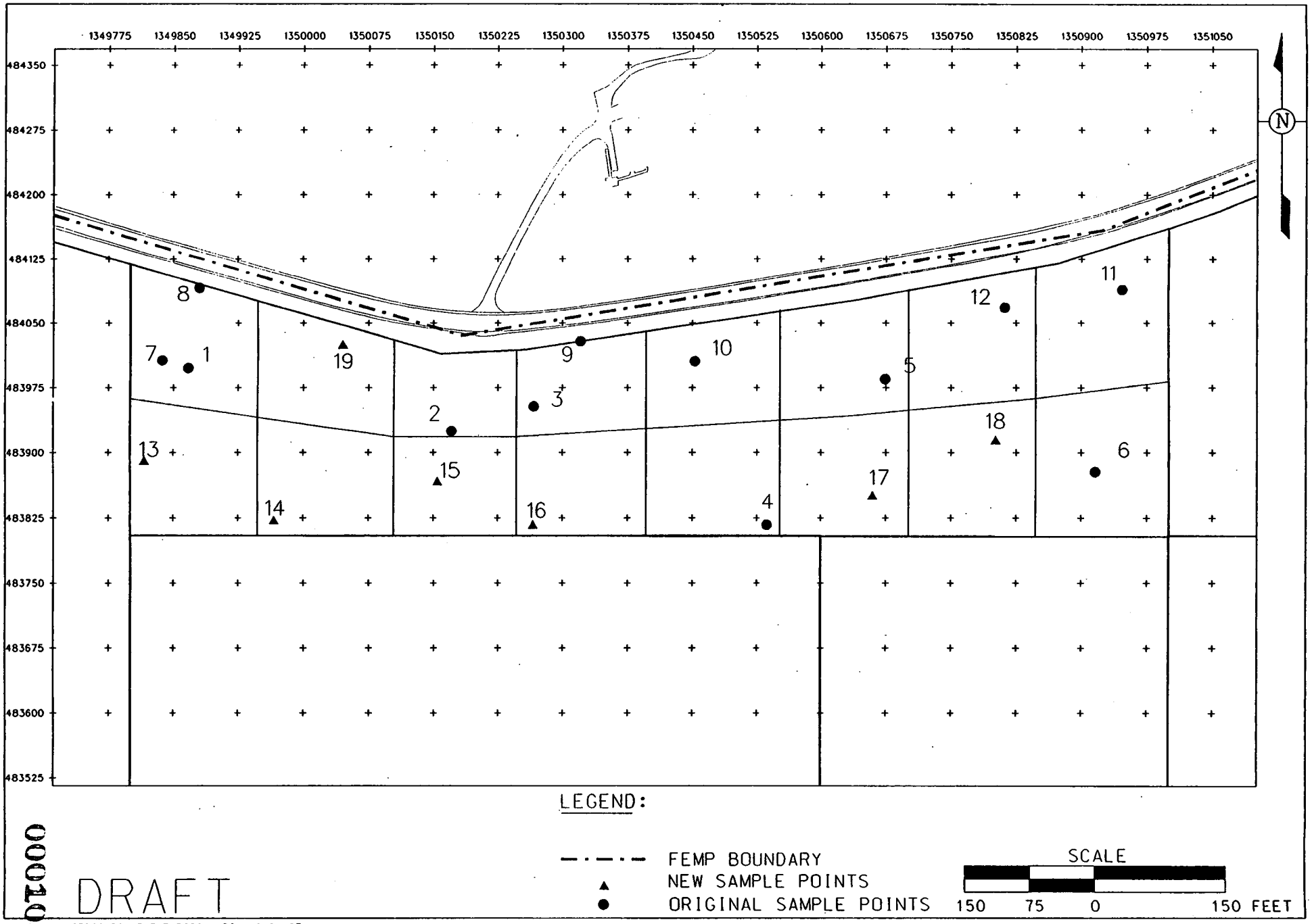
10 5 0 10 FEET

000108

DRAFT

SRDIG DGN BMP C20-EXC.DGN 9-9-97
STATE PLANAR COORDINATE SYSTEM 1983

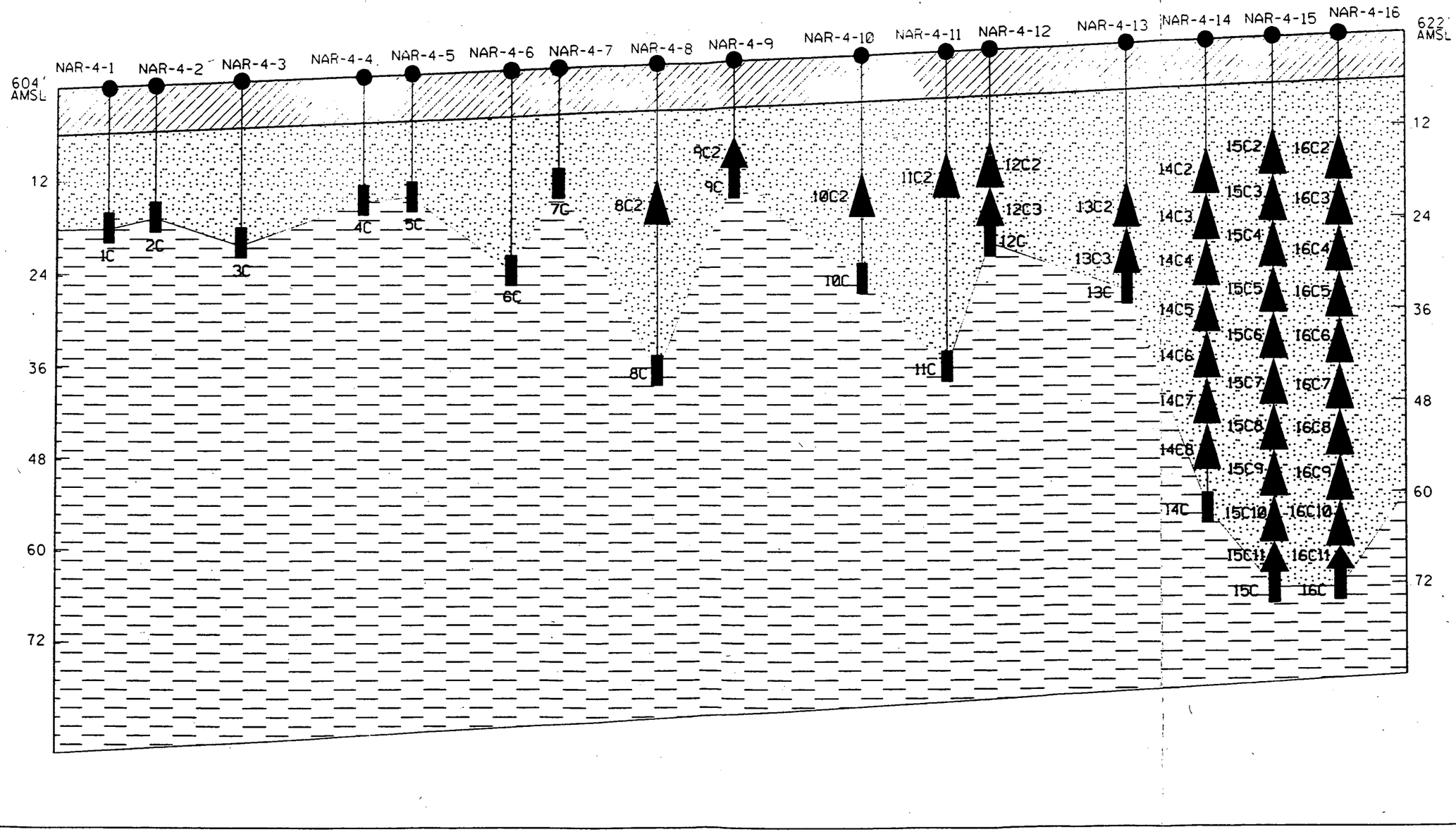
FIGURE 5-13. 020 HOTSPOT EXCAVATION DEPTH AND CONFIRMATION SAMPLE LOCATIONS



DRAFT

SRDIG DGN BMP RAD020-1.DGN 8-21-97
STATE PLANAR COORDINATE SYSTEM 1983

FIGURE 5-14. NEW AND ORIGINAL SAMPLE POINTS IN O-20



LEGEND:

▲ INTERVAL OF CERTIFICATION SAMPLE FROM COMPACTED FILL

▮ INTERVAL OF CERTIFICATION SAMPLE FROM UNDISTURBED SOIL

UNDISTURBED SOIL

COMPACTED FILL

PAVEMENT AND MACADAM

DRAFT

/usr/ermd5/srdig/dgn/bmp/cr-sec1.dgn

19-JUN-1997

STATE PLANAR COORDINATE SYSTEM 1927

FIGURE 5-15. NAR-4 CROSS-SECTION

000110

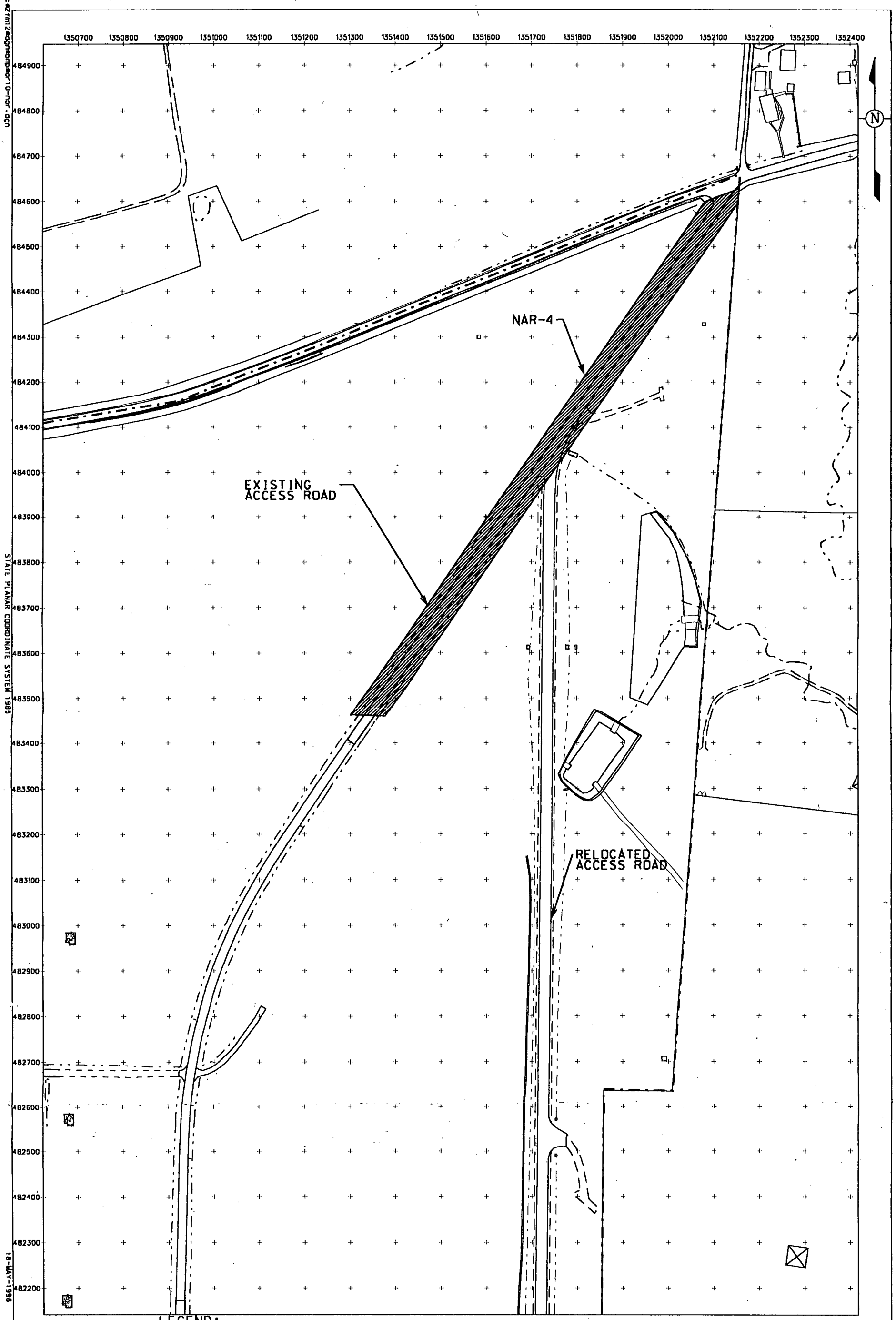


FIGURE 5-16. NAR-4 AND PLANNED RELOCATED NORTH ACCESS ROAD

SECTION 6.0
ACCESS TO CERTIFIED AREAS

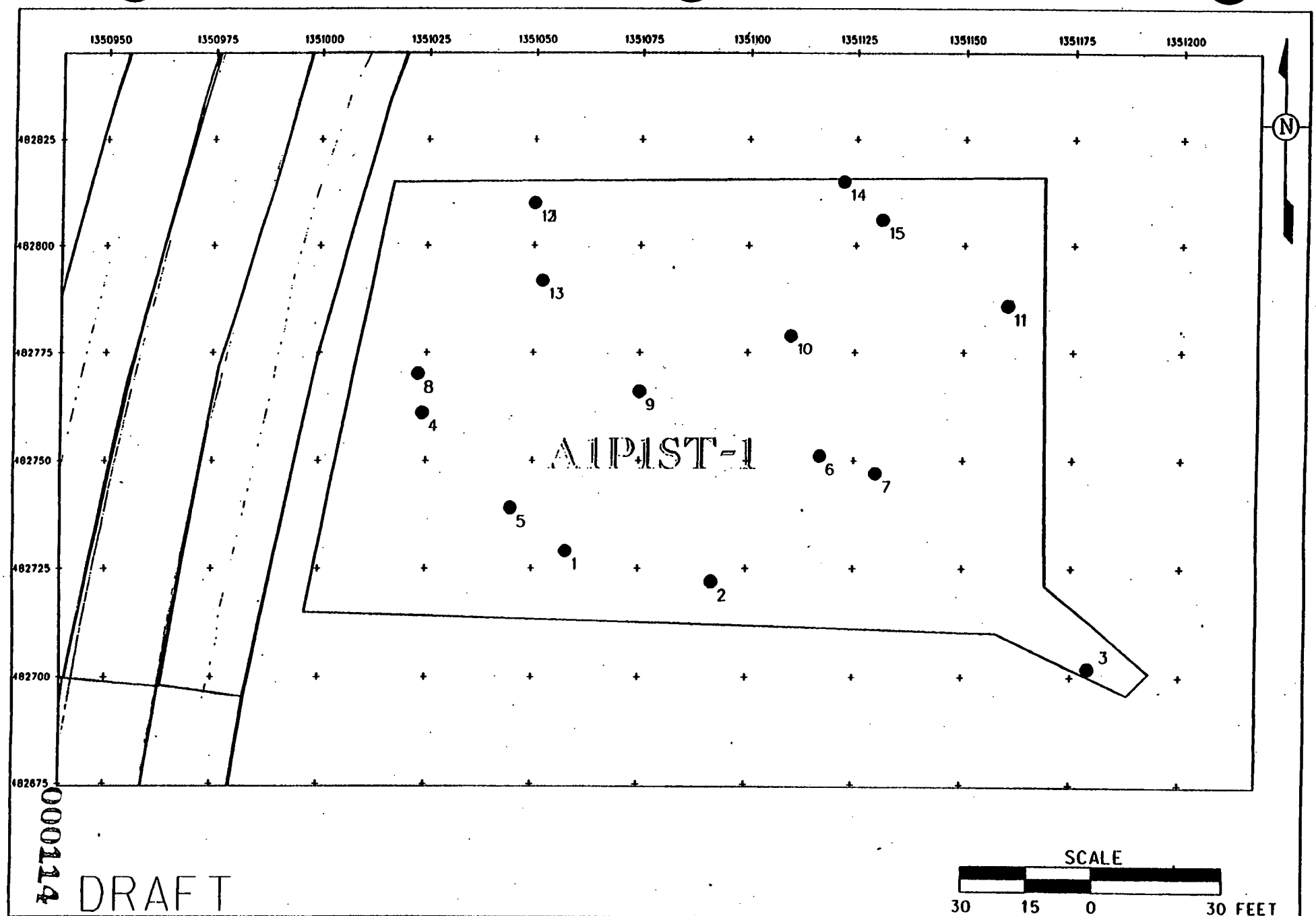
DOE has restricted access to the certified areas in order to maintain their integrity prior to transferral for final land use. A FEMP procedure (EP-0008) implements a process to protect certified areas from becoming re-contaminated. The process for A1PI was as follows:

- At the initiation of certification sampling activities for the area, temporary fencing was installed to delineate the boundaries of the area to be certified.
- Signs were posted on the temporary perimeter fencing where access approval for entry into the area was required.
- The access to the now certified A1PI area is further controlled by requiring written authorization from the responsible project manager to gain access.
- Any equipment that has been used on-site off-road or in a controlled area must be decontaminated using a pressure washer before it is used in a certified area; or for any intrusive work, before entry into the certified area.
- FEMP management team representatives will instruct general employees/operators on the entry and exit requirements for this area.

Since this area has been certified, it will be transferred to final land use. Until such time, best management practices and administrative controls will be used to protect the area from contamination, and other controls will be implemented as needed.

APPENDIX A

CU Maps and Statistics Tables



000114

DRAFT

ut*srdlg*dgn*bmp*rad-stl.dgn
STATE PLANAR COORDINATE SYSTEM 1983

19-MAY-1997

A1P1ST-1 PRIMARY RADIOLOGICAL MAP OF DATA POINTS

1480

Certification Unit: A1P1ST-1 03:57 PM 06-May-98

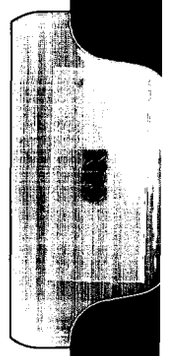
		PRIMARY ASCOS				
Map	Sample ID	Radium-226	Radium-228	Thorium-228	Thorium-232	Uranium, Total
1	A1P1ST1-2C-R	1.24 -	1.33 -	1.19 -	1.15 -	9.51 -
2	A1P1ST1-3C-R	1.32 -	1.38 -	1.23 -	1.03 -	8.91 J
3	A1P1ST1-4C-R	1.20 -	1.22 -	1.30 J	1.15 J	24.45 -
4	A1P1ST1-5C-R	1.50 -	1.30 -	1.70 -	1.60 -	3.30 J
5	A1P1ST1-6C-R	1.60 -	1.30 -	1.50 -	1.20 -	3.60 U
6	A1P1ST1-7C-R	1.10 -	1.20 -	0.98 J	0.86 -	3.00 U
7	A1P1ST1-8C-R	1.20 -	1.20 -	1.20 J	1.00 J	3.60 U
8	A1P1ST1-9C-R	1.41 -	1.11 -	1.30 -	1.19 -	2.84 U
9	A1P1ST1-10C-R	1.10 -	0.97 -	0.98 J	0.76 -	3.30 U
10	A1P1ST1-11C-R	1.10 -	0.93 -	1.10 J	0.84 J	2.91 U
11	A1P1ST1-12C-R	1.20 -	1.30 -	1.50 -	1.30 -	6.30 -
12	A1P1ST1-13C-R	1.40 -	1.50 -	1.40 -	1.10 -	3.90 J
12	A1P1ST1-13C-R-D	1.40 -	1.30 -	1.40 -	1.30 -	4.80 -
13	A1P1ST1-14C-R	1.30 -	1.10 -	1.40 -	1.20 -	3.90 -
14	A1P1ST1-15C-R	1.40 -	1.40 -	1.30 -	1.10 -	5.10 -
15	A1P1ST1-16C-R	1.50 -	1.40 -	1.40 -	1.40 -	6.30 -

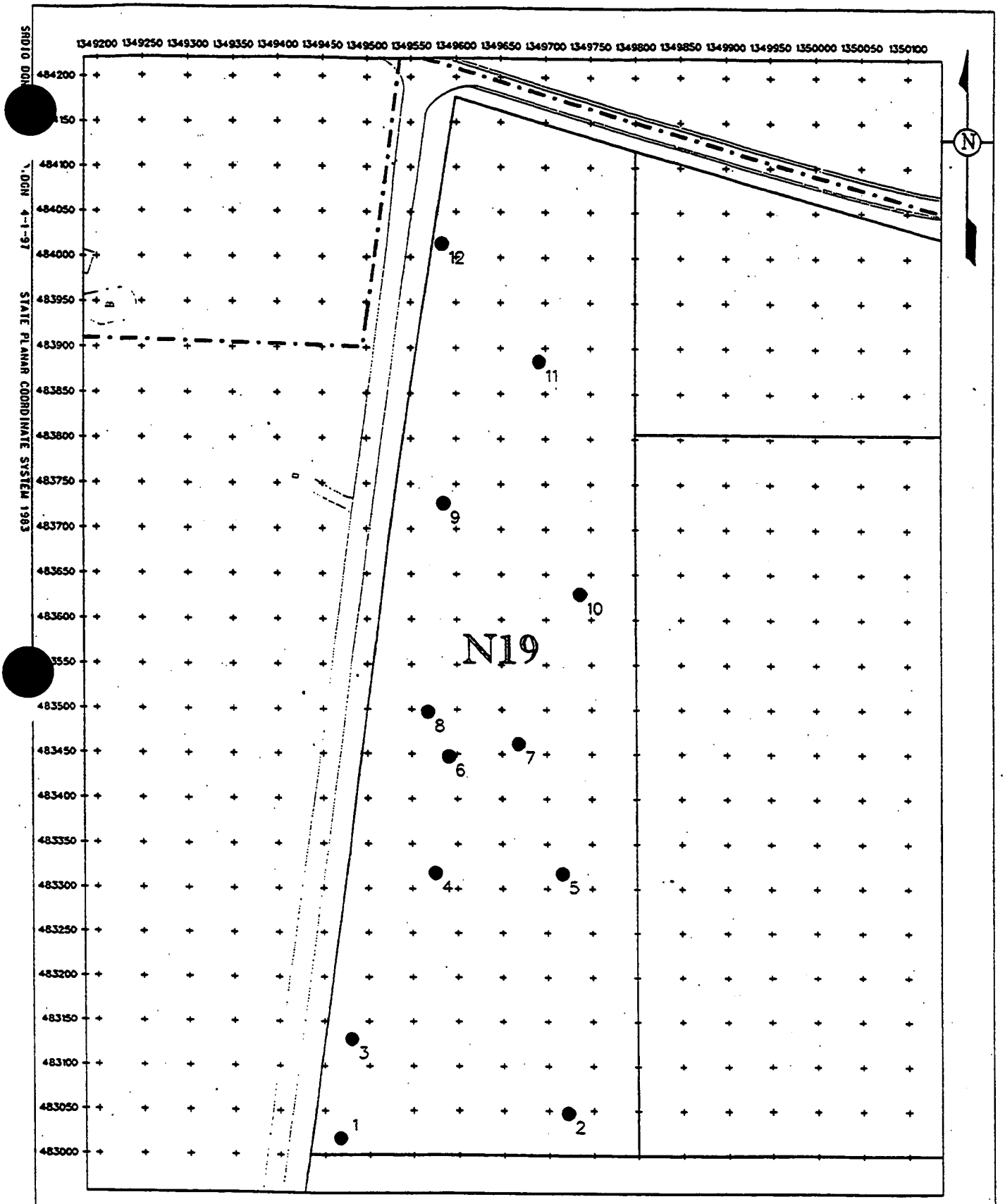
Method	Gamma	Gamma	Alpha	Alpha	Gamma
FRL	**1.70**	**1.80**	**1.70**	**1.50**	**82.00**
Units	pCi/g	pCi/g	pCi/g	pCi/g	ug/g
Background UCL	1.22	1.10	1.12	1.08	3.30
Background 95%	1.42	1.25	1.43	1.36	3.73
Samples	15	15	15	15	15
Hits	15	15	15	15	9
Max	**1.60**	**1.40**	**1.70**	**1.60**	**24.45**
Mean	1.30	1.24	1.30	1.13	5.45
St.Dev.	0.16	0.15	0.20	0.22	5.90
UCL	**1.38**	**1.30**	**1.39**	**1.23**	**8.13**
t-Stat	9.62	14.40	7.90	6.55	50.21
Prob.	0.0%	0.0%	0.0%	0.0%	0.0%
Pass/Fail	**Pass**	**Pass**	**Pass**	**Pass**	**Pass**
2 x (P/F)	**Pass**	**Pass**	**Pass**	**Pass**	**Pass**

NOTE: One half of the reported detection level was used in the calculations for results reported as below the detection limit (qualified with "U"). Duplicates were averaged before calculations were performed.

KEY

FRL - Final Remedial Level
Background UCL - Upper Confidence Level (95% one-sided) on the Mean Background concentration.
Background 95% - 95th Percentile of the background dataset.
Samples - Number of distinct sample locations in the analysis (see NOTE above).
Hits - Analyte positively detected in the sample.
Max - The maximum sample result.
Mean - The mean or average concentration. (See NOTE above).
St.Dev. - The standard deviation of the sample concentrations. (See NOTE above).
UCL - Upper Confidence Level (95% one-sided) on the Mean concentration.
t-Stat - The calculated t-statistic for the mean concentration compared to the FRL. (See the Certification Report).
Prob. - The probability (based on the t-Stat) that the true CU mean exceeds the FRL. Acceptable probability for primary COCs is 5% and 10% for seconday COCs.
Pass/Fail - Pass or Fail result from the t-Test based on "t-Stat" above. The associated probability is "Prob." above.
2 x (P/F) - Pass or Fail of the "No exceedances of twice the FRL" criteria.





000116

SCALE

150 75 0 150 FEET

DRAFT

N19 PRIMARY AND SECONDARY RADIOLOGICAL MAP OF DATA POINTS

Certification Unit: N19 04:54 PM 06-May-98

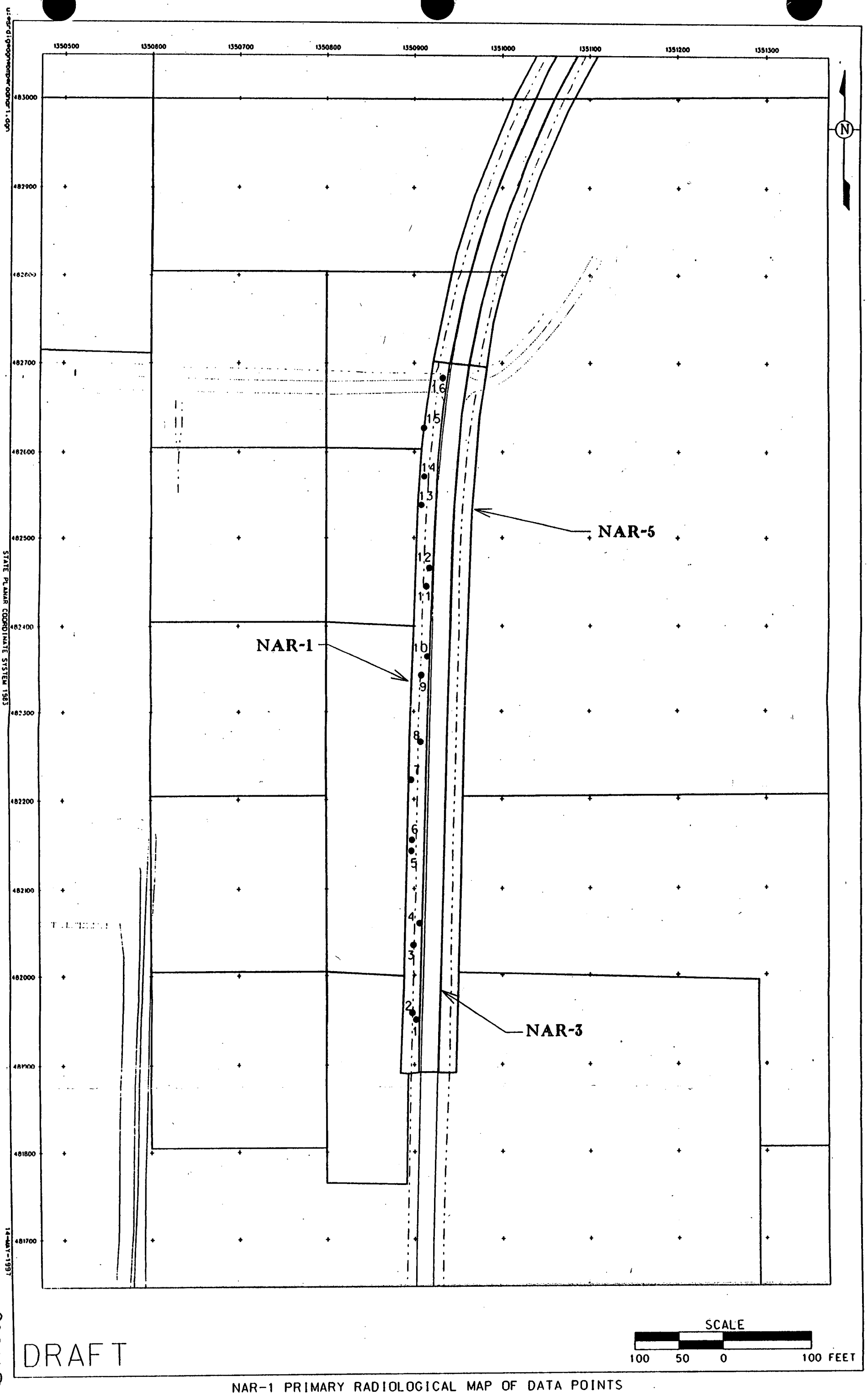
Map	Sample ID	PRIMARY COCs: Radium-226		Radium-228		Thorium-228		Thorium-232		Uranium, total		SECONDARY COCs: Cesium-137		Thorium-230	
1	N19-00C-1-R	1.38	-	1.47	-	1.58	J	1.30	J	14.51	-	0.64	-	1.91	J
2	N19-00C-2-R	1.47	-	1.08	-	1.54	-	1.22	-	19.09	-	0.55	-	2.07	-
3	N19-00C-3-R	1.43	-	1.41	-	1.55	J	1.35	J	23.81	-	0.96	-	1.98	J
4	N19-00C-5-R	1.65	-	1.43	-	1.30	-	1.09	-	8.09	-	0.66	-	1.56	J
5	N19-00C-6-R	1.37	-	1.36	-	1.45	J	1.20	J	13.32	-	0.57	-	1.88	J
6	N19-00C-7-R	1.51	-	1.30	-	1.38	J	1.01	J	7.37	-	0.56	-	1.58	J
7	N19-00C-8-R	1.40	-	1.24	-	1.13	-	1.04	-	12.71	-	0.59	-	1.49	-
8	N19-00C-9-R	1.49	-	1.17	-	1.64	-	1.06	-	9.63	-	0.54	-	1.63	J
9	N19-00C-11-R	1.39	-	1.33	-	1.28	-	1.07	-	13.18	-	0.65	-	1.72	J
10	N19-00C-12-R	1.36	-	1.41	-	1.58	J	1.22	J	11.46	-	0.50	-	1.80	J
10	N19-00C-12-R-D	1.34	-	1.28	-	1.33	-	1.25	-	11.26	-	0.51	-	1.55	-
11	N19-00C-14-R	1.18	-	1.39	-	2.13	-	1.71	-	16.90	-	0.69	-	1.88	-
12	N19-00C-15-R	1.48	-	1.06	-	1.37	J	1.16	J	5.22	-	0.68	-	1.68	J
	Method	**Gamma**		**Gamma**		**Alpha**		**Alpha**		**Gamma**		**Gamma**		**Alpha**	
	FRL	**1.70**		**1.80**		**1.70**		**1.50**		**82.00**		**1.40**		**280.00**	
	Units	pCi/g		pCi/g		pCi/g		pCi/g		ug/g		pCi/g		pCi/g	
	Background UCL	1.22		1.10		1.12		1.08		3.30		0.44		1.50	
	Background 95%	1.42		1.25		1.43		1.36		3.73		0.71		1.97	
	Samples	12		12		12		12		12		12		12	
	Hits	12		12		12		12		12		12		12	
	Max	**1.65**		**1.47**		**2.13**		**1.71**		**23.81**		**0.96**		**2.07**	
	Mean	1.42		1.30		1.48		1.20		12.93		0.63		1.75	
	St.Dev.	0.11		0.13		0.25		0.19		5.24		0.12		0.19	
	UCL	**1.48**		**1.37**		**1.61**		**1.30**		**15.65**		**0.68**		**1.83**	
	t-Stat	8.39		12.99		3.04		5.36		45.67		22.21		5200.45	
	Prob.	0.0%		0.0%		0.6%		0.0%		0.0%		0.0%		0.0%	
	Pass/Fail	**Pass**		**Pass**		**Pass**		**Pass**		**Pass**		**Pass**		**Pass**	
	2 x (P/F)	**Pass**		**Pass**		**Pass**		**Pass**		**Pass**		-		-	

NOTE: One half of the reported detection level was used in the calculations for results reported as below the detection limit (qualified with "U"). Duplicates were averaged before calculations were performed.

KEY

FRL - Final Remedial Level
Background UCL - Upper Confidence Level (95% one-sided) on the Mean Background concentration.
Background 95% - 95th Percentile of the background dataset.
Samples - Number of distinct sample locations in the analysis (see NOTE above).
Hits - Analyte positively detected in the sample.
Max - The maximum sample result.
Mean - The mean or average concentration. (See NOTE above).
St.Dev. - The standard deviation of the sample concentrations. (See NOTE above).
UCL - Upper Confidence Level (95% one-sided) on the Mean concentration.
t-Stat - The calculated t-statistic for the mean concentration compared to the FRL. (See the Certification Report).
Prob. - The probability (based on the t-Stat) that the true CU mean exceeds the FRL. Acceptable probability for primary COCs is 5% and 10% for seconday COCs.
Pass/Fail - Pass or Fail result from the t-Test based on "t-Stat" above. The associated probability is "Prob." above.
2 x (P/F) - Pass or Fail of the "No exceedances of twice the FRL" criteria.

NAR-1 - NAR-9



DRAFT

NAR-1 PRIMARY RADIOLOGICAL MAP OF DATA POINTS

811000

1480

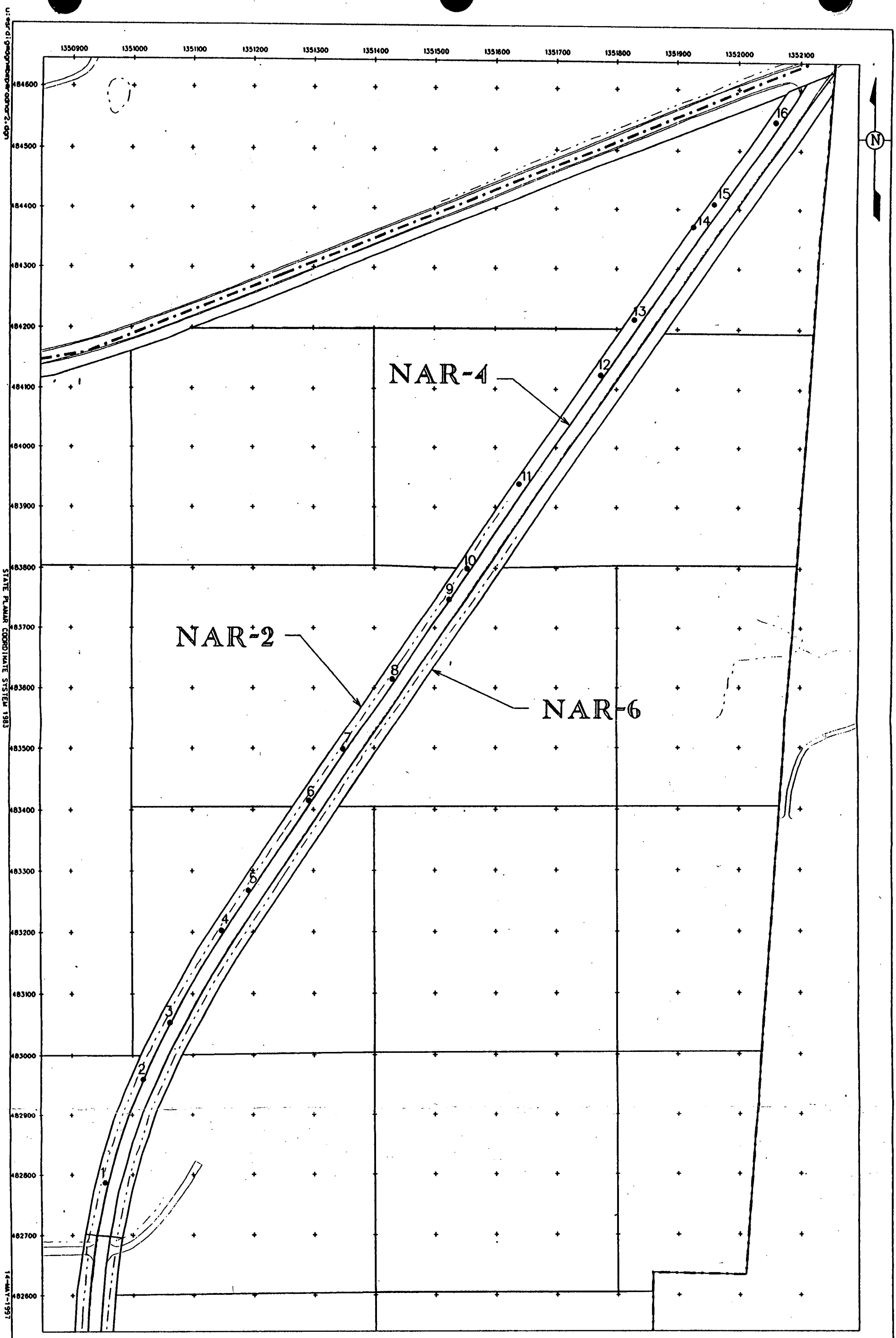
Certification Unit: NAR-1 05:03 PM 06-May-98

Map	Sample ID	PRIMARY COCs				
		Radium-226	Radium-226	Thorium-228	Thorium-232	Uranium-238
1	NAR-1-1C-R	0.98 -	1.01 -	1.20 J	0.93 J	3.09 U
2	NAR-1-2C-R	1.00 -	1.15 -	1.25 J	1.04 J	2.26 -
3	NAR-1-3C-R	1.00 -	0.84 -	1.28 J	0.93 J	3.24 U
4	NAR-1-4C-R	1.30 -	1.11 -	1.06 J	0.93 J	3.01 U
5	NAR-1-5C-R	1.25 -	1.32 -	1.07 -	1.18 -	7.57 J
6	NAR-1-6C-R	1.14 -	1.31 -	1.07 J	1.05 J	5.48 J
7	NAR-1-7C-R	1.27 -	1.15 -	1.15 J	1.06 J	7.33 J
8	NAR-1-8C-R	1.03 -	1.01 -	0.98 -	0.76 -	3.38 U
9	NAR-1-9C-R	1.31 -	1.21 -	1.32 J	1.19 J	3.62 -
10	NAR-1-10C-R	1.48 -	1.23 -	1.36 -	1.27 -	5.19 J
11	NAR-1-11C-R	1.28 -	1.19 -	1.34 J	1.22 J	2.57 -
12	NAR-1-12C-R	1.60 -	1.43 -	1.55 J	1.21 J	2.63 U
13	NAR-1-13C-R	1.53 -	1.26 -	1.29 -	1.04 -	5.84 J
14	NAR-1-14C-R	1.31 -	1.38 -	1.30 -	1.24 -	6.82 J
15	NAR-1-15C-R	1.34 -	1.23 -	1.32 J	1.21 J	9.96 J
16	NAR-1-16C-R	1.22 -	1.45 -	1.47 -	1.08 -	10.67 -
16	NAR-1-16C-R-D	1.33 -	1.23 -	1.38 -	1.09 -	5.31 J
	Method	**Gamma**	**Gamma**	**Alpha**	**Alpha**	**Gamma**
	FRL	**1.70**	**1.80**	**1.70**	**1.50**	**82.00**
	Units	pCi/g	pCi/g	pCi/g	pCi/g	ug/g
	Background UCL	1.22	1.10	1.12	1.08	3.30
	Background 95%	1.42	1.25	1.43	1.36	3.73
	Samples	16	16	16	16	16
	Hits	16	16	16	16	11
	Max	**1.60**	**1.43**	**1.55**	**1.27**	**9.96**
	Mean	1.25	1.20	1.25	1.08	4.52
	St.Dev.	0.19	0.15	0.15	0.14	2.85
	UCL	**1.34**	**1.26**	**1.31**	**1.15**	**5.77**
	t-Stat	9.38	15.71	12.03	11.58	108.90
	Prob.	0.0%	0.0%	0.0%	0.0%	0.0%
	Pass/Fail	**Pass**	**Pass**	**Pass**	**Pass**	**Pass**
	2 x (P/F)	**Pass**	**Pass**	**Pass**	**Pass**	**Pass**

NOTE: One half of the reported detection level was used in the calculations for results reported as below the detection limit (qualified with "U"). Duplicates were averaged before calculations were performed.

KEY

FRL - Final Remedial Level
Background UCL - Upper Confidence Level (95% one-sided) on the Mean Background concentration.
Background 95% - 95th Percentile of the background dataset.
Samples - Number of distinct sample locations in the analysis (see NOTE above).
Hits - Analyte positively detected in the sample.
Max - The maximum sample result.
Mean - The mean or average concentration. (See NOTE above).
St.Dev. - The standard deviation of the sample concentrations. (See NOTE above).
UCL - Upper Confidence Level (95% one-sided) on the Mean concentration.
t-Stat - The calculated t-statistic for the mean concentration compared to the FRL. (See the Certification Report).
Prob. - The probability (based on the t-Stat) that the true CU mean exceeds the FRL. Acceptable probability for primary COCs is 5% and 10% for seconday COCs.
Pass/Fail - Pass or Fail result from the t-Test based on "t-Stat" above. The associated probability is "Prob." above.
2 x (P/F) - Pass or Fail of the "No exceedances of twice the FRL" criteria.



NAR-2 PRIMARY RADIOLOGICAL MAP OF DATA POINTS

000120

1480

Certification Unit: NAR-2 05:03 PM 06-May-98

Map	Sample ID	PRIMARY COC: Radium-226		Radium-228		Thorium-228		Thorium-232		Uranium-tot	
1	NAR-2-1C-R	1.60	-	1.29	-	1.45	-	1.07	-	5.48	J
2	NAR-2-2C-R	1.44	-	1.43	-	1.40	-	1.17	-	8.13	J
3	NAR-2-3C-R	0.76	-	0.63	-	0.75	-	0.57	-	3.50	J
4	NAR-2-4C-R	0.85	-	0.82	-	0.70	-	0.16	J	2.71	U
5	NAR-2-5C-R	0.87	-	0.77	-	0.86	-	0.77	-	3.80	J
5	NAR-2-5C-R-D	0.86	-	0.83	-	0.83	J	0.65	J	3.55	J
6	NAR-2-6C-R	0.82	-	0.84	-	0.99	-	0.92	-	4.72	J
7	NAR-2-7C-R	0.85	-	0.45	J	0.77	-	0.78	-	7.99	J
8	NAR-2-8C-R	1.03	-	0.77	-	0.83	-	0.73	-	5.09	J
9	NAR-2-9C-R	1.45	-	1.46	-	1.28	-	1.18	-	5.33	J
10	NAR-2-10C-R	1.46	-	1.23	-	1.10	-	1.12	-	3.51	J
11	NAR-2-11C-R	1.29	-	1.39	-	1.11	-	1.17	-	4.41	J
12	NAR-2-12C-R	0.99	-	0.93	-	0.95	-	1.08	-	3.98	J
13	NAR-2-13C-R	1.22	-	1.46	-	1.05	-	1.12	-	7.39	J
14	NAR-2-14C-R	1.09	-	1.32	-	1.17	-	1.03	-	10.74	J
15	NAR-2-15C-R	1.24	-	1.33	-	0.94	-	1.05	-	7.51	J
16	NAR-2-16C-R	1.26	-	1.38	-	1.08	-	1.18	-	9.03	-

Method	Gamma	Gamma	Alpha	Alpha	Gamma
FRL	**1.70**	**1.80**	**1.70**	**1.50**	**82.00**
Units	pCi/g	pCi/g	pCi/g	pCi/g	ug/g
Background UCL	1.22	1.10	1.12	1.08	3.30
Background 95%	1.42	1.25	1.43	1.36	3.73
Samples	16	16	16	16	16
Hits	16	16	16	16	15
Max	**1.60**	**1.46**	**1.45**	**1.18**	**10.74**
Mean	1.14	1.09	1.03	0.94	5.74
St.Dev.	0.27	0.34	0.22	0.28	2.48
UCL	**1.26**	**1.24**	**1.12**	**1.06**	**6.83**
t-Stat	8.36	8.40	12.02	7.87	122.88
Prob.	0.0%	0.0%	0.0%	0.0%	0.0%
Pass/Fail	**Pass**	**Pass**	**Pass**	**Pass**	**Pass**
2 x (P/F)	**Pass**	**Pass**	**Pass**	**Pass**	**Pass**

NOTE: One half of the reported detection level was used in the calculations for results reported as below the detection limit (qualified with "U"). Duplicates were averaged before calculations were performed.

KEY

FRL - Final Remedial Level
Background UCL - Upper Confidence Level (95% one-sided) on the Mean Background concentration.
Background 95% - 95th Percentile of the background dataset.
Samples - Number of distinct sample locations in the analysis (see NOTE above).
Hits - Analyte positively detected in the sample.
Max - The maximum sample result.
Mean - The mean or average concentration. (See NOTE above).
St.Dev. - The standard deviation of the sample concentrations. (See NOTE above).
UCL - Upper Confidence Level (95% one-sided) on the Mean concentration.
t-Stat - The calculated t-statistic for the mean concentration compared to the FRL. (See the Certification Report).
Prob. - The probability (based on the t-Stat) that the true CU mean exceeds the FRL. Acceptable probability for primary COCs is 5% and 10% for seconday COCs.
Pass/Fail - Pass or Fail result from the t-Test based on "t-Stat" above. The associated probability is "Prob." above.
2 x (P/F) - Pass or Fail of the "No exceedances of twice the FRL" criteria.

SRDTG DGN BMP RADNAR3.DGN 4-30-97 STATE PLANAR COORDINATE SYSTEM 1983

1350650 1350700 1350750 1350800 1350850 1350900 1350950 1351000 1351050 1351100 1351150 1351200 1351250

82800 82750 82700 82650 82600 82550 82500 82450 82400 82350 82300 82250 82200 82150 82100 82050 82000 81950 81900

N

NAR-1

NAR-5

NAR-3

16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1

SCALE

70 35 0 70 FEET

DRAFT

NAR-3 PRIMARY RADIOLOGICAL MAP OF DATA POINTS

0001422

1480

Certification Unit: NAR-3 01:35 PM 26-May-98

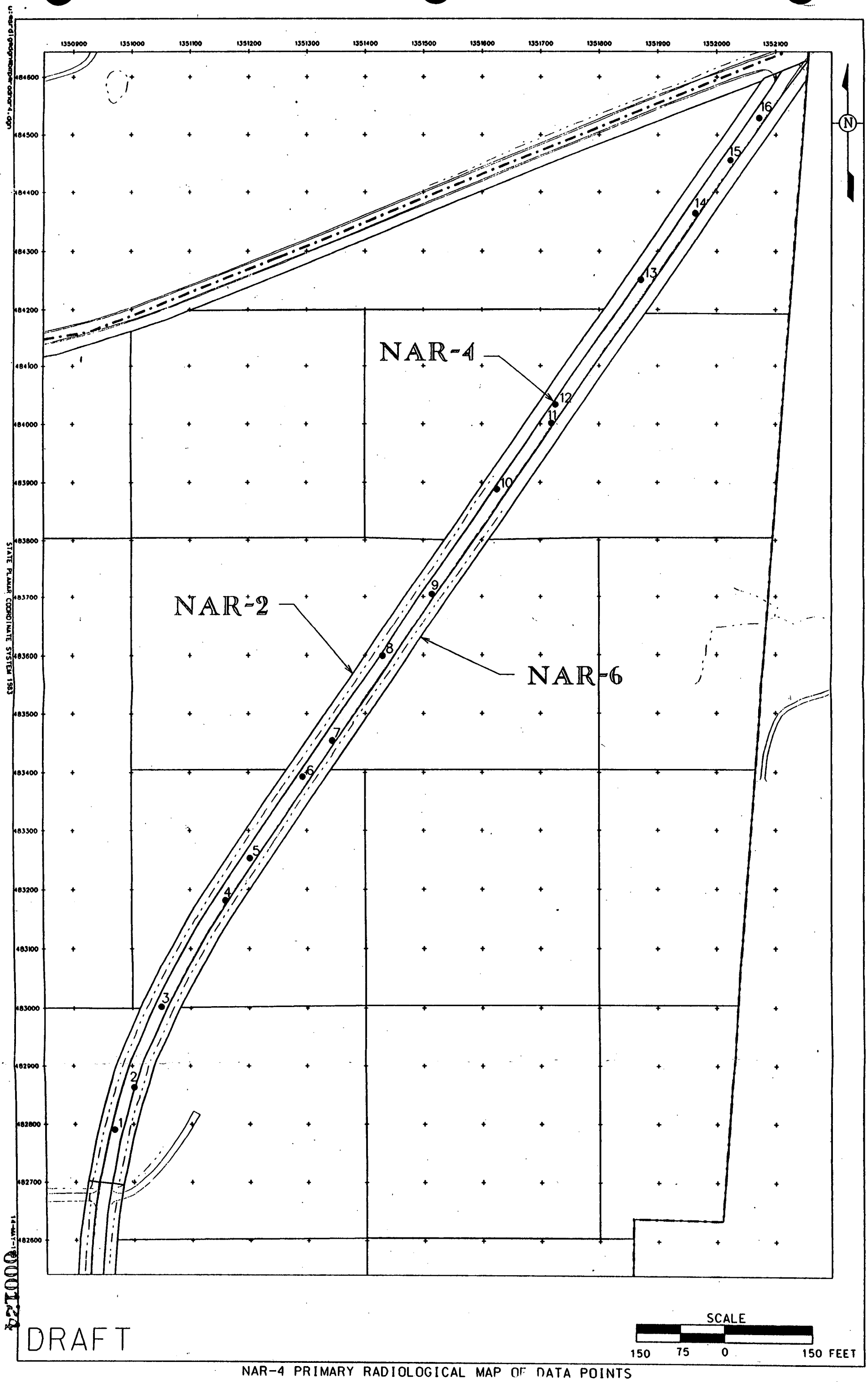
		PRIMARY ASCOCs									
Map	Sample ID	Radium-226		Radium-228		Thorium-228		Thorium-232		Uranium, Total	
1	NAR-3-1C-R	0.87	-	0.83	-	1.08	J	0.82	J	1.17	U
2	NAR-3-2C-R	1.00	-	0.84	-	0.95	J	0.70	J	2.68	U
3	NAR-3-3C-R	1.28	R	1.05	R	1.01	R	1.00	R	2.77	R
3	NAR-3-3C-R-D	1.14	R	1.16	R	1.13	R	1.00	R	6.28	R
4	NAR-3-4C-R	1.32	J	1.12	-	1.31	J	1.03	J	3.43	U
5	NAR-3-5C-R	1.32	J	1.10	-	1.14	J	1.06	J	3.38	U
6	NAR-3-6C-R	0.99	J	1.06	-	1.30	J	0.94	J	2.47	-
7	NAR-3-7C-R	1.19	J	0.89	-	1.06	J	0.91	J	3.44	U
8	NAR-3-8C-R	1.53	J	1.40	-	1.62	-	1.48	-	1.21	U
9	NAR-3-9C-R	1.60	J	1.64	-	1.55	J	1.35	J	3.75	U
10	NAR-3-10C-R	1.38	J	1.46	-	1.52	J	1.29	J	1.81	U
11	NAR-3-11C-R	1.37	J	1.50	-	1.77	J	1.42	J	1.66	-
12	NAR-3-12C-R	1.13	-	1.10	-	0.98	J	1.10	J	6.54	J
13	NAR-3-13C-R	1.48	-	1.16	-	1.11	-	0.95	-	2.79	U
14	NAR-3-14C-R	0.94	-	0.73	-	0.85	-	0.92	-	2.15	U
15	NAR-3-15C-R	1.35	-	1.36	-	1.17	-	1.35	-	3.59	J
16	NAR-3-16C-R	1.29	-	1.41	-	1.14	-	1.06	-	1.81	U

Method	Gamma	Gamma	Alpha	Alpha	Gamma
FRL	**1.70**	**1.80**	**1.70**	**1.50**	**82.00**
Units	pCi/g	pCi/g	pCi/g	pCi/g	ug/g
Background UCL	1.22	1.10	1.12	1.08	3.30
Background 95%	1.42	1.25	1.43	1.36	3.73
Samples	15	15	15	15	15
Hits	15	15	15	15	4
Max	**1.60**	**1.64**	**1.77**	**1.48**	**6.54**
Mean	1.25	1.17	1.24	1.09	1.87
St.Dev.	0.22	0.28	0.27	0.23	1.50
UCL	**1.35**	**1.30**	**1.36**	**1.20**	**2.55**
t-Stat	7.80	8.75	6.66	6.74	206.71
Prob.	0.0%	0.0%	0.0%	0.0%	0.0%
Pass/Fail	**Pass**	**Pass**	**Pass**	**Pass**	**Pass**
2 x (P/F)	**Pass**	**Pass**	**Pass**	**Pass**	**Pass**

NOTE: Rejected data (qualified "R") was not used in the calculations. One half of the reported detection level was used in the calculations for results reported as below the detection limit (qualified with "U"). Duplicates were averaged before calculations were performed.

KEY

FRL - Final Remedial Level
Background UCL - Upper Confidence Level (95% one-sided) on the Mean Background concentration.
Background 95% - 95th Percentile of the background dataset.
Samples - Number of distinct sample locations in the analysis (see NOTE above).
Hits - Analyte positively detected in the sample.
Max - The maximum sample result.
Mean - The mean or average concentration. (See NOTE above).
St.Dev. - The standard deviation of the sample concentrations. (See NOTE above).
UCL - Upper Confidence Level (95% one-sided) on the Mean concentration.
t-Stat - The calculated t-statistic for the mean concentration compared to the FRL. (See the Certification Report).
Prob. - The probability (based on the t-Stat) that the true CU mean exceeds the FRL. Acceptable probability for primary COCs is 5% and 10% for seconday COCs.
Pass/Fail - Pass or Fail result from the t-Test based on "t-Stat" above. The associated probability is "Prob." above
2 x (P/F) - Pass or Fail of the "No exceedances of twice the FRL" criteria.



NAR-4 PRIMARY RADIOLOGICAL MAP OF DATA POINTS

0001124

Certification Unit: NAR-4 05:02 PM 06-May-98

Map	Sample ID	PRIMARY COCs Radium-226		Radium-226		Thorium-228		Thorium-232		Uranium-238	
1	NAR-4-1C-R	1.38	-	1.49	-	1.24	J	1.12	J	2.76	U
2	NAR-4-2C-R	1.55	-	1.20	-	1.43	-	1.21	-	2.64	U
3	NAR-4-3C-R	1.30	-	1.24	-	1.07	-	1.13	-	6.28	J
4	NAR-4-4C-R	0.98	-	0.90	-	0.81	-	0.81	-	5.10	J
5	NAR-4-5C-R	0.86	-	0.61	-	0.92	-	0.91	-	6.46	J
6	NAR-4-6C-R	0.83	-	1.02	-	1.38	-	1.19	-	5.22	J
7	NAR-4-7C-R	0.76	-	0.85	-	0.93	-	0.78	-	3.95	J
8	NAR-4-8C-R	1.27	J	0.89	-	0.93	J	0.82	J	3.90	U
9	NAR-4-9C-R	1.41	J	1.18	-	1.51	J	1.27	J	3.90	U
9	NAR-4-9C-R-D	1.49	J	1.28	-	1.60	-	1.32	-	1.38	-
10	NAR-4-10C-R	1.12	J	0.88	-	1.24	J	1.09	J	3.65	U
11	NAR-4-11C-R	1.49	J	1.22	-	1.50	-	1.21	-	1.62	J
12	NAR-4-12C-R	1.25	J	1.27	-	1.42	J	1.13	J	3.60	U
13	NAR-4-13C-R	1.41	J	1.25	-	1.35	J	1.16	J	3.60	U
14	NAR-4-14C-R	1.39	J	1.33	-	1.51	J	1.22	J	1.65	U
15	NAR-4-15C-R	1.37	J	1.37	-	1.52	J	1.22	J	3.30	J
16	NAR-4-16C-R	1.34	J	1.23	-	1.46	-	1.23	-	3.30	U

Method	Gamma	Gamma	Alpha	Alpha	Gamma
FRL	**1.70**	**1.80**	**1.70**	**1.50**	**82.00**
Units	pCi/g	pCi/g	pCi/g	pCi/g	ug/g
Background UCL	1.22	1.10	1.12	1.08	3.30
Background 95%	1.42	1.25	1.43	1.36	3.73
Samples	16	16	16	16	16
Hits	16	16	16	16	8
Max	**1.55**	**1.49**	**1.55**	**1.30**	**6.46**
Mean	1.23	1.12	1.27	1.10	2.88
St.Dev.	0.25	0.24	0.25	0.17	1.90
UCL	**1.34**	**1.23**	**1.38**	**1.17**	**3.71**
t-Stat	7.52	11.46	6.90	9.60	166.99
Prob.	0.0%	0.0%	0.0%	0.0%	0.0%
Pass/Fail	**Pass**	**Pass**	**Pass**	**Pass**	**Pass**
2 x (P/F)	**Pass**	**Pass**	**Pass**	**Pass**	**Pass**

NOTE: One half of the reported detection level was used in the calculations for results reported as below the detection limit (qualified with "U"). Duplicates were averaged before calculations were performed.

KEY

FRL - Final Remedial Level
Background UCL - Upper Confidence Level (95% one-sided) on the Mean Background concentration.
Background 95% - 95th Percentile of the background dataset.
Samples - Number of distinct sample locations in the analysis (see NOTE above).
Hits - Analyte positively detected in the sample.
Max - The maximum sample result.
Mean - The mean or average concentration. (See NOTE above).
St.Dev. - The standard deviation of the sample concentrations. (See NOTE above).
UCL - Upper Confidence Level (95% one-sided) on the Mean concentration.
t-Stat - The calculated t-statistic for the mean concentration compared to the FRL. (See the Certification Report).
Prob. - The probability (based on the t-Stat) that the true CU mean exceeds the FRL. Acceptable probability for primary COCs is 5% and 10% for seconday COCs.
Pass/Fail - Pass or Fail result from the t-Test based on "t-Stat" above. The associated probability is "Prob." above.
2 x (P/F) - Pass or Fail of the "No exceedances of twice the FRL" criteria.

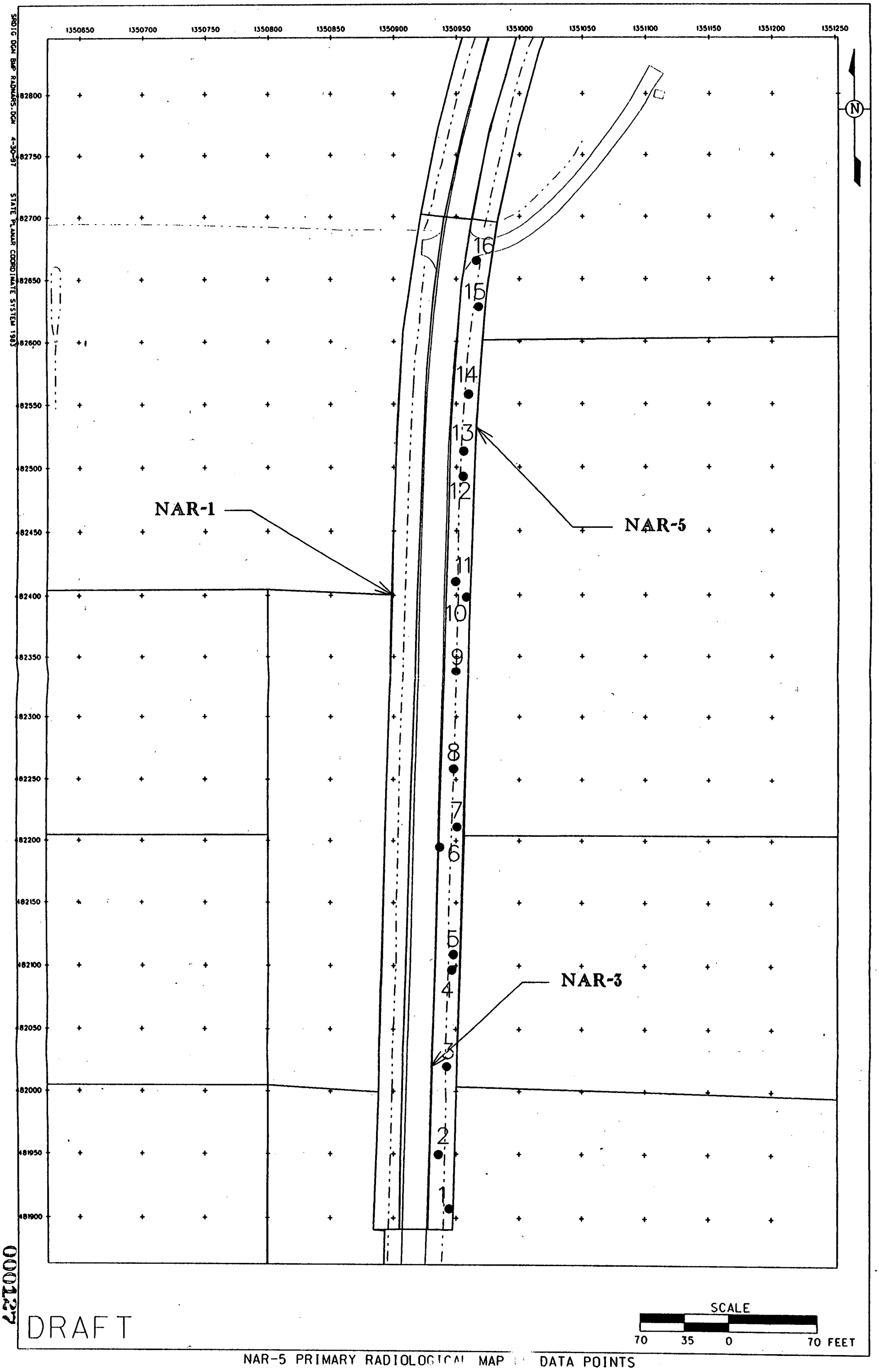
Certification Unit: NAR-4 Fill 01:43 PM 26-May-98

		PRIMARY ASCOCs				
Map	Sample ID	Radium-226	Radium-228	Thorium-228	Thorium-232	Uranium, Total
8	NAR-4-8C2-R	1.22 J	0.88 -	0.88 -	0.83 -	3.00 U
9	NAR-4-9C2-R	1.49 J	1.33 -	1.39 J	1.35 -	1.12 -
10	NAR-4-10C2-R	1.31 J	0.97 -	0.85 -	0.84 -	3.30 U
11	NAR-4-11C2-R	1.21 J	1.02 -	1.40 J	1.00 J	1.44 -
12	NAR-4-12C2-R	1.00 J	1.01 -	1.20 -	0.92 -	0.95 U
12	NAR-4-12C3-R	1.10 -	0.97 -	0.92 J	1.07 J	2.74 U
13	NAR-4-13C2-R	1.32 J	1.00 -	1.26 -	1.20 -	3.60 U
13	NAR-4-13C3-R	0.92 -	1.04 -	0.85 J	0.89 J	3.18 U
14	NAR-4-14C2-R	0.91 J	0.84 -	0.93 J	0.69 J	1.26 J
14	NAR-4-14C3-R	1.25 J	1.06 -	1.25 -	1.16 -	2.92 U
14	NAR-4-14C3-R-D	0.81 J	0.74 -	1.13 -	0.94 -	0.98 J
14	NAR-4-14C4-R	1.15 -	1.11 -	1.22 J	1.03 J	1.53 U
14	NAR-4-14C5-R	0.95 -	0.80 -	1.16 -	0.95 -	4.07 U
14	NAR-4-14C6-R	1.45 -	1.36 -	1.28 -	1.11 -	3.23 U
14	NAR-4-14C7-R	1.26 -	1.34 -	1.32 J	1.21 J	1.98 -
14	NAR-4-14C8-R	1.29 -	1.18 -	1.41 -	1.19 -	3.81 J
15	NAR-4-15C10-R	1.08 -	1.10 -	1.20 -	1.06 -	2.88 -
15	NAR-4-15C11-R	1.40 -	1.13 -	1.66 -	1.19 -	3.43 U
15	NAR-4-15C2-R	1.09 J	0.96 -	0.98 J	0.86 J	2.10 -
15	NAR-4-15C3-R	1.46 -	1.29 -	1.30 -	1.18 -	2.92 U
15	NAR-4-15C4-R	1.16 -	0.92 -	1.21 J	1.00 J	1.16 U
15	NAR-4-15C5-R	0.97 -	0.66 -	1.16 J	0.76 J	3.91 -
15	NAR-4-15C6-R	1.03 -	0.94 -	1.28 -	1.03 -	2.21 U
15	NAR-4-15C7-R	1.02 -	1.02 -	1.21 -	1.01 -	1.65 -
15	NAR-4-15C8-R	0.88 -	0.81 -	0.97 J	0.84 J	3.06 U
15	NAR-4-15C9-R	1.03 -	1.06 -	1.20 -	0.97 -	2.18 U
16	NAR-4-16C10-R	1.18 -	1.05 -	0.71 J	0.88 J	3.39 U
16	NAR-4-16C11-R	1.12 -	0.97 -	1.07 J	0.99 J	4.60 J
16	NAR-4-16C2-R	1.29 J	1.05 -	1.15 J	0.90 J	2.67 U
16	NAR-4-16C3-R	1.03 -	0.97 -	1.17 J	0.93 J	1.72 U
16	NAR-4-16C4-R	1.40 -	1.04 -	0.92 J	0.97 J	3.35 J
16	NAR-4-16C5-R	1.00 -	1.31 -	0.89 J	0.90 J	3.58 U
16	NAR-4-16C6-R	0.94 -	1.01 -	0.83 J	0.70 J	3.46 U
16	NAR-4-16C7-R	1.01 -	0.95 -	0.82 J	0.84 J	2.54 U
16	NAR-4-16C8-R	0.98 -	0.99 -	0.88 J	0.88 J	2.58 U
16	NAR-4-16C9-R	0.83 -	0.69 -	0.90 J	0.74 J	2.70 J

Method	Gamma	Gamma	Alpha	Alpha	Gamma
FRL	1.70	1.80	1.70	1.50	82.0
Units	pCi/g	pCi/g	pCi/g	pCi/g	ug/g
Background UCL	1.22	1.10	1.12	1.08	3.30
Background 95%	1.42	1.25	1.43	1.36	3.73
Samples	35	35	35	35	35
Hits	35	35	35	35	13
Max	1.49	1.36	1.66	1.35	4.60
Mean	1.13	1.02	1.11	0.97	1.78
St.Dev.	0.18	0.17	0.22	0.16	0.93
UCL	1.18	1.07	1.17	1.01	2.05
t-Stat	18.77	27.50	16.22	20.19	508.26
Prob.	0.0%	0.0%	0.0%	0.0%	0.0%
Pass/Fail	Pass	Pass	Pass	Pass	Pass
2 x (P/F)	Pass	Pass	Pass	Pass	Pass

NOTE: One half of the reported detection level was used in the calculations for results reported as below the detection limit (qualified with "U"). Duplicates were averaged before calculations were performed.

KEY
FRL - Final Remedial Level
Background UCL - Upper Confidence Level (95% one-sided) on the Mean Background concentration.
Background 95% - 95th Percentile of the background dataset.
Samples - Number of distinct sample locations in the analysis (see NOTE above).
Hits - Analyte positively detected in the sample.
Max - The maximum sample result.
Mean - The mean or average concentration. (See NOTE above).
St.Dev. - The standard deviation of the sample concentrations. (See NOTE above).
UCL - Upper Confidence Level (95% one-sided) on the Mean concentration.
t-Stat - The calculated t-statistic for the mean concentration compared to the FRL. (See the Certification Report).
Prob. - The probability (based on the t-Stat) that the true CU mean exceeds the FRL. Acceptable probability for primary COCs is 5% and 10% for seconday COCs.
Pass/Fail - Pass or Fail result from the t-Test based on "t-Stat" above. The associated probability is "Prob." above.
2 x (P/F) - Pass or Fail of the "No exceedances of twice the FRL" criteria.



NAR-5 PRIMARY RADIOLOGICAL MAP DATA POINTS

000427

1480

Certification Unit: NAR-5 01:50 PM 26-May-98

Map	Sample ID	PRIMARY ASCOCs Radium-226	Radium-228	Thorium-228	Thorium-232	Uranium, Total
1	NAR-5-1C-R	0.85 -	0.88 -	0.79 -	0.67 -	4.32 J
1	NAR-5-1C-R-D	0.80 -	0.90 -	0.78 -	0.75 -	4.03 J
2	NAR-5-2C-R	1.47 -	1.20 -	1.09 -	0.99 -	3.87 J
3	NAR-5-3C-R	0.95 -	0.81 -	0.85 J	0.79 J	2.90 J
4	NAR-5-4C-R	0.86 -	0.88 -	0.87 -	0.89 -	2.71 U
5	NAR-5-5C-R	1.21 -	1.05 -	1.24 -	1.09 -	5.35 J
6	NAR-5-6C-R	1.40 -	1.25 -	1.20 -	1.09 -	16.65 J
7	NAR-5-7C-R	1.33 -	1.34 -	1.28 -	0.94 -	7.19 J
8	NAR-5-8C-R	1.48 -	1.28 -	1.20 -	1.07 -	11.53 J
9	NAR-5-9C-R	1.17 -	1.19 -	1.30 J	0.97 J	2.72 -
10	NAR-5-10C-R	1.63 -	1.53 -	1.25 J	1.04 J	6.01 -
11	NAR-5-11C-R	1.52 -	1.36 -	1.40 J	1.17 J	1.45 U
12	NAR-5-12C-R	1.72 -	1.32 -	1.39 J	1.14 J	3.33 J
13	NAR-5-13C-R	1.61 -	1.49 -	1.56 J	1.31 J	2.33 -
14	NAR-5-14C-R	1.44 -	1.40 -	1.40 -	1.28 -	3.08 -
15	NAR-5-15C-R	1.43 -	1.40 -	1.28 -	1.20 -	6.35 J
16	NAR-5-16C-R	1.34 -	1.33 -	1.45 -	1.25 -	6.92 J

Method	Gamma	Gamma	Alpha	Alpha	Gamma
FRL	**1.70**	**1.80**	**1.70**	**1.50**	**82.00**
Units	pCi/g	pCi/g	pCi/g	pCi/g	ug/g
Background UCL	1.22	1.10	1.12	1.08	3.30
Background 95%	1.42	1.25	1.43	1.36	3.73
Samples	16	16	16	16	16
Hits	16	16	16	16	14
Max	**1.72**	**1.53**	**1.56**	**1.31**	**16.65**
Mean	1.34	1.23	1.22	1.06	5.28
St.Dev.	0.27	0.22	0.22	0.17	4.04
UCL	**1.45**	**1.33**	**1.32**	**1.13**	**7.05**
t-Stat	5.42	10.39	8.63	10.33	75.89
Prob.	0.0%	0.0%	0.0%	0.0%	0.0%
Pass/Fail	**Pass**	**Pass**	**Pass**	**Pass**	**Pass**
2 x (P/F)	**Pass**	**Pass**	**Pass**	**Pass**	**Pass**

NOTE: One half of the reported detection level was used in the calculations for results reported as below the detection limit (qualified with "U"). Duplicates were averaged before calculations were performed.

KEY

FRL - Final Remedial Level
Background UCL - Upper Confidence Level (95% one-sided) on the Mean Background concentration.
Background 95% - 95th Percentile of the background dataset.
Samples - Number of distinct sample locations in the analysis (see NOTE above).
Hits - Analyte positively detected in the sample.
Max - The maximum sample result.
Mean - The mean or average concentration. (See NOTE above).
St.Dev. - The standard deviation of the sample concentrations. (See NOTE above).
UCL - Upper Confidence Level (95% one-sided) on the Mean concentration.
t-Stat - The calculated t-statistic for the mean concentration compared to the FRL. (See the Certification Report).
Prob. - The probability (based on the t-Stat) that the true CU mean exceeds the FRL. Acceptable probability for primary COCs is 5% and 10% for seconday COCs.
Pass/Fail - Pass or Fail result from the t-Test based on "t-Stat" above. The associated probability is "Prob." above.
2 x (P/F) - Pass or Fail of the "No exceedances of twice the FRL" criteria.

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1350900 1351000 1351100 1351200 1351300 1351400 1351500 1351600 1351700 1351800 1351900 1352000 1352100 1352200

484700 484600 484500 484400 484300 484200 484100 484000 483900 483800 483700 483600 483500 483400 483300 483200 483100 483000 482900 482800 482700

STATE PLANAR COORDINATE SYSTEM 1983

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NAR-1

NAR-2

NAR-6

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NAR-6 PRIMARY RADIOLOICAL MAP OF DATA POINTS

MAY-1997

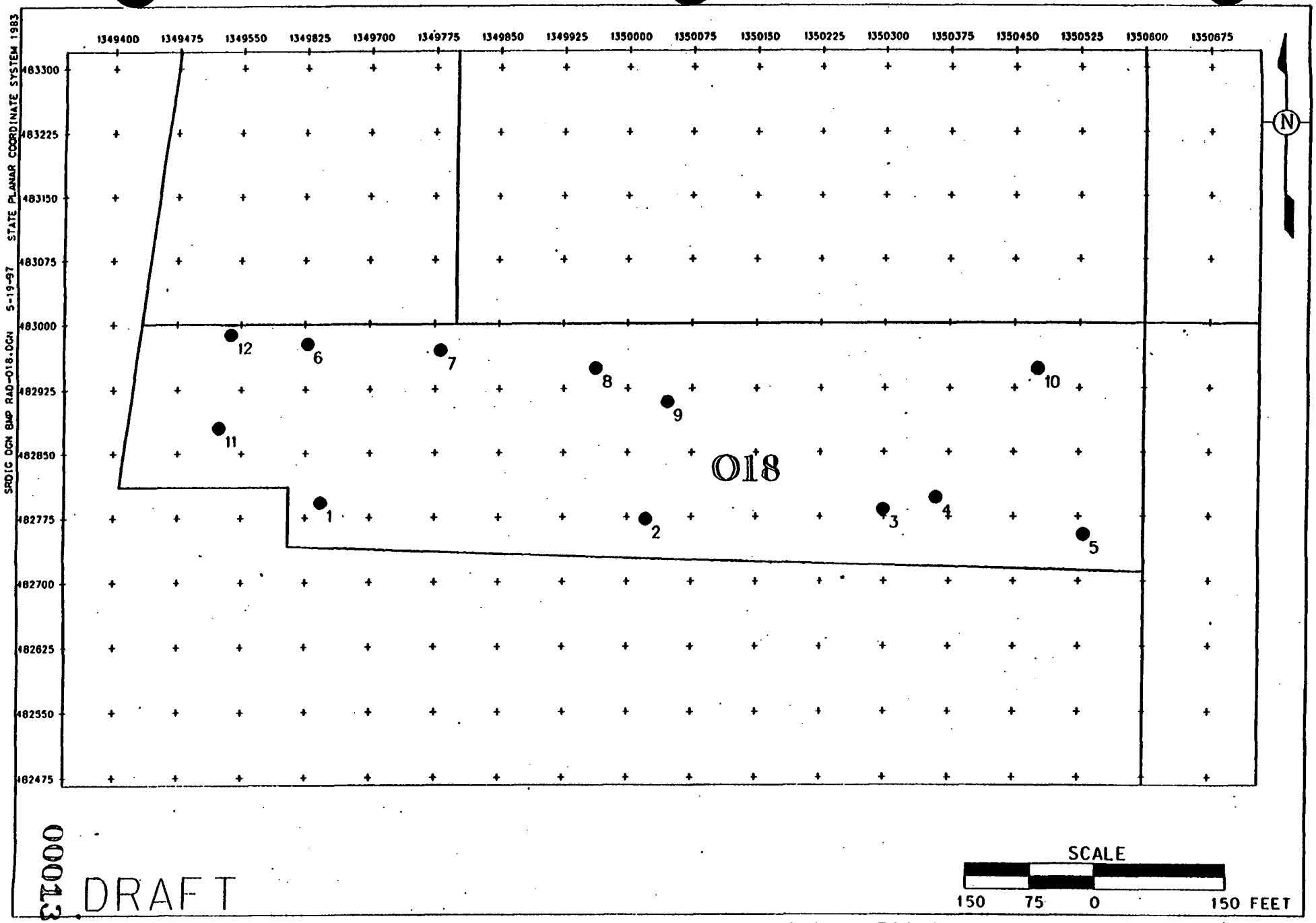
Certification Unit: NAR-6 01:54 PM 26-May-98

		PRIMARY ASCOCs				
Map	Sample ID	Radium-226	Radium-228	Thorium-228	Thorium-232	Uranium, Total
1	NAR-6-1C-R	1.51 J	1.36 J	1.56 -	1.23 -	7.26 J
2	NAR-6-2C-R	0.89 -	1.02 -	0.74 -	0.88 -	3.81 J
3	NAR-6-3C-R	0.79 -	0.72 -	0.82 -	0.70 -	3.09 J
4	NAR-6-4C-R	0.86 -	0.89 -	0.63 J	0.68 J	5.14 J
5	NAR-6-5C-R	0.74 -	0.81 -	0.85 -	0.66 -	4.11 J
6	NAR-6-6C-R	0.72 -	0.86 -	0.64 -	0.87 -	2.94 J
7	NAR-6-7C-R	0.87 -	0.89 -	0.85 -	0.95 -	3.22 U
8	NAR-6-8C-R	0.79 -	0.83 -	0.85 -	0.79 -	5.78 J
9	NAR-6-9C-R	0.99 -	0.94 -	0.93 -	0.74 -	2.72 U
10	NAR-6-10C-R	1.22 -	1.19 -	1.38 J	1.10 J	5.02 -
11	NAR-6-11C-R	1.31 -	1.25 -	1.15 -	1.02 -	3.71 U
12	NAR-6-12C-R	1.17 -	1.32 -	1.14 -	0.94 -	4.68 J
13	NAR-6-13C-R	1.19 -	1.20 -	1.37 -	1.16 -	3.47 J
14	NAR-6-14C-R	0.80 -	0.90 -	0.67 -	0.84 -	3.45 U
15	NAR-6-15C-R	1.36 J	1.25 -	1.06 J	0.85 J	8.15 J
16	NAR-6-16C-R	1.01 -	0.96 -	0.96 J	0.88 J	5.25 J
16	NAR-6-16C-R-D	1.06 -	0.98 -	1.05 J	1.01 J	3.60 J
	Method	**Gamma**	**Gamma**	**Alpha**	**Alpha**	**Gamma**
	FRL	**1.70**	**1.80**	**1.70**	**1.50**	**82.00**
	Units	pCi/g	pCi/g	pCi/g	pCi/g	ug/g
	Background UCL	1.22	1.10	1.12	1.08	3.30
	Background 95%	1.42	1.25	1.43	1.36	3.73
	Samples	16	16	16	16	16
	Hits	16	16	16	16	12
	Max	**1.51**	**1.36**	**1.56**	**1.23**	**8.15**
	Mean	1.01	1.02	0.98	0.90	4.03
	St.Dev.	0.25	0.20	0.28	0.17	1.98
	UCL	**1.12**	**1.11**	**1.10**	**0.97**	**4.89**
	t-Stat	11.06	15.20	10.33	14.33	157.63
	Prob.	0.0%	0.0%	0.0%	0.0%	0.0%
	Pass/Fail	**Pass**	**Pass**	**Pass**	**Pass**	**Pass**
	2 x (P/F)	**Pass**	**Pass**	**Pass**	**Pass**	**Pass**

NOTE: One half of the reported detection level was used in the calculations for results reported as below the detection limit (qualified with "U"). Duplicates were averaged before calculations were performed.

KEY

FRL - Final Remedial Level
Background UCL - Upper Confidence Level (95% one-sided) on the Mean Background concentration.
Background 95% - 95th Percentile of the background dataset.
Samples - Number of distinct sample locations in the analysis (see NOTE above).
Hits - Analyte positively detected in the sample.
Max - The maximum sample result.
Mean - The mean or average concentration. (See NOTE above).
St.Dev. - The standard deviation of the sample concentrations. (See NOTE above).
UCL - Upper Confidence Level (95% one-sided) on the Mean concentration.
t-Stat - The calculated t-statistic for the mean concentration compared to the FRL. (See the Certification Report).
Prob. - The probability (based on the t-Stat) that the true CU mean exceeds the FRL. Acceptable probability for primary COCs is 5% and 10% for seconday COCs.
Pass/Fail - Pass or Fail result from the t-Test based on "t-Stat" above. The associated probability is "Prob." above.
2 x (P/F) - Pass or Fail of the "No exceedances of twice the FRL" criteria.



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018 PRIMARY RADIOLOGICAL MAP OF DATA POINTS

0001131

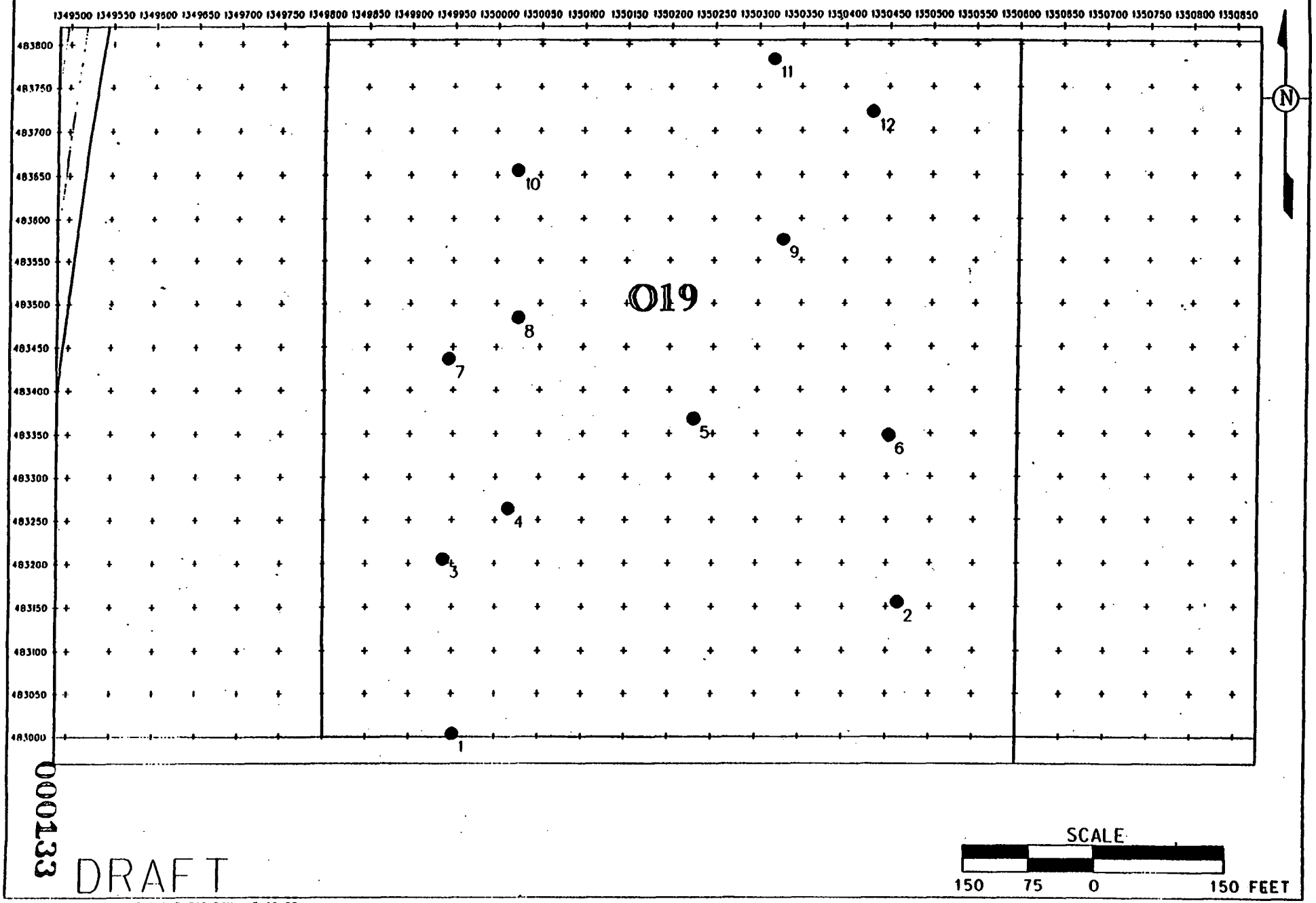
Certification Unit: O18 04:52 PM 06-May-98

Map	Sample ID	PRIMARY COC: Radium-226	Radium-228	Thorium-228	Thorium-232	Uranium-238
1	O18-00C-1-R	1.00 -	1.30 -	1.09 -	1.09 -	29.99 -
2	O18-00C-3-R	1.20 -	1.30 -	1.38 -	1.14 -	25.79 -
3	O18-00C-5-R	1.10 -	1.10 -	1.05 -	1.00 -	24.89 -
4	O18-00C-6-R	1.10 -	1.10 -	1.22 -	1.21 -	20.99 -
5	O18-00C-7-R	1.20 -	1.20 -	1.47 -	1.43 -	41.98 -
5	O18-00C-7-R-D	1.10 -	1.10 -	1.22 -	1.25 -	38.98 -
6	O18-00C-8-R	1.00 -	1.30 -	1.36 -	1.18 -	35.98 -
7	O18-00C-9-R	1.10 -	1.10 -	1.08 -	1.18 -	35.98 -
8	O18-00C-10-R	1.10 -	1.30 -	1.27 -	1.34 -	32.98 -
9	O18-00C-11-R	1.10 -	1.50 -	1.44 -	1.20 -	32.98 -
10	O18-00C-14-R	1.00 -	1.20 -	0.94 -	1.10 -	27.59 -
11	O18-00C-15-R	1.10 -	1.20 -	1.00 -	1.03 -	26.69 -
12	O18-00C-16-R	1.10 -	1.30 -	0.99 J	0.96 J	24.89 -
	Method	**Gamma**	**Gamma**	**Alpha**	**Alpha**	**Gamma**
	FRL	**1.70**	**1.80**	**1.70**	**1.50**	**82.00**
	Units	pCi/g	pCi/g	pCi/g	pCi/g	ug/g
	Background UCL	1.22	1.10	1.12	1.08	3.30
	Background 95%	1.42	1.25	1.43	1.36	3.73
	Samples	12	12	12	12	12
	Hits	12	12	12	12	12
	Max	**1.20**	**1.50**	**1.44**	**1.34**	**40.48**
	Mean	1.09	1.24	1.18	1.15	29.94
	St.Dev.	0.06	0.12	0.17	0.12	5.78
	UCL	**1.12**	**1.30**	**1.27**	**1.21**	**32.93**
	t-Stat	34.91	16.38	10.28	10.09	31.22
	Prob.	0.0%	0.0%	0.0%	0.0%	0.0%
	Pass/Fail	**Pass**	**Pass**	**Pass**	**Pass**	**Pass**
	2 x (P/F)	**Pass**	**Pass**	**Pass**	**Pass**	**Pass**

NOTE: One half of the reported detection level was used in the calculations for results reported as below the detection limit (qualified with "U"). Duplicates were averaged before calculations were performed.

KEY

FRL - Final Remedial Level
Background UCL - Upper Confidence Level (95% one-sided) on the Mean Background concentration.
Background 95% - 95th Percentile of the background dataset.
Samples - Number of distinct sample locations in the analysis (see NOTE above).
Hits - Analyte positively detected in the sample.
Max - The maximum sample result.
Mean - The mean or average concentration. (See NOTE above).
St.Dev. - The standard deviation of the sample concentrations. (See NOTE above).
UCL - Upper Confidence Level (95% one-sided) on the Mean concentration.
t-Stat - The calculated t-statistic for the mean concentration compared to the FRL. (See the Certification Report).
Prob. - The probability (based on the t-Stat) that the true CU mean exceeds the FRL. Acceptable probability for primary COCs is 5% and 10% for seconday COCs.
Pass/Fail - Pass or Fail result from the t-Test based on "t-Stat" above. The associated probability is "Prob." above.
2 x (P/F) - Pass or Fail of the "No exceedances of twice the FRL" criteria.



0001133

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SRDIG DGN BMP RAD-019.DGN 5-19-97
STATE PLANAR COORDINATE SYSTEM 1983

019 PRIMARY RADIOLOGICAL MAP OF DATA POINTS

1480

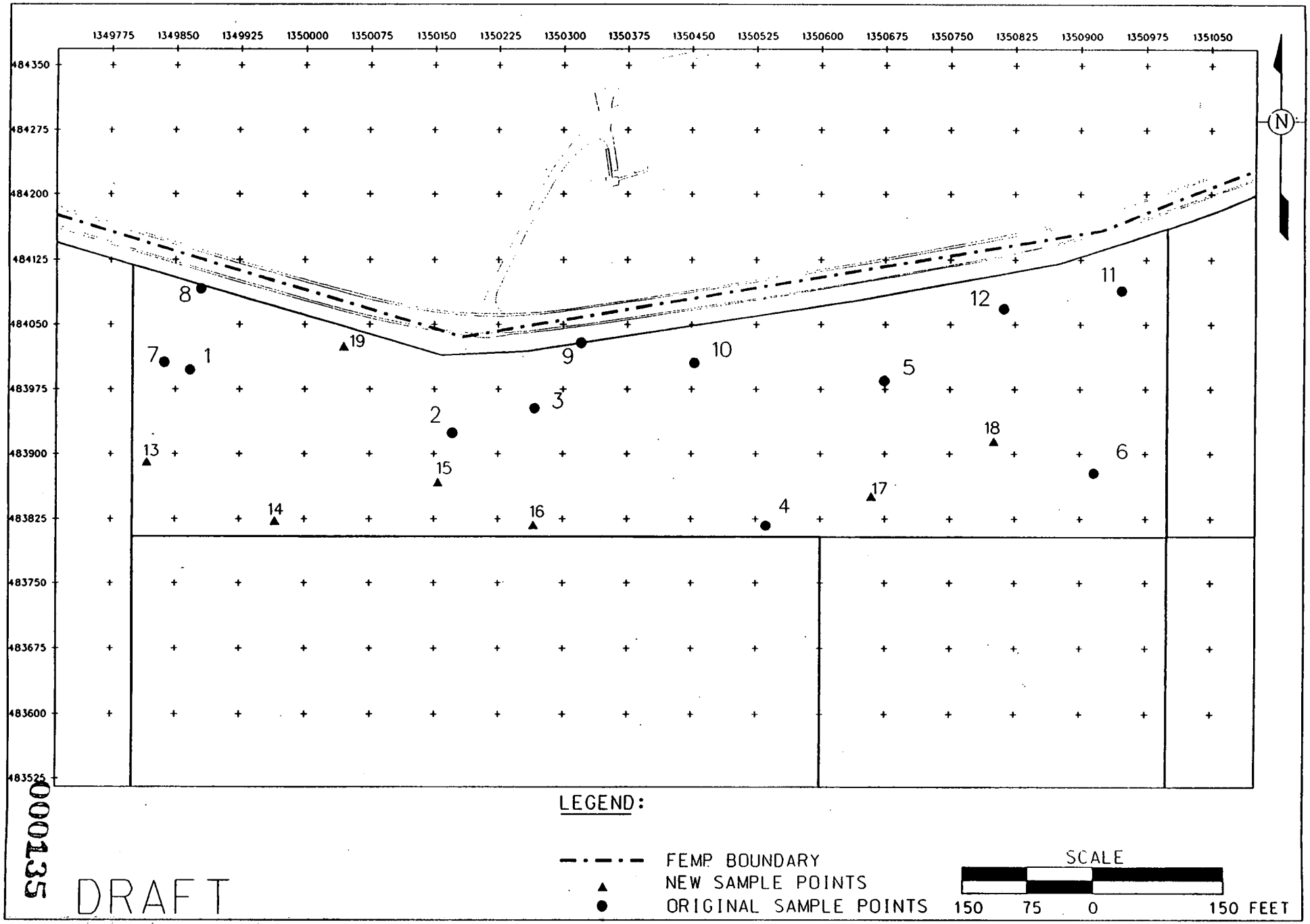
Certification Unit: O19 05:17 PM 06-May-98

		PRIMARY COCs				
Loc	Sample ID	Radium-226	Radium-228	Thorium-228	Thorium-232	Uranium (tot)
1	O19-00C-1-R	1.02 -	2.05 -	1.35 -	1.27 -	33.28 J
2	O19-00C-4-R	1.08 -	1.28 -	1.26 -	1.17 -	30.89 -
3	O19-00C-5-R	1.09 -	1.08 J	1.16 -	1.08 -	24.77 -
4	O19-00C-6-R	1.15 -	1.08 J	1.34 -	1.18 -	17.93 J
5	O19-00C-7-R	0.95 -	1.46 -	1.37 -	1.18 -	26.90 -
6	O19-00C-8-R	1.04 -	1.33 -	1.36 -	1.25 -	24.26 -
7	O19-00C-9-R	1.27 -	1.15 -	1.25 -	1.11 -	20.69 -
8	O19-00C-10-R	0.83 -	0.88 J	1.22 -	1.15 -	21.62 -
9	O19-00C-11-R	1.32 -	1.51 -	1.42 -	1.17 -	35.98 -
10	O19-00C-14-R	1.42 -	1.00 J	1.47 -	1.32 -	20.09 U
11	O19-00C-15-R	1.29 -	1.65 -	1.21 -	1.19 J	17.69 U
12	O19-00C-16-R	1.37 -	1.50 -	1.18 -	1.11 J	28.26 -
	Method	**Gamma**	**Gamma**	**Alpha**	**Alpha**	**Gamma**
	FRL	**1.70**	**1.80**	**1.70**	**1.50**	**82.00**
	Units	pCi/g	pCi/g	pCi/g	pCi/g	ug/g
	Background UCL	1.22	1.10	1.12	1.08	3.30
	Background 95%	1.42	1.25	1.43	1.36	3.73
	Samples	12	12	12	12	12
	Hits	12	12	12	12	10
	Max	**1.42**	**2.05**	**1.47**	**1.32**	**35.98**
	Mean	1.15	1.33	1.30	1.18	23.62
	St.Dev.	0.18	0.33	0.10	0.07	8.42
	UCL	**1.25**	**1.50**	**1.35**	**1.22**	**27.99**
	t-Stat	10.45	4.99	13.99	15.80	24.01
	Prob.	0.0%	0.0%	0.0%	0.0%	0.0%
	Pass/Fail	**Pass**	**Pass**	**Pass**	**Pass**	**Pass**
	2 x (P/F)	**Pass**	**Pass**	**Pass**	**Pass**	**Pass**

NOTE: One half of the reported detection level was used in the calculations for results reported as below the detection limit (qualified with "U"). Duplicates were averaged before calculations were performed.

KEY

FRL - Final Remedial Level
Background UCL - Upper Confidence Level (95% one-sided) on the Mean Background concentration.
Background 95% - 95th Percentile of the background dataset.
Samples - Number of distinct sample locations in the analysis (see NOTE above).
Hits - Analyte positively detected in the sample.
Max - The maximum sample result.
Mean - The mean or average concentration. (See NOTE above).
St.Dev. - The standard deviation of the sample concentrations. (See NOTE above).
UCL - Upper Confidence Level (95% one-sided) on the Mean concentration.
t-Stat - The calculated t-statistic for the mean concentration compared to the FRL. (See the Certification Report).
Prob. - The probability (based on the t-Stat) that the true CU mean exceeds the FRL. Acceptable probability for primary COCs is 5% and 10% for seconday COCs.
Pass/Fail - Pass or Fail result from the t-Test based on "t-Stat" above. The associated probability is "Prob." above.
2 x (P/F) - Pass or Fail of the "No exceedances of twice the FRL" criteria.



000135

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SRDIG DGN BMP RAD020-1.DGN 6-26-97
STATE PLANAR COORDINATE SYSTEM 1983

020 RADIUM-228 MAP OF DATA POINTS

1480

Certification Unit: O20 09:23 AM 27-May-98

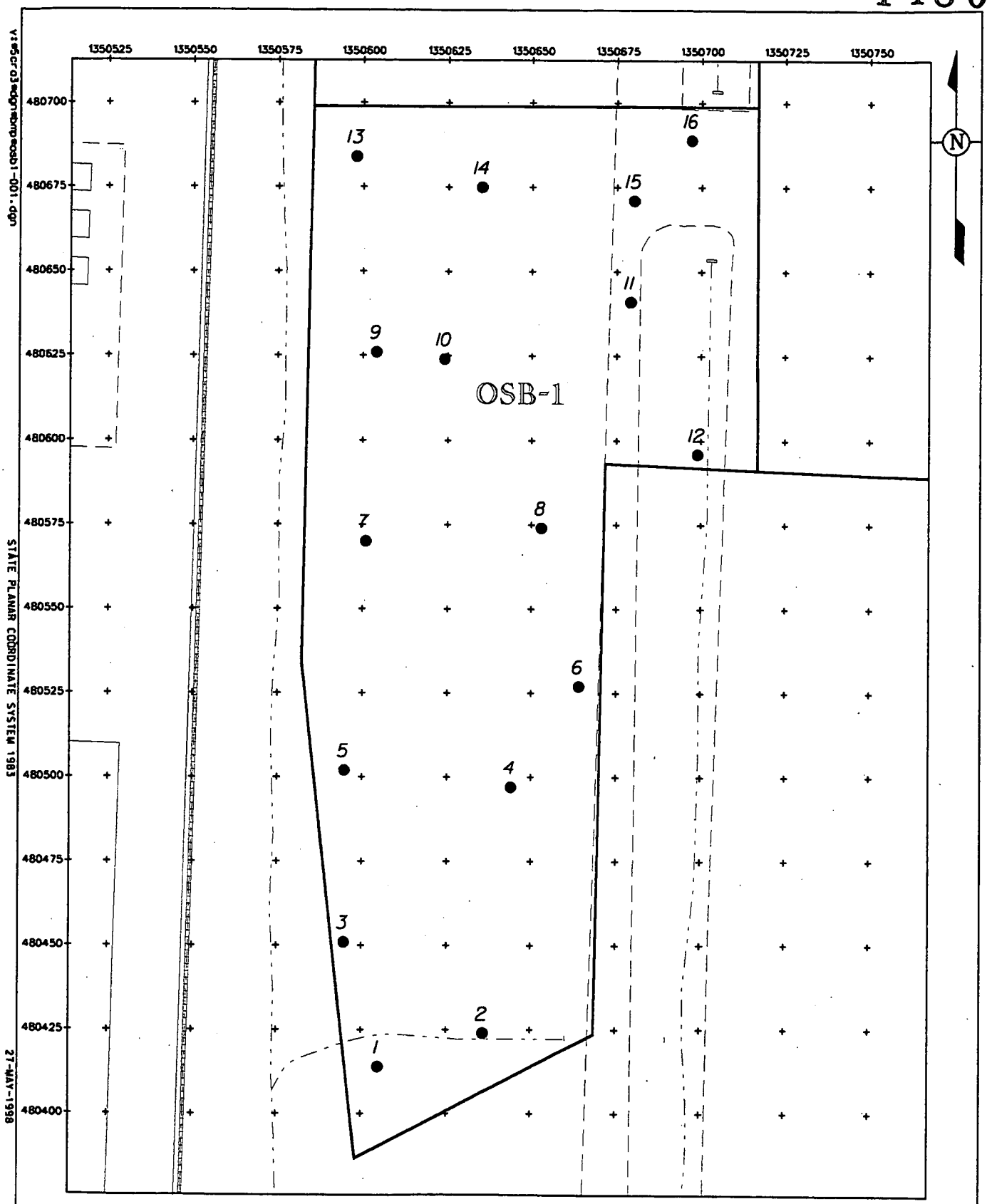
		PRIMARY ASCOCs									
Map	Sample ID	Radium-226		Radium-228		Thorium-228		Thorium-232		Uranium, Total	
1	O20-00C-1-R	0.99	0	1.27	-	0.8	-	0.98	-	21.98	-
2	O20-00C-2-R	1.09	J	2.46	J	1.66	J	1.61	J	52.77	J
3	O20-00C-3-R	0.89	J	1.6	J	1.45	J	1.39	J	47.38	J
4	O20-00C-4-R	1.33	-	1.51	-	1.45	-	1.33	-	13.79	U
5	O20-00C-5-R	1.05	J	1.99	J	1.34	J	1.34	J	32.38	J
6	O20-00C-6-R	1.28	-	1.89	-	1.37	-	1.32	-	29.60	-
6	O20-00C-6-R-D	1.39	-	1.85	-	1.47	-	1.22	-	28.25	-
7	O20-00C-7A-R	1.16	J	1.65	J	1.2	J	1.11	J	17.09	UJ
8	O20-00C-7B-R	1.38	J	1.24	J	1.08	J	1.04	J		
8	O20HS-1-R-13									12.81	J
9	O20-00C-9-R	0.59	J	0.84	J	1.16	J	1.22	J	12.29	UJ
10	O20-00C-10-R	0.76	J	1.95	J	1.47	J	1.45	J	38.38	J
11	O20-00C-12A-R	1.37	J	1.7	J	1.39	J	1.4	J	21.29	UJ
12	O20-00C-12B-R	0.84	J	1.7	J	1.45	J	1.15	J	22.79	UJ
13	O20-00C-13-R			1.61	J						
14	O20-00C-14-R			1.15	J						
15	O20-00C-15-R			1.51	J						
16	O20-00C-16-R			1.49	J						
17	O20-00C-17-R			1.49	J						
18	O20-00C-18-R			1.4	J						
19	O20-00C-19-R			1.35	J						

Method	Gamma	Gamma	Alpha	Alpha	Gamma
FRL	**1.70**	**1.80**	**1.70**	**1.50**	**82.0**
Units	pCi/g	pCi/g	pCi/g	pCi/g	ug/g
Background UCL	1.22	1.10	1.12	1.08	3.30
Background 95%	1.42	1.25	1.43	1.36	3.73
Samples	12	19	12	12	12
Hits	12	19	12	12	7
Max	**1.38**	**2.46**	**1.66**	**1.61**	**52.77**
Mean	1.07	1.57	1.32	1.27	23.19
St.Dev.	0.26	0.35	0.23	0.18	16.47
UCL	**1.20**	**1.71**	**1.44**	**1.37**	**31.73**
t-Stat	8.42	2.87	5.72	4.29	12.37
Prob.	0.0%	0.5%	0.0%	0.1%	0.0%
Pass/Fail	**Pass**	**Pass**	**Pass**	**Pass**	**Pass**
2 x (P/F)	**Pass**	**Pass**	**Pass**	**Pass**	**Pass**

NOTE: One half of the reported detection level was used in the calculations for results reported as below the detection limit (qualified with "U"). Duplicates were averaged before calculations were performed.

KEY

FRL - Final Remedial Level
Background UCL - Upper Confidence Level (95% one-sided) on the Mean Background concentration.
Background 95% - 95th Percentile of the background dataset.
Samples - Number of distinct sample locations in the analysis (see NOTE above).
Hits - Analyte positively detected in the sample.
Max - The maximum sample result.
Mean - The mean or average concentration. (See NOTE above).
St.Dev. - The standard deviation of the sample concentrations. (See NOTE above).
UCL - Upper Confidence Level (95% one-sided) on the Mean concentration.
t-Stat - The calculated t-statistic for the mean concentration compared to the FRL. (See the Certification Report).
Prob. - The probability (based on the t-Stat) that the true CU mean exceeds the FRL. Acceptable probability for primary COCs is 5% and 10% for seconday COCs.
Pass/Fail - Pass or Fail result from the t-Test based on "t-Stat" above. The associated probability is "Prob." above.
2 x (P/F) - Pass or Fail of the "No exceedances of twice the FRL" criteria.



OSB-1 PRIMARY RADIOLOGICAL SAMPLE LOCATIONS

Certification Unit: OSB-1 09:19 AM 27-May-98

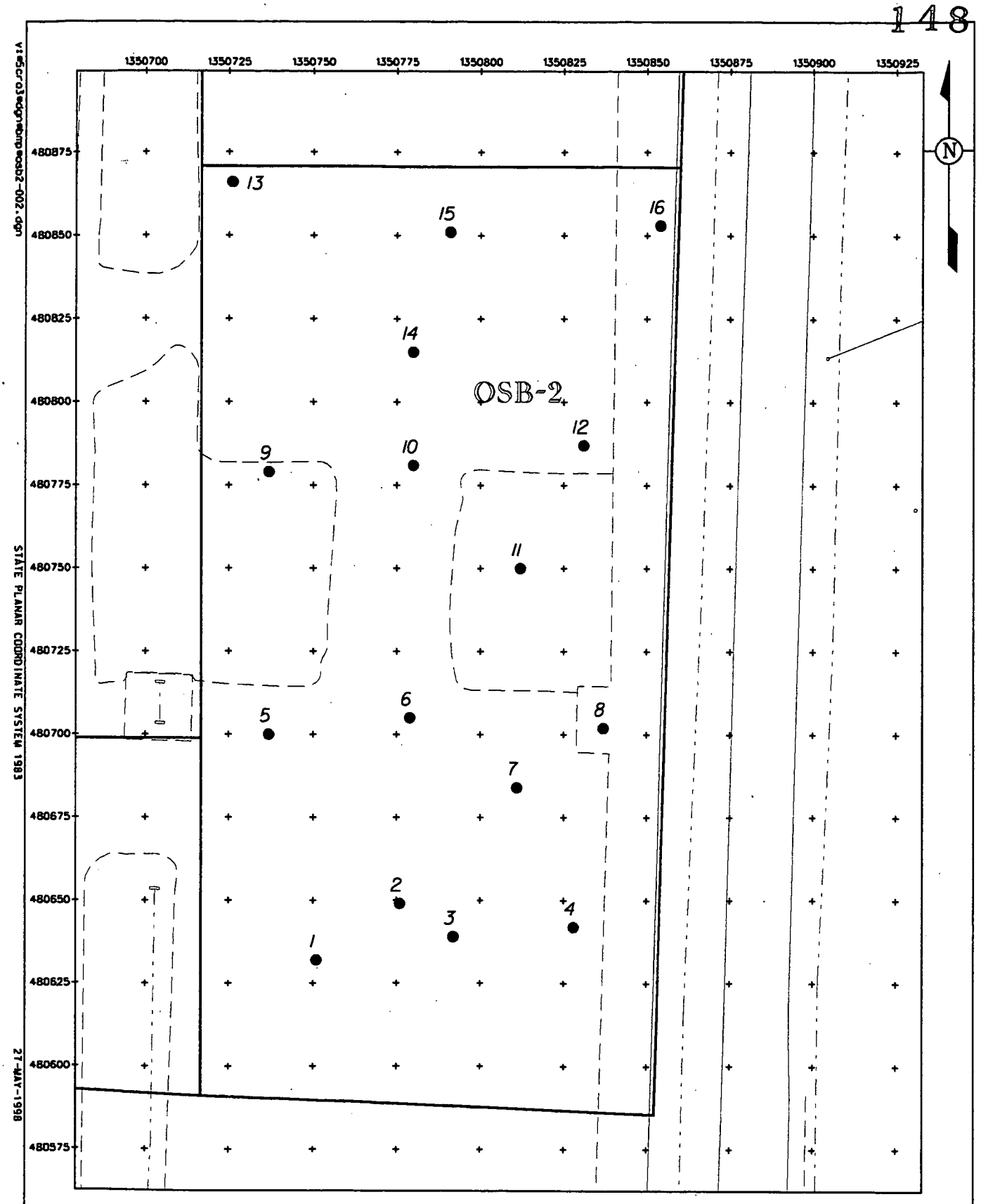
Map	Sample ID	PRIMARY ASCOCs									
		Radium-226		Radium-228		Thorium-228		Thorium-232		Uranium, Total	
1	OSB-1C-1-R	0.90	J	0.54	-	0.75	J	0.67	J	2.93	-
2	OSB-1C-2-R	1.36	J	1.28	-	1.84	J	1.48	J	5.63	J
3	OSB-1C-3-R	0.89	J	0.57	-	0.87	J	0.63	J	2.42	U
4	OSB-1C-4-R	1.31	J	1.40	-	1.27	J	1.13	J	7.70	J
5	OSB-1C-5-R	1.02	J	0.84	-	0.96	J	0.75	J	3.11	U
5	OSB-1C-5-R-D	0.92	-	0.81	-	0.96	J	0.76	J	1.35	J
6	OSB-1C-6-R	1.19	-	1.28	-	1.46	J	1.25	J	5.21	-
7	OSB-1C-7-R	1.00	J	0.68	-	0.92	J	0.84	J	2.96	J
8	OSB-1C-8-R	1.30	-	1.30	-	1.29	J	1.25	J	5.72	-
9	OSB-1C-9-R	0.76	-	0.49	-	0.60	J	0.38	J	5.93	-
10	OSB-1C-10-R	0.84	-	0.79	-	1.03	J	0.82	J	2.00	-
11	OSB-1C-11-R	1.80	J	1.63	-	1.53	J	1.48	J	3.52	U
12	OSB-1C-12-R	1.20	-	1.04	-	1.14	J	1.08	J	1.91	-
13	OSB-1C-13-R	1.00	J	0.81	-	0.83	J	0.81	J	2.65	U
14	OSB-1C-14-R	0.94	-	0.78	-	1.15	J	1.12	J	3.84	-
15	OSB-1C-15-R	1.52	-	1.51	-	1.58	J	1.57	J	2.02	J
16	OSB-1C-16-R	1.34	-	1.23	-	1.61	J	1.47	J	3.17	J

Method	Gamma	Gamma	Alpha	Alpha	Gamma
FRL	**1.70**	**1.80**	**1.70**	**1.50**	**82.00**
Units	pCi/g	pCi/g	pCi/g	pCi/g	ug/g
Background UCL	1.22	1.10	1.12	1.08	3.30
Background 95%	1.42	1.25	1.43	1.36	3.73
Samples	16	16	16	16	16
Hits	16	16	16	16	13
Max	**1.80**	**1.63**	**1.84**	**1.57**	**7.70**
Mean	1.14	1.01	1.18	1.05	3.42
St.Dev.	0.28	0.37	0.35	0.36	2.01
UCL	**1.27**	**1.17**	**1.33**	**1.20**	**4.31**
t-Stat	7.89	8.56	5.91	5.08	156.05
Prob.	0.0%	0.0%	0.0%	0.0%	0.0%
Pass/Fail	**Pass**	**Pass**	**Pass**	**Pass**	**Pass**
2 x (P/F)	**Pass**	**Pass**	**Pass**	**Pass**	**Pass**

NOTE: One half of the reported detection level was used in the calculations for results reported as below the detection limit (qualified with "U"). Duplicates were averaged before calculations were performed.

KEY

FRL - Final Remedial Level
Background UCL - Upper Confidence Level (95% one-sided) on the Mean Background concentration.
Background 95% - 95th Percentile of the background dataset.
Samples - Number of distinct sample locations in the analysis (see NOTE above).
Hits - Analyte positively detected in the sample.
Max - The maximum sample result.
Mean - The mean or average concentration. (See NOTE above).
St.Dev. - The standard deviation of the sample concentrations. (See NOTE above).
UCL - Upper Confidence Level (95% one-sided) on the Mean concentration.
t-Stat - The calculated t-statistic for the mean concentration compared to the FRL. (See the Certification Report).
Prob. - The probability (based on the t-Stat) that the true CU mean exceeds the FRL. Acceptable probability for primary COCs is 5% and 10% for seconday COCs.
Pass/Fail - Pass or Fail result from the t-Test based on "t-Stat" above. The associated probability is "Prob." above.
2 x (P/F) - Pass or Fail of the "No exceedances of twice the FRL" criteria.



LEGEND:

● SAMPLE LOCATION

SCALE

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OSB-2 PRIMARY RADIOLOGICAL SAMPLE LOCATIONS

Certification Unit: OSB-2 02:35 PM 26-May-98

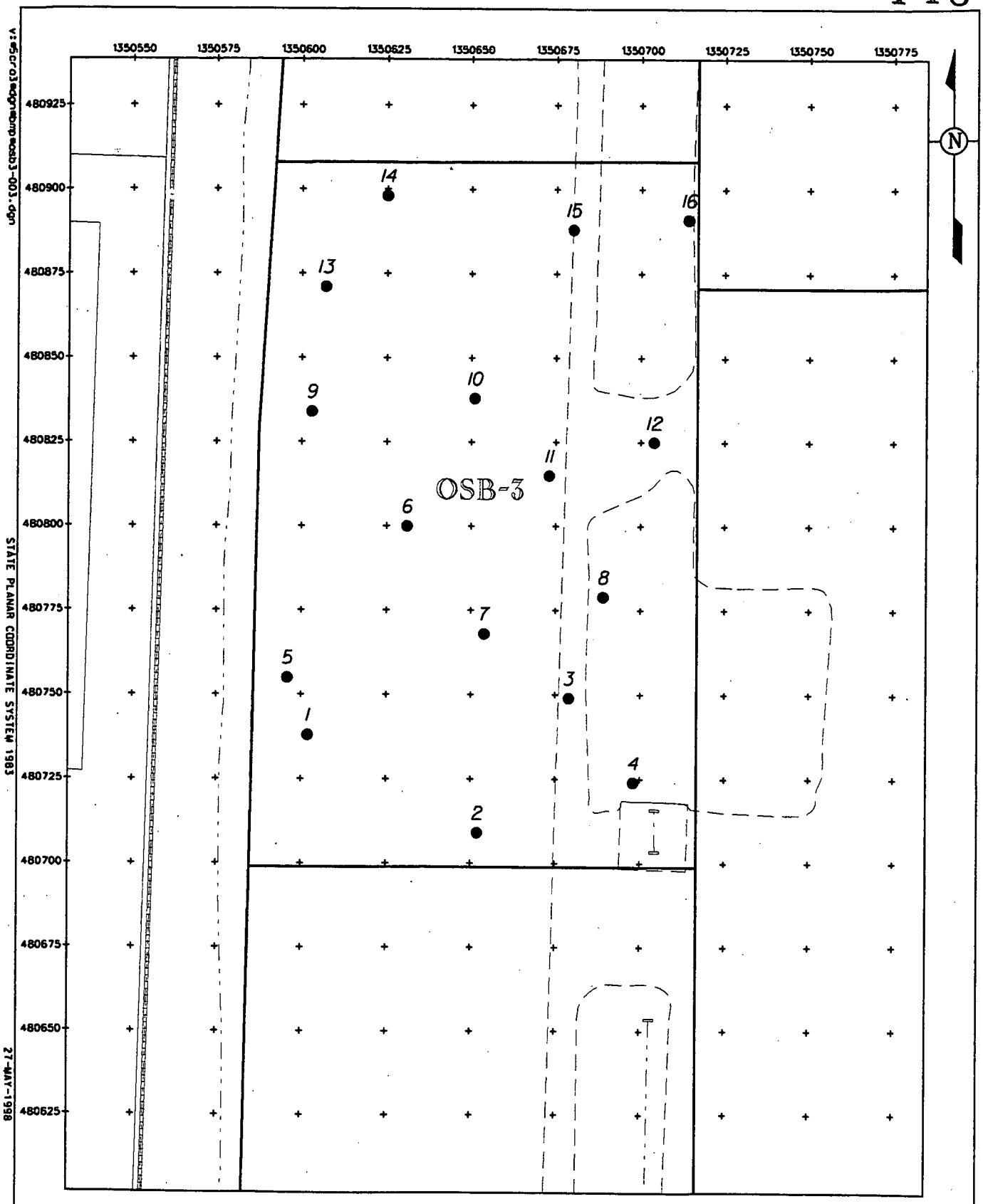
Map	Sample ID	PRIMARY ASCOCs									
		Radium-226		Radium-228		Thorium-228		Thorium-232		Uranium, Total	
1	OSB-2C-1-R	1.52	-	1.33	-	1.28	-	1.14	-	5.42	J
2	OSB-2C-2-R	1.34	-	1.34	-	1.21	-	1.07	-	5.31	J
3	OSB-2C-3-R	1.31	-	1.32	-	1.25	-	1.13	-	5.86	J
4	OSB-2C-4-R	1.49	-	1.59	-	1.22	-	1.29	-	4.81	U
5	OSB-2C-5-R	1.41	J	1.30	J	1.47	-	1.28	-	3.87	J
6	OSB-2C-6-R	1.12	J	1.16	J	0.81	-	0.81	-	3.76	J
7	OSB-2C-7-R	1.21	J	1.25	J	1.30	-	1.01	-	4.04	J
8	OSB-2C-8-R	0.99	J	0.95	J	1.12	-	0.93	-	3.24	J
8	OSB-2C-8-R-D	0.98	J	0.89	J	1.05	-	0.92	-	3.82	J
9	OSB-2C-9-R	0.69	J	0.81	J	0.91	-	0.59	-	3.90	J
10	OSB-2C-10-R	1.06	J	0.99	J	1.23	-	0.87	-	4.36	J
11	OSB-2C-11-R	1.15	J	1.20	J	1.01	-	0.95	-	10.40	J
12	OSB-2C-12-R	1.02	-	0.85	-	0.96	-	0.84	-	6.48	J
13	OSB-2C-13-R	1.02	J	0.93	-	0.85	J	0.71	J	6.34	-
14	OSB-2C-14-R	0.91	J	0.98	J	0.94	-	0.70	-	12.93	J
15	OSB-2C-15-R	0.87	-	0.95	-	1.08	-	0.77	-	5.65	J
16	OSB-2C-16-R	1.41	-	1.49	-	1.53	-	1.08	-	14.94	-

Method	Gamma	Gamma	Alpha	Alpha	Gamma
FRL	**1.70**	**1.80**	**1.70**	**1.50**	**82.00**
Units	pCi/g	pCi/g	pCi/g	pCi/g	ug/g
Background UCL	1.22	1.10	1.12	1.08	3.30
Background 95%	1.42	1.25	1.43	1.36	3.73
Samples	16	16	16	16	16
Hits	16	16	16	16	15
Max	**1.52**	**1.59**	**1.53**	**1.29**	**14.94**
Mean	1.16	1.15	1.13	0.95	6.20
St.Dev.	0.24	0.24	0.21	0.21	3.54
UCL	**1.26**	**1.25**	**1.23**	**1.04**	**7.75**
t-Stat	9.00	10.93	10.67	10.60	85.76
Prob.	0.0%	0.0%	0.0%	0.0%	0.0%
Pass/Fail	**Pass**	**Pass**	**Pass**	**Pass**	**Pass**
2 x (P/F)	**Pass**	**Pass**	**Pass**	**Pass**	**Pass**

NOTE: One half of the reported detection level was used in the calculations for results reported as below the detection limit (qualified with "U"). Duplicates were averaged before calculations were performed.

KEY

FRL - Final Remedial Level
Background UCL - Upper Confidence Level (95% one-sided) on the Mean Background concentration.
Background 95% - 95th Percentile of the background dataset.
Samples - Number of distinct sample locations in the analysis (see NOTE above).
Hits - Analyte positively detected in the sample.
Max - The maximum sample result.
Mean - The mean or average concentration. (See NOTE above).
St.Dev. - The standard deviation of the sample concentrations. (See NOTE above).
UCL - Upper Confidence Level (95% one-sided) on the Mean concentration.
t-Stat - The calculated t-statistic for the mean concentration compared to the FRL. (See the Certification Report).
Prob. - The probability (based on the t-Stat) that the true CU mean exceeds the FRL. Acceptable probability for primary COCs is 5% and 10% for seconday COCs.
Pass/Fail - Pass or Fail result from the t-Test based on "t-Stat" above. The associated probability is "Prob." above.
2 x (P/F) - Pass or Fail of the "No exceedances of twice the FRL" criteria.



LEGEND:

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● SAMPLE LOCATION

SCALE

40 20 0 40 FEET

OSB-3 PRIMARY RADIOLOGICAL SAMPLE LOCATIONS

Certification Unit: OSB-3 02:42 PM 26-May-98

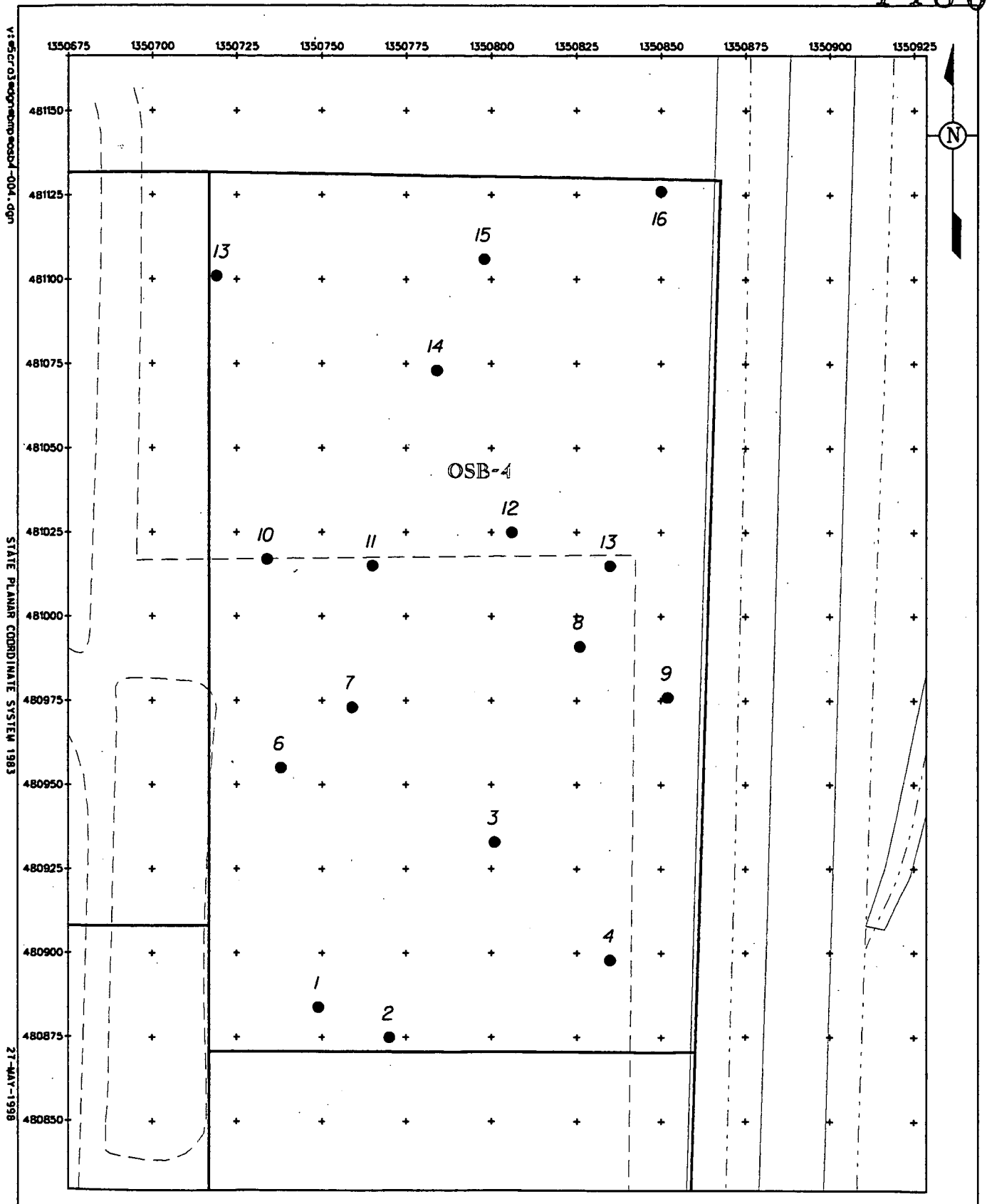
Map	Sample ID	PRIMARY ASCOCs									
		Radium-226		Radium-228		Thorium-228		Thorium-232		Uranium, Total	
1	OSB-3C-1-R	1.03	J	0.91	-	0.81	J	0.61	J	2.77	-
2	OSB-3C-2-R	0.97	J	0.89	-	1.27	J	0.95	J	2.83	U
3	OSB-3C-3-R	1.80	J	1.46	-	1.82	J	1.34	J	3.22	J
4	OSB-3C-4-R	1.52	J	1.42	-	1.44	J	1.19	J	2.52	-
5	OSB-3C-5-R	0.84	J	0.69	-	0.79	J	0.71	J	2.76	U
6	OSB-3C-6-R	1.26	-	1.22	-	0.99	J	1.08	-	17.54	-
7	OSB-3C-7-R	0.96	-	1.01	-	0.95	J	0.73	-	3.65	J
8	OSB-3C-8-R	1.07	J	0.96	-	1.19	J	0.97	J	4.80	J
9	OSB-3C-9-R	1.30	-	1.08	-	1.30	-	0.97	-	4.66	U
10	OSB-3C-10-R	1.09	J	1.09	J	1.15	-	0.97	-	28.70	J
11	OSB-3C-11-R	0.94	J	1.07	J	0.83	J	0.97	-	8.62	J
12	OSB-3C-12-R	1.00	J	0.84	-	1.18	J	0.89	J	1.88	J
12	OSB-3C-12-R-D	1.23	J	1.13	-	1.18	J	0.99	J	2.39	U
13	OSB-3C-13-R	1.19	J	1.32	J	1.14	J	0.21	-	4.60	J
14	OSB-3C-14-R	1.08	J	1.12	J	1.06	J	0.70	-	16.81	J
15	OSB-3C-15-R	0.94	-	0.86	-	0.93	-	0.78	-	7.23	J
16	OSB-3C-16-R	0.90	-	0.80	-	0.82	J	0.72	-	3.62	J

Method	Gamma	Gamma	Alpha	Alpha	Gamma
FRL	**1.70**	**1.80**	**1.70**	**1.50**	**82.00**
Units	pCi/g	pCi/g	pCi/g	pCi/g	ug/g
Background UCL	1.22	1.10	1.12	1.08	3.30
Background 95%	1.42	1.25	1.43	1.36	3.73
Samples	16	16	16	16	16
Hits	16	16	16	16	13
Max	**1.80**	**1.46**	**1.82**	**1.34**	**28.70**
Mean	1.12	1.05	1.10	0.86	6.92
St.Dev.	0.25	0.22	0.27	0.26	7.66
UCL	**1.23**	**1.15**	**1.22**	**0.98**	**10.28**
t-Stat	9.27	13.81	8.69	9.73	39.19
Prob.	0.0%	0.0%	0.0%	0.0%	0.0%
Pass/Fail	**Pass**	**Pass**	**Pass**	**Pass**	**Pass**
2 x (P/F)	**Pass**	**Pass**	**Pass**	**Pass**	**Pass**

NOTE: One half of the reported detection level was used in the calculations for results reported as below the detection limit (qualified with "U"). Duplicates were averaged before calculations were performed.

KEY

FRL - Final Remedial Level
Background UCL - Upper Confidence Level (95% one-sided) on the Mean Background concentration.
Background 95% - 95th Percentile of the background dataset.
Samples - Number of distinct sample locations in the analysis (see NOTE above).
Hits - Analyte positively detected in the sample.
Max - The maximum sample result.
Mean - The mean or average concentration. (See NOTE above).
St.Dev. - The standard deviation of the sample concentrations. (See NOTE above).
UCL - Upper Confidence Level (95% one-sided) on the Mean concentration.
t-Stat - The calculated t-statistic for the mean concentration compared to the FRL. (See the Certification Report).
Prob. - The probability (based on the t-Stat) that the true CU mean exceeds the FRL. Acceptable probability for primary COCs is 5% and 10% for seconday COCs.
Pass/Fail - Pass or Fail result from the t-Test based on "t-Stat" above. The associated probability is "Prob." above.
2 x (P/F) - Pass or Fail of the "No exceedances of twice the FRL" criteria.



LEGEND:

● SAMPLE LOCATION

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OSB-4 PRIMARY RADIOLOGICAL SAMPLE LOCATIONS

Certification Unit: OSB-4 02:47 PM 26-May-98

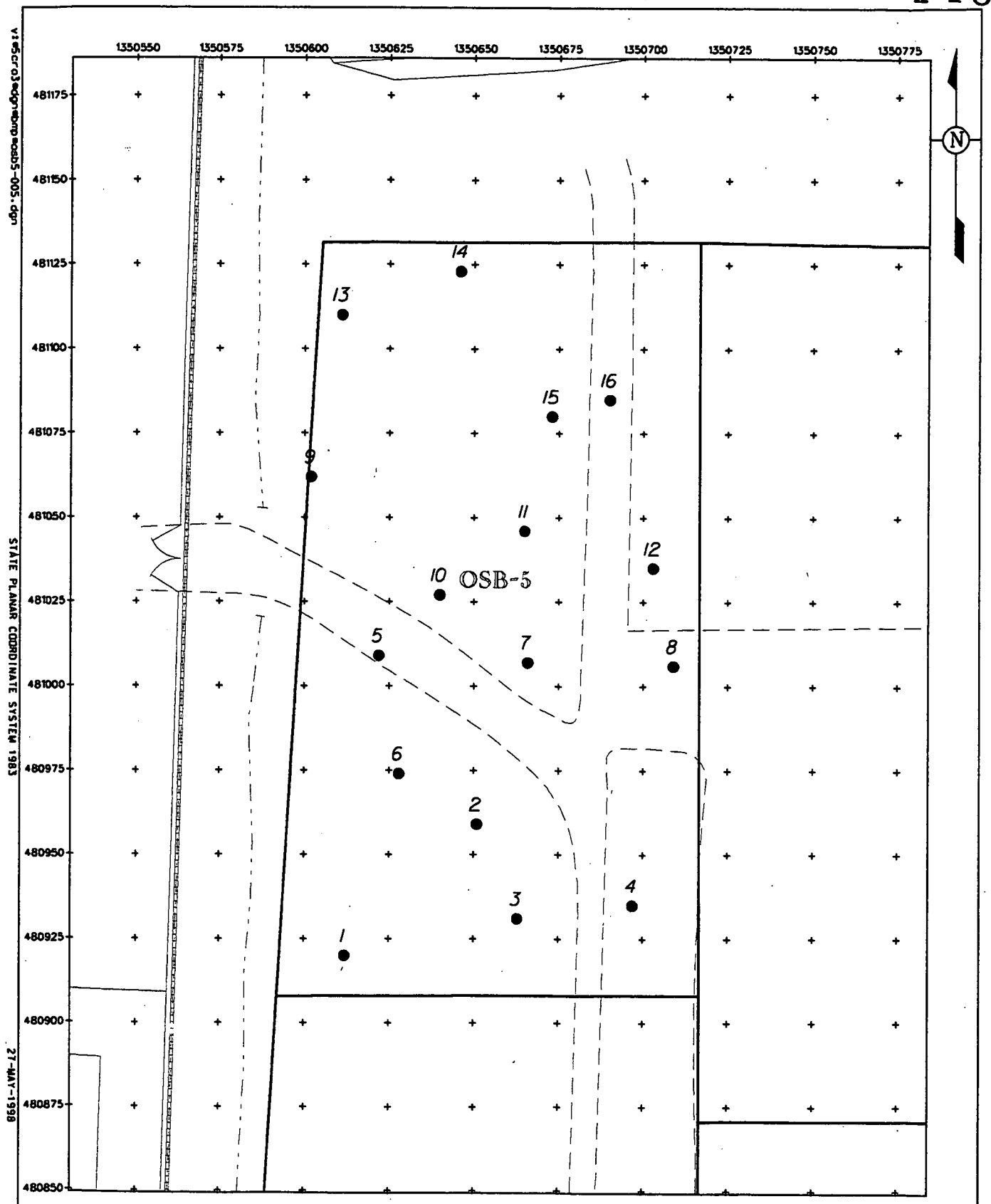
Map	Sample ID	PRIMARY ASCOCs									
		Radium-226		Radium-228		Thorium-228		Thorium-232		Uranium, Total	
1	OSB-4C-1-R	1.35	-	1.09	-	1.36	J	1.35	J	2.45	-
2	OSB-4C-2-R	0.90	-	0.99	-	0.95	J	0.76	-	2.45	U
3	OSB-4C-3-R	0.88	-	0.78	-	0.89	-	0.81	-	6.75	J
4	OSB-4C-4-R	0.97	J	1.00	J	0.75	-	0.71	-	6.72	J
4	OSB-4C-4-R-D	0.87	J	0.81	J	0.99	-	0.90	-	4.46	J
5	OSB-4C-5-R	1.11	J	1.27	J	0.90	J	0.95	J	9.56	J
6	OSB-4C-6-R	1.12	-	1.09	-	1.01	J	0.77	-	8.53	-
7	OSB-4C-7-R	1.21	-	0.40	U	1.07	-	0.87	-	5.57	U
8	OSB-4C-8-R	1.23	-	1.17	-	1.43	-	1.17	-	15.51	-
9	OSB-4C-9-R	0.94	J	0.94	J	0.93	J	0.79	-	11.44	J
10	OSB-4C-10-R	1.14	J	0.88	J	1.02	J	0.99	J	12.01	J
11	OSB-4C-11-R	1.12	-	1.06	-	0.90	J	0.95	-	11.19	J
12	OSB-4C-12-R	1.28	-	1.31	-	1.31	-	0.95	-	11.77	-
13	OSB-4C-13-R	1.18	J	1.29	J	1.07	-	1.02	-	16.98	J
14	OSB-4C-14-R	1.12	J	1.12	J	1.26	J	0.94	-	15.46	J
15	OSB-4C-15-R	0.94	J	0.96	J	1.08	-	0.99	-	11.49	J
16	OSB-4C-16-R	1.44	-	1.36	-	1.48	-	1.30	-	5.73	J

Method	Gamma	Gamma	Alpha	Alpha	Gamma
FRL	**1.70**	**1.80**	**1.70**	**1.50**	**82.00**
Units	pCi/g	pCi/g	pCi/g	pCi/g	ug/g
Background UCL	1.22	1.10	1.12	1.08	3.30
Background 95%	1.42	1.25	1.43	1.36	3.73
Samples	16	16	16	16	16
Hits	16	15	16	16	14
Max	**1.44**	**1.36**	**1.48**	**1.35**	**16.98**
Mean	1.12	1.03	1.10	0.96	9.28
St.Dev.	0.17	0.28	0.21	0.18	4.83
UCL	**1.19**	**1.15**	**1.19**	**1.04**	**11.40**
t-Stat	14.04	11.20	11.76	12.01	60.22
Prob.	0.0%	0.0%	0.0%	0.0%	0.0%
Pass/Fail	**Pass**	**Pass**	**Pass**	**Pass**	**Pass**
2 x (P/F)	**Pass**	**Pass**	**Pass**	**Pass**	**Pass**

NOTE: One half of the reported detection level was used in the calculations for results reported as below the detection limit (qualified with "U"). Duplicates were averaged before calculations were performed.

KEY

FRL - Final Remedial Level
Background UCL - Upper Confidence Level (95% one-sided) on the Mean Background concentration.
Background 95% - 95th Percentile of the background dataset.
Samples - Number of distinct sample locations in the analysis (see NOTE above).
Hits - Analyte positively detected in the sample.
Max - The maximum sample result.
Mean - The mean or average concentration. (See NOTE above).
St.Dev. - The standard deviation of the sample concentrations. (See NOTE above).
UCL - Upper Confidence Level (95% one-sided) on the Mean concentration.
t-Stat - The calculated t-statistic for the mean concentration compared to the FRL. (See the Certification Report).
Prob. - The probability (based on the t-Stat) that the true CU mean exceeds the FRL. Acceptable probability for primary COCs is 5% and 10% for seconday COCs.
Pass/Fail - Pass or Fail result from the t-Test based on "t-Stat" above. The associated probability is "Prob." above.
2 x (P/F) - Pass or Fail of the "No exceedances of twice the FRL" criteria.



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OSB-5 PRIMARY RADIOLOGICAL SAMPLE LOCATIONS

Certification Unit: OSB-5 05:07 PM 18-May-98

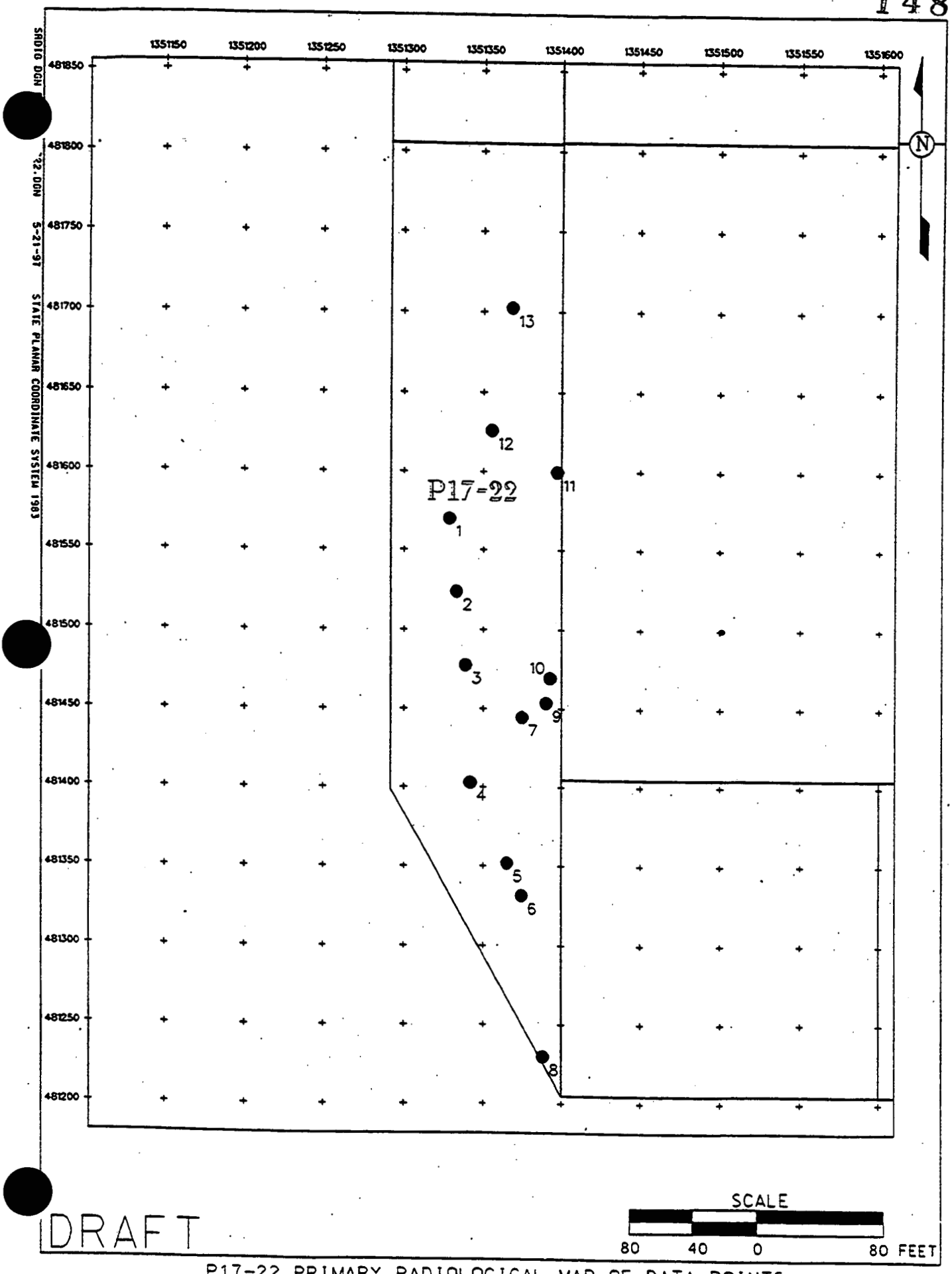
Map	Sample ID	PRIMARY ASCOCs Radium-226	Radium-228	Thorium-229	Thorium-232	Uranium, Total
1	OSB-5C-1-R	1.26 J	1.29 J	1.31 -	0.97 -	6.66 J
2	OSB-5C-2-R	1.10 J	0.94 J	0.98 J	0.79 J	23.55 J
3	OSB-5C-3-R	1.04 -	1.07 -	1.27 -	1.27 -	41.62 -
4	OSB-5C-4-R	0.75 -	0.58 -	0.67 -	0.64 -	6.90 J
5	OSB-5C-5-R	1.43 J	1.40 J	1.47 -	1.17 -	6.70 J
6	OSB-5C-6-R	1.29 -	1.13 -	1.04 -	0.96 -	17.47 -
7	OSB-5C-7-R	0.79 -	0.79 -	1.01 -	0.77 -	5.19 J
8	OSB-5C-8-R	1.04 -	1.05 -	0.88 -	0.74 -	6.70 J
9	OSB-5C-9-R	1.11 J	0.98 J	1.08 -	1.01 -	6.66 J
10	OSB-5C-10-R	1.10 -	0.94 -	1.15 -	0.83 -	16.21 -
10	OSB-5C-10-R-D	1.04 J	0.96 J	0.97 -	0.85 -	16.65 J
11	OSB-5C-11-R	1.03 J	1.10 J	1.14 -	1.02 -	11.26 J
12	OSB-5C-12-R	0.86 J	0.91 J	0.83 -	0.80 -	4.63 J
13	OSB-5C-13-R	0.82 J	0.97 J	0.85 -	0.82 -	6.34 J
14	OSB-5C-14-R	1.30 -	1.18 -	1.00 -	0.97 -	5.71 J
15	OSB-5C-15-R	1.18 -	1.12 -	1.17 -	0.93 -	12.54 -
16	OSB-5C-16-R	1.07 -	0.99 -	1.00 -	0.90 -	4.15 J

Method	Gamma	Gamma	Alpha	Alpha	Gamma
FRL	**1.70**	**1.80**	**1.70**	**1.50**	**82.00**
Units	pCi/g	pCi/g	pCi/g	pCi/g	ug/g
Background UCL	1.22	1.10	1.12	1.08	3.30
Background 95%	1.42	1.25	1.43	1.36	3.73
Samples	16	16	16	16	16
Hits	16	16	16	16	16
Max	**1.43**	**1.40**	**1.47**	**1.27**	**41.62**
Mean	1.07	1.03	1.05	0.91	11.41
St.Dev.	0.20	0.19	0.20	0.16	9.76
UCL	**1.16**	**1.11**	**1.13**	**0.98**	**15.68**
t-Stat	12.90	16.21	13.17	14.59	28.93
Prob.	0.0%	0.0%	0.0%	0.0%	0.0%
Pass/Fail	**Pass**	**Pass**	**Pass**	**Pass**	**Pass**
2 x (P/F)	**Pass**	**Pass**	**Pass**	**Pass**	**Pass**

NOTE: One half of the reported detection level was used in the calculations for results reported as below the detection limit (qualified with "U"). Duplicates were averaged before calculations were performed.

KEY

FRL - Final Remedial Level
Background UCL - Upper Confidence Level (95% one-sided) on the Mean Background concentration.
Background 95% - 95th Percentile of the background dataset.
Samples - Number of distinct sample locations in the analysis (see NOTE above).
Hits - Analyte positively detected in the sample.
Max - The maximum sample result.
Mean - The mean or average concentration. (See NOTE above).
St.Dev. - The standard deviation of the sample concentrations. (See NOTE above).
UCL - Upper Confidence Level (95% one-sided) on the Mean concentration.
t-Stat - The calculated t-statistic for the mean concentration compared to the FRL. (See the Certification Report).
Prob. - The probability (based on the t-Stat) that the true CU mean exceeds the FRL. Acceptable probability for primary COCs is 5% and 10% for seconday COCs.
Pass/Fail - Pass or Fail result from the t-Test based on "t-Stat" above. The associated probability is "Prob." above.
2 x (P/F) - Pass or Fail of the "No exceedances of twice the FRL" criteria.



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SCALE

80 40 0 80 FEET

P17-22 PRIMARY RADIOLOGICAL MAP OF DATA POINTS

Certification Unit: P17-22 04:58 PM 06-May-98

Map	Sample ID	PRIMARY COCs									
		Radium-226		Radium-228		Thorium-228		Thorium-232		Uranium-tot	
1	P17-22C2-R-1	1.37	-	1.40	-	1.43	-	1.34	-	1.71	-
1	P17-22C2-R-1-D	1.52	-	1.89	-	1.36	-	1.13	-	5.75	-
2	P17-22C2-R-2	1.33	J	1.31	J	1.34	-	1.25	-	1.56	J
3	P17-22C2-R-3	1.36	-	1.23	-	1.24	J	1.20	J	9.96	-
4	P17-22C2-R-4	1.43	-	1.51	-	1.32	-	1.37	-	9.48	-
5	P17-22C2-R-5	1.19	J	1.15	J	1.57	-	1.22	-	12.02	J
6	P17-22C2-R-6	1.39	-	1.41	-	1.49	J	1.07	J	17.42	-
7	P17-22C2-R-7	1.30	-	1.36	-	1.29	-	1.21	-	1.49	J
8	P17-22C2-R-8	1.62	-	1.43	-	1.57	J	1.34	J	4.11	U
9	P17-22C2-R-9	1.44	-	1.36	-	1.49	-	1.19	-	14.06	-
10	P17-22C2-R-10	1.45	-	1.41	-	1.40	-	1.26	-	2.97	-
11	P17-22C2-R-11	1.06	-	1.16	-	1.33	-	1.23	-	7.38	-
12	P17-22C2-R-12	1.31	-	1.26	-	1.35	-	1.20	-	18.44	-
13	P17-22C2-R-13	1.13	-	1.06	-	1.41	-	1.19	-	25.64	-
13	P17-22C2-R-13-D	1.33	-	1.13	-	1.36	J	1.23	J	19.64	-

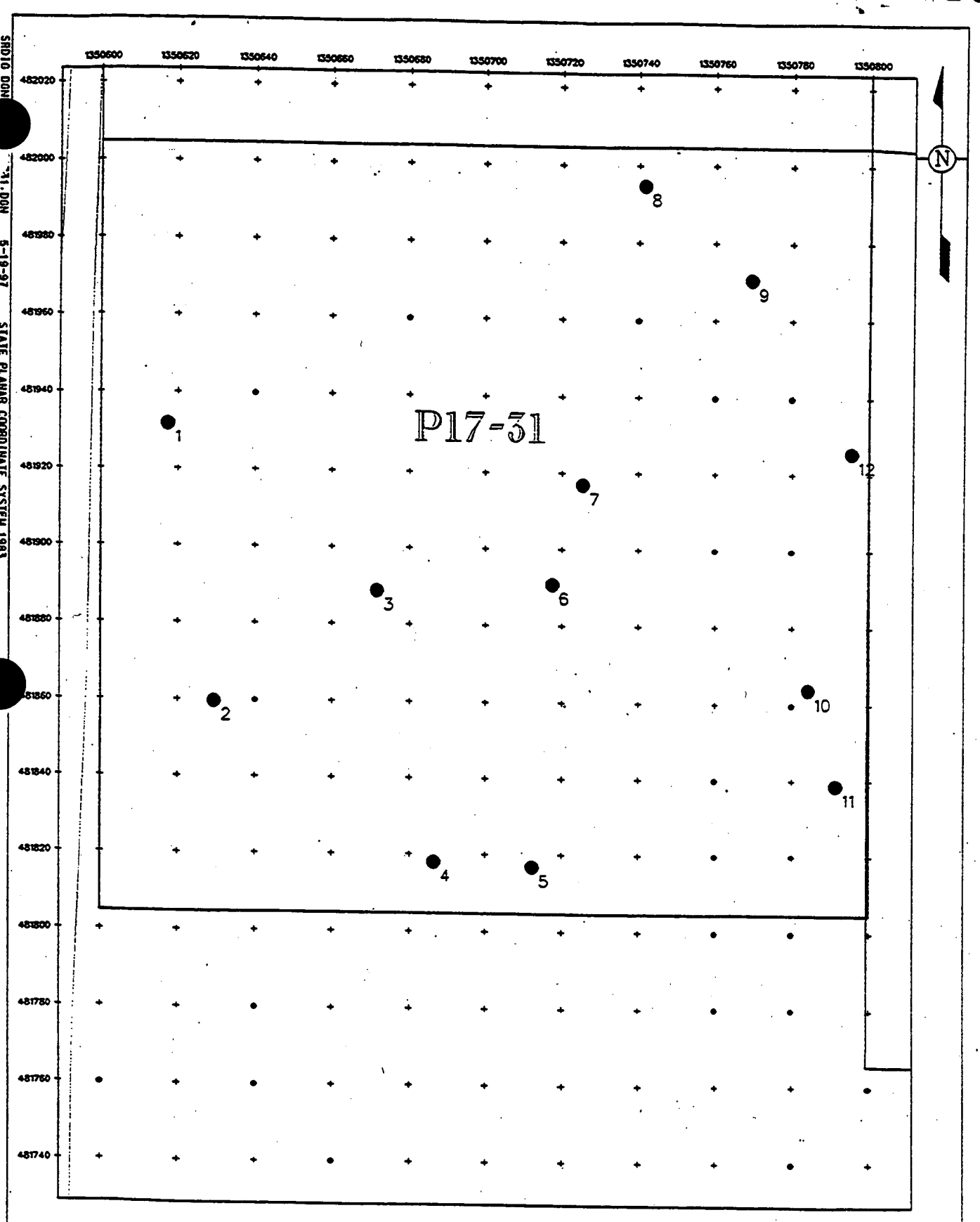
Method	Gamma	Gamma	Alpha	Alpha	Gamma
FRL	**1.70**	**1.80**	**1.70**	**1.50**	**82.00**
Units	pCi/g	pCi/g	pCi/g	pCi/g	ug/g
Background UCL	1.22	1.10	1.12	1.08	3.30
Background 95%	1.42	1.25	1.43	1.36	3.73
Samples	13	13	13	13	13
Hits	13	13	13	13	12
Max	**1.62**	**1.65**	**1.57**	**1.37**	**22.64**
Mean	1.35	1.33	1.40	1.23	9.48
St.Dev.	0.14	0.16	0.10	0.07	7.10
UCL	**1.42**	**1.41**	**1.45**	**1.26**	**12.99**
t-Stat	8.99	10.85	10.49	13.57	36.81
Prob.	0.0%	0.0%	0.0%	0.0%	0.0%
Pass/Fail	**Pass**	**Pass**	**Pass**	**Pass**	**Pass**
2 x (P/F)	**Pass**	**Pass**	**Pass**	**Pass**	**Pass**

NOTE: One half of the reported detection level was used in the calculations for results reported as below the detection limit (qualified with "U"). Duplicates were averaged before calculations were performed.

NOTE: The maximum value reported for Radium-228 result is the average of P17-22C2-R1 and the duplicate P17-22CR-R-1-D. The maximum observed result is 1.89 pCi/g (P17-22CR-R-1-D). The maximum value reported for Total Uranium result is the average of P17-22C2-R13 and the duplicate P17-22CR-R-13-D. The maximum observed result is 25.64 ug/g (P17-22CR-R-13).

KEY

FRL - Final Remedial Level
Background UCL - Upper Confidence Level (95% one-sided) on the Mean Background concentration.
Background 95% - 95th Percentile of the background dataset.
Samples - Number of distinct sample locations in the analysis (see NOTE above).
Hits - Analyte positively detected in the sample.
Max - The maximum sample result.
Mean - The mean or average concentration. (See NOTE above).
St.Dev. - The standard deviation of the sample concentrations. (See NOTE above).
UCL - Upper Confidence Level (95% one-sided) on the Mean concentration.
t-Stat - The calculated t-statistic for the mean concentration compared to the FRL. (See the Certification Report).
Prob. - The probability (based on the t-Stat) that the true CU mean exceeds the FRL. Acceptable probability for primary COCs is 5% and 10% for seconday COCs.
Pass/Fail - Pass or Fail result from the t-Test based on "t-Stat" above. The associated probability is "Prob." above.
2 x (P/F) - Pass or Fail of the "No exceedances of twice the FRL" criteria.



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SCALE

35 17.5 0 35 FEET

P17-31 PRIMARY RADIOLOGICAL MAP OF DATA POINTS

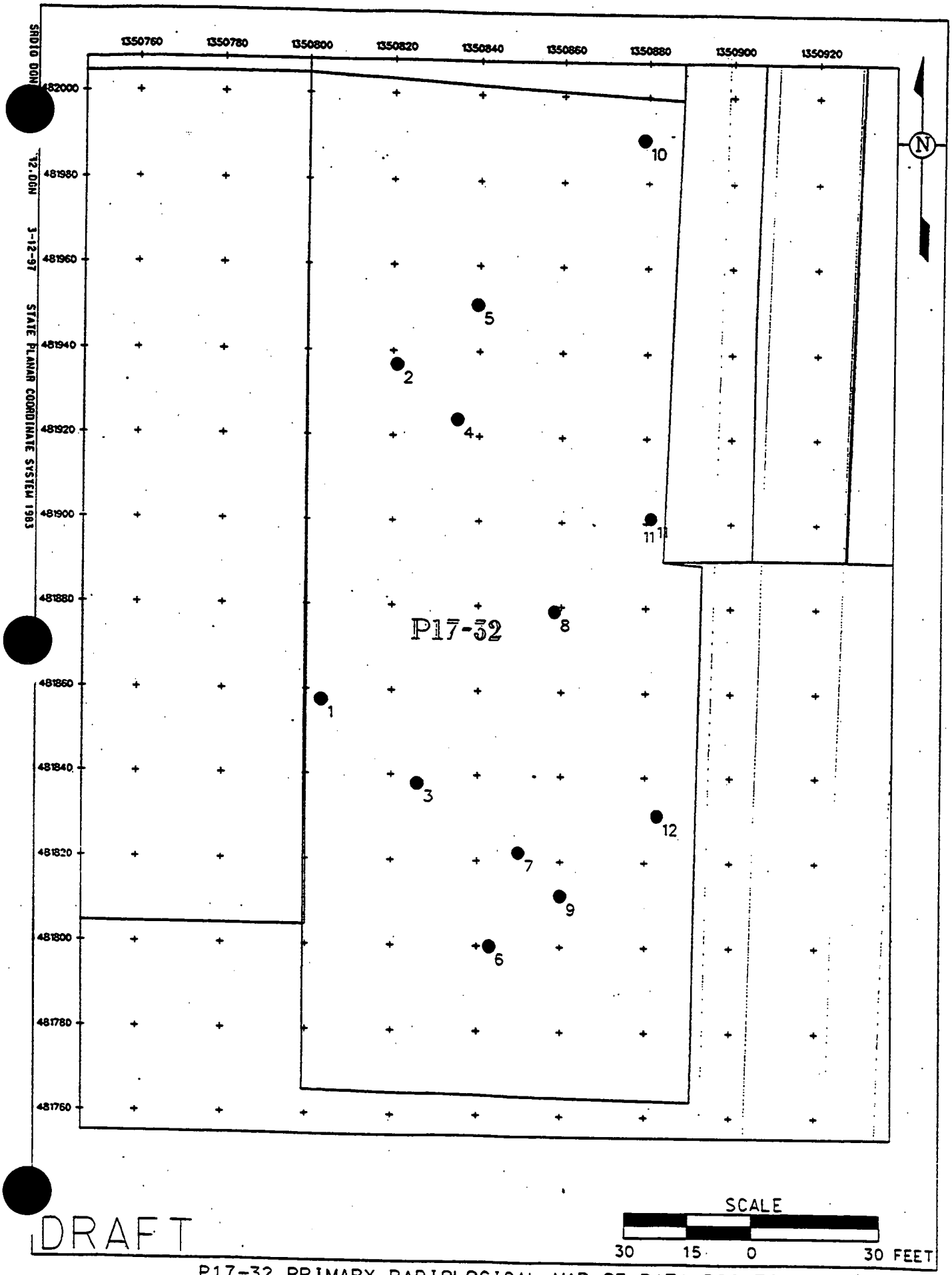
Certification Unit: P17-31 04:50 PM 06-May-98

Map	Sample ID	PRIMARY COCs Radium-226		Radium-228		Thorium-228		Thorium-232		Uranium-total	
1	P17-31C-617931	0.90	-	1.08	-	1.44	-	1.18	-	25.00	-
2	P17-31C-629859	0.95	-	0.94	-	1.00	-	0.83	-	10.80	-
3	P17-31C-671888	1.60	-	1.40	-	1.20	-	1.30	-	4.50	J
4	P17-31C-686817	1.50	-	1.30	-	1.20	-	1.10	-	9.00	-
5	P17-31C-712816	1.50	-	1.10	-	1.10	-	1.10	-	7.20	-
6	P17-31C-717890	1.40	-	0.98	-	1.10	J	1.00	J	12.29	-
7	P17-31C-725916	1.20	-	1.20	-	1.10	-	1.10	-	13.79	-
8	P17-31C-741994	0.85	-	0.91	-	0.75	J	0.80	J	7.20	-
9	P17-31C-769970	1.00	-	0.91	-	0.74	-	0.75	-	6.30	-
10	P17-31C-784863	1.40	-	1.30	-	1.10	-	1.00	J	5.10	-
11	P17-31C-791838	1.60	-	1.60	-	1.20	-	1.20	-	5.70	-
12	P17-31C-795925	1.60	-	1.20	-	1.40	J	1.30	J	3.00	J
	Method	**Gamma**		**Gamma**		**Alpha**		**Alpha**		**Gamma**	
	FRL	**1.70**		**1.80**		**1.70**		**1.50**		**82.00**	
	Units	pCi/g		pCi/g		pCi/g		pCi/g		ug/g	
	Background UCL	1.22		1.10		1.12		1.08		3.30	
	Background 95%	1.42		1.25		1.43		1.36		3.73	
	Samples	12		12		12		12		12	
	Hits	12		12		12		12		12	
	Max	**1.60**		**1.60**		**1.44**		**1.30**		**25.00**	
	Mean	1.29		1.16		1.11		1.06		9.16	
	St.Dev.	0.30		0.22		0.21		0.19		5.95	
	UCL	**1.44**		**1.27**		**1.22**		**1.15**		**12.24**	
	t-Stat	4.80		10.30		9.61		8.32		42.43	
	Prob.	0.0%		0.0%		0.0%		0.0%		0.0%	
	Pass/Fail	**Pass**		**Pass**		**Pass**		**Pass**		**Pass**	
	2 x (P/F)	**Pass**		**Pass**		**Pass**		**Pass**		**Pass**	

NOTE: One half of the reported detection level was used in the calculations for results reported as below the detection limit (qualified with "U"). Duplicates were averaged before calculations were performed.

KEY

FRL - Final Remedial Level
Background UCL - Upper Confidence Level (95% one-sided) on the Mean Background concentration.
Background 95% - 95th Percentile of the background dataset.
Samples - Number of distinct sample locations in the analysis (see NOTE above).
Hits - Analyte positively detected in the sample.
Max - The maximum sample result.
Mean - The mean or average concentration. (See NOTE above).
St.Dev. - The standard deviation of the sample concentrations. (See NOTE above).
UCL - Upper Confidence Level (95% one-sided) on the Mean concentration.
t-Stat - The calculated t-statistic for the mean concentration compared to the FRL. (See the Certification Report).
Prob. - The probability (based on the t-Stat) that the true CU mean exceeds the FRL. Acceptable probability for primary COCs is 5% and 10% for seconday COCs.
Pass/Fail - Pass or Fail result from the t-Test based on "t-Stat" above. The associated probability is "Prob." above.
2 x (P/F) - Pass or Fail of the "No exceedances of twice the FRL" criteria.



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P17-32 PRIMARY RADIOLOGICAL MAP OF DATA POINTS

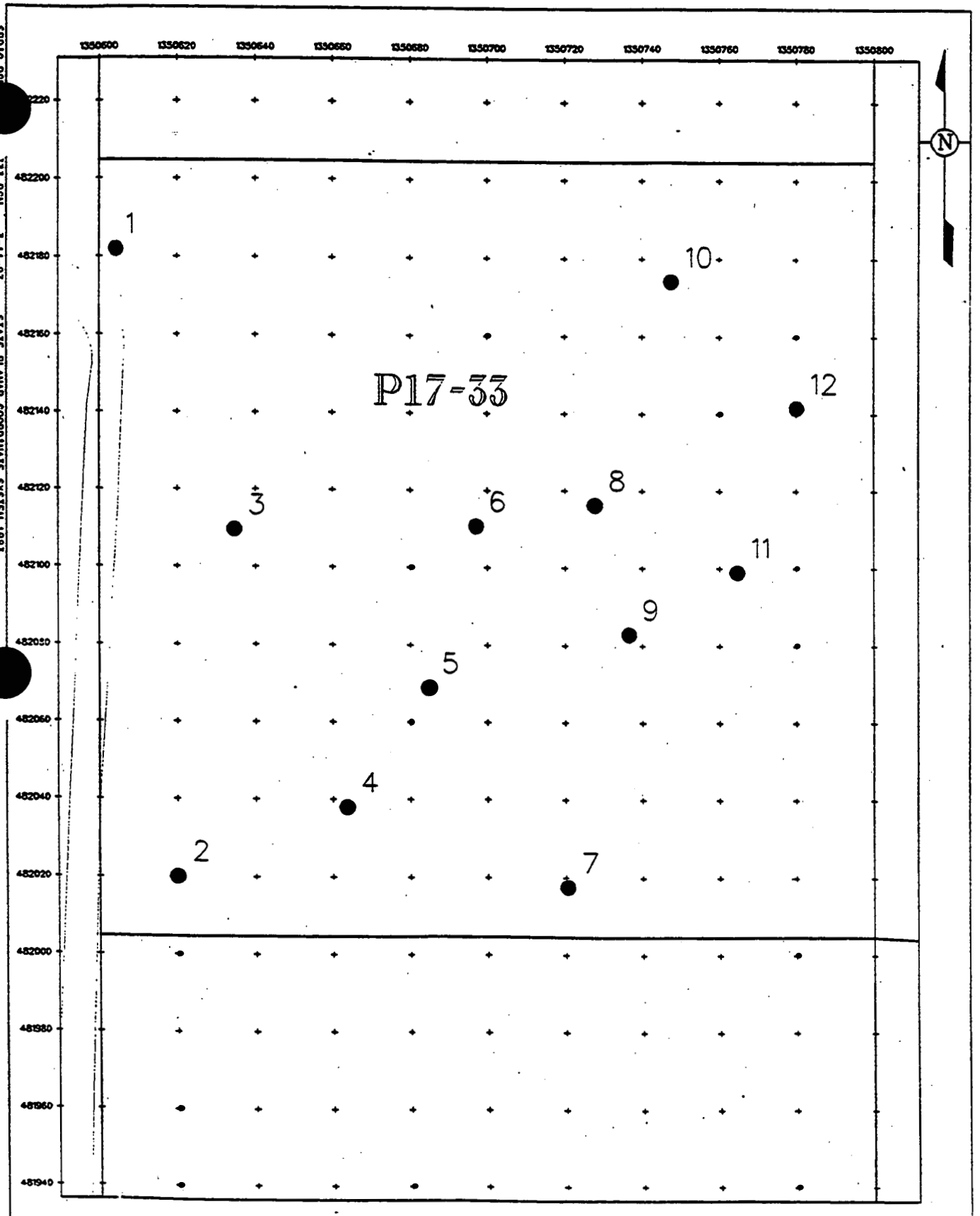
Certification Unit: P17-32 03:01 PM 26-May-98

Map	Sample ID	PRIMARY ASCOCs Radium-226	Radium-228	Thorium-228	Thorium-232	Uranium, Total
1	P17-32C-803857	1.40 -	1.50 -	1.20 -	1.10 -	3.60 U
2	P17-32C-820936	1.40 -	1.30 -	1.20 -	1.10 -	11.99 -
3	P17-32C-826838	1.30 -	1.26 -	1.30 -	1.25 -	12.59 -
4	P17-32C-835924	0.92 J	1.40 -	1.55 -	1.36 -	17.51 -
4	P17-32C-835924-D	1.29 J	1.47 -	1.41 -	1.27 -	20.46 -
5	P17-32C-839950	1.40 -	1.30 -	1.50 -	1.60 -	6.60 -
6	P17-32C-843800	1.07 -	1.35 -	1.52 -	1.25 -	14.09 -
7	P17-32C-850822	1.25 -	1.53 -	1.28 J	1.07 J	10.21 -
8	P17-32C-858878	1.40 -	1.50 -	1.30 -	1.40 -	3.90 J
9	P17-32C-860812	1.10 -	1.26 -	1.32 -	1.11 -	12.31 -
10	P17-32C-879990	1.20 -	1.20 -	1.40 -	1.40 -	5.10 -
11	P17-32C-881901	1.30 -	1.30 -	1.30 -	1.60 -	25.49 -
12	P17-32C-883831	1.30 -	1.40 -	1.20 -	1.20 -	18.29 -
	Method	**Gamma**	**Gamma**	**Alpha**	**Alpha**	**Gamma**
	FRL	**1.70**	**1.80**	**1.70**	**1.50**	**82.00**
	Units	pCi/g	pCi/g	pCi/g	pCi/g	ug/g
	Background UCL	1.22	1.10	1.12	1.08	3.30
	Background 95%	1.42	1.25	1.43	1.36	3.73
	Samples	12	12	12	12	12
	Hits	12	12	12	12	11
	Max	**1.40**	**1.53**	**1.52**	**1.60**	**25.49**
	Mean	1.27	1.36	1.33	1.28	11.78
	St.Dev.	0.13	0.11	0.12	0.19	6.90
	UCL	**1.33**	**1.42**	**1.39**	**1.38**	**15.36**
	t-Stat	11.92	14.03	10.94	4.04	35.24
	Prob.	0.0%	0.0%	0.0%	0.1%	0.0%
	Pass/Fail	**Pass**	**Pass**	**Pass**	**Pass**	**Pass**
	2 x (P/F)	**Pass**	**Pass**	**Pass**	**Pass**	**Pass**

NOTE: One half of the reported detection level was used in the calculations for results reported as below the detection limit (qualified with "U"). Duplicates were averaged before calculations were performed.

KEY

FRL - Final Remedial Level
Background UCL - Upper Confidence Level (95% one-sided) on the Mean Background concentration.
Background 95% - 95th Percentile of the background dataset.
Samples - Number of distinct sample locations in the analysis (see NOTE above).
Hits - Analyte positively detected in the sample.
Max - The maximum sample result.
Mean - The mean or average concentration. (See NOTE above).
St.Dev. - The standard deviation of the sample concentrations. (See NOTE above).
UCL - Upper Confidence Level (95% one-sided) on the Mean concentration.
t-Stat - The calculated t-statistic for the mean concentration compared to the FRL. (See the Certification Report).
Prob. - The probability (based on the t-Stat) that the true CU mean exceeds the FRL. Acceptable probability for primary COCs is 5% and 10% for seconday COCs.
Pass/Fail - Pass or Fail result from the t-Test based on "t-Stat" above. The associated probability is "Prob." above.
2 x (P/F) - Pass or Fail of the "No exceedances of twice the FRL" criteria.



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35 17.5 0 35 FEET

P17-33 PRIMARY RADIOLOGICAL MAP OF DATA POINTS

Certification Unit: P17-33 03:09 PM 26-May-98

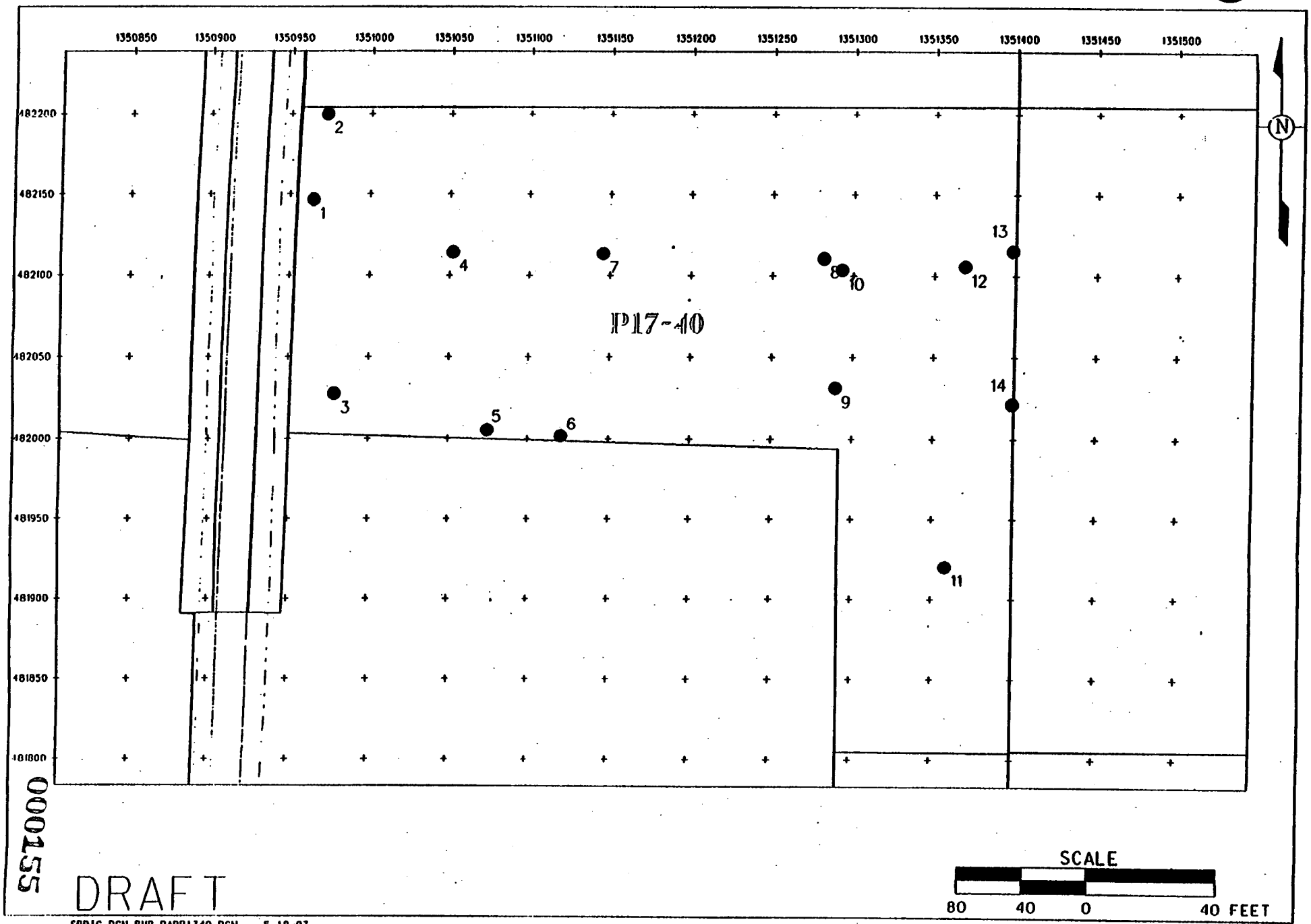
Map	Sample ID	PRIMARY ASCOCs Radium-226		Radium-228		Thorium-228		Thorium-232		Uranium, Total	
1	P17-33C-604181	1.00	-	0.91	-	0.94	-	0.74	-	11.69	-
2	P17-33C-620020	0.85	-	0.71	-	0.65	-	0.64	-	8.10	J
2	P17-33C-620020-D	0.90	R	0.69	R	0.57	R	0.53	R	5.40	R
3	P17-33C-634109	0.89	-	0.79	-	0.84	-	0.76	-	6.60	-
4	P17-33C-663037	0.79	-	0.87	-	0.88	-	0.83	-	9.60	-
5	P17-33C-684068	1.00	-	1.10	-	0.67	-	0.62	-	9.00	-
6	P17-33C-697110	0.91	-	0.79	-	0.90	-	0.88	-	9.30	-
7	P17-33C-720017	0.92	-	0.83	-	0.87	-	0.87	-	11.10	-
8	P17-33C-727116	1.40	-	1.40	-	1.20	-	1.20	-	8.40	-
9	P17-33C-736082	0.86	-	0.85	-	0.63	-	0.83	-	7.50	-
10	P17-33C-747174	0.94	-	1.10	-	0.87	J	0.74	J	7.80	-
11	P17-33C-764098	0.97	-	0.98	-	0.82	-	0.83	-	7.80	-
12	P17-33C-780141	1.20	-	0.92	-	0.77	J	0.72	J	6.00	-

Method	Gamma	Gamma	Alpha	Alpha	Gamma
FRL	**1.70**	**1.80**	**1.70**	**1.50**	**82.00**
Units	pCi/g	pCi/g	pCi/g	pCi/g	ug/g
Background UCL	1.22	1.10	1.12	1.08	3.30
Background 95%	1.42	1.25	1.43	1.36	3.73
Samples	12	12	12	12	12
Hits	12	12	12	12	12
Max	**1.40**	**1.40**	**1.20**	**1.20**	**11.69**
Mean	0.98	0.94	0.84	0.81	8.57
St.Dev.	0.17	0.19	0.15	0.15	1.68
UCL	**1.06**	**1.03**	**0.92**	**0.88**	**9.44**
t-Stat	14.88	15.90	19.42	16.07	151.49
Prob.	0.0%	0.0%	0.0%	0.0%	0.0%
Pass/Fail	**Pass**	**Pass**	**Pass**	**Pass**	**Pass**
2 x (P/F)	**Pass**	**Pass**	**Pass**	**Pass**	**Pass**

NOTE: One half of the reported detection level was used in the calculations for results reported as below the detection limit (qualified with "U"). Duplicates were averaged before calculations were performed.

KEY

FRL - Final Remedial Level
Background UCL - Upper Confidence Level (95% one-sided) on the Mean Background concentration.
Background 95% - 95th Percentile of the background dataset.
Samples - Number of distinct sample locations in the analysis (see NOTE above).
Hits - Analyte positively detected in the sample.
Max - The maximum sample result.
Mean - The mean or average concentration. (See NOTE above).
St.Dev. - The standard deviation of the sample concentrations. (See NOTE above).
UCL - Upper Confidence Level (95% one-sided) on the Mean concentration.
t-Stat - The calculated t-statistic for the mean concentration compared to the FRL. (See the Certification Report).
Prob. - The probability (based on the t-Stat) that the true CU mean exceeds the FRL. Acceptable probability for primary COCs is 5% and 10% for seconday COCs.
Pass/Fail - Pass or Fail result from the t-Test based on "t-Stat" above. The associated probability is "Prob." above.
2 x (P/F) - Pass or Fail of the "No exceedances of twice the FRL" criteria.



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STATE PLANAR COORDINATE SYSTEM 1983

P17-40 PRIMARY RADIOLOGICAL MAP OF DATA POINTS

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A-1480

Certification Unit: P17-40 03:11 PM 26-May-98

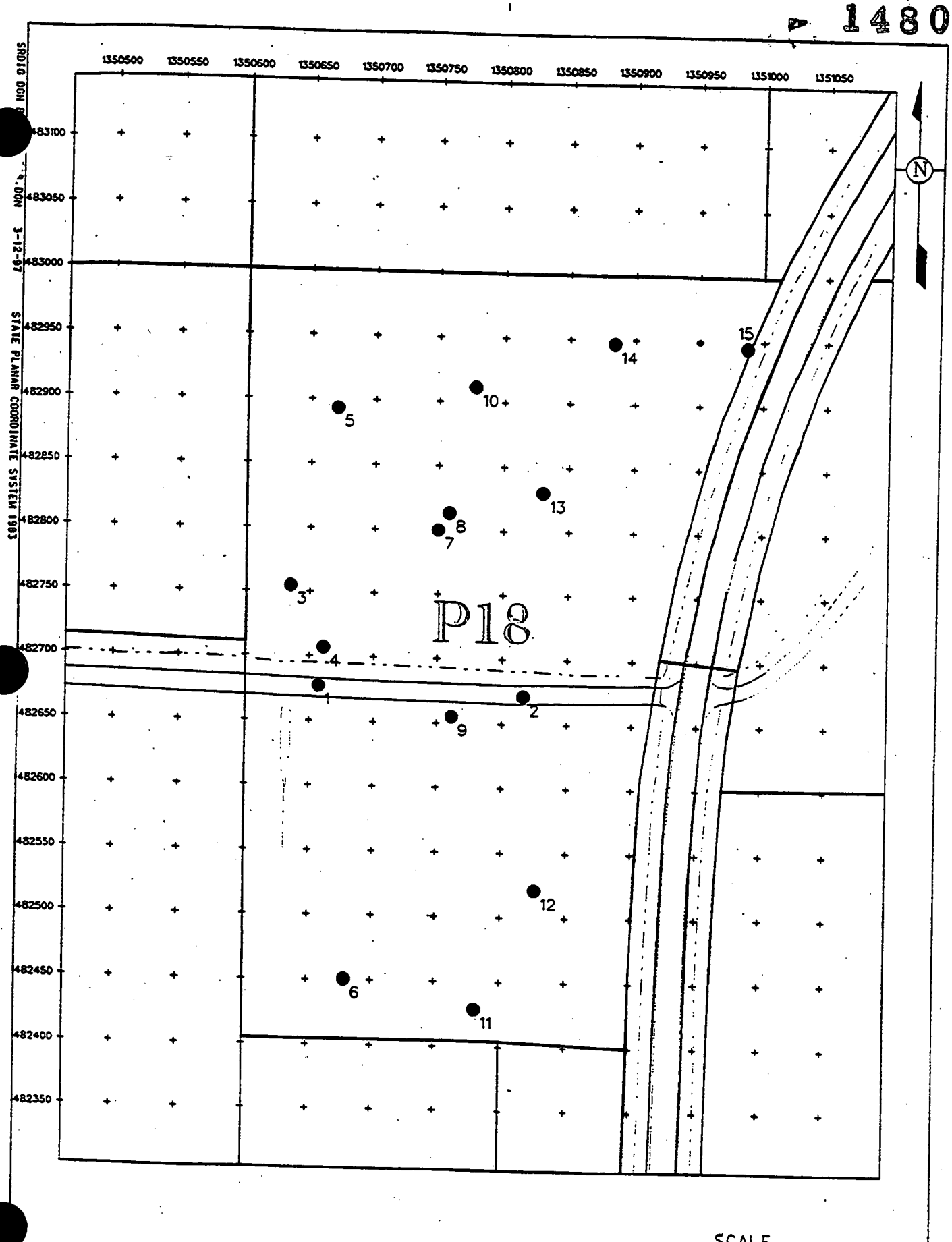
Map	Sample ID	PRIMARY ASCOCs Radium-226	Radium-228	Thorium-228	Thorium-232	Uranium, Total
1	P17-34C-964146	1.50 -	1.30 -	1.20 J	1.10 J	3.30 J
2	P17-34C-972199	1.60 -	1.30 -	1.10 J	1.10 J	9.00 J
3	P17-40C2-R-3	1.25 -	1.14 -	1.32 J	1.15 J	5.31 -
3	P17-40C2-R-3-D	1.42 -	1.44 -	1.34 J	1.10 J	7.26 -
4	P17-40C-052114	1.40 -	1.50 -	1.30 J	1.20 J	13.49 -
5	P17-40C2-R-4	0.84 -	0.72 -	0.95 J	0.79 J	3.92 -
6	P17-40C2-R-5	1.20 -	1.08 -	1.20 -	1.15 -	7.60 J
7	P17-40C-145113	1.50 -	1.40 -	1.20 J	1.30 J	13.79 -
8	P17-40C-281110	1.50 -	1.30 -	1.40 -	1.30 -	8.40 -
9	P17-40C-289031	1.60 -	1.20 -	1.40 J	1.40 J	3.60 U
10	P17-40C-292103	1.30 -	1.30 -	1.10 J	1.10 J	10.80 -
11	P17-40C2-R-1	1.56 -	1.67 -	1.35 J	1.01 J	9.04 -
12	P17-40C-368105	1.40 -	1.40 -	1.20 J	1.10 J	6.30 -
13	P17-40C-397115	1.80 -	1.30 -	1.50 -	1.30 -	10.80 -
14	P17-40C-398021	1.30 -	1.20 -	1.20 J	1.10 J	7.50 -
14	P17-40C-398021-D	1.20 -	1.20 -	1.10 -	1.00 -	8.70 -

Method	Gamma	Gamma	Alpha	Alpha	Gamma
FRL	**1.70**	**1.80**	**1.70**	**1.50**	**82.00**
Units	pCi/g	pCi/g	pCi/g	pCi/g	ug/g
Background UCL	1.22	1.10	1.12	1.08	3.30
Background 95%	1.42	1.25	1.43	1.36	3.73
Samples	14	14	14	14	14
Hits	14	14	14	14	13
Max	**1.80**	**1.67**	**1.50**	**1.40**	**13.79**
Mean	1.41	1.28	1.24	1.14	8.04
St.Dev.	0.23	0.21	0.15	0.15	3.56
UCL	**1.52**	**1.38**	**1.31**	**1.22**	**9.73**
t-Stat	4.68	9.04	11.64	8.71	77.72
Prob.	0.0%	0.0%	0.0%	0.0%	0.0%
Pass/Fail	**Pass**	**Pass**	**Pass**	**Pass**	**Pass**
2 x (P/F)	**Pass**	**Pass**	**Pass**	**Pass**	**Pass**

NOTE: One half of the reported detection level was used in the calculations for results reported as below the detection limit (qualified with "U"). Duplicates were averaged before calculations were performed.

KEY

FRL - Final Remedial Level
Background UCL - Upper Confidence Level (95% one-sided) on the Mean Background concentration.
Background 95% - 95th Percentile of the background dataset.
Samples - Number of distinct sample locations in the analysis (see NOTE above).
Hits - Analyte positively detected in the sample.
Max - The maximum sample result.
Mean - The mean or average concentration. (See NOTE above).
St.Dev. - The standard deviation of the sample concentrations. (See NOTE above).
UCL - Upper Confidence Level (95% one-sided) on the Mean concentration.
t-Stat - The calculated t-statistic for the mean concentration compared to the FRL. (See the Certification Report).
Prob. - The probability (based on the t-Stat) that the true CU mean exceeds the FRL. Acceptable probability for primary COCs is 5% and 10% for seconday COCs.
Pass/Fail - Pass or Fail result from the t-Test based on "t-Stat" above. The associated probability is "Prob." above.
2 x (P/F) - Pass or Fail of the "No exceedances of twice the FRL" criteria.



STATE PLANAR COORDINATE SYSTEM 1983

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SCALE

100 50 0 100 FEET

P18 PRIMARY RADIOLOGICAL MAP OF DATA POINTS

Certification Unit: P18 05:19 PM 06-May-98

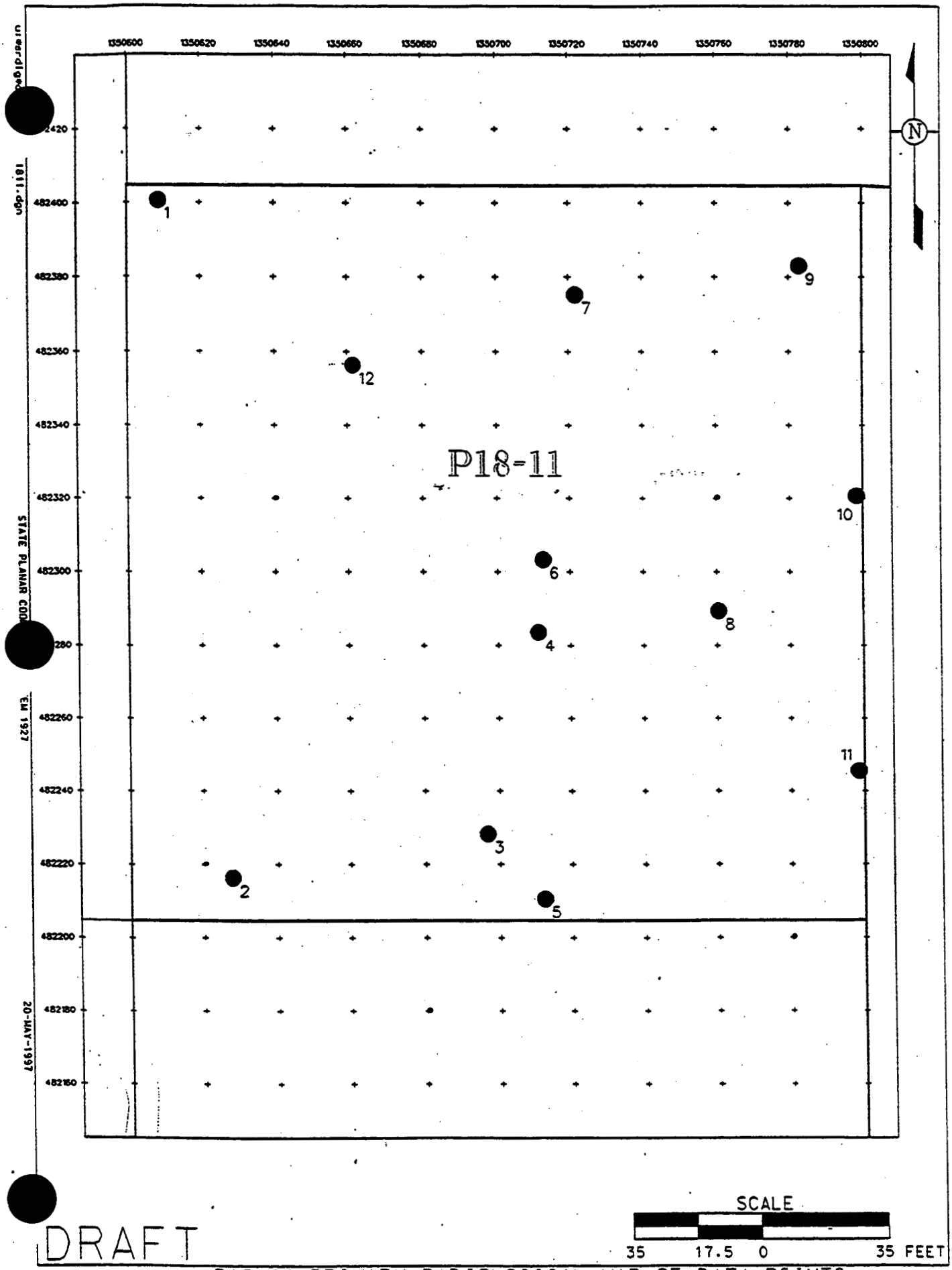
		PRIMARY COCs									
Map	Sample ID	Radium-226		Radium-228		Thorium-228		Thorium-232		Uranium-total	
1	P18-31C-657677	0.90	-	1.13	J	1.10	-	1.12	-	12.59	U
2	P18-32C-816671	1.04	-	1.97	-	1.11	-	1.00	-	15.89	U
3	P18C-634755	1.20	J	1.20	-	1.30	-	1.30	-	29.69	-
4	P18C-661706	1.00	-	1.20	-	1.27	-	0.99	-	24.72	-
5	P18C-670893	1.00	J	1.10	-	1.30	-	1.10	-	18.59	-
6	P18C-679450	1.10	-	0.97	-	1.30	-	1.20	-	3.90	-
7	P18C-750800	1.18	-	1.27	-	1.59	-	1.21	-	38.92	-
8	P18C-758813	1.60	J	1.20	-	1.30	-	1.40	-	29.99	-
9	P18C-761655	1.20	-	0.94	-	1.10	-	1.10	-	9.30	J
10	P18C-777911	1.09	-	1.09	-	1.45	-	1.20	-	21.97	-
11	P18C-781429	0.91	-	0.74	-	0.59	-	0.80	-	2.85	U
12	P18C-826521	1.40	-	1.30	-	1.30	-	1.40	-	5.10	-
13	P18C-830830	1.04	-	1.15	-	1.30	-	0.99	-	27.09	-
14	P18C-884947	0.95	-	1.21	-	1.12	-	1.02	-	20.47	-
15	P18C-987945	1.10	J	0.99	-	1.20	J	1.10	-	20.69	-

Method	Gamma	Gamma	Alpha	Alpha	Gamma
FRL	**1.70**	**1.80**	**1.70**	**1.50**	**82.00**
Units	pCi/g	pCi/g	pCi/g	pCi/g	ug/g
Background UCL	1.22	1.10	1.12	1.08	3.30
Background 95%	1.42	1.25	1.43	1.36	3.73
Samples	15	15	15	15	15
Hits	15	15	15	15	12
Max	**1.60**	**1.97**	**1.59**	**1.40**	**38.92**
Mean	1.11	1.16	1.22	1.13	17.74
St.Dev.	0.19	0.27	0.22	0.16	11.43
UCL	**1.20**	**1.28**	**1.32**	**1.20**	**22.94**
t-Stat	12.11	9.25	8.41	8.83	21.78
Prob.	0.0%	0.0%	0.0%	0.0%	0.0%
Pass/Fail	**Pass**	**Pass**	**Pass**	**Pass**	**Pass**
2 x (P/F)	**Pass**	**Pass**	**Pass**	**Pass**	**Pass**

NOTE: One half of the reported detection level was used in the calculations for results reported as below the detection limit (qualified with "U"). Duplicates were averaged before calculations were performed.

KEY

FRL - Final Remedial Level
Background UCL - Upper Confidence Level (95% one-sided) on the Mean Background concentration.
Background 95% - 95th Percentile of the background dataset.
Samples - Number of distinct sample locations in the analysis (see NOTE above).
Hits - Analyte positively detected in the sample.
Max - The maximum sample result.
Mean - The mean or average concentration. (See NOTE above).
St.Dev. - The standard deviation of the sample concentrations. (See NOTE above).
UCL - Upper Confidence Level (95% one-sided) on the Mean concentration.
t-Stat - The calculated t-statistic for the mean concentration compared to the FRL. (See the Certification Report).
Prob. - The probability (based on the t-Stat) that the true CU mean exceeds the FRL. Acceptable probability for primary COCs is 5% and 10% for seconday COCs.
Pass/Fail - Pass or Fail result from the t-Test based on "t-Stat" above. The associated probability is "Prob." above.
2 x (P/F) - Pass or Fail of the "No exceedances of twice the FRL" criteria.



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SCALE

35 17.5 0 35 FEET

P18-11 PRIMARY RADIOLOGICAL MAP OF DATA POINTS

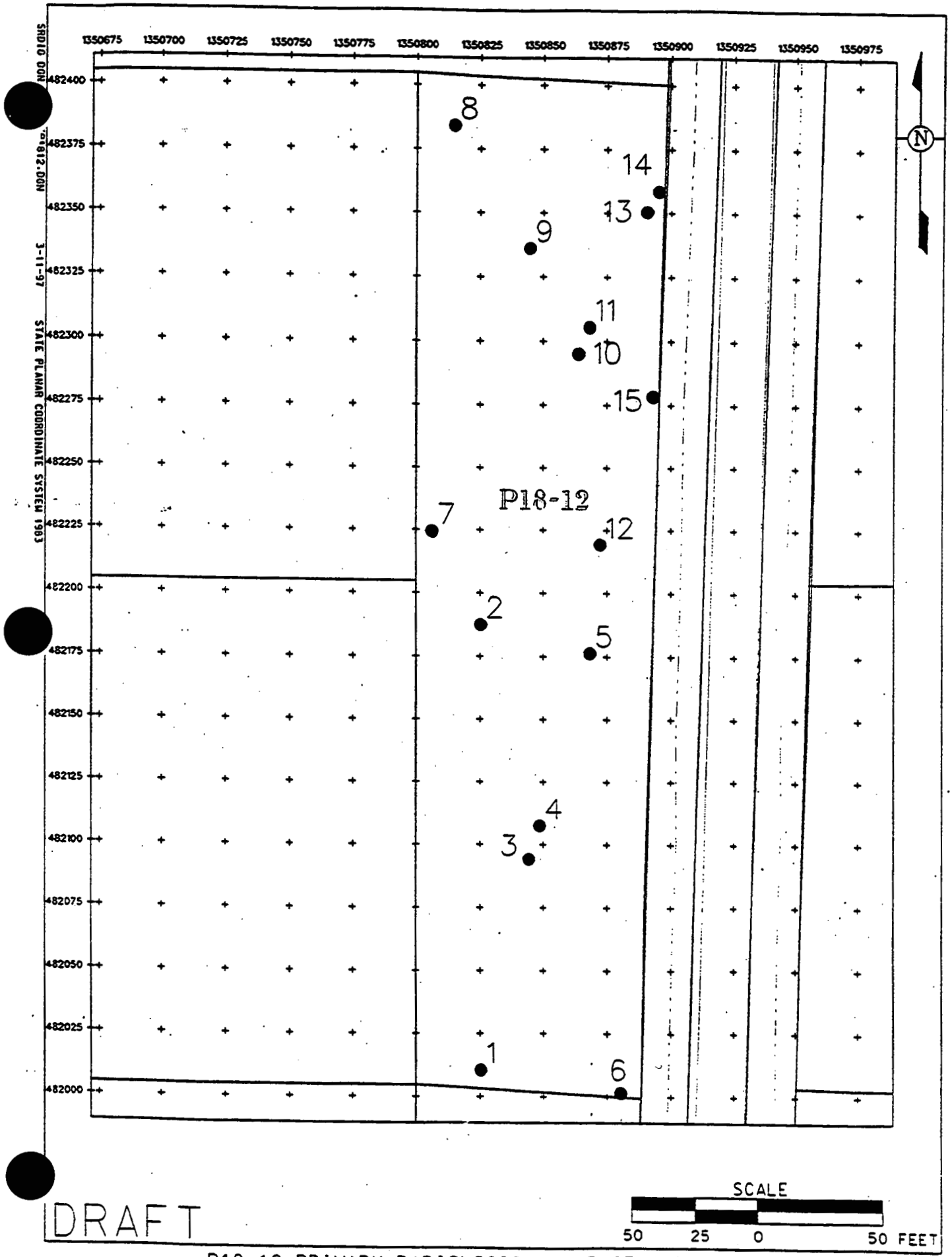
Certification Unit: P18-11 03:21 PM 26-May-98

Map	Sample ID	PRIMARY ASCOCs				
		Radium-226	Radium-228	Thorium-228	Thorium-232	Uranium, Total
1	P18-11C-608400	0.76 -	0.65 -	0.79 J	0.68 J	2.43 U
2	P18-11C-627216	0.85 -	0.75 -	0.79 J	0.99 J	9.00 -
3	P18-11C-696228	0.85 -	0.93 -	0.77 J	0.75 J	4.20 -
4	P18-11C-711283	1.00 -	1.20 -	1.20 J	1.20 J	18.59 -
5	P18-11C-712210	0.99 -	0.91 -	0.98 J	0.99 J	12.29 -
6	P18-11C-712303	0.91 -	1.00 -	0.97 J	0.99 J	6.60 -
7	P18-11C-721375	1.20 -	0.99 -	0.77 J	0.86 J	2.70 U
8	P18-11C-760289	0.85 -	1.00 -	1.60 J	1.40 J	9.90 -
9	P18-11C-783383	1.40 -	1.10 -	1.00 J	1.10 J	7.50 -
10	P18-11C-789320	1.00 -	0.99 -	0.89 J	0.88 J	2.88 U
11	P18-11C-798245	0.88 -	1.10 -	0.79 J	0.73 J	5.10 -
12	P18-11C2-1-R	1.10 -	1.10 -	1.10 -	0.89 -	3.30 J
	Method	**Gamma**	**Gamma**	**Alpha**	**Alpha**	**Gamma**
	FRL	**1.70**	**1.80**	**1.70**	**1.50**	**82.00**
	Units	pCi/g	pCi/g	pCi/g	pCi/g	ug/g
	Background UCL	1.22	1.10	1.12	1.08	3.30
	Background 95%	1.42	1.25	1.43	1.36	3.73
	Samples	12	12	12	12	12
	Hits	12	12	12	12	9
	Max	**1.40**	**1.20**	**1.60**	**1.40**	**18.59**
	Mean	0.98	0.98	0.97	0.96	6.71
	St.Dev.	0.18	0.15	0.24	0.21	5.18
	UCL	**1.08**	**1.06**	**1.10**	**1.06**	**9.39**
	t-Stat	13.85	18.49	10.38	9.13	50.32
	Prob.	0.0%	0.0%	0.0%	0.0%	0.0%
	Pass/Fail	**Pass**	**Pass**	**Pass**	**Pass**	**Pass**
	2 x (P/F)	**Pass**	**Pass**	**Pass**	**Pass**	**Pass**

NOTE: One half of the reported detection level was used in the calculations for results reported as below the detection limit (qualified with "U"). Duplicates were averaged before calculations were performed.

KEY

FRL - Final Remedial Level
Background UCL - Upper Confidence Level (95% one-sided) on the Mean Background concentration.
Background 95% - 95th Percentile of the background dataset.
Samples - Number of distinct sample locations in the analysis (see NOTE above).
Hits - Analyte positively detected in the sample.
Max - The maximum sample result.
Mean - The mean or average concentration. (See NOTE above).
St.Dev. - The standard deviation of the sample concentrations. (See NOTE above).
UCL - Upper Confidence Level (95% one-sided) on the Mean concentration.
t-Stat - The calculated t-statistic for the mean concentration compared to the FRL. (See the Certification Report).
Prob. - The probability (based on the t-Stat) that the true CU mean exceeds the FRL. Acceptable probability for primary COCs is 5% and 10% for seconday COCs.
Pass/Fail - Pass or Fail result from the t-Test based on "t-Stat" above. The associated probability is "Prob." above.
2 x (P/F) - Pass or Fail of the "No exceedances of twice the FRL" criteria.



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P18-12 PRIMARY RADIOLOGICAL MAP OF DATA POINTS

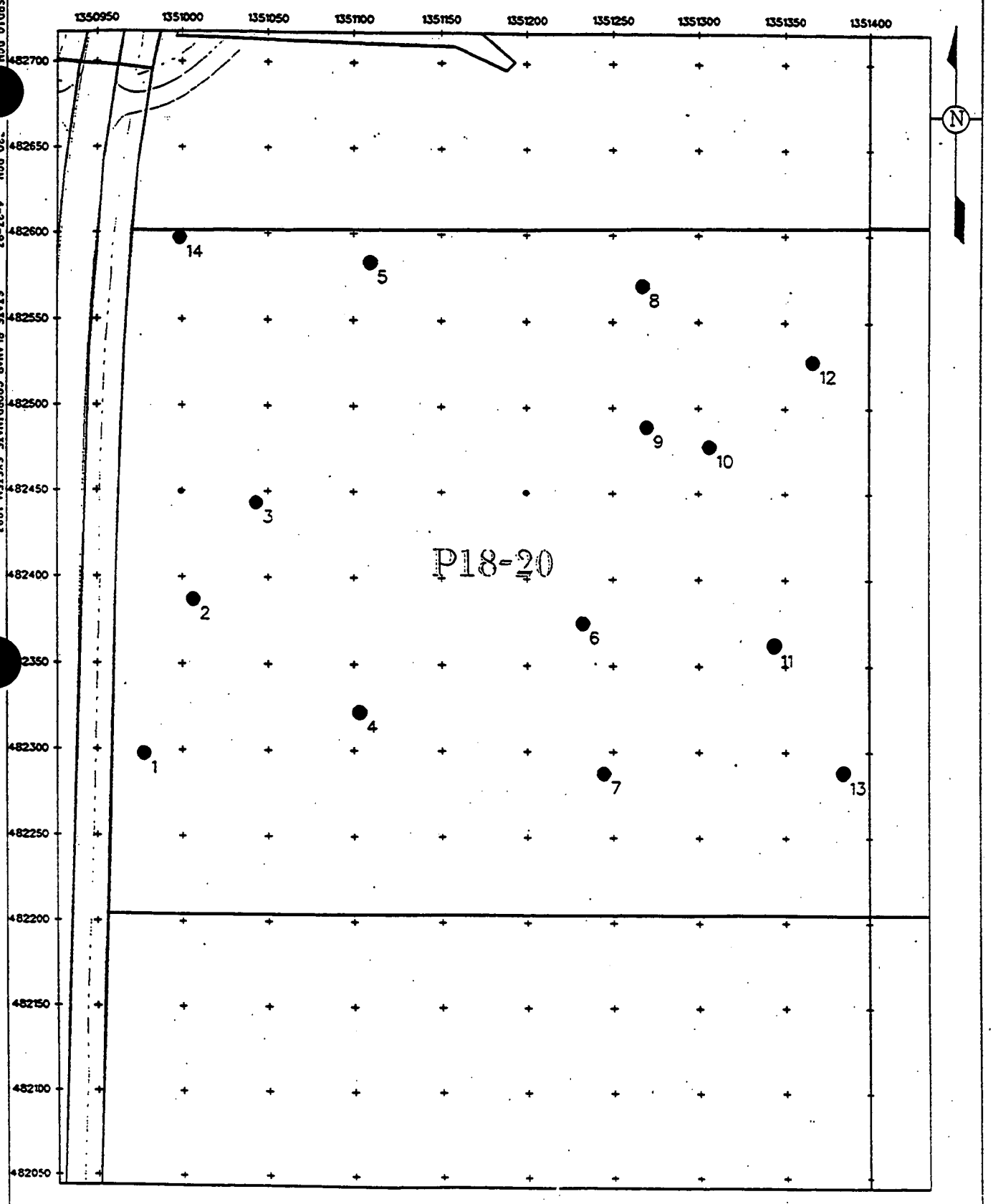
Certification Unit: P18-12 05:16 PM 06-May-98

Map	Sample ID	PRIMARY COCs Radium-226		Radium-226		Thorium-228		Uranium-234		Uranium-[illegible]	
1	P17-34C-825010	0.92	-	0.84	-	0.86	J	0.88	J	9.60	J
2	P17-34C-825187	0.77	-	0.63	-	1.08	-	0.76	-	7.04	J
3	P17-34C-844094	1.70	-	1.60	-	1.60	-	1.50	-	8.40	J
4	P17-34C-848107	1.33	-	1.51	-	1.28	-	1.43	-	14.69	U
5	P17-34C-868176	1.11	-	1.00	-	1.11	-	0.96	-	5.27	J
6	P17-34C-880001	1.20	-	1.20	-	1.10	-	1.20	-	7.50	J
7	P18-12C-806224	0.92	-	0.86	-	1.16	-	0.79	-	7.95	-
8	P18-12C-814384	1.70	J	1.40	-	1.30	-	1.30	-	14.69	-
9	P18-12C-844336	1.60	J	1.50	-	1.60	J	1.50	J	7.20	-
10	P18-12C-863295	1.13	-	1.43	-	1.38	-	1.38	-	5.53	J
11	P18-12C-868305	1.60	J	1.20	-	1.40	-	1.40	-	6.90	-
12	P18-12C-872219	2.00	J	1.60	-	1.40	-	1.40	-	6.00	-
13	P18-12C-890350	1.40	J	1.10	-	1.30	-	1.20	-	7.80	-
14	P18-12C-902358	1.30	J	1.10	-	0.99	J	1.20	J	4.80	-
15	P18-12C-903278	1.60	J	1.30	-	1.20	-	1.20	-	4.80	-
	Method	**Gamma**		**Gamma**		**Alpha**		**Alpha**		**Gamma**	
	FRL	**1.70**		**1.80**		**1.70**		**1.50**		**82.00**	
	Units	pCi/g		pCi/g		pCi/g		pCi/g		ug/g	
	Background UCL	1.22		1.10		1.12		1.08		3.30	
	Background 95%	1.42		1.25		1.43		1.36		3.73	
	Samples	15		15		15		15		15	
	Hits	15		15		15		15		14	
	Max	**2.00**		**1.60**		**1.60**		**1.50**		**14.69**	
	Mean	1.35		1.22		1.25		1.21		7.39	
	St.Dev.	0.35		0.30		0.21		0.25		2.44	
	UCL	**1.51**		**1.35**		**1.35**		**1.32**		**8.50**	
	t-Stat	3.87		7.59		8.31		4.53		118.38	
	Prob.	0.1%		0.0%		0.0%		0.0%		0.0%	
	Pass/Fail	**Pass**		**Pass**		**Pass**		**Pass**		**Pass**	
	2 x (P/F)	**Pass**		**Pass**		**Pass**		**Pass**		**Pass**	

NOTE: One half of the reported detection level was used in the calculations for results reported as below the detection limit (qualified with "U"). Duplicates were averaged before calculations were performed.

KEY

FRL - Final Remedial Level
Background UCL - Upper Confidence Level (95% one-sided) on the Mean Background concentration.
Background 95% - 95th Percentile of the background dataset.
Samples - Number of distinct sample locations in the analysis (see NOTE above).
Hits - Analyte positively detected in the sample.
Max - The maximum sample result.
Mean - The mean or average concentration. (See NOTE above).
St.Dev. - The standard deviation of the sample concentrations. (See NOTE above).
UCL - Upper Confidence Level (95% one-sided) on the Mean concentration.
t-Stat - The calculated t-statistic for the mean concentration compared to the FRL. (See the Certification Report).
Prob. - The probability (based on the t-Stat) that the true CU mean exceeds the FRL. Acceptable probability for primary COCs is 5% and 10% for seconday COCs.
Pass/Fail - Pass or Fail result from the t-Test based on "t-Stat" above. The associated probability is "Prob." above.
2 x (P/F) - Pass or Fail of the "No exceedances of twice the FRL" criteria.



P18-20 PRIMARY RADIOLOGICAL MAP OF DATA POINTS

Certification Unit: P18-20 04:28 PM 26-May-98

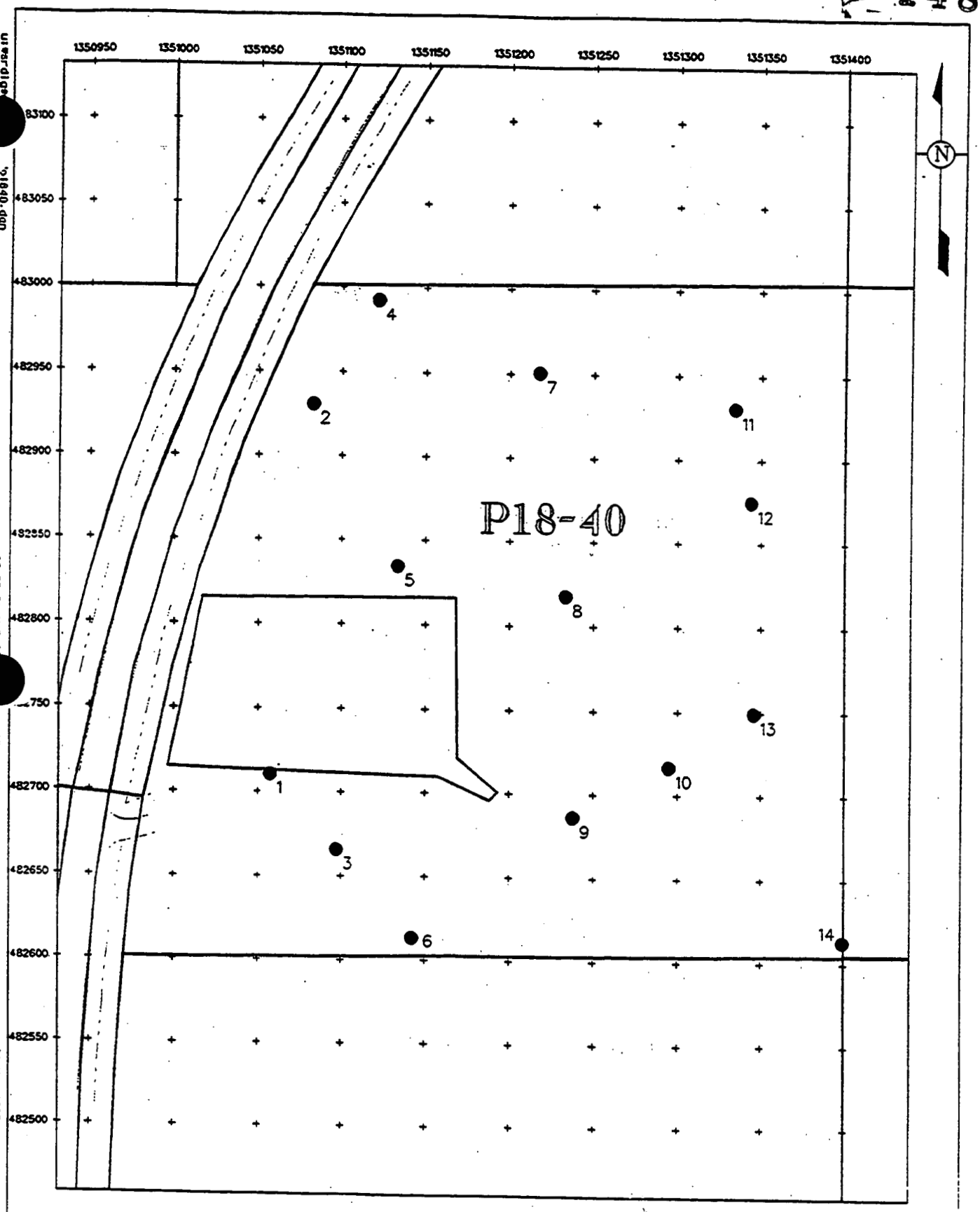
Map	Sample ID	PRIMARY ASCOCs									
		Radium-226		Radium-228		Thorium-228		Thorium-232		Uranium, Total	
1	P18-12C-977297	1.50	-	1.30	-	1.00	J	0.93	J	19.19	-
2	P18-20C-006387	1.10	-	0.94	-	0.95	-	0.93	-	9.90	-
3	P18-20C-043443	1.30	-	1.00	-	0.89	-	0.88	-	5.70	-
4	P18-20C-103322	1.20	-	1.20	-	1.30	-	1.10	-	15.59	-
5	P18-20C-109583	1.50	-	1.30	-	1.20	J	1.10	J	5.70	-
6	P18-20C-232374	0.88	-	1.40	-	1.26	J	1.27	J	9.00	U
6	P18-20C-232374-D	1.70	-	1.30	-	1.40	J	1.10	J	9.00	-
7	P18-20C-244287	1.20	-	1.20	-	0.96	-	0.99	-	6.60	-
8	P18-20C-267570	1.20	-	1.10	-	0.85	-	1.20	-	7.20	-
9	P18-20C-269488	1.10	-	1.30	-	1.40	-	1.40	-	10.50	-
10	P18-20C-306477	1.39	-	1.41	-	1.00	J	0.96	J	7.34	-
11	P18-20C-343361	1.40	-	1.30	-	1.10	-	1.30	-	3.30	J
12	P18-20C-366527	1.40	-	1.50	-	1.20	-	1.20	-	15.89	-
13	P18-20C-384287	1.40	-	1.30	-	1.20	-	1.00	-	12.89	-
14	P18C-998597	1.40	-	1.40	-	1.10	J	1.20	J	10.50	-

Method	Gamma	Gamma	Alpha	Alpha	Gamma
FRL	**1.70**	**1.80**	**1.70**	**1.50**	**82.00**
Units	pCi/g	pCi/g	pCi/g	pCi/g	ug/g
Background UCL	1.22	1.10	1.12	1.08	3.30
Background 95%	1.42	1.25	1.43	1.36	3.73
Samples	14	14	14	14	14
Hits	14	14	14	14	14
Max	**1.50**	**1.50**	**1.40**	**1.40**	**19.19**
Mean	1.31	1.26	1.11	1.10	9.79
St.Dev.	0.13	0.16	0.17	0.16	4.62
UCL	**1.38**	**1.33**	**1.19**	**1.17**	**11.98**
t-Stat	10.74	12.97	13.00	9.66	58.45
Prob.	0.0%	0.0%	0.0%	0.0%	0.0%
Pass/Fail	**Pass**	**Pass**	**Pass**	**Pass**	**Pass**
2 x (P/F)	**Pass**	**Pass**	**Pass**	**Pass**	**Pass**

NOTE: One half of the reported detection level was used in the calculations for results reported as below the detection limit (qualified with "U"). Duplicates were averaged before calculations were performed.

KEY

FRL - Final Remedial Level
Background UCL - Upper Confidence Level (95% one-sided) on the Mean Background concentration.
Background 95% - 95th Percentile of the background dataset.
Samples - Number of distinct sample locations in the analysis (see NOTE above).
Hits - Analyte positively detected in the sample.
Max - The maximum sample result.
Mean - The mean or average concentration. (See NOTE above).
St.Dev. - The standard deviation of the sample concentrations. (See NOTE above).
UCL - Upper Confidence Level (95% one-sided) on the Mean concentration.
t-Stat - The calculated t-statistic for the mean concentration compared to the FRL. (See the Certification Report).
Prob. - The probability (based on the t-Stat) that the true CU mean exceeds the FRL. Acceptable probability for primary COCs is 5% and 10% for seconday COCs.
Pass/Fail - Pass or Fail result from the t-Test based on "t-Stat" above. The associated probability is "Prob." above.
2 x (P/F) - Pass or Fail of the "No exceedances of twice the FRL" criteria.



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P18-40 PRIMARY RADIOLOGICAL MAP OF DATA POINTS

Certification Unit: P18-40 04:28 PM 06-May-98

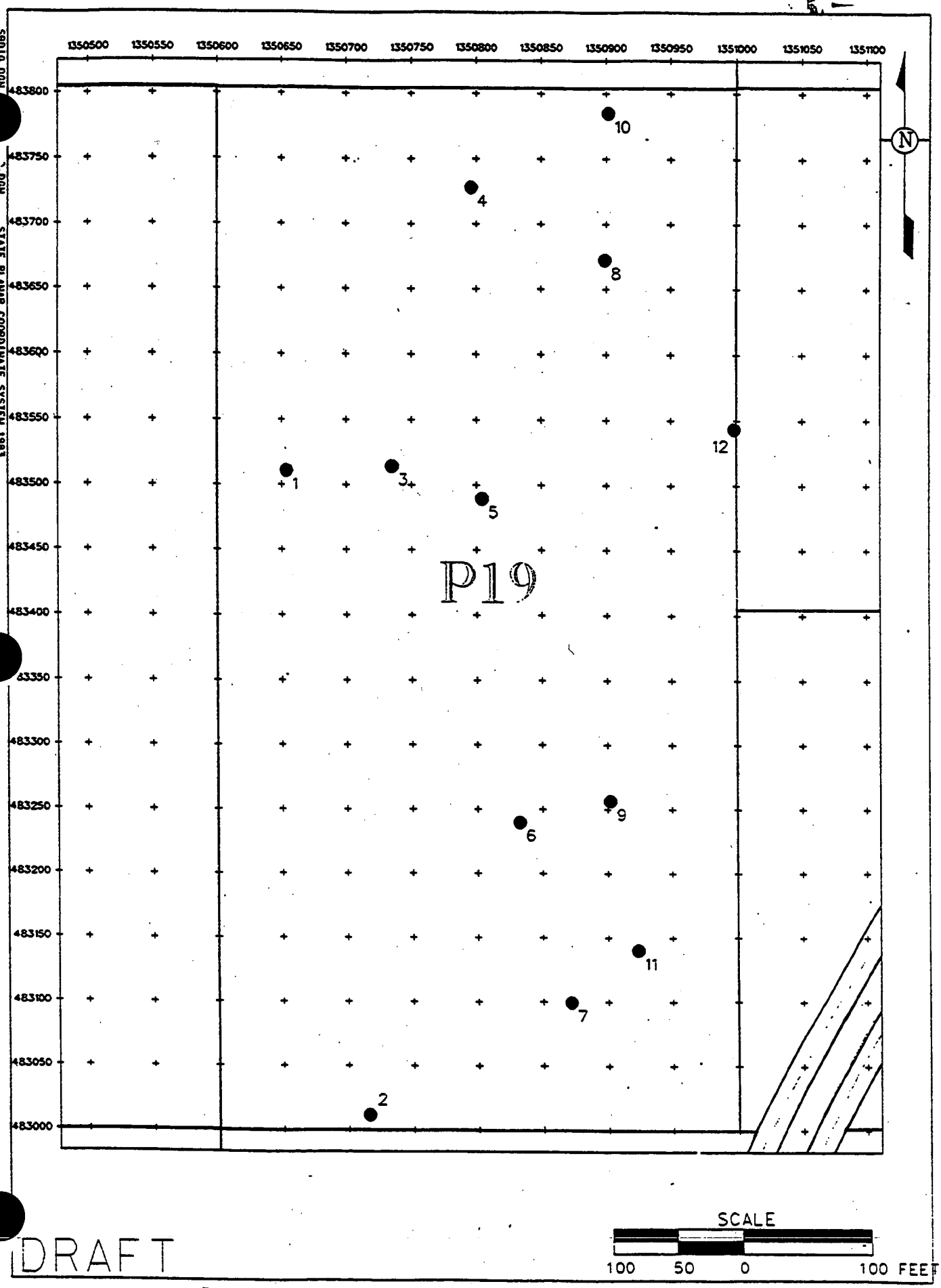
Map	Sample ID	Radium-226		Radium-228		Thorium-226		Thorium-232		Uranium-238	
1	P18-40C-057710	1.06	-	1.13	-	1.29	-	1.04	-	11.90	-
2	P18-40C-082930	0.91	-	1.18	-	1.09	-	0.97	-	10.20	U
3	P18-40C-097665	1.20	-	1.30	-	1.10	J	1.00	J	7.20	-
4	P18-40C-121992	1.29	-	1.08	-	1.40	-	1.15	-	2.67	J
5	P18-40C-133834	1.74	-	1.63	-	1.03	J	0.90	J	22.22	J
6	P18-40C-142613	1.30	-	1.10	-	1.10	J	1.00	J	2.82	U
7	P18-40C-217950	1.04	-	1.39	-	1.15	J	0.99	J	11.10	U
8	P18-40C-233817	1.81	-	1.32	-	1.13	-	1.17	-	36.88	-
8	P18-40C-233817-D	1.45	-	0.88	J	1.11	-	1.16	-	30.89	-
9	P18-40C-238686	1.30	-	1.20	-	1.70	J	1.40	J	9.60	-
10	P18-40C-294716	1.79	-	1.62	-	1.22	-	1.23	-	41.38	-
11	P18-40C-333930	1.55	-	1.24	-	1.58	-	1.29	-	4.43	J
12	P18-40C-343874	1.06	-	1.03	-	1.08	-	1.16	-	9.60	U
13	P18-40C-345749	1.38	-	1.04	J	0.82	J	0.76	J	10.50	U
14	P18-40C-399613	1.26	-	1.20	-	1.81	-	1.39	-	7.02	-

Method	Gamma	Gamma	Alpha	Alpha	Gamma
FRL	**1.70**	**1.80**	**1.70**	**1.50**	**82.00**
Units	pCi/g	pCi/g	pCi/g	pCi/g	ug/g
Background UCL	1.22	1.10	1.12	1.08	3.30
Background 95%	1.42	1.25	1.43	1.36	3.73
Samples	14	14	14	14	14
Hits	14	14	14	14	9
Max	**1.79**	**1.63**	**1.81**	**1.40**	**41.38**
Mean	1.32	1.23	1.25	1.10	11.60
St.Dev.	0.27	0.19	0.28	0.19	12.22
UCL	**1.45**	**1.32**	**1.38**	**1.19**	**17.38**
t-Stat	5.22	10.96	6.05	8.01	21.56
Prob.	0.0%	0.0%	0.0%	0.0%	0.0%
Pass/Fail	**Pass**	**Pass**	**Pass**	**Pass**	**Pass**
2 x (P/F)	**Pass**	**Pass**	**Pass**	**Pass**	**Pass**

NOTE: One half of the reported detection level was used in the calculations for results reported as below the detection limit (qualified with "U"). Duplicates were averaged before calculations were performed.

KEY

FRL - Final Remedial Level
Background UCL - Upper Confidence Level (95% one-sided) on the Mean Background concentration.
Background 95% - 95th Percentile of the background dataset.
Samples - Number of distinct sample locations in the analysis (see NOTE above).
Hits - Analyte positively detected in the sample.
Max - The maximum sample result.
Mean - The mean or average concentration. (See NOTE above).
St.Dev. - The standard deviation of the sample concentrations. (See NOTE above).
UCL - Upper Confidence Level (95% one-sided) on the Mean concentration.
t-Stat - The calculated t-statistic for the mean concentration compared to the FRL. (See the Certification Report).
Prob. - The probability (based on the t-Stat) that the true CU mean exceeds the FRL. Acceptable probability for primary COCs is 5% and 10% for seconday COCs.
Pass/Fail - Pass or Fail result from the t-Test based on "t-Stat" above. The associated probability is "Prob." above.
2 x (P/F) - Pass or Fail of the "No exceedances of twice the FRL" criteria.



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P19 PRIMARY RADIOLOGICAL MAP OF DATA POINTS

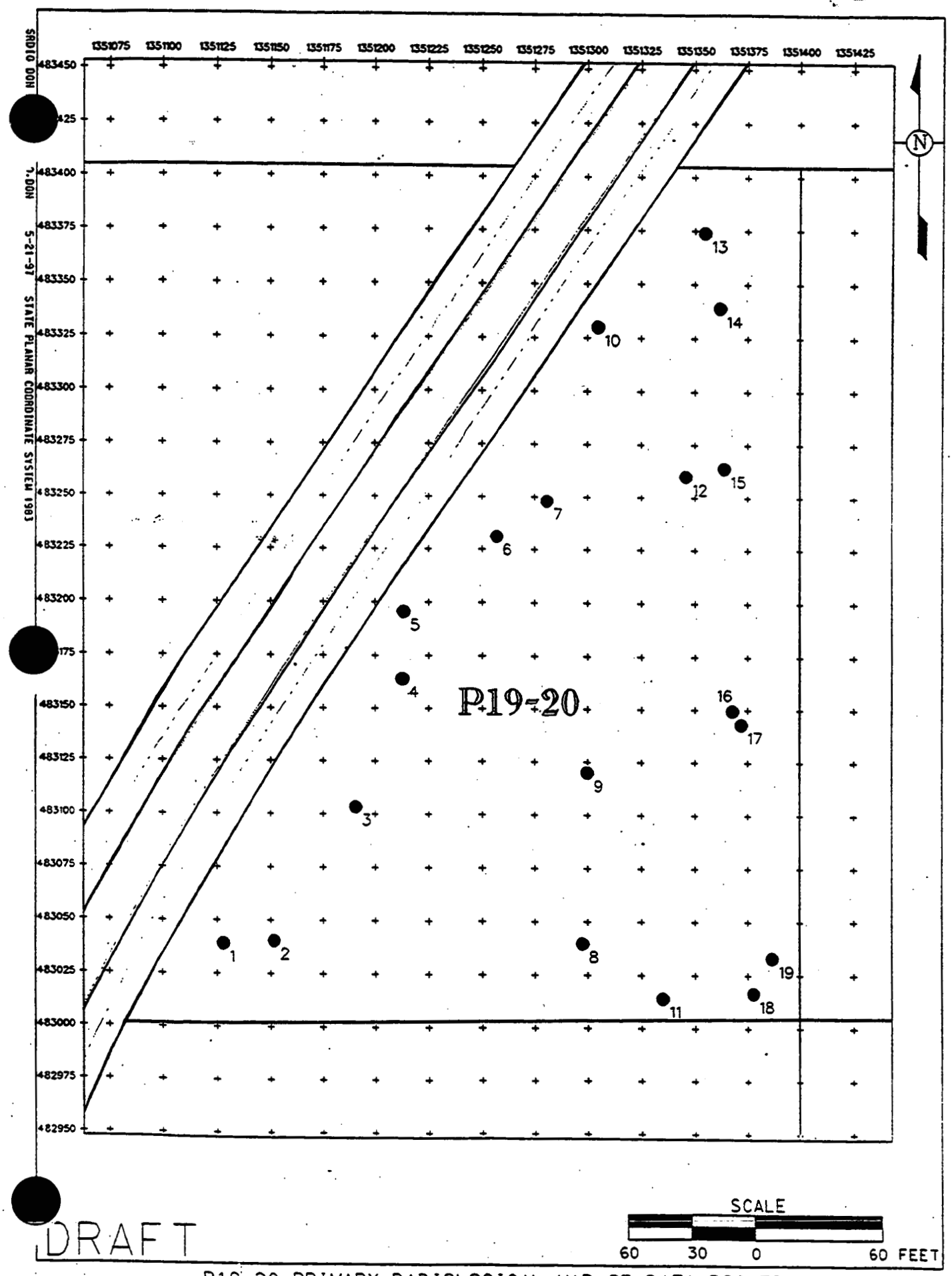
Certification Unit: P19 05:12 PM 06-May-98

Map	Sample ID	PRIMARY COCs: Radium-226		Radium-228		Thorium-232		Uranium-234		Uranium-238	
1	P19C-653510	1.08	-	1.21	-	1.58	-	1.09	-	19.37	-
2	P19C-716011	1.02	-	1.33	-	1.42	-	1.16	-	17.86	-
3	P19C-734514	1.02	-	1.14	-	1.56	-	1.07	-	23.21	-
4	P19C-796728	1.13	-	1.27	-	1.39	-	1.62	-	23.62	-
5	P19C-804489	0.91	-	1.22	-	1.28	-	0.88	-	23.47	-
6	P19C-832239	1.07	-	1.26	-	1.12	-	0.96	-	38.11	-
7	P19C-871099	1.21	-	1.33	-	0.99	J	1.13	J	18.50	-
8	P19C-899672	0.96	-	1.21	-	1.44	-	1.10	-	21.02	-
9	P19C-902256	1.16	-	0.97	-	1.21	-	1.13	-	20.21	-
10	P19C-902785	0.98	-	1.26	-	1.42	-	1.24	-	17.97	-
11	P19C-923140	1.15	-	1.23	-	1.30	-	0.98	-	28.93	-
12	P19C-998543	1.08	-	1.20	-	1.53	-	1.06	-	24.23	-
	Method	**Gamma**		**Gamma**		**Alpha**		**Alpha**		**Gamma**	
	FRL	**1.70**		**1.80**		**1.70**		**1.50**		**82.00**	
	Units	pCi/g		pCi/g		pCi/g		pCi/g		ug/g	
	Background UCL	1.22		1.10		1.12		1.08		3.30	
	Background 95%	1.42		1.25		1.43		1.36		3.73	
	Samples	12		12		12		12		12	
	Hits	12		12		12		12		12	
	Max	**1.21**		**1.33**		**1.58**		**1.62**		**38.11**	
	Mean	1.07		1.22		1.35		1.12		23.04	
	St.Dev.	0.09		0.10		0.18		0.19		5.74	
	UCL	**1.11**		**1.27**		**1.45**		**1.21**		**26.02**	
	t-Stat	24.54		21.14		6.66		7.13		35.58	
	Prob.	0.0%		0.0%		0.0%		0.0%		0.0%	
	Pass/Fail	**Pass**		**Pass**		**Pass**		**Pass**		**Pass**	
	2 x (P/F)	**Pass**		**Pass**		**Pass**		**Pass**		**Pass**	

NOTE: One half of the reported detection level was used in the calculations for results reported as below the detection limit (qualified with "U"). Duplicates were averaged before calculations were performed.

KEY

FRL - Final Remedial Level
Background UCL - Upper Confidence Level (95% one-sided) on the Mean Background concentration.
Background 95% - 95th Percentile of the background dataset.
Samples - Number of distinct sample locations in the analysis (see NOTE above).
Hits - Analyte positively detected in the sample.
Max - The maximum sample result.
Mean - The mean or average concentration. (See NOTE above).
St.Dev. - The standard deviation of the sample concentrations. (See NOTE above).
UCL - Upper Confidence Level (95% one-sided) on the Mean concentration.
t-Stat - The calculated t-statistic for the mean concentration compared to the FRL. (See the Certification Report).
Prob. - The probability (based on the t-Stat) that the true CU mean exceeds the FRL. Acceptable probability for primary COCs is 5% and 10% for seconday COCs.
Pass/Fail - Pass or Fail result from the t-Test based on "t-Stat" above. The associated probability is "Prob." above.
2 x (P/F) - Pass or Fail of the "No exceedances of twice the FRL" criteria.



P19-20 PRIMARY RADIOLOGICAL MAP OF DATA POINTS

Certification Unit: P19-20 04:26 PM 06-May-98

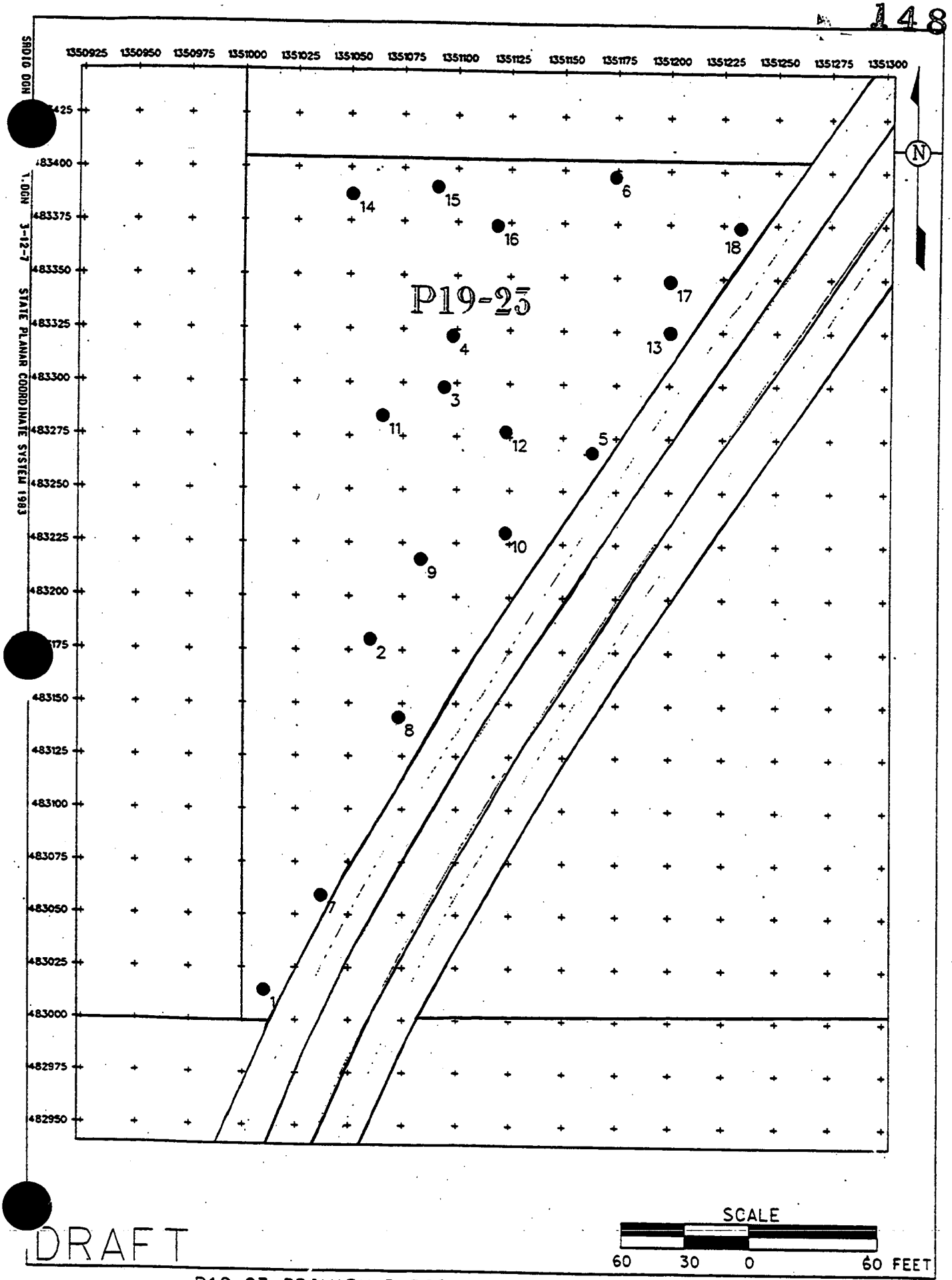
Map	Sample ID	PRIMARY COC Radium-226		Radium-228		Thorium-228		Thorium-232		Uranium-238	
1	P19-20C-1-R	1.00	-	1.00	-	0.90	J	1.00	-	10.80	-
1	P19-20C-1-R-D	0.95	-	0.97	-	0.97	J	1.18	-	9.90	-
2	P19-20C-151040	1.18	-	0.74	J	1.12	-	1.04	-	13.79	U
3	P19-20C-190103	1.44	-	1.30	-	1.36	-	1.24	-	17.09	U
4	P19-20C-6-R	1.30	-	1.30	-	1.29	J	1.03	-	11.10	-
5	P19-20C-213195	1.30	-	1.06	-	1.19	-	1.11	-	11.99	U
6	P19-20C-10-R	1.30	-	1.20	-	1.15	J	1.11	-	7.80	J
7	P19-20C-11-R	1.20	-	1.30	-	1.08	J	1.11	-	9.00	J
8	P19-20C-297039	1.06	-	0.91	-	1.03	-	1.02	-	13.19	U
9	P19-20C-8-R	1.10	-	0.96	-	1.21	J	0.89	-	9.60	J
10	P19-20C-14-R	1.20	-	1.20	-	1.21	J	1.05	-	3.30	J
11	P19-20C-4-R	0.98	-	1.10	-	0.91	J	1.10	-	9.30	J
12	P19-20C-12-R	1.10	-	1.00	-	1.30	J	1.10	-	10.80	J
13	P19-20C-15-R	1.10	-	1.10	-	1.39	J	1.07	-	4.50	J
14	P19-20C-16-R	1.46	-	1.40	-	1.63	-	1.27	-	2.88	-
15	P19-20C-13-R	1.20	-	1.10	-	1.15	J	0.94	-	18.29	-
16	P19-20C-367150	1.14	-	1.29	-	1.18	-	1.30	-	32.08	-
17	P19-20C-9-R	1.00	-	0.85	-	0.75	J	1.01	-	17.39	-
18	P19-20C-377016	1.18	-	1.40	-	1.12	-	1.13	-	11.10	U
19	P19-20C-5-R	1.10	-	1.10	-	1.01	J	1.20	-	4.50	J

Method	Gamma	Gamma	Alpha	Alpha	Gamma
FRL	**1.70**	**1.80**	**1.70**	**1.50**	**82.00**
Units	pCi/g	pCi/g	pCi/g	pCi/g	ug/g
Background UCL	1.22	1.10	1.12	1.08	3.30
Background 95%	1.42	1.25	1.43	1.36	3.73
Samples	19	19	19	19	19
Hits	19	19	19	19	14
Max	**1.46**	**1.40**	**1.63**	**1.30**	**32.08**
Mean	1.17	1.12	1.16	1.09	9.71
St.Dev.	0.14	0.18	0.19	0.10	6.80
UCL	**1.23**	**1.19**	**1.24**	**1.14**	**12.41**
t-Stat	16.48	16.03	12.11	16.93	46.31
Prob.	0.0%	0.0%	0.0%	0.0%	0.0%
Pass/Fail	**Pass**	**Pass**	**Pass**	**Pass**	**Pass**
2 x (P/F)	**Pass**	**Pass**	**Pass**	**Pass**	**Pass**

NOTE: One half of the reported detection level was used in the calculations for results reported as below the detection limit (qualified with "U"). Duplicates were averaged before calculations were performed.

KEY

FRL - Final Remedial Level
Background UCL - Upper Confidence Level (95% one-sided) on the Mean Background concentration.
Background 95% - 95th Percentile of the background dataset.
Samples - Number of distinct sample locations in the analysis (see NOTE above).
Hits - Analyte positively detected in the sample.
Max - The maximum sample result.
Mean - The mean or average concentration. (See NOTE above).
St.Dev. - The standard deviation of the sample concentrations. (See NOTE above).
UCL - Upper Confidence Level (95% one-sided) on the Mean concentration.
t-Stat - The calculated t-statistic for the mean concentration compared to the FRL. (See the Certification Report).
Prob. - The probability (based on the t-Stat) that the true CU mean exceeds the FRL. Acceptable probability for primary COCs is 5% and 10% for seconday COCs.
Pass/Fail - Pass or Fail result from the t-Test based on "t-Stat" above. The associated probability is "Prob." above.
2 x (P/F) - Pass or Fail of the "No exceedances of twice the FRL" criteria.



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P19-23 PRIMARY RADIOLOGICAL MAP OF DATA POINTS

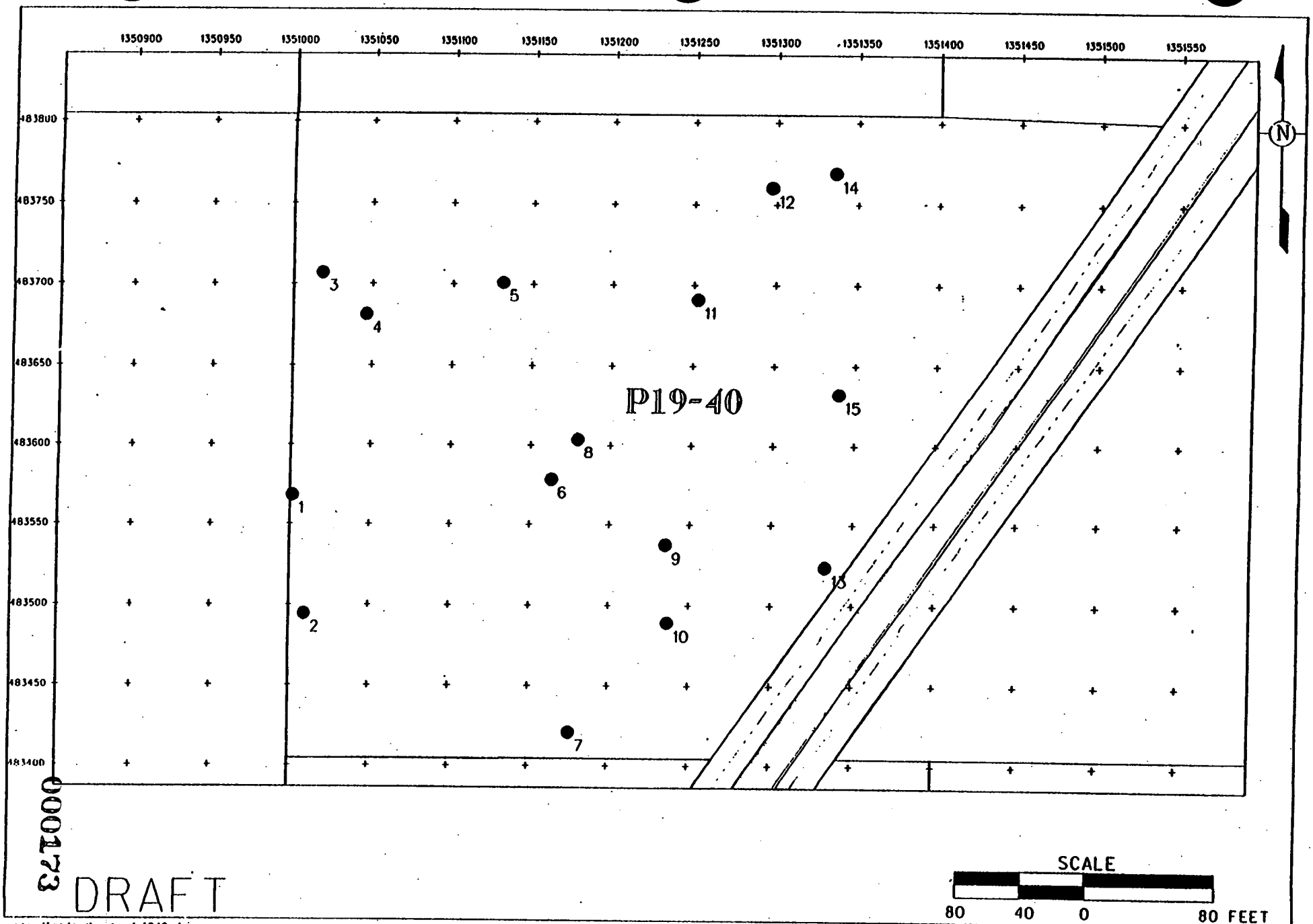
Certification Unit: P19-23 04:19 PM 06-May-98

Map	Sample ID	PRIMARY/ASCOC				
		Radium-226	Radium-228	Thorium-228	Thorium-232	Uranium-Nat
1	P19-20C-010014	1.33 -	1.03 J	1.34 -	1.41 J	14.64 J
2	P19-20C-060180	0.83 -	1.57 -	1.33 -	1.25 J	40.54 -
3	P19-20C-094298	0.64 -	1.07 -	1.26 J	1.25 J	23.46 -
4	P19-20C-098322	0.69 -	0.96 -	1.15 -	1.22 J	22.39 -
5	P19-20C-163268	1.07 -	1.81 -	1.26 -	1.20 J	18.59 U
6	P19-20C-174397	1.37 -	1.61 -	1.25 -	1.29 J	38.26 -
7	P19-23C-1-R	1.60 -	1.20 -	1.20 J	0.94 J	11.99 -
8	P19-23C-3-R	1.60 -	1.30 -	1.40 J	1.20 J	10.80 -
9	P19-23C-6-R	1.60 -	1.30 -	1.30 -	1.30 -	22.19 J
9	P19-23C-6-R-D	1.60 -	1.25 -	1.40 -	1.40 -	15.59 J
10	P19-23C-7-R	1.50 -	1.45 -	1.40 J	1.40 J	11.69 -
11	P19-23C-9-R	1.60 -	1.60 -	1.50 J	1.40 J	23.69 -
12	P19-23C-10-R	1.60 -	1.40 -	1.30 -	1.10 -	10.80 -
13	P19-23C-11-R	1.30 -	1.30 -	1.40 J	1.30 J	19.79 -
14	P19-23C-12-R	1.60 -	1.30 -	1.40 J	1.20 J	9.30 -
15	P19-23C-13-R	1.40 -	1.40 -	1.60 -	1.50 -	15.59 -
16	P19-23C-14-R	1.40 -	1.45 -	1.50 J	1.20 J	15.89 -
17	P19-23C-15-R	1.30 -	1.30 -	1.20 -	1.20 -	23.39 -
18	P19-23C-16-R	1.60 -	1.40 -	1.30 J	1.20 J	8.40 -
	Method	**Gamma**	**Gamma**	**Alpha**	**Alpha**	**Gamma**
	FRL	**1.70**	**1.80**	**1.70**	**1.50**	**82.00**
	Units	pCi/g	pCi/g	pCi/g	pCi/g	ug/g
	Background UCL	1.22	1.10	1.12	1.08	3.30
	Background 95%	1.42	1.25	1.43	1.36	3.73
	Samples	18	18	18	18	18
	Hits	18	18	18	18	17
	Max	**1.60**	**1.81**	**1.60**	**1.50**	**40.54**
	Mean	1.34	1.36	1.34	1.26	18.27
	St.Dev.	0.32	0.22	0.12	0.13	9.32
	UCL	**1.47**	**1.45**	**1.39**	**1.31**	**22.09**
	t-Stat	4.82	8.72	13.03	8.05	29.01
	Prob.	0.0%	0.0%	0.0%	0.0%	0.0%
	Pass/Fail	**Pass**	**Pass**	**Pass**	**Pass**	**Pass**
	2 x (P/F)	**Pass**	**Pass**	**Pass**	**Pass**	**Pass**

NOTE: One half of the reported detection level was used in the calculations for results reported as below the detection limit (qualified with "U"). Duplicates were averaged before calculations were performed.

KEY

FRL - Final Remedial Level
Background UCL - Upper Confidence Level (95% one-sided) on the Mean Background concentration.
Background 95% - 95th Percentile of the background dataset.
Samples - Number of distinct sample locations in the analysis (see NOTE above).
Hits - Analyte positively detected in the sample.
Max - The maximum sample result.
Mean - The mean or average concentration. (See NOTE above).
St.Dev. - The standard deviation of the sample concentrations. (See NOTE above).
UCL - Upper Confidence Level (95% one-sided) on the Mean concentration.
t-Stat - The calculated t-statistic for the mean concentration compared to the FRL. (See the Certification Report).
Prob. - The probability (based on the t-Stat) that the true CU mean exceeds the FRL. Acceptable probability for primary COCs is 5% and 10% for seconday COCs.
Pass/Fail - Pass or Fail result from the t-Test based on "t-Stat" above. The associated probability is "Prob." above.
2 x (P/F) - Pass or Fail of the "No exceedances of twice the FRL" criteria.



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P19-40 PRIMARY RADIOLOGICAL MAP OF DATA POINTS

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F-1480

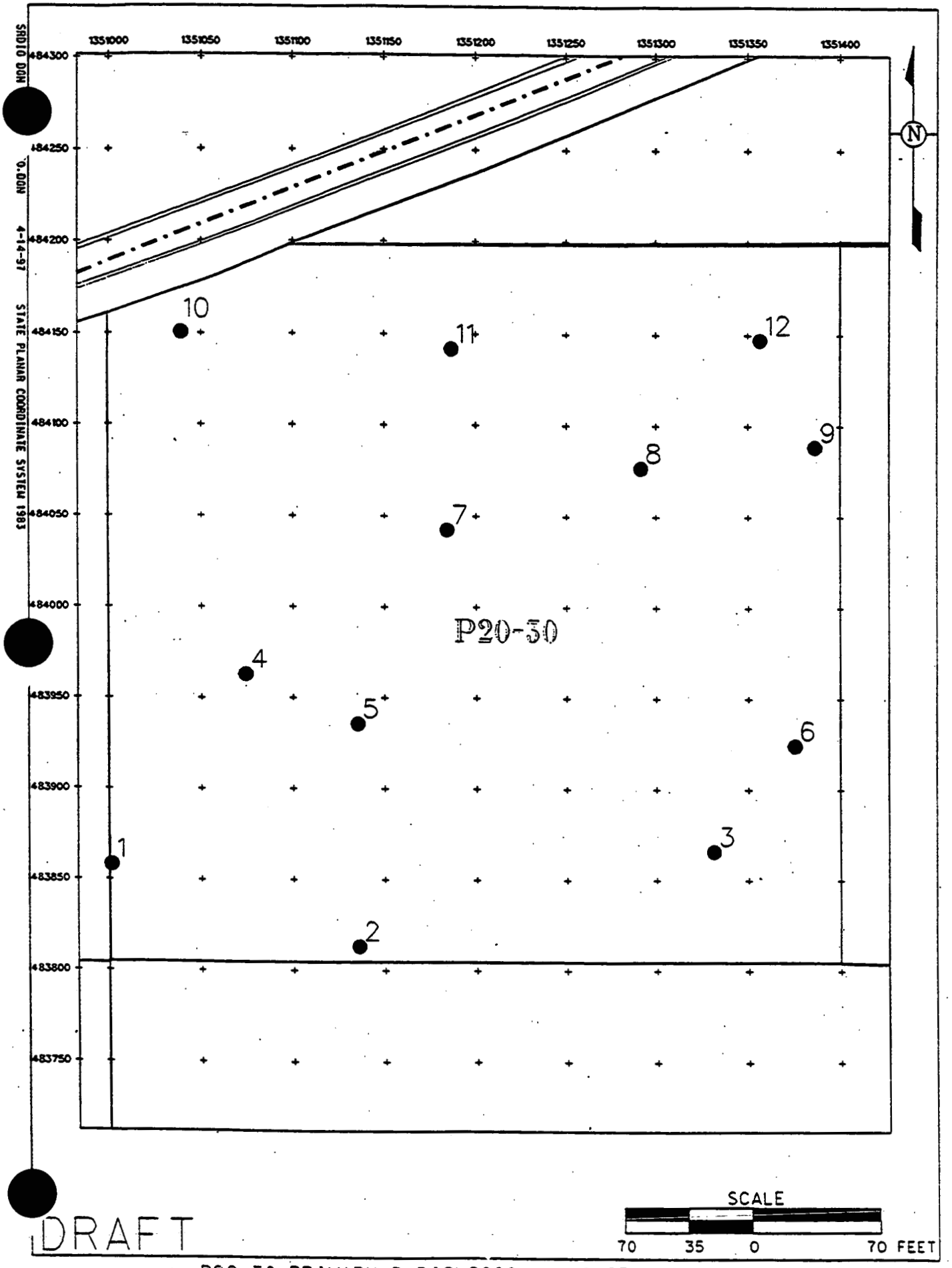
Certification Unit: P19-40 04:27 PM 06-May-98

		PRIMARY ASSOC.				
Mbr	Sample ID	Radium-226	Radium-228	Thorium-228	Thorium-232	Uranium-238
1	P19-40C-001567	0.96 -	1.13 -	1.23 -	1.16 -	19.37 -
2	P19-40C-009494	1.03 -	1.18 -	1.36 -	0.92 -	17.30 -
3	P19-40C-018707	1.15 -	1.40 -	1.04 J	1.10 J	27.33 -
4	P19-40C-046680	0.89 -	1.16 -	0.97 J	0.95 J	16.11 -
5	P19-40C-131701	1.39 -	1.50 -	1.21 J	1.14 J	13.58 J
6	P19-40C-163578	0.92 -	1.17 -	1.54 -	0.95 -	7.04 J
7	P19-40C-176421	1.07 -	1.17 -	1.35 -	1.07 -	21.15 -
8	P19-40C-179603	0.91 -	1.15 -	1.31 -	1.04 -	17.20 -
9	P19-40C-235537	1.07 -	1.17 -	1.06 -	1.28 -	24.22 -
10	P19-40C-237489	0.69 -	0.61 -	1.02 J	1.22 J	9.18 J
11	P19-40C-252690	1.02 -	1.18 -	1.22 -	1.05 -	22.53 -
12	P19-40C-297760	0.99 -	1.27 -	0.82 -	0.74 -	24.57 -
13	P19-40C-333523	1.17 -	1.27 -	1.45 -	1.00 -	22.42 -
14	P19-40C-336769	0.99 -	1.12 -	1.45 -	1.16 -	19.09 -
15	P19-40C-340632	1.18 -	1.04 -	1.15 J	1.13 J	18.50 -
	Method	**Gamma**	**Gamma**	**Alpha**	**Alpha**	**Gamma**
	FRL	**1.70**	**1.80**	**1.70**	**1.50**	**82.00**
	Units	pCi/g	pCi/g	pCi/g	pCi/g	ug/g
	Background UCL	1.22	1.10	1.12	1.08	3.30
	Background 95%	1.42	1.25	1.43	1.36	3.73
	Samples	15	15	15	15	15
	Hits	15	15	15	15	15
	Max	**1.39**	**1.50**	**1.54**	**1.28**	**27.33**
	Mean	1.03	1.17	1.21	1.06	18.64
	St.Dev.	0.16	0.19	0.20	0.13	5.59
	UCL	**1.10**	**1.26**	**1.30**	**1.12**	**21.18**
	t-Stat	16.23	12.81	9.32	12.60	43.86
	Prob.	0.0%	0.0%	0.0%	0.0%	0.0%
	Pass/Fail	**Pass**	**Pass**	**Pass**	**Pass**	**Pass**
	2 x (P/F)	**Pass**	**Pass**	**Pass**	**Pass**	**Pass**

NOTE: One half of the reported detection level was used in the calculations for results reported as below the detection limit (qualified with "U"). Duplicates were averaged before calculations were performed.

KEY

FRL - Final Remedial Level
Background UCL - Upper Confidence Level (95% one-sided) on the Mean Background concentration.
Background 95% - 95th Percentile of the background dataset.
Samples - Number of distinct sample locations in the analysis (see NOTE above).
Hits - Analyte positively detected in the sample.
Max - The maximum sample result.
Mean - The mean or average concentration. (See NOTE above).
St.Dev. - The standard deviation of the sample concentrations. (See NOTE above).
UCL - Upper Confidence Level (95% one-sided) on the Mean concentration.
t-Stat - The calculated t-statistic for the mean concentration compared to the FRL. (See the Certification Report).
Prob. - The probability (based on the t-Stat) that the true CU mean exceeds the FRL. Acceptable probability for primary COCs is 5% and 10% for seconday COCs.
Pass/Fail - Pass or Fail result from the t-Test based on "t-Stat" above. The associated probability is "Prob." above.
2 x (P/F) - Pass or Fail of the "No exceedances of twice the FRL" criteria.



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P20-30 PRIMARY RADIOLOGICAL MAP OF DATA POINTS

Certification Unit: P20-30 04:34 PM 06-May-98

Map	Sample ID	PRIMARY ASCO Radium-226		Radium-228		Thorium-228		Thorium-232		Uranium-238	
1	P20-20C-1-R	0.97	-	1.22	-	1.24	-	1.06	-	20.02	-
2	P20-20C-2-R	1.16	-	1.30	-	0.91	-	0.93	-	19.27	-
3	P20-20C-4-R	1.66	-	2.05	-	1.41	J	1.32	-	23.31	J
4	P20-20C-5-R	1.02	-	1.26	-	1.09	J	1.01	J	18.95	-
5	P20-20C-6-R	1.01	-	1.11	-	1.32	-	1.01	-	25.42	-
6	P20-20C-8-R	1.05	-	1.07	-	1.58	-	1.17	-	20.48	-
7	P20-20C-10-R	1.11	-	1.28	-	1.85	-	1.18	-	23.84	-
8	P20-20C-11-R	0.97	-	1.18	-	1.23	-	1.13	-	17.01	-
9	P20-20C-12-R	1.22	-	2.21	-	1.42	J	1.42	-	22.23	-
10	P20-20C-13-R	0.82	-	1.16	-	1.16	J	1.09	J	26.88	-
11	P20-20C-14-R	0.92	-	1.23	-	1.16	J	1.10	J	16.52	-
12	P20-20C-16-R	1.06	-	1.20	-	1.27	-	1.18	-	18.59	-
	Method	**Gamma**		**Gamma**		**Alpha**		**Alpha**		**Gamma**	
	FRL	**1.70**		**1.80**		**1.70**		**1.50**		**82.00**	
	Units	pCi/g		pCi/g		pCi/g		pCi/g		ug/g	
	Background UCL	1.22		1.10		1.12		1.08		3.30	
	Background 95%	1.42		1.25		1.43		1.36		3.73	
	Samples	12		12		12		12		12	
	Hits	12		12		12		12		12	
	Max	**1.66**		**2.21**		**1.85**		**1.42**		**26.88**	
	Mean	1.08		1.36		1.30		1.13		21.04	
	St.Dev.	0.21		0.37		0.24		0.14		3.29	
	UCL	**1.19**		**1.55**		**1.43**		**1.20**		**22.75**	
	t-Stat	10.11		4.16		5.63		9.28		64.14	
	Prob.	0.0%		0.1%		0.0%		0.0%		0.0%	
	Pass/Fail	**Pass**		**Pass**		**Pass**		**Pass**		**Pass**	
	2 x (P/F)	**Pass**		**Pass**		**Pass**		**Pass**		**Pass**	

NOTE: One half of the reported detection level was used in the calculations for results reported as below the detection limit (qualified with "U"). Duplicates were averaged before calculations were performed.

KEY

FRL - Final Remedial Level
Background UCL - Upper Confidence Level (95% one-sided) on the Mean Background concentration.
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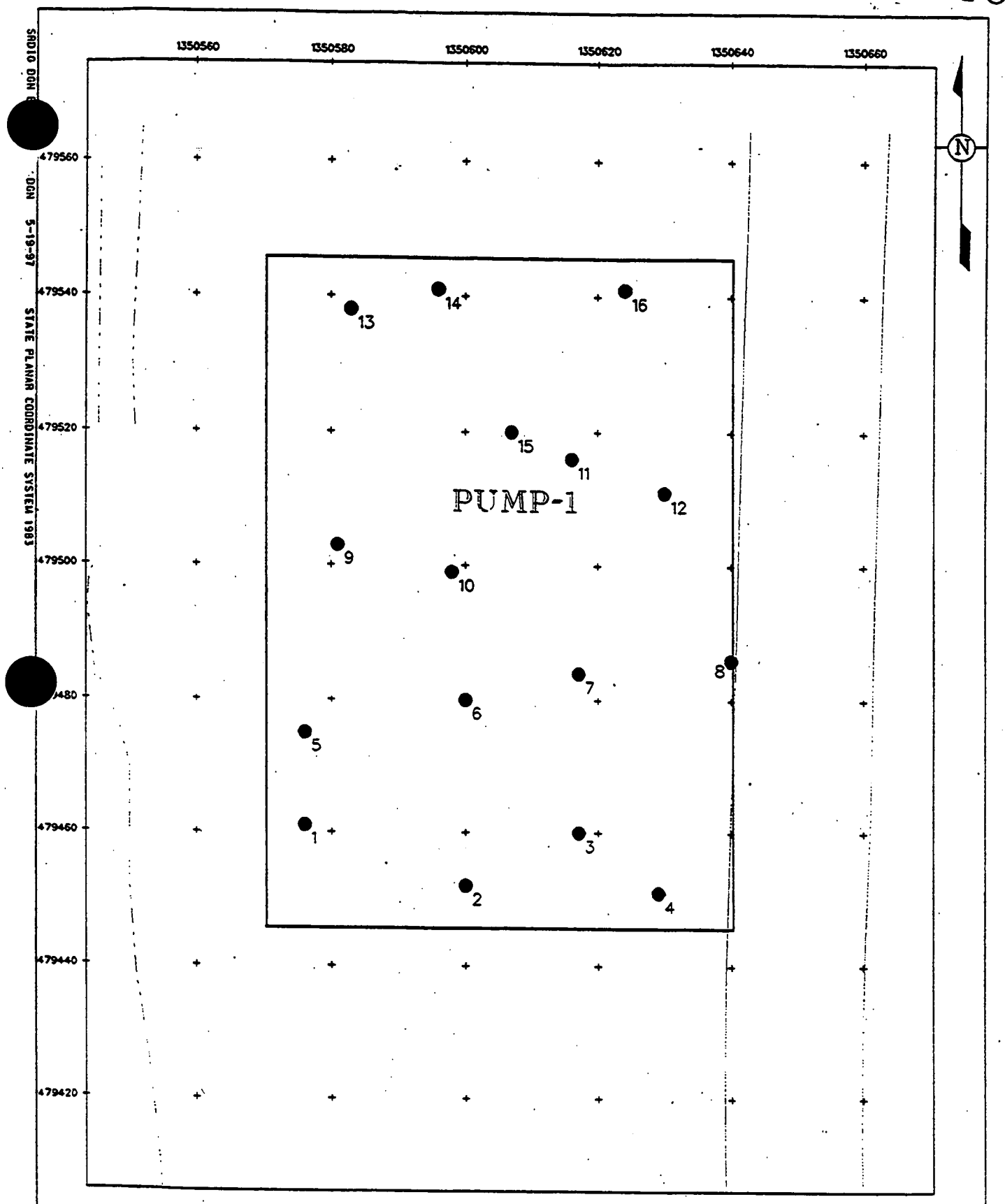
Samples - Number of distinct sample locations in the analysis (see NOTE above).
Hits - Analyte positively detected in the sample.
Max - The maximum sample result.
Mean - The mean or average concentration. (See NOTE above).
St.Dev. - The standard deviation of the sample concentrations. (See NOTE above).
UCL - Upper Confidence Level (95% one-sided) on the Mean concentration.
t-Stat - The calculated t-statistic for the mean concentration compared to the FRL. (See the Certification Report).
Prob. - The probability (based on the t-Stat) that the true CU mean exceeds the FRL. Acceptable probability for primary COCs is 5% and 10% for seconday COCs.
Pass/Fail - Pass or Fail result from the t-Test based on "t-Stat" above. The associated probability is "Prob." above.
2 x (P/F) - Pass or Fail of the "No exceedances of twice the FRL" criteria.



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PUMP-1 PRIMARY AND SECONDARY RADIOLOGICAL AND MAP OF DATA POINTS

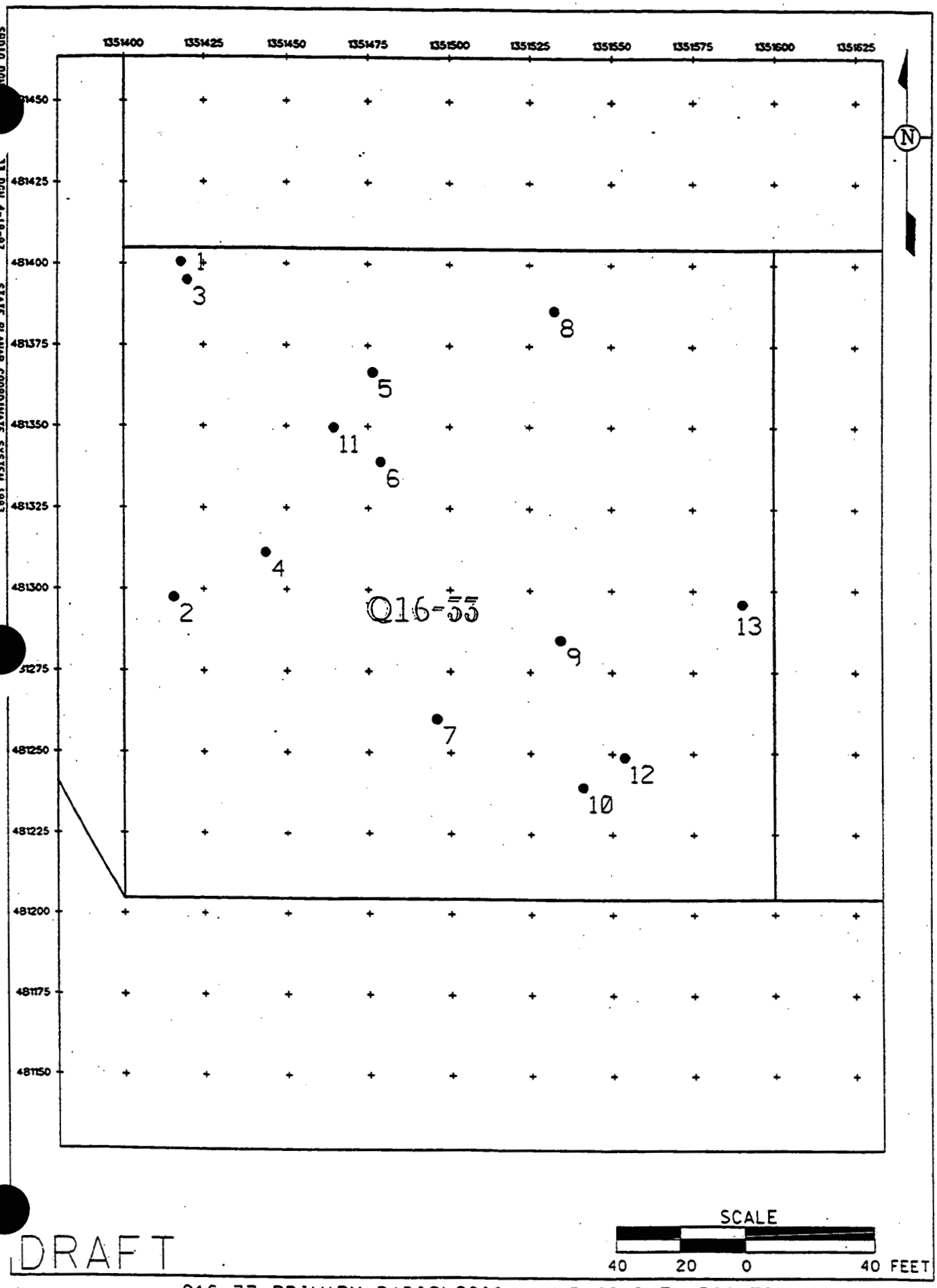
Certification Unit: PUMP-1 09:26 AM 27-May-98

Map	Sample ID	PRIMARY ASCOCs					SECONDARY ASCOCs	
		Radium-226	Radium-228	Thorium-228	Thorium-232	Uranium, Total	Cesium-137	Thorium-230
	PUMP1-C-1-RS	1.64 -	1.47 -	1.42 -	1.26 -	7.81 -	0.10 U	1.80 -
	PUMP1-C-2-RS	1.33 -	1.11 -	1.42 J	1.20 J	15.00 -	0.28 -	1.76 J
3	PUMP1-C-3-RS	1.22 -	1.22 -	1.35 -	1.15 -	9.52 -	0.15 J	1.61 -
4	PUMP1-C-4-RS	1.32 -	1.44 -	1.37 -	1.20 -	8.49 -	0.13 U	1.60 -
5	PUMP1-C-5-RS	1.59 -	1.42 -	1.61 -	1.49 -	7.92 -	0.11 -	1.92 -
6	PUMP1-C-6-RS	1.47 -	1.31 -	1.23 J	1.08 J	3.72 J	0.09 U	1.56 J
7	PUMP1-C-7-RS	1.43 -	1.31 -	1.34 -	0.94 -	6.87 -	0.10 U	1.46 -
8	PUMP1-C-8-RS	1.50 -	1.23 -	1.43 -	1.13 -	6.10 J	0.16 J	1.60 -
9	PUMP1-C-9-RS	1.23 -	1.08 -	1.44 -	0.94 -	10.49 -	0.10 U	1.66 -
10	PUMP1-C-10-RS	1.40 -	1.32 -	1.39 J	1.01 -	3.54 -	0.09 U	1.50 -
11	PUMP1-C-11-RS	1.32 -	1.06 -	1.55 J	1.15 -	11.88 -	0.15 -	1.78 -
11	PUMP1-C-11-RS-D	1.29 -	1.39 -	1.25 J	1.08 -	9.10 -	0.10 U	1.58 -
12	PUMP1-C-12-RS	1.33 -	1.12 -	1.28 J	0.95 -	8.02 -	0.23 -	1.60 -
13	PUMP1-C-13-RS	1.19 -	1.11 -	1.24 J	1.09 J	8.81 -	0.12 U	1.63 J
14	PUMP1-C-14-RS	1.35 -	1.22 -	1.34 J	0.94 -	3.63 J	0.09 U	1.46 -
15	PUMP1-C-15-RS	1.37 -	1.03 -	1.28 J	0.89 -	6.05 -	0.15 J	1.41 -
16	PUMP1-C-16-RS	1.35 -	1.28 -	1.32 J	1.13 -	6.51 -	0.09 U	1.45 J
	Method	**Gamma**	**Gamma**	**Alpha**	**Alpha**	**Gamma**	**Gamma**	**Alpha**
	FRL	**1.70**	**1.80**	**1.70**	**1.50**	**82.00**	**1.40**	**280.00**
	Units	pCi/g	pCi/g	pCi/g	pCi/g	ug/g	pCi/g	pCi/g
	Background UCL	1.22	1.10	1.12	1.08	3.30	0.44	1.50
	Background 95%	1.42	1.25	1.43	1.36	3.73	0.71	1.97
	Samples	16	16	16	16	16	16	16
	Hits	16	16	16	16	16	7	16
	Max	**1.64**	**1.47**	**1.61**	**1.49**	**15.00**	**0.28**	**1.92**
	Mean	1.38	1.24	1.37	1.09	7.69	0.10	1.61
	St.Dev.	0.12	0.13	0.09	0.15	2.96	0.07	0.14
	UCL	**1.43**	**1.30**	**1.41**	**1.16**	**8.98**	**0.13**	**1.65**
	t-Stat	10.40	16.76	14.49	10.53	100.53	72.01	8033.68
	Prob.	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	Pass/Fail	**Pass**	**Pass**	**Pass**	**Pass**	**Pass**	**Pass**	**Pass**
	2 x (P/F)	**Pass**	**Pass**	**Pass**	**Pass**	**Pass**	-	-

NOTE: One half of the reported detection level was used in the calculations for results reported as below the detection limit (qualified with "U"). Duplicates were averaged before calculations were performed.

KEY

FRL - Final Remedial Level
Background UCL - Upper Confidence Level (95% one-sided) on the Mean Background concentration.
Background 95% - 95th Percentile of the background dataset.
Samples - Number of distinct sample locations in the analysis (see NOTE above).
Hits - Analyte positively detected in the sample.
Max - The maximum sample result.
Mean - The mean or average concentration. (See NOTE above).
St.Dev. - The standard deviation of the sample concentrations. (See NOTE above).
UCL - Upper Confidence Level (95% one-sided) on the Mean concentration.
t-Stat - The calculated t-statistic for the mean concentration compared to the FRL. (See the Certification Report).
Prob. - The probability (based on the t-Stat) that the true CU mean exceeds the FRL. Acceptable probability for primary COCs is 5% and 10% for seconday COCs.
Pass/Fail - Pass or Fail result from the t-Test based on "t-Stat" above. The associated probability is "Prob." above.
2 x (P/F) - Pass or Fail of the "No exceedances of twice the FRL" criteria.



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016-33 PRIMARY RADIOLOGICAL MAP OF DATA POINTS

Certification Unit: Q16-33 05:19 PM 06-May-98

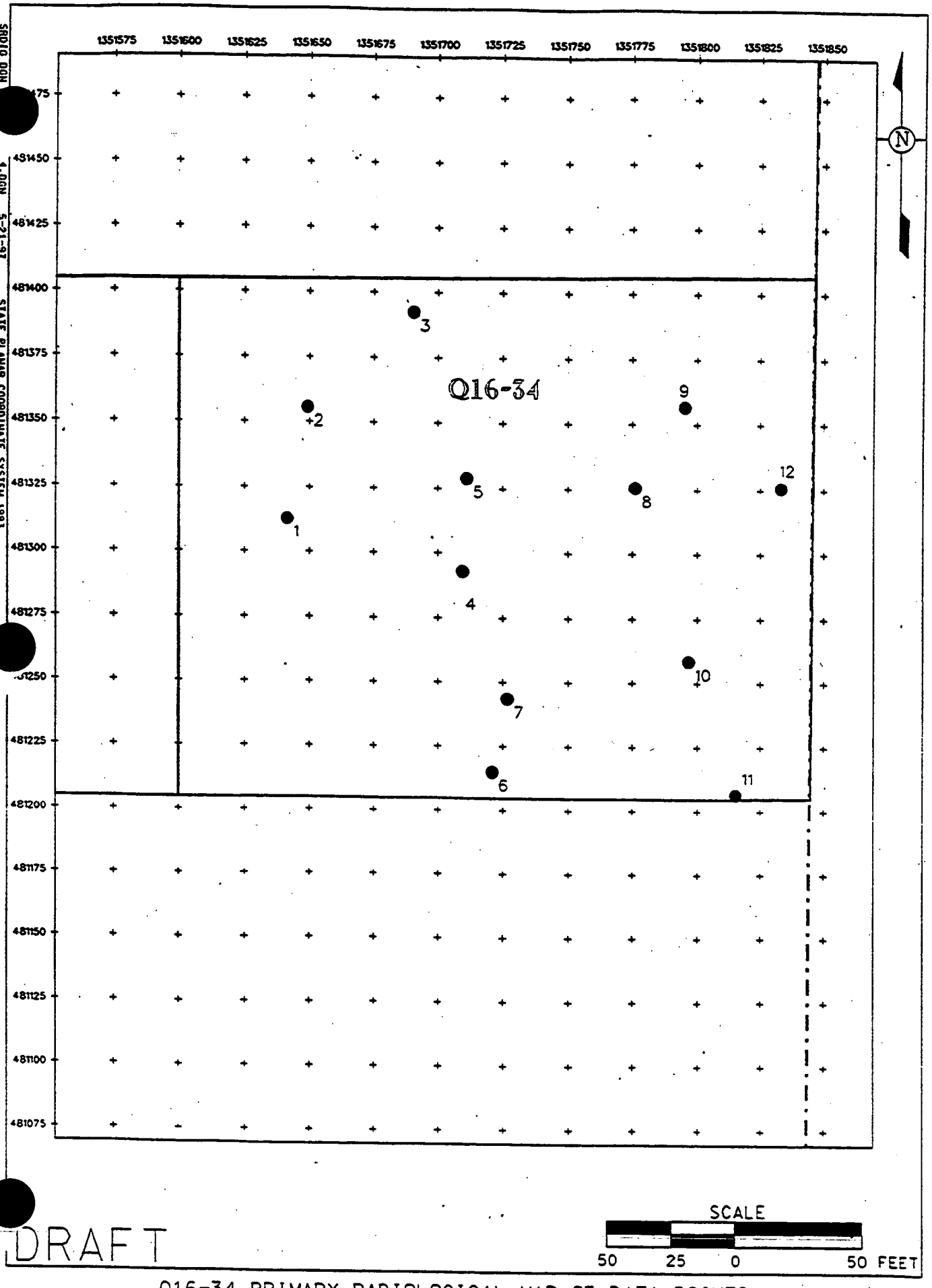
Map	Sample ID	PRIMARY Radium-226		Radium-226		Thorium-232		Thorium-232		Uranium	
1	P17-22C-400417	1.40	-	1.30	-	1.30	J	1.30	J	29.99	-
2	Q16-33C-415297	1.35	-	1.40	-	1.25	J	1.25	J	13.14	U
3	Q16-33C-419394	1.03	-	1.14	-	1.14	-	1.17	-	23.96	-
4	Q16-33C-443311	1.36	-	0.86	UJ	1.22	-	1.24	-	7.50	U
5	Q16-33C-476366	1.03	-	1.32	J	1.14	-	1.18	-	33.58	-
6	Q16-33C-478339	0.99	-	1.18	J	1.26	-	1.22	-	30.59	-
7	Q16-33C-495260	1.09	-	1.41	-	1.29	-	1.21	-	35.23	-
8	Q16-33C-532385	1.47	-	1.35	J	1.15	-	1.32	-	29.21	-
9	Q16-33C-534284	0.90	-	1.49	-	1.49	J	1.38	-	26.36	-
10	Q16-33C-540239	1.84	-	1.61	J	1.64	J	1.34	J	15.29	U
11	Q16-33C-546349	1.44	-	1.71	-	1.37	J	1.26	J	8.70	U
12	Q16-33C-553248	1.34	-	1.75	-	1.29	J	1.37	J	20.73	J
13	Q16-33C-590295	0.69	-	0.92	J	1.42	-	1.22	-	9.30	U
	Method	**Gamma**		**Gamma**		**Alpha**		**Alpha**		**Gamma**	
	FRL	**1.70**		**1.80**		**1.70**		**1.50**		**82.00**	
	Units	pCi/g		pCi/g		pCi/g		pCi/g		ug/g	
	Background UCL	1.10		1.12		1.08		1.08		1.50	
	Background 95%	1.25		1.43		1.36		1.36		1.97	
	Samples	13		13		13		13		13	
	Hits	13		12		13		13		8	
	Max	**1.84**		**1.75**		**1.64**		**1.38**		**35.23**	
	Mean	1.23		1.31		1.30		1.26		19.74	
	St.Dev.	0.30		0.35		0.15		0.07		12.40	
	UCL	**1.38**		**1.48**		**1.38**		**1.30**		**25.87**	
	t-Stat	5.65		5.07		9.79		12.06		18.10	
	Prob.	0.0%		0.0%		0.0%		0.0%		0.0%	
	Pass/Fail	**Pass**		**Pass**		**Pass**		**Pass**		**Pass**	
	2 x (P/F)	**Pass**		**Pass**		**Pass**		**Pass**		**Pass**	

NOTE: One half of the reported detection level was used in the calculations for results reported as below the detection limit (qualified with "U"). Duplicates were averaged before calculations were performed.

KEY

FRL - Final Remedial Level
Background UCL - Upper Confidence Level (95% one-sided) on the Mean Background concentration.
Background 95% - 95th Percentile of the background dataset.
Samples - Number of distinct sample locations in the analysis (see NOTE above).
Hits - Analyte positively detected in the sample.
Max - The maximum sample result.
Mean - The mean or average concentration. (See NOTE above).
St.Dev. - The standard deviation of the sample concentrations. (See NOTE above).
UCL - Upper Confidence Level (95% one-sided) on the Mean concentration.
t-Stat - The calculated t-statistic for the mean concentration compared to the FRL. (See the Certification Report).
Prob. - The probability (based on the t-Stat) that the true CU mean exceeds the FRL. Acceptable probability for primary COCs is 5% and 10% for seconday COCs.
Pass/Fail - Pass or Fail result from the t-Test based on "t-Stat" above. The associated probability is "Prob." above.
2 x (P/F) - Pass or Fail of the "No exceedances of twice the FRL" criteria.

Q16-34



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Q16-34 PRIMARY RADIOLOGICAL MAP OF DATA POINTS

Certification Unit: Q16-34 04:10 PM 06-May-98

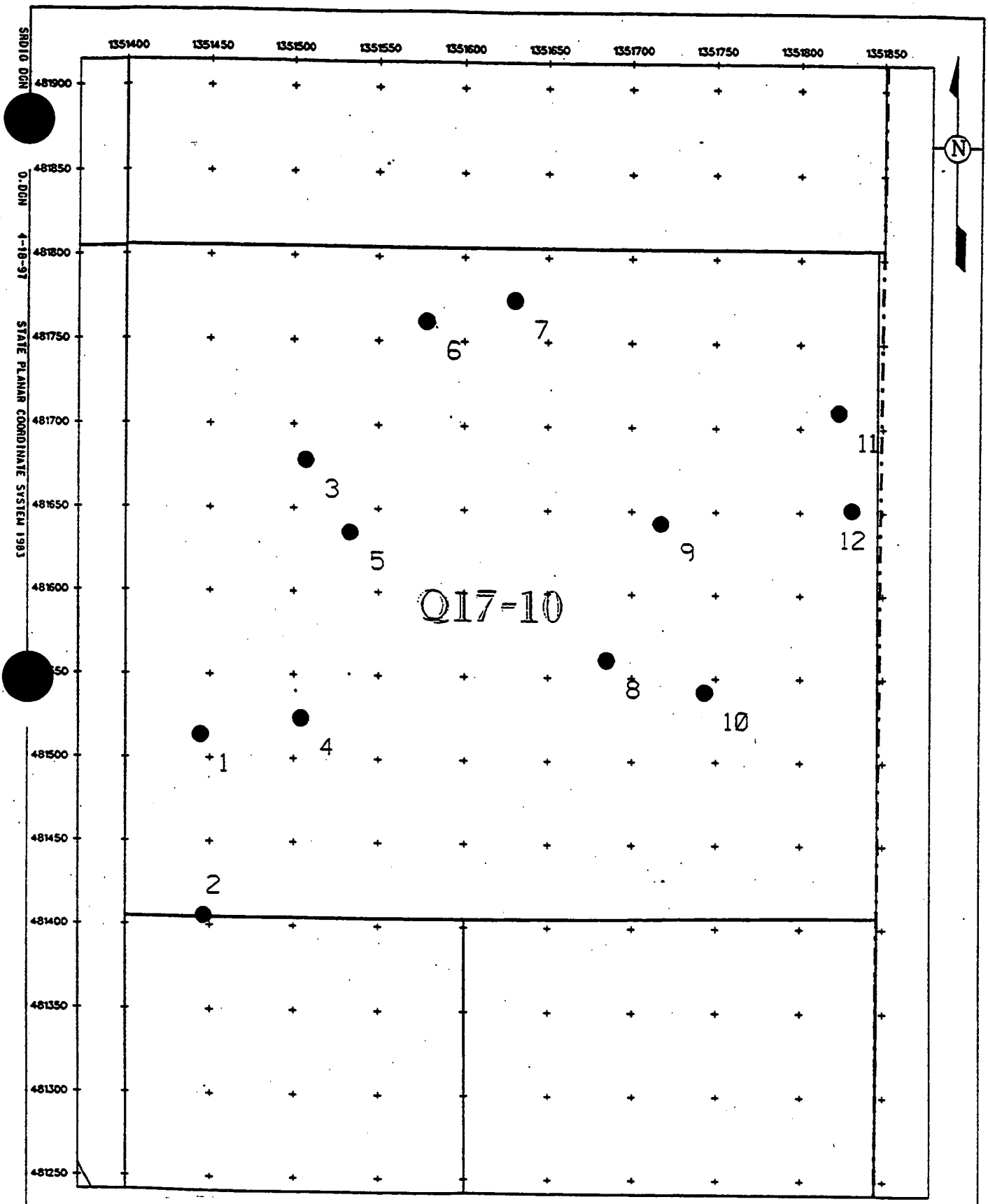
Map	Sample Data	Radium-226		Radium-228		Thorium-228		Thorium-232		Uranium-total	
1	Q16-34C-641312	1.08	-	1.25	-					9.96	J
1	Q16-34C2-R-1					1.12	-	1.06	-		
2	Q16-34C-649355	1.30	J	1.40	-					11.10	J
2	Q16-34C2-R-2					1.20	-	1.13	-		
3	Q16-34C-690392	1.20	J	1.30	-					17.69	-
3	Q16-34C2-R-3					1.14	-	0.88	-		
4	Q16-34C-709292	1.10	J	1.10	-					8.10	J
4	Q16-34C2-R-4					1.22	-	0.96	-		
5	Q16-34C-711328	1.08	-	1.35	-					6.86	J
5	Q16-34C-711328-D	1.35	J	1.28	-					45.67	-
5	Q16-34C2-R-5					1.20	-	0.91	-		
5	Q16-34C2-R-6					1.32	-	1.02	-		
6	Q16-34C3-R-1	1.47	-	1.43	-	1.45	-	1.15	-	10.93	J
7	Q16-34C-726243	1.20	J	0.95	-					23.69	-
7	Q16-34C2-R-8					1.12	-	1.05	-		
8	Q16-34C-776325	1.10	J	0.95	-					11.39	J
8	Q16-34C2-R-9					1.00	-	1.04	-		
8	Q16-34C2-R-9-D					1.12	-	0.94	-		
9	Q16-34C-795356	1.45	-	1.57	-	1.29	J	1.24	-	21.83	J
10	Q16-34C-796258	1.16	-	1.24	-					15.13	-
10	Q16-34C2-R-10					1.22	-	1.31	-		
11	Q16-34C-815206	1.20	J	1.40	-					32.98	-
11	Q16-34C2-R-11					0.91	J	1.10	J		
12	Q16-34C-821347	1.08	-	1.36	-	1.43	-	1.32	-	21.05	-

Method	Gamma	Gamma	Alpha	Alpha	Gamma
FRL	**1.70**	**1.80**	**1.70**	**1.50**	**82.00**
Units	pCi/g	pCi/g	pCi/g	pCi/g	ug/g
Background UCL	1.22	1.10	1.12	1.08	3.30
Background 95%	1.42	1.25	1.43	1.36	3.73
Samples	12	12	12	12	12
Hits	12	12	12	12	12
Max	**1.47**	**1.57**	**1.45**	**1.32**	**32.98**
Mean	1.21	1.27	1.20	1.10	17.51
St.Dev.	0.13	0.19	0.15	0.14	7.74
UCL	**1.28**	**1.37**	**1.28**	**1.17**	**21.52**
t-Stat	12.62	9.62	11.50	10.00	28.87
Prob.	0.0%	0.0%	0.0%	0.0%	0.0%
Pass/Fail	**Pass**	**Pass**	**Pass**	**Pass**	**Pass**
2 x (P/F)	**Pass**	**Pass**	**Pass**	**Pass**	**Pass**

NOTE: One half of the reported detection level was used in the calculations for results reported as below the detection limit (qualified with "U"). Duplicates were averaged before calculations were performed.

KEY

FRL - Final Remedial Level
Background UCL - Upper Confidence Level (95% one-sided) on the Mean Background concentration.
Background 95% - 95th Percentile of the background dataset.
Samples - Number of distinct sample locations in the analysis (see NOTE above).
Hits - Analyte positively detected in the sample.
Max - The maximum sample result.
Mean - The mean or average concentration. (See NOTE above).
St.Dev. - The standard deviation of the sample concentrations. (See NOTE above).
UCL - Upper Confidence Level (95% one-sided) on the Mean concentration.
t-Stat - The calculated t-statistic for the mean concentration compared to the FRL. (See the Certification Report).
Prob. - The probability (based on the t-Stat) that the true CU mean exceeds the FRL. Acceptable probability for primary COCs is 5% and 10% for seconday COCs.
Pass/Fail - Pass or Fail result from the t-Test based on "t-Stat" above. The associated probability is "Prob." above.
2 x (P/F) - Pass or Fail of the "No exceedances of twice the FRL" criteria.



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SCALE

80 40 0 80 FEET

Q17-10 PRIMARY AND SECONDARY RADIOLOGICAL MAP OF DATA POINTS

Certification Unit: Q17-10 05:01 PM 06-May-98

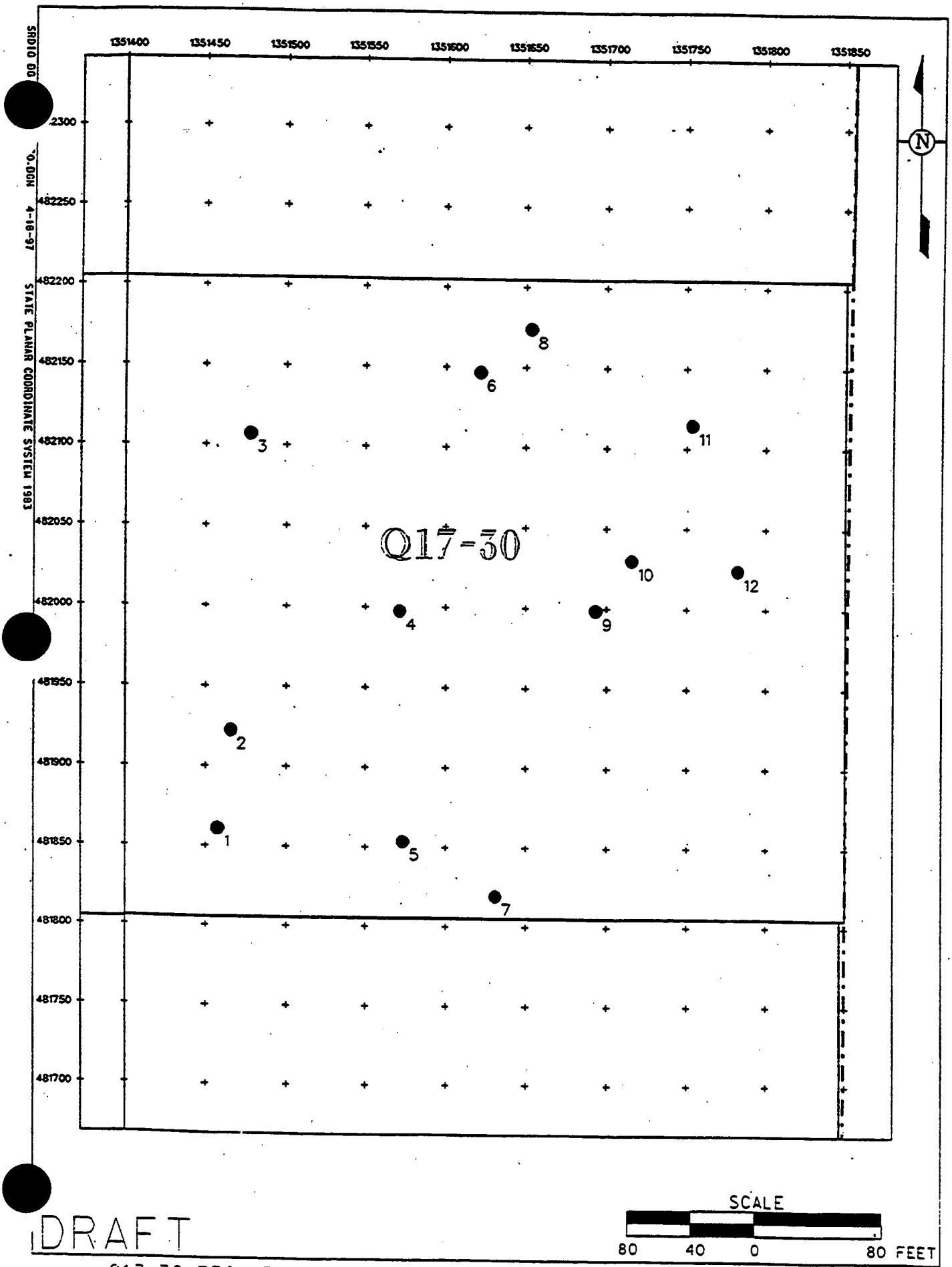
		PRIMARY ASSOC					SECONDARY ASSOC	
	Sample ID	Radium-226	Radium-228	Thorium-228	Thorium-232	Uranium Total	Zirconium-[illegible]	Thorium-[illegible]
	Q17-10C-444513	1.28 -	1.58 -	1.29 J	1.26 J	25.55 -	0.22 -	1.61 J
2	Q17-10C-446405	1.14 -	1.33 -	1.10 -	1.08 -	37.48 -	0.45 -	1.45 -
3	Q17-10C-507678	0.96 -	1.43 -	1.05 -	1.12 -	11.44 U	0.11 U	1.23 -
4	Q17-10C-524504	1.18 -	1.27 J	1.28 -	1.17 -	37.63 -	0.46 -	1.67 -
5	Q17-10C-533635	1.04 -	1.28 -	1.08 J	1.15 J	12.37 U	0.11 U	1.32 J
6	Q17-10C-578761	1.26 -	1.19 -			30.86 -	0.19 -	
6	Q17-10C2-R-12			0.97 -	0.88 -			1.18 -
7	Q17-10C-630774	1.12 J	1.33 -	1.22 J	1.27 J	9.11 U	0.16 U	1.26 J
8	Q17-10C-685560	1.22 -	1.43 -	1.15 -	1.14 -	19.72 -	0.36 -	1.53 -
9	Q17-10C-717642	1.12 -	1.46 -			8.77 J	0.04 U	
9	Q17-10C2-R-13			1.01 -	1.17 -			1.28 -
10	Q17-10C-743541	1.17 -	1.41 -	1.20 -	1.21 -	9.76 J	0.05 J	1.68 -
11	Q17-10C-823709	1.37 J	1.06 -	1.01 -	1.01 -	18.24 -	0.20 -	1.29 J
12	Q17-10C-831651	1.21 -	1.20 -	1.08 -	0.98 -	23.21 -	0.41 -	1.39 -
	Method	**Gamma**	**Gamma**	**Alpha**	**Alpha**	**Gamma**	**Gamma**	**Alpha**
	FRL	**1.70**	**1.80**	**1.70**	**1.50**	**82.00**	**1.40**	**280.00**
	Units	pCi/g	pCi/g	pCi/g	pCi/g	ug/g	pCi/g	pCi/g
	Background UCL	1.22	1.10	1.12	1.08	3.30	0.44	1.50
	Background 95%	1.42	1.25	1.43	1.36	3.73	0.71	1.97
	Samples	12	12	12	12	12	12	12
	Hits	12	12	12	12	9	8	12
	Max	**1.37**	**1.58**	**1.29**	**1.27**	**37.63**	**0.46**	**1.68**
	Mean	1.17	1.33	1.12	1.12	18.97	0.21	1.41
	St.Dev.	0.11	0.14	0.11	0.12	12.17	0.17	0.18
	UCL	**1.23**	**1.40**	**1.18**	**1.18**	**25.28**	**0.28**	**1.48**
	t-Stat	16.92	11.43	18.68	11.31	17.93	24.52	5433.41
	Prob.	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	Pass/Fail	**Pass**	**Pass**	**Pass**	**Pass**	**Pass**	**Pass**	**Pass**
	2 x (P/F)	**Pass**	**Pass**	**Pass**	**Pass**	**Pass**	-	-

NOTE: One half of the reported detection level was used in the calculations for results reported as below the detection limit (qualified with "U"). Duplicates were averaged before calculations were performed.

KEY

FRL - Final Remedial Level
Background UCL - Upper Confidence Level (95% one-sided) on the Mean Background concentration.
Background 95% - 95th Percentile of the background dataset.
Samples - Number of distinct sample locations in the analysis (see NOTE above).
Hits - Analyte positively detected in the sample.
Max - The maximum sample result.
Mean - The mean or average concentration. (See NOTE above).
St.Dev. - The standard deviation of the sample concentrations. (See NOTE above).
UCL - Upper Confidence Level (95% one-sided) on the Mean concentration.
t-Stat - The calculated t-statistic for the mean concentration compared to the FRL. (See the Certification Report).
Prob. - The probability (based on the t-Stat) that the true CU mean exceeds the FRL. Acceptable probability for primary COCs is 5% and 10% for seconday COCs.
Pass/Fail - Pass or Fail result from the t-Test based on "t-Stat" above. The associated probability is "Prob." above.
2 x (P/F) - Pass or Fail of the "No exceedances of twice the FRL" criteria.

Q17-30



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Q17-30 PRIMARY AND SECONDARY RADIOLOGICAL MAP OF DATA POINTS

Certification Unit: Q17-30 04:59 PM 06-May-98

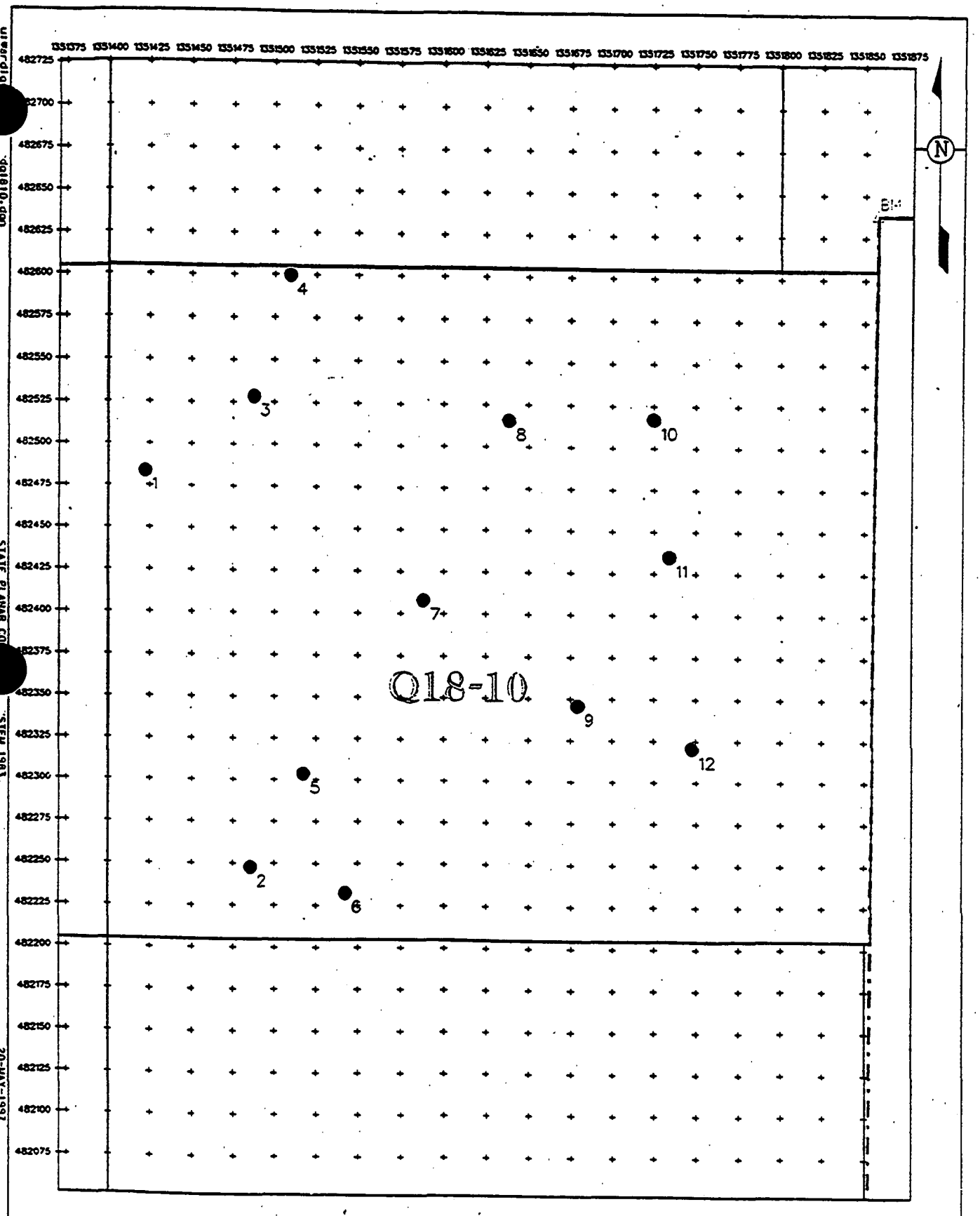
Map	Sample ID	PRIMARY COCs					SECONDARY COCs	
		Radium-226	Radium-228	Thorium-228	Thorium-232	Uranium (tot)	Uranium-234	Thorium-230
1	Q17-30C-457860	1.16 -	1.25 -	1.16 -	1.23 -	15.77 -	0.17 J	1.35 -
2	Q17-30C-465922	1.33 -	1.52 -	1.28 J	1.26 -	10.80 U	0.12 U	1.42 -
3	Q17-30C-477106	0.95 -	1.14 -	1.29 -	1.29 -	13.61 -	0.20 U	1.54 -
4	Q17-30C-571997	1.49 -	1.37 -	1.31 -	1.11 -	7.70 J	0.05 U	1.40 -
5	Q17-30C-573853	1.09 -	1.03 -	1.17 -	1.14 -	21.13 -	0.18 -	1.47 -
6	Q17-30C-621146	1.29 -	1.26 -	1.09 -	1.02 -	10.29 J	0.06 U	1.30 -
7	Q17-30C-631819	1.24 -	1.45 -			9.27 J	0.05 U	
7	Q17-30C2-R-14			1.19 -	0.96 -			1.36 -
8	Q17-30C-653173	1.34 -	1.30 -	1.21 -	1.32 -	22.31 -	0.43 -	1.80 -
9	Q17-30C-693998	1.22 -	1.54 -	1.34 -	1.29 -	9.51 J	0.04 U	1.57 -
10	Q17-30C-715029	1.37 -	1.65 -	1.20 -	1.13 -	10.29 J	0.14 U	1.47 -
11	Q17-30C-753114	1.33 -	1.43 -	1.24 -	1.26 -	6.45 U	0.08 U	1.62 -
12	Q17-30C-781023	1.34 -	1.23 -			7.02 J	0.05 U	
12	Q17-30C2-R-15			1.34 -	1.18 -			1.43 -
	Method	**Gamma**	**Gamma**	**Alpha**	**Alpha**	**Gamma**	**Gamma**	**Alpha**
	FRL	**1.70**	**1.80**	**1.70**	**1.50**	**82.00**	**1.40**	**280.00**
	Units	pCi/g	pCi/g	pCi/g	pCi/g	ug/g	pCi/g	pCi/g
	Background UCL	1.22	1.10	1.12	1.08	3.30	0.44	1.50
	Background 95%	1.42	1.25	1.43	1.36	3.73	0.71	1.97
	Samples	12	12	12	12	12	12	12
	Hits	12	12	12	12	10	3	12
	Max	**1.49**	**1.65**	**1.34**	**1.32**	**22.31**	**0.43**	**1.80**
	Mean	1.26	1.35	1.24	1.18	11.29	0.10	1.48
	St.Dev.	0.14	0.18	0.08	0.11	5.91	0.12	0.14
	UCL	**1.34**	**1.44**	**1.28**	**1.24**	**14.36**	**0.14**	**1.53**
	t-Stat	10.58	8.80	20.45	9.65	41.47	38.03	6994.91
	Prob.	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	Pass/Fail	**Pass**	**Pass**	**Pass**	**Pass**	**Pass**	**Pass**	**Pass**
	2 x (P/F)	**Pass**	**Pass**	**Pass**	**Pass**	**Pass**	-	-

NOTE: One half of the reported detection level was used in the calculations for results reported as below the detection limit (qualified with "U"). Duplicates were averaged before calculations were performed.

KEY

FRL - Final Remedial Level
Background UCL - Upper Confidence Level (95% one-sided) on the Mean Background concentration.
Background 95% - 95th Percentile of the background dataset.
Samples - Number of distinct sample locations in the analysis (see NOTE above).
Hits - Analyte positively detected in the sample.
Max - The maximum sample result.
Mean - The mean or average concentration. (See NOTE above).
St.Dev. - The standard deviation of the sample concentrations. (See NOTE above).
UCL - Upper Confidence Level (95% one-sided) on the Mean concentration.
t-Stat - The calculated t-statistic for the mean concentration compared to the FRL. (See the Certification Report).
Prob. - The probability (based on the t-Stat) that the true CU mean exceeds the FRL. Acceptable probability for primary COCs is 5% and 10% for seconday COCs.
Pass/Fail - Pass or Fail result from the t-Test based on "t-Stat" above. The associated probability is "Prob." above.
2 x (P/F) - Pass or Fail of the "No exceedances of twice the FRL" criteria.

Q18-10



Q18-10 PRIMARY AND SECONDARY RADIOLOGICAL MAP OF DATA POINTS

Certification Unit: Q18-10 07:58 PM 26-May-98

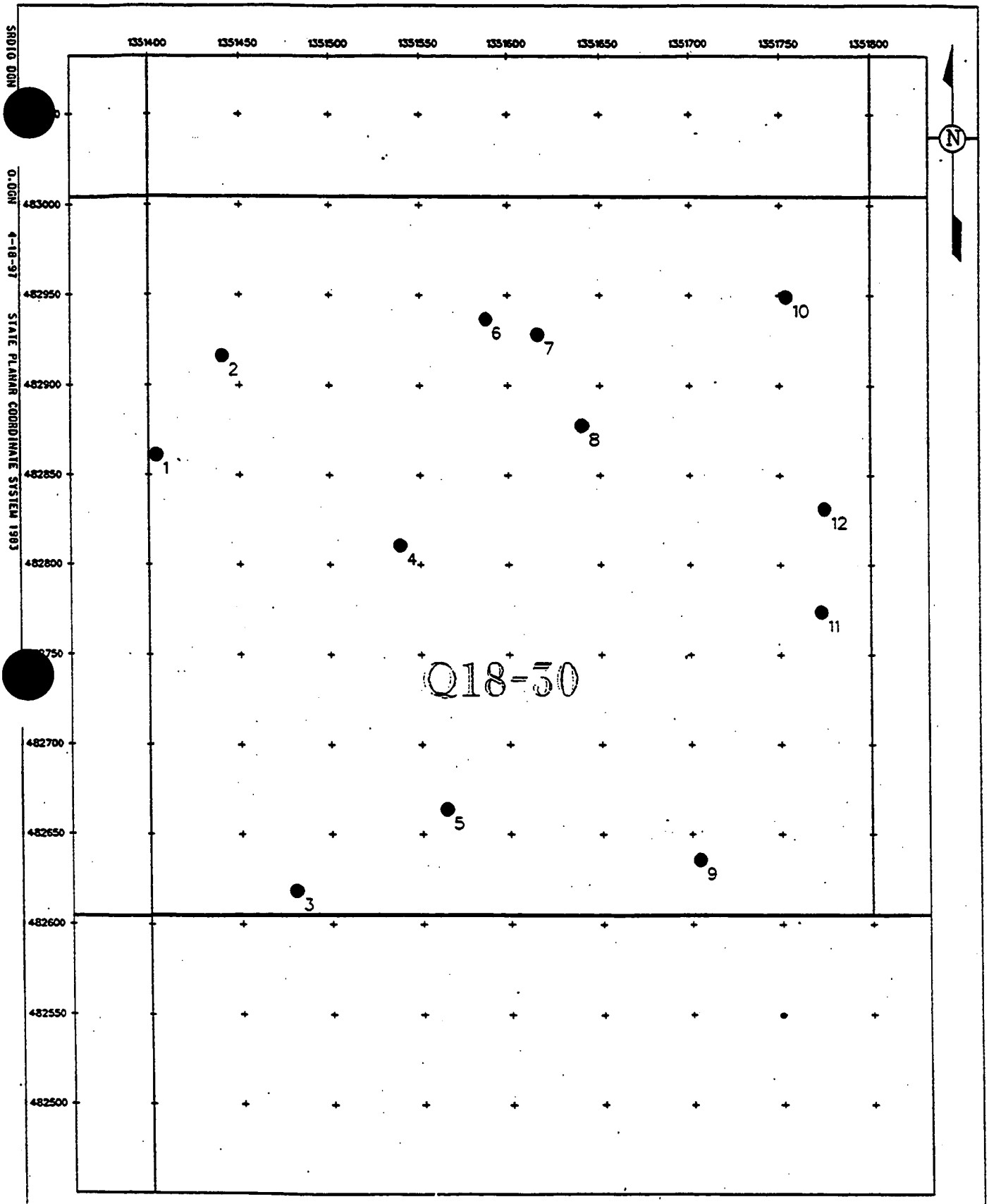
		PRIMARY ASCOCs					SECONDARY ASCOCs	
Map	Sample ID	Radium-226	Radium-228	Thorium-228	Thorium-232	Uranium, Total	Cesium-137	Thorium-230
	Q18-10C-422483	1.40 -	1.96 -	1.55 J	1.08 J	9.93 J	0.14 -	1.50 J
2	Q18-10C-485247	1.49 -	1.43 J	1.14 -	1.13 -	13.19 U	0.32 -	1.32 -
3	Q18-10C-487528	1.50 -	1.30 -	1.30 -	1.10 -	18.29 -	0.08 U	1.20 -
4	Q18-10C-509599	1.50 -	1.60 -	1.30 -	1.20 -	6.60 -	0.10 U	1.70 -
5	Q18-10C-517303	0.90 -	1.20 J	1.24 -	1.11 -	21.83 -	0.65 -	1.39 -
6	Q18-10C-542232	1.19 -	1.56 J	1.38 J	1.14 J	8.10 U	0.25 U	1.44 J
7	Q18-10C-588407	1.20 J	1.30 -			8.40 J	0.07 J	
7	Q18-10C2-R-16			0.95 -	1.05 -			1.30 -
8	Q18-10C-638515	1.40 J	1.60 -			4.80 U	0.05 U	
8	Q18-10C2-R-17			1.23 -	1.38 -			1.41 J
9	Q18-10C-679345	1.10 J	1.30 -			4.50 J	0.05 U	
9	Q18-10C2-R-18			1.18 -	1.04 -			1.22 -
10	Q18-10C-725517	1.20 J	1.40 -			4.50 J	0.08 J	
10	Q18-10C2-R-19			1.19 J	0.95 J			1.20 J
11	Q18-10C-734434	1.30 J	1.40 -			11.69 J	0.09 U	
11	Q18-10C2-R-20			1.18 -	1.10 -			1.63 -
12	Q18-10C-747320	1.30 J	1.30 -			7.20 J	0.05 U	
12	Q18-10C2-R-21			1.10 -	1.03 -			1.34 J
	Method	Gamma	Gamma	Alpha	Alpha	Gamma	Gamma	Alpha
	FRL	1.70	1.80	1.70	1.50	82.00	1.40	280.00
	Units	pCi/g	pCi/g	pCi/g	pCi/g	ug/g	pCi/g	pCi/g
	Background UCL	1.22	1.10	1.12	1.08	3.30	0.44	1.50
	Background 95%	1.42	1.25	1.43	1.36	3.73	0.71	1.97
	Samples	12	12	12	12	12	12	12
	Hits	12	12	12	12	9	5	12
	Max	1.50	1.96	1.55	1.38	21.83	0.65	1.70
	Mean	1.29	1.45	1.23	1.11	8.83	0.13	1.39
	St.Dev.	0.18	0.21	0.15	0.11	5.90	0.18	0.16
	UCL	1.38	1.55	1.31	1.16	11.89	0.20	1.45
	t-Stat	7.78	5.90	10.90	12.76	42.99	23.98	5999.01
	Prob.	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	Pass/Fail	Pass	Pass	Pass	Pass	Pass	Pass	Pass
	2 x (P/F)	Pass	Pass	Pass	Pass	Pass	-	-

NOTE: One half of the reported detection level was used in the calculations for results reported as below the detection limit (qualified with "U"). Duplicates were averaged before calculations were performed.

KEY

FRL - Final Remedial Level
Background UCL - Upper Confidence Level (95% one-sided) on the Mean Background concentration.
Background 95% - 95th Percentile of the background dataset.
Samples - Number of distinct sample locations in the analysis (see NOTE above).
Hits - Analyte positively detected in the sample.
Max - The maximum sample result.
Mean - The mean or average concentration. (See NOTE above).
St.Dev. - The standard deviation of the sample concentrations. (See NOTE above).
UCL - Upper Confidence Level (95% one-sided) on the Mean concentration.
t-Stat - The calculated t-statistic for the mean concentration compared to the FRL. (See the Certification Report).
Prob. - The probability (based on the t-Stat) that the true CU mean exceeds the FRL. Acceptable probability for primary COCs is 5% and 10% for seconday COCs.
Pass/Fail - Pass or Fail result from the t-Test based on "t-Stat" above. The associated probability is "Prob." above.
2 x (P/F) - Pass or Fail of the "No exceedances of twice the FRL" criteria.

Q18-30



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018-30 PRIMARY RADIOLOGICAL MAP OF DATA POINTS

Certification Unit: Q18-30 04:14 PM 06-May-98

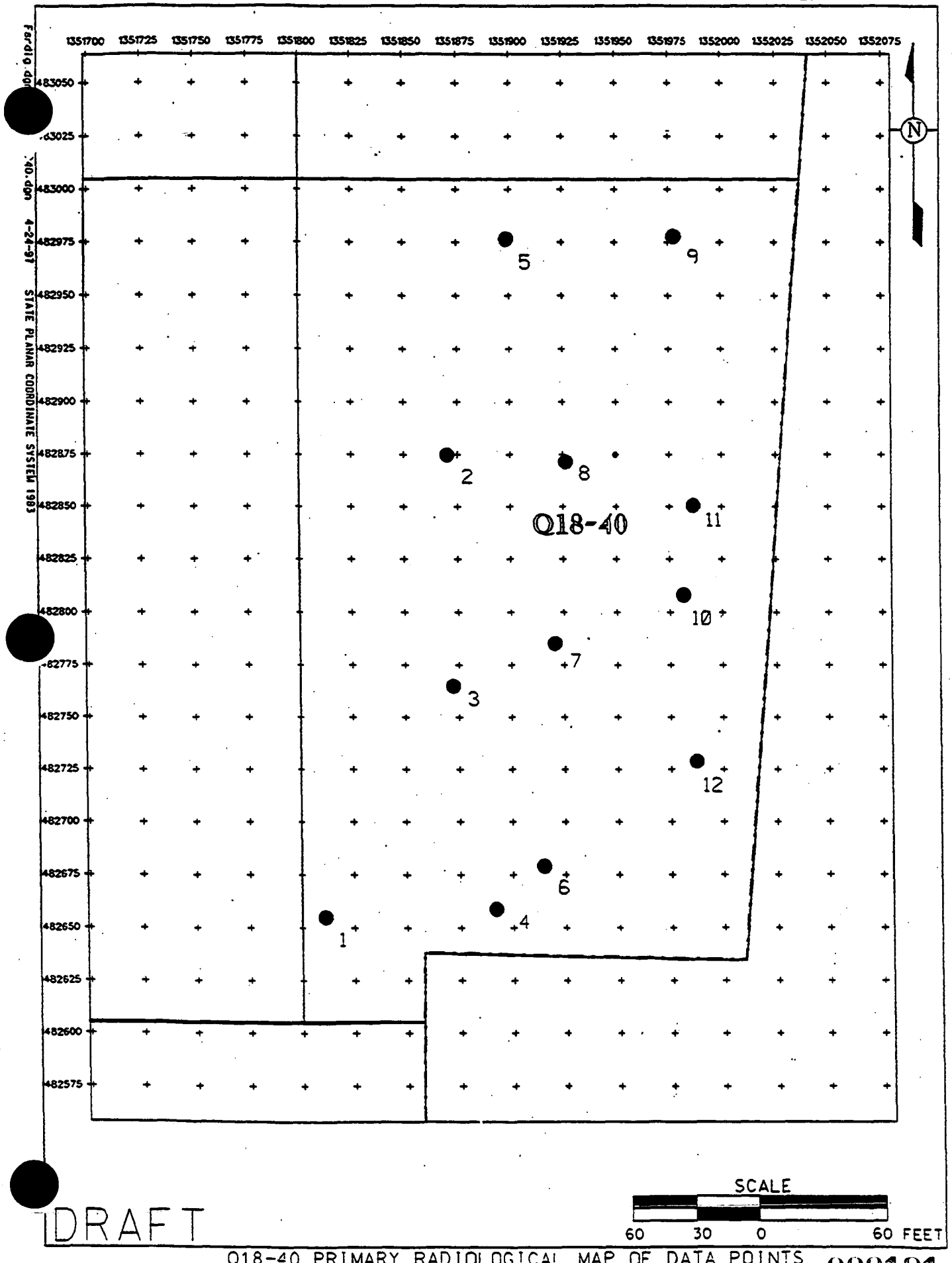
Map	Sample ID	PRIMARY ASSOC Radium-226		Radium-228		Thorium-232		Thorium-232		Thorium-230	
1	Q18-30C-404861	1.40	-	1.30	-	1.10	-	1.10	-	6.30	-
2	Q18-30C-440916	1.30	-	1.20	-	1.20	-	1.10	-	5.10	-
3	Q18-30C-479618	1.30	-	1.20	-	0.78	-	1.00	-	5.70	J
4	Q18-30C-538810	1.20	-	1.20	-	1.10	-	1.20	-	6.90	-
5	Q18-30C-563663	1.40	J	1.30	-					4.20	J
5	Q18-30C2-R-22					1.19	-	1.15	-		
6	Q18-30C-587936	1.25	-	1.48	J	1.07	J	1.07	-	5.40	U
7	Q18-30C-616928	1.28	-	1.13	-	1.22	-	1.10	-	9.00	U
8	Q18-30C-640877	1.30	-	1.34	-	1.19	-	1.09	-	5.40	U
9	Q18-30C-704635	1.10	J	1.20	-					10.20	J
9	Q18-30C2-R-23					1.18	-	0.98	-		
9	Q18-30C2-R-23-D					0.91	J	1.02	J		
10	Q18-30C-753949	1.09	-	0.88	UJ	1.19	-	1.12	-	13.28	J
11	Q18-30C-772773	1.13	-	1.21	-	1.15	-	1.26	-	8.13	J
12	Q18-30C-774831	1.53	-	1.05	-	1.13	-	1.23	-	5.10	U

Method	Gamma	Gamma	Alpha	Alpha	Gamma
FRL	**1.70**	**1.80**	**1.70**	**1.50**	**82.00**
Units	pCi/g	pCi/g	pCi/g	pCi/g	ug/g
Background UCL	1.22	1.10	1.12	1.08	3.30
Background 95%	1.42	1.25	1.43	1.36	3.73
Samples	12	12	12	12	12
Hits	12	11	12	12	8
Max	**1.53**	**1.48**	**1.22**	**1.26**	**13.28**
Mean	1.27	1.17	1.11	1.12	6.02
St.Dev.	0.13	0.25	0.12	0.08	3.25
UCL	**1.34**	**1.30**	**1.18**	**1.16**	**7.70**
t-Stat	11.24	8.56	16.95	16.42	81.00
Prob.	0.0%	0.0%	0.0%	0.0%	0.0%
Pass/Fail	**Pass**	**Pass**	**Pass**	**Pass**	**Pass**
2 x (P/F)	**Pass**	**Pass**	**Pass**	**Pass**	**Pass**

NOTE: One half of the reported detection level was used in the calculations for results reported as below the detection limit (qualified with "U"). Duplicates were averaged before calculations were performed.

KEY

FRL - Final Remedial Level
Background UCL - Upper Confidence Level (95% one-sided) on the Mean Background concentration.
Background 95% - 95th Percentile of the background dataset.
Samples - Number of distinct sample locations in the analysis (see NOTE above).
Hits - Analyte positively detected in the sample.
Max - The maximum sample result.
Mean - The mean or average concentration. (See NOTE above).
St.Dev. - The standard deviation of the sample concentrations. (See NOTE above).
UCL - Upper Confidence Level (95% one-sided) on the Mean concentration.
t-Stat - The calculated t-statistic for the mean concentration compared to the FRL. (See the Certification Report).
Prob. - The probability (based on the t-Stat) that the true CU mean exceeds the FRL. Acceptable probability for primary COCs is 5% and 10% for seconday COCs.
Pass/Fail - Pass or Fail result from the t-Test based on "t-Stat" above. The associated probability is "Prob." above.
2 x (P/F) - Pass or Fail of the "No exceedances of twice the FRL" criteria.



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SCALE

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Q18-40 PRIMARY RADIOLOGICAL MAP OF DATA POINTS

ORIGINAL FAILED CU RESULTS

Certification Unit: Q18-40 08:12 PM 26-May-98

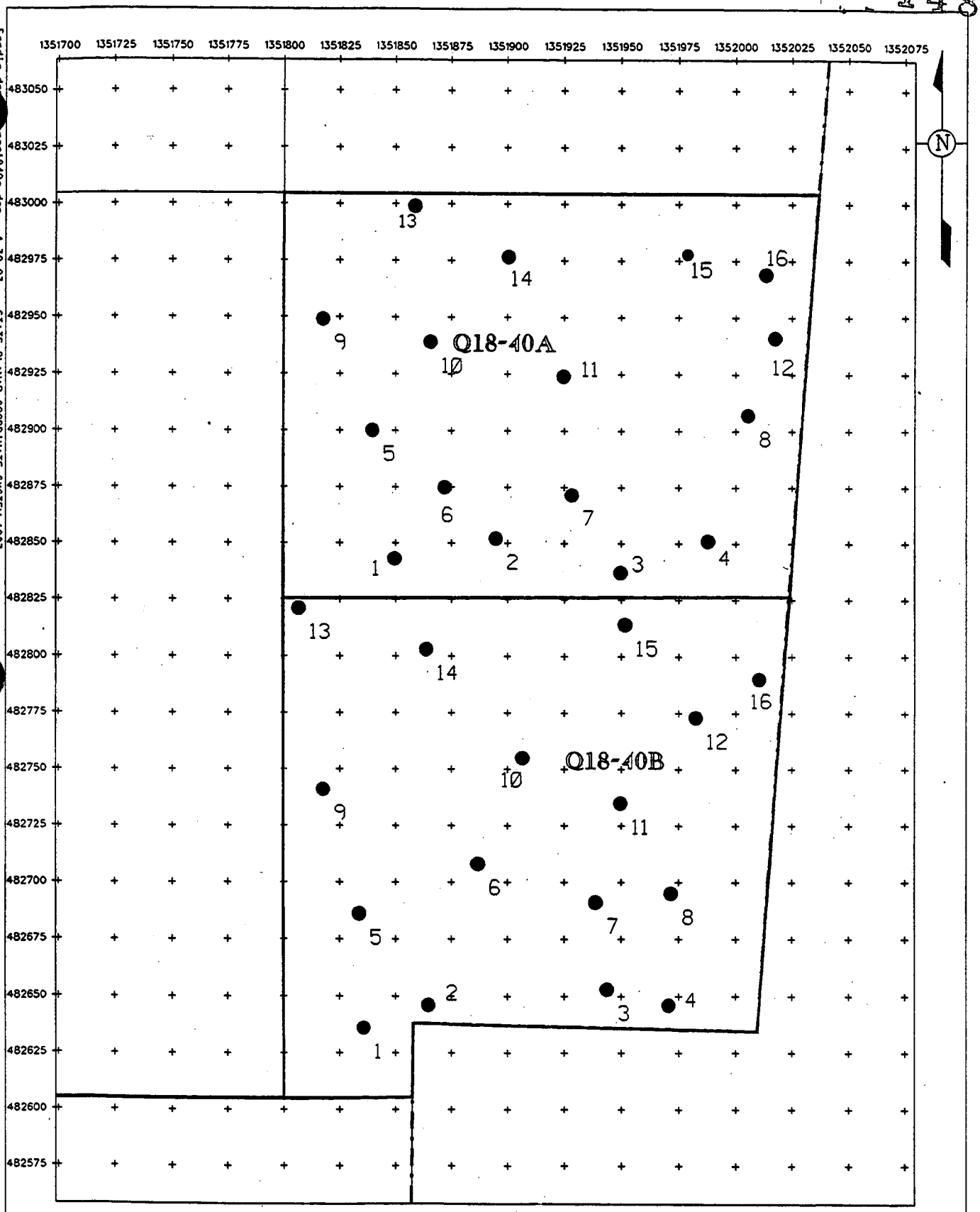
Map	Sample ID	PRIMARY ASCOCs									
		Radium-226		Radium-228		Thorium-228		Thorium-232		Uranium, Total	
1	Q18-40C-811654	1.29	-	1.38	-	1.11	-	1.08	-	11.69	U
2	Q18-40C-870874	1.57	-	1.13	-	1.14	-	1.25	-	14.39	U
3	Q18-40C-872764	1.25	-	1.11	-	1.17	-	1.11	-	9.00	U
4	Q18-40C-891658	1.25	-	1.14	-	1.12	-	1.11	-	8.70	U
5	Q18-40C-898975	1.94	-	1.58	-	1.33	J	1.31	-	12.89	U
6	Q18-40C-914679	2.61	-	1.40	-	1.21	-	1.21	-	22.67	J
7	Q18-40C-920785	1.04	-	1.49	-	1.09	J	1.08	-	7.80	U
8	Q18-40C-926871	1.07	-	1.43	-	1.11	-	1.16	-	9.60	U
9	Q18-40C-977977	1.40	-	1.74	-	1.19	J	1.27	J	11.10	U
9	Q18-40C-977977-D	1.64	-	1.66	-	1.41	J	1.36	J	16.49	U
10	Q18-40C-981808	1.06	-	1.25	-	1.07	-	1.12	-	7.80	U
11	Q18-40C-986850	1.25	-	1.39	-	1.09	-	1.07	-	9.60	U
12	Q18-40C-987728	2.42	-	2.10	-	1.31	J	1.16	J	13.19	U

Method	Gamma	Gamma	Alpha	Alpha	Gamma
FRL	**1.70**	**1.80**	**1.70**	**1.50**	**82.0**
Units	pCi/g	pCi/g	pCi/g	pCi/g	ug/g
Background UCL	1.22	1.10	1.12	1.08	3.30
Background 95%	1.42	1.25	1.43	1.36	3.73
Samples	12	12	12	12	12
Hits	12	12	12	12	1
Max	**2.61**	**2.10**	**1.33**	**1.32**	**22.67**
Mean	1.52	1.43	1.17	1.16	6.82
St.Dev.	0.53	0.28	0.09	0.09	5.13
UCL	**1.80**	**1.57**	**1.22**	**1.21**	**9.48**
t-Stat	1.16	4.64	19.38	13.09	50.79
Prob.	13.5%	0.0%	0.0%	0.0%	0.0%
Pass/Fail	**Fail**	**Pass**	**Pass**	**Pass**	**Pass**
2 x (P/F)	**Pass**	**Pass**	**Pass**	**Pass**	**Pass**

NOTE: One half of the reported detection level was used in the calculations for results reported as below the detection limit (qualified with "U"). Duplicates were averaged before calculations were performed.

KEY

FRL - Final Remedial Level
Background UCL - Upper Confidence Level (95% one-sided) on the Mean Background concentration.
Background 95% - 95th Percentile of the background dataset.
Samples - Number of distinct sample locations in the analysis (see NOTE above).
Hits - Analyte positively detected in the sample.
Max - The maximum sample result.
Mean - The mean or average concentration. (See NOTE above).
St.Dev. - The standard deviation of the sample concentrations. (See NOTE above).
UCL - Upper Confidence Level (95% one-sided) on the Mean concentration.
t-Stat - The calculated t-statistic for the mean concentration compared to the FRL. (See the Certification Report).
Prob. - The probability (based on the t-Stat) that the true CU mean exceeds the FRL. Acceptable probability for primary COCs is 5% and 10% for seconday COCs.
Pass/Fail - Pass or Fail result from the t-Test based on "t-Stat" above. The associated probability is "Prob." above.
2 x (P/F) - Pass or Fail of the "No exceedances of twice the FRL" criteria.



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Q18-40a AND Q18-40b RADIUM-226 MAP OF DATA POINTS

Q18-40 A & Q18-40B 11:02 AM 27-May-98
Method: Gamma Spec.

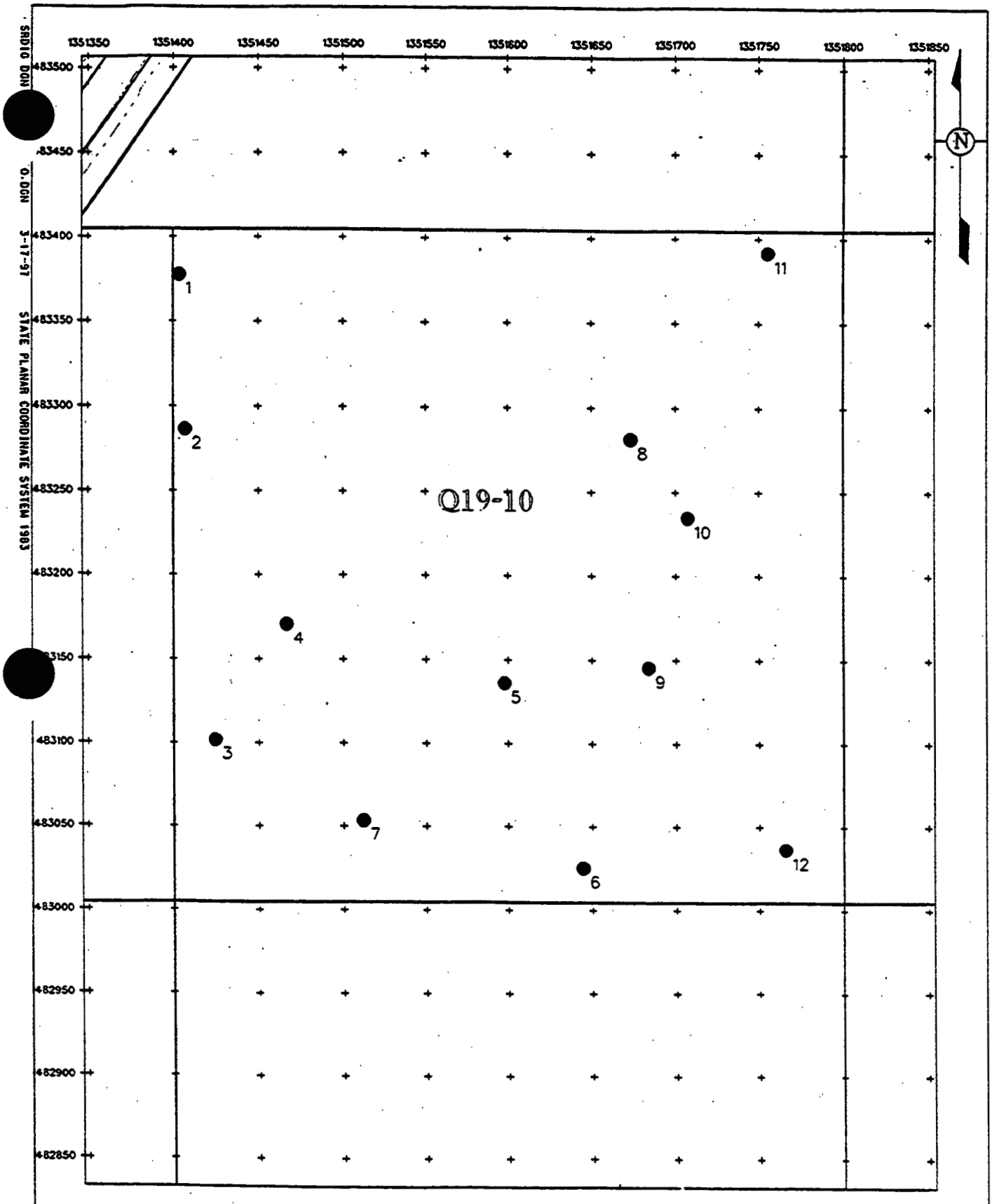
		RADIUM-226		
Map*	Sample ID	Q18-40A-C1	Sample ID	Q18-40B-C2
1	Q18-40A-C1-1-R	1.24 -	Q18-40B-C2-1-R	1.50 -
2	Q18-40A-C1-2-R	1.16 -	Q18-40B-C2-2-R	1.28 -
3	Q18-40A-C1-3-R	1.12 -	Q18-40B-C2-3-R	1.34 -
4	Q18-40C-872764	1.25 -	Q18-40B-C2-4-R	1.35 -
5	Q18-40A-C1-5-R	1.22 -	Q18-40B-C2-5-R	1.45 -
5	Q18-40A-C1-5-R-D	1.20 -	Q18-40B-C2-5-R-D	1.43 -
6	Q18-40C-870874	1.57 -	Q18-40B-C2-6-R	1.28 -
7	Q18-40C-926871	1.07 -	Q18-40B-C2-7-R	1.71 -
8	Q18-40A-C1-8-R	1.19 -	Q18-40B-C2-8-R	1.51 -
9	Q18-40A-C1-9-R	0.98 -	Q18-40B-C2-9-R	1.30 -
10	Q18-40A-C1-10-R	1.26 -	Q18-40B-C2-10-R	1.50 -
11	Q18-40A-C1-11-R	1.30 -	Q18-40B-C2-11-R	1.47 -
12	Q18-40A-C1-12-R	1.14 -	Q18-40B-C2-12-R	1.60 -
13	Q18-40A-C1-13-R	1.28 -	Q18-40B-C2-13-R	1.38 -
14	Q18-40C-898975	1.94 -	Q18-40B-C2-14-R	1.17 -
15	Q18-40C-977977	1.40 -	Q18-40B-C2-15-R	1.59 -
15	Q18-40C-977977-D	1.64 -		
16	Q18-40A-C1-16-R	1.30 -	Q18-40B-C2-16-R	1.48 -

CU / Sample Depth	Q18-40A-C1		Q18-40B-C2
FRL	1.70		1.70
Units	pCi/g		pCi/g
Background UCL	1.22		1.22
Background 95%	1.42		1.42
Samples	16		16
Hits	16		16
Max	1.94		1.71
Mean	1.28		1.43
St.Dev.	0.23		0.14
UCL	1.38		1.49
t-Stat	7.28		7.63
Prob.	0.0%		0.0%
Pass/Fail	Pass		Pass
2 x (P/F)	Pass		Pass

level was used in the calculations for results reported as below the detection limit (qualified with "U"). Duplicates were averaged before calculations were performed.

- **Please refer to Map ID in the appropriate CU: Q18-40A or Q18-40B**

KEY
FRL - Final Remedial Level
Background UCL - Upper Confidence Level (95% one-sided) on the Mean Background concentration.
Background 95% - 95th Percentile of the background dataset.
Samples - Number of distinct sample locations in the analysis (see NOTE above).
Hits - Analyte positively detected in the sample.
Max - The maximum sample result.
Mean - The mean or average concentration. (See NOTE above).
St.Dev. - The standard deviation of the sample concentrations. (See NOTE above).
UCL - Upper Confidence Level (95% one-sided) on the Mean concentration.
t-Stat - The calculated t-statistic for the mean concentration compared to the FRL. (See the Certificat
Prob. - The probability (based on the t-Stat) that the true CU mean exceeds the FRL. Acceptable prob primary COCs is 5% and 10% for seconday COCs.
Pass/Fail - Pass or Fail result from the t-Test based on "t-Stat" above. The associated probability is "
2 x (P/F) - Pass or Fail of the "No exceedances of twice the FRL" criteria.



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019-10 PRIMARY RADIOLOGICAL MAP OF DATA POINTS

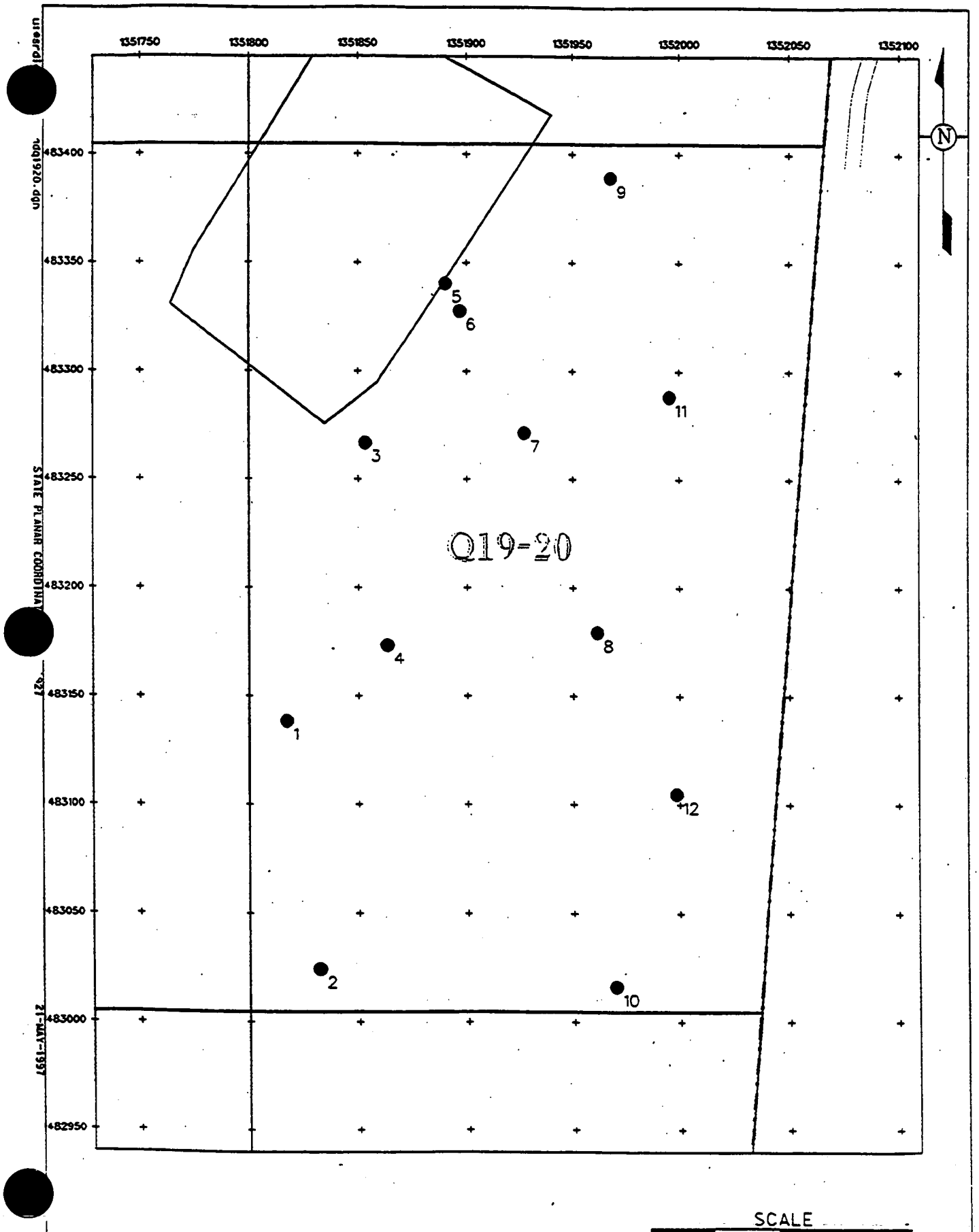
Certification Unit: Q19-10 10:17 AM 27-May-98

Map	Sample ID	PRIMARY ASCOCs Radium-226	Radium-228	Thorium-228	Thorium-232	Uranium, Total
1	Q19-10C-403377	1.40 -	1.30 -	1.10 J	0.98 J	2.55 J
2	Q19-10C-407286	1.30 -	1.40 -	1.10 J	0.96 J	4.11 J
3	Q19-10C-424101	1.40 -	1.20 -	1.10 -	1.10 -	3.30 U
4	Q19-10C-466170	1.20 -	1.10 -	1.00 J	1.00 J	3.18 -
5	Q19-10C-640364	1.12 -	1.11 -	1.13 -	1.13 -	11.96 J
6	Q19-10C-644025	1.55 -	1.01 J	1.17 -	1.31 -	8.70 U
7	Q19-10C-655190	0.84 -	0.83 J	1.15 J	1.16 J	10.77 J
8	Q19-10C-673281	1.67 -	1.71 J	1.29 J	1.03 J	16.79 -
9	Q19-10C-683145	1.47 -	1.68 -	1.20 J	1.14 J	7.50 U
10	Q19-10C-707234	1.66 -	1.72 -	1.29 J	1.19 J	11.09 U
11	Q19-10C-755391	1.64 -	1.86 -	1.33 J	1.12 J	15.80 J
12	Q19-10C-765036	1.21 -	1.36 J	1.40 -	1.24 -	9.90 U
	Method	**Gamma**	**Gamma**	**Alpha**	**Alpha**	**Gamma**
	FRL	**1.70**	**1.80**	**1.70**	**1.50**	**82.00**
	Units	pCi/g	pCi/g	pCi/g	pCi/g	ug/g
	Background UCL	1.22	1.10	1.12	1.08	3.30
	Background 95%	1.42	1.25	1.43	1.36	3.73
	Samples	12	12	12	12	12
	Hits	12	12	12	12	7
	Max	**1.67**	**1.86**	**1.40**	**1.31**	**16.79**
	Mean	1.37	1.36	1.19	1.11	7.12
	St.Dev.	0.25	0.33	0.12	0.11	5.29
	UCL	**1.50**	**1.53**	**1.25**	**1.17**	**9.86**
	t-Stat	4.52	4.71	15.23	12.63	49.08
	Prob.	0.0%	0.0%	0.0%	0.0%	0.0%
	Pass/Fail	**Pass**	**Pass**	**Pass**	**Pass**	**Pass**
	2 x (P/F)	**Pass**	**Pass**	**Pass**	**Pass**	**Pass**

NOTE: One half of the reported detection level was used in the calculations for results reported as below the detection limit (qualified with "U"). Duplicates were averaged before calculations were performed.

KEY

FRL - Final Remedial Level
Background UCL - Upper Confidence Level (95% one-sided) on the Mean Background concentration.
Background 95% - 95th Percentile of the background dataset.
Samples - Number of distinct sample locations in the analysis (see NOTE above).
Hits - Analyte positively detected in the sample.
Max - The maximum sample result.
Mean - The mean or average concentration. (See NOTE above).
St.Dev. - The standard deviation of the sample concentrations. (See NOTE above).
UCL - Upper Confidence Level (95% one-sided) on the Mean concentration.
t-Stat - The calculated t-statistic for the mean concentration compared to the FRL. (See the Certification Report).
Prob. - The probability (based on the t-Stat) that the true CU mean exceeds the FRL. Acceptable probability for primary COCs is 5% and 10% for seconday COCs.
Pass/Fail - Pass or Fail result from the t-Test based on "t-Stat" above. The associated probability is "Prob." above.
2 x (P/F) - Pass or Fail of the "No exceedances of twice the FRL" criteria.



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019-20 PRIMARY RADIOLOGICAL MAP OF DATA POINTS

Certification Unit: Q19-20 05:11 PM 06-May-98

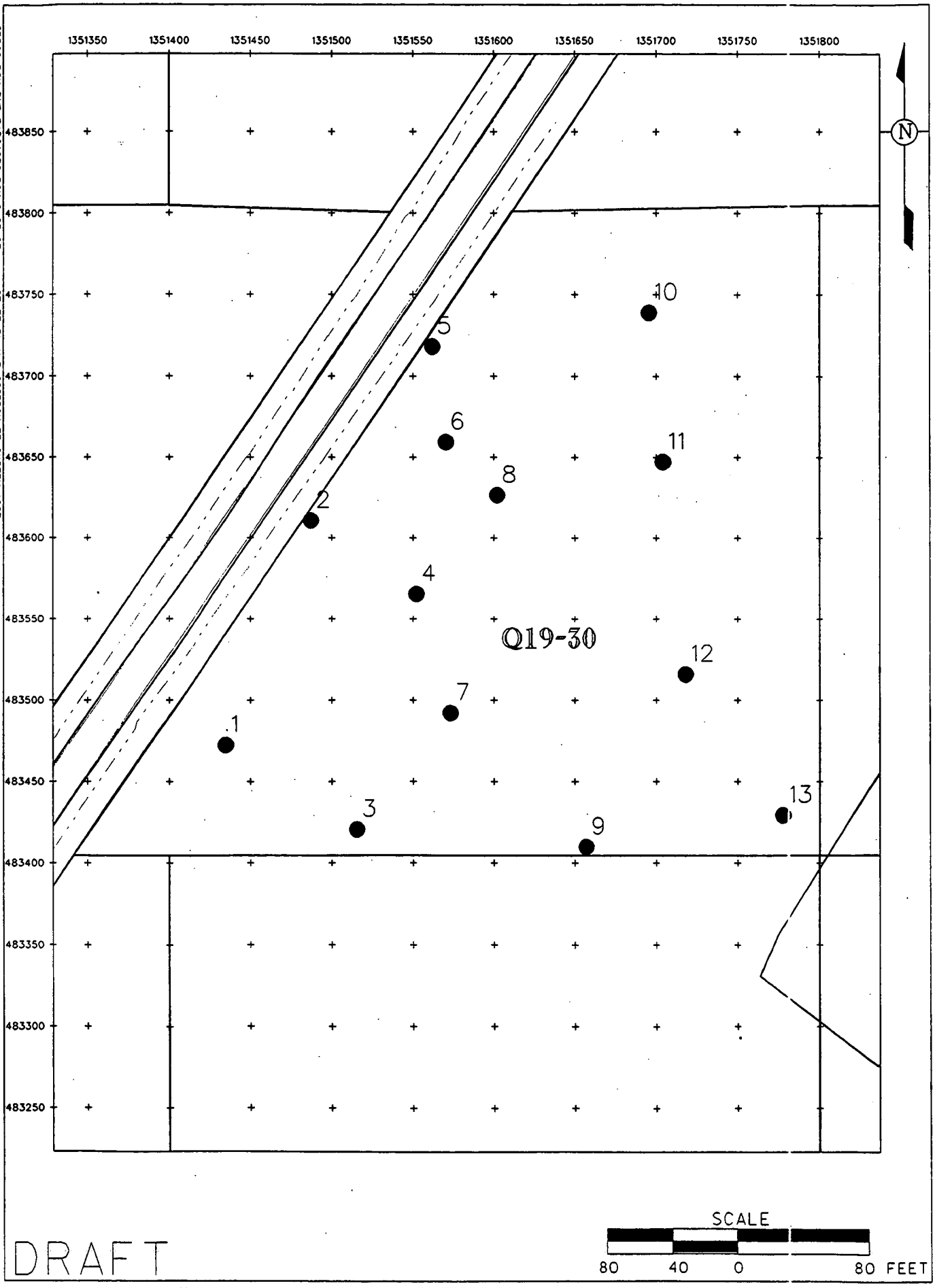
Map	Sample ID	Radium-226		Radium-228		Thorium-228		Thorium-232		Uranium-238	
		PRIMARY/ASSOC									
1	Q19-20C-817138	1.13	-	1.43	-					4.75	J
1	Q19-20C2-R-24					1.04	-	1.20	-		
2	Q19-20C-832024	1.10	-	1.14	-					12.39	-
2	Q19-20C2-R-25					1.04	-	0.98	-		
3	Q19-20C-853266	1.15	-	1.14	-					6.26	J
3	Q19-20C2-R-26					1.42	-	1.28	-		
4	Q19-20C-863173	0.98	-	1.11	-					4.56	J
4	Q19-20C2-R-27					1.04	-	0.87	-		
5	Q19-20C-890340	1.10	-	1.12	-					3.41	U
5	Q19-20C2-R-28					1.27	-	0.83	-		
6	Q19-20C-897327	1.09	-	1.01	-					10.74	J
6	Q19-20C2-R-29					1.12	-	1.12	-		
7	Q19-20C-927271	1.23	-	1.27	-					7.15	J
7	Q19-20C2-R-30					1.22	-	1.27	-		
8	Q19-20C-961179	1.16	-	1.33	-					3.30	J
8	Q19-20C2-R-31					1.18	-	1.19	-		
9	Q19-20C-967389	1.15	-	1.18	-					4.80	J
9	Q19-20C2-R-32					0.95	-	1.05	-		
10	Q19-20C-969016	0.86	-	1.06	-					6.85	J
10	Q19-20C2-R-33					1.33	-	1.04	-		
11	Q19-20C-995288	1.23	-	1.11	-					4.21	U
11	Q19-20C2-R-34					1.24	-	1.01	-		
11	Q19-20C2-R-34-D					1.04	-	1.03	-		
12	Q19-20C-998104	1.07	-	1.12	-					14.05	-
12	Q19-20C2-R-35					1.15	-	1.17	-		

Method	Gamma	Gamma	Alpha	Alpha	Gamma
FRL	**1.70**	**1.80**	**1.70**	**1.50**	**82.00**
Units	pCi/g	pCi/g	pCi/g	pCi/g	ug/g
Background UCL	1.22	1.10	1.12	1.08	3.30
Background 95%	1.42	1.25	1.43	1.36	3.73
Samples	12	12	12	12	12
Hits	12	12	12	12	10
Max	**1.23**	**1.43**	**1.42**	**1.28**	**14.05**
Mean	1.10	1.17	1.16	1.09	6.56
St.Dev.	0.10	0.12	0.14	0.15	3.96
UCL	**1.16**	**1.23**	**1.23**	**1.16**	**8.61**
t-Stat	20.04	18.39	13.87	9.89	65.97
Prob.	0.0%	0.0%	0.0%	0.0%	0.0%
Pass/Fail	**Pass**	**Pass**	**Pass**	**Pass**	**Pass**
2 x (P/F)	**Pass**	**Pass**	**Pass**	**Pass**	**Pass**

NOTE: One half of the reported detection level was used in the calculations for results reported as below the detection limit (qualified with "U"). Duplicates were averaged before calculations were performed.

KEY

FRL - Final Remedial Level
Background UCL - Upper Confidence Level (95% one-sided) on the Mean Background concentration.
Background 95% - 95th Percentile of the background dataset.
Samples - Number of distinct sample locations in the analysis (see NOTE above).
Hits - Analyte positively detected in the sample.
Max - The maximum sample result.
Mean - The mean or average concentration. (See NOTE above).
St.Dev. - The standard deviation of the sample concentrations. (See NOTE above).
UCL - Upper Confidence Level (95% one-sided) on the Mean concentration.
t-Stat - The calculated t-statistic for the mean concentration compared to the FRL. (See the Certification Report).
Prob. - The probability (based on the t-Stat) that the true CU mean exceeds the FRL. Acceptable probability for primary COCs is 5% and 10% for seconday COCs.
Pass/Fail - Pass or Fail result from the t-Test based on "t-Stat" above. The associated probability is "Prob." above.
2 x (P/F) - Pass or Fail of the "No exceedances of twice the FRL" criteria.



Q19-30 PRIMARY RADIOLOGICAL MAP OF DATA POINTS

Certification Unit: Q19-30 05:10 PM 06-May-98

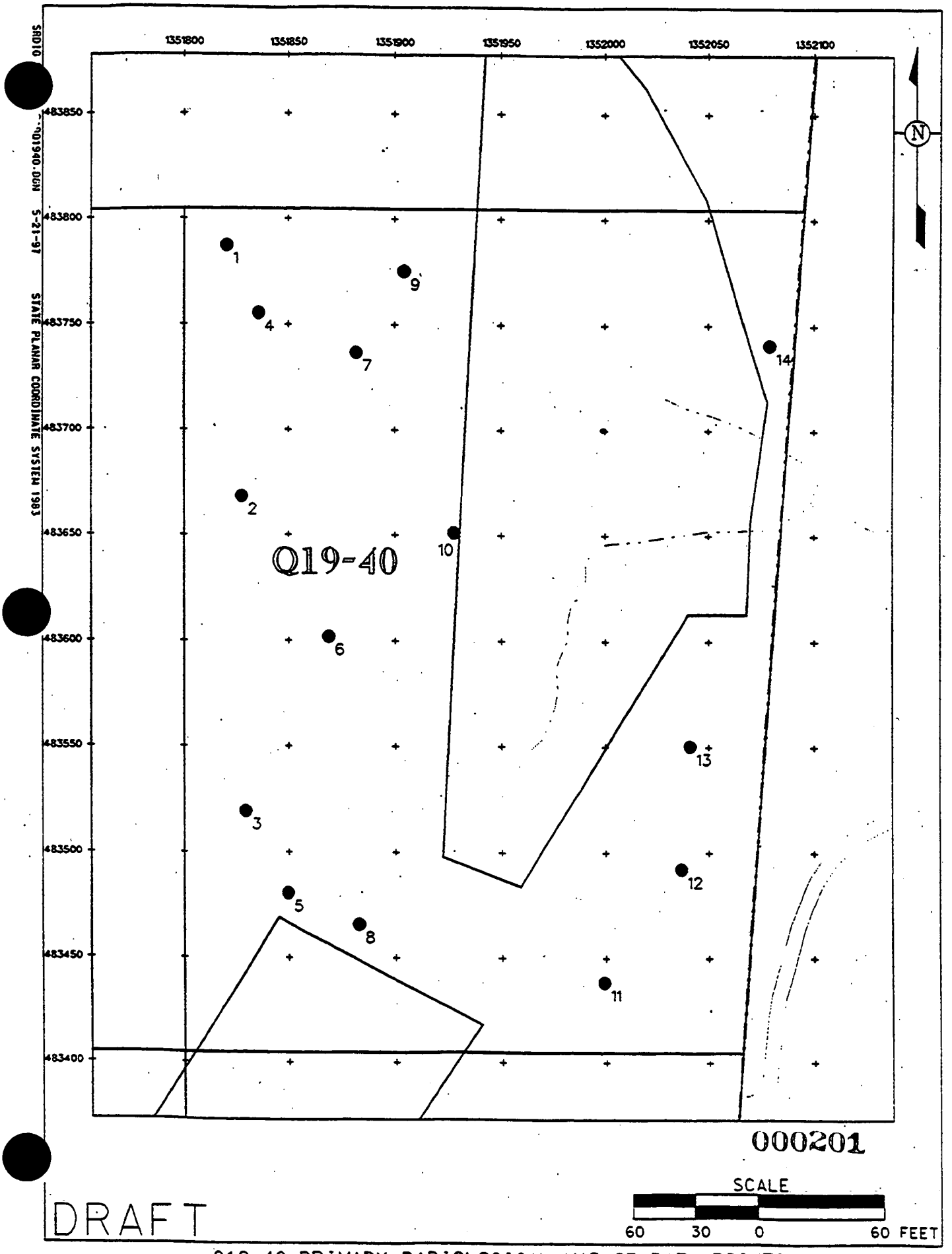
Map	Sample ID	Radium-226		Radium-226		Thorium-232		Thorium-232		Uranium-238	
		PRIMARY COCs									
1	Q19-30C-434472	1.20	-	1.10	-					6.50	J
1	Q19-30C2-R-36					1.11	-	1.24	-		
2	Q19-30C-487610	1.17	-	1.13	-					6.10	J
2	Q19-30C2-R-37					1.40	-	1.08	-		
3	Q19-30C2-R-2	1.23	-	1.31	-	1.43	-	1.20	-	5.39	J
4	Q19-30C-552565	1.22	-	1.26	-					18.77	-
4	Q19-30C2-R-38					1.23	J	1.00	J		
5	Q19-30C2-R-40					1.27	-	1.04	-		
6	Q19-30C-562718	1.11	-	1.24	-					6.27	J
6	Q19-30C2-R-39					1.13	-	1.05	-		
7	Q19-30C-570659	1.09	-	1.29	-					4.42	J
7	Q19-30C2-R-41					1.30	-	0.96	-		
8	Q19-30C-573492	1.12	-	1.21	-					9.54	J
8	Q19-30C2-R-42					1.14	-	1.09	-		
9	Q19-30C-602626	1.26	-	1.20	-					9.05	J
9	Q19-30C2-R-43					1.46	-	1.27	-		
10	Q19-30C-657409	0.90	-	1.07	-					19.47	-
10	Q19-30C2-R-44					1.20	-	1.08	-		
11	Q19-30C-695738	1.17	-	1.29	-					8.02	J
11	Q19-30C2-R-45					1.20	-	1.11	-		
12	Q19-30C2-R-1	1.06	-	0.92	-	1.05	-	0.95	-	2.61	U
13	Q19-30C-718516	1.26	-	1.26	-					9.60	J
13	Q19-30C2-R-46					1.01	-	1.01	-		
14	Q19-30C-777429	1.01	-	1.06	-					4.21	J
14	Q19-30C2-R-47					0.87	-	0.81	-		

Method	Gamma	Gamma	Alpha	Alpha	Gamma
FRL	**1.70**	**1.80**	**1.70**	**1.50**	**82.00**
Units	pCi/g	pCi/g	pCi/g	pCi/g	ug/g
Background UCL	1.22	1.10	1.12	1.08	3.30
Background 95%	1.42	1.25	1.43	1.36	3.73
Samples	13	13	14	14	13
Hits	13	13	14	14	12
Max	**1.26**	**1.31**	**1.46**	**1.27**	**19.47**
Mean	1.14	1.18	1.20	1.06	8.36
St.Dev.	0.11	0.12	0.17	0.12	5.32
UCL	**1.19**	**1.24**	**1.28**	**1.12**	**10.99**
t-Stat	19.08	19.26	11.19	13.47	49.92
Prob.	0.0%	0.0%	0.0%	0.0%	0.0%
Pass/Fail	**Pass**	**Pass**	**Pass**	**Pass**	**Pass**
2 x (P/F)	**Pass**	**Pass**	**Pass**	**Pass**	**Pass**

NOTE: One half of the reported detection level was used in the calculations for results reported as below the detection limit (qualified with "U"). Duplicates were averaged before calculations were performed.

KEY

FRL - Final Remedial Level
Background UCL - Upper Confidence Level (95% one-sided) on the Mean Background concentration.
Background 95% - 95th Percentile of the background dataset.
Samples - Number of distinct sample locations in the analysis (see NOTE above).
Hits - Analyte positively detected in the sample.
Max - The maximum sample result.
Mean - The mean or average concentration. (See NOTE above).
St.Dev. - The standard deviation of the sample concentrations. (See NOTE above).
UCL - Upper Confidence Level (95% one-sided) on the Mean concentration.
t-Stat - The calculated t-statistic for the mean concentration compared to the FRL. (See the Certification Report).
Prob. - The probability (based on the t-Stat) that the true CU mean exceeds the FRL. Acceptable probability for primary COCs is 5% and 10% for seconday COCs.
Pass/Fail - Pass or Fail result from the t-Test based on "t-Stat" above. The associated probability is "Prob." above.
2 x (P/F) - Pass or Fail of the "No exceedances of twice the FRL" criteria.



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019-40 PRIMARY RADIOLOGICAL MAP OF DATA POINTS

Certification Unit: Q19-40 05:12 PM 06-May-98

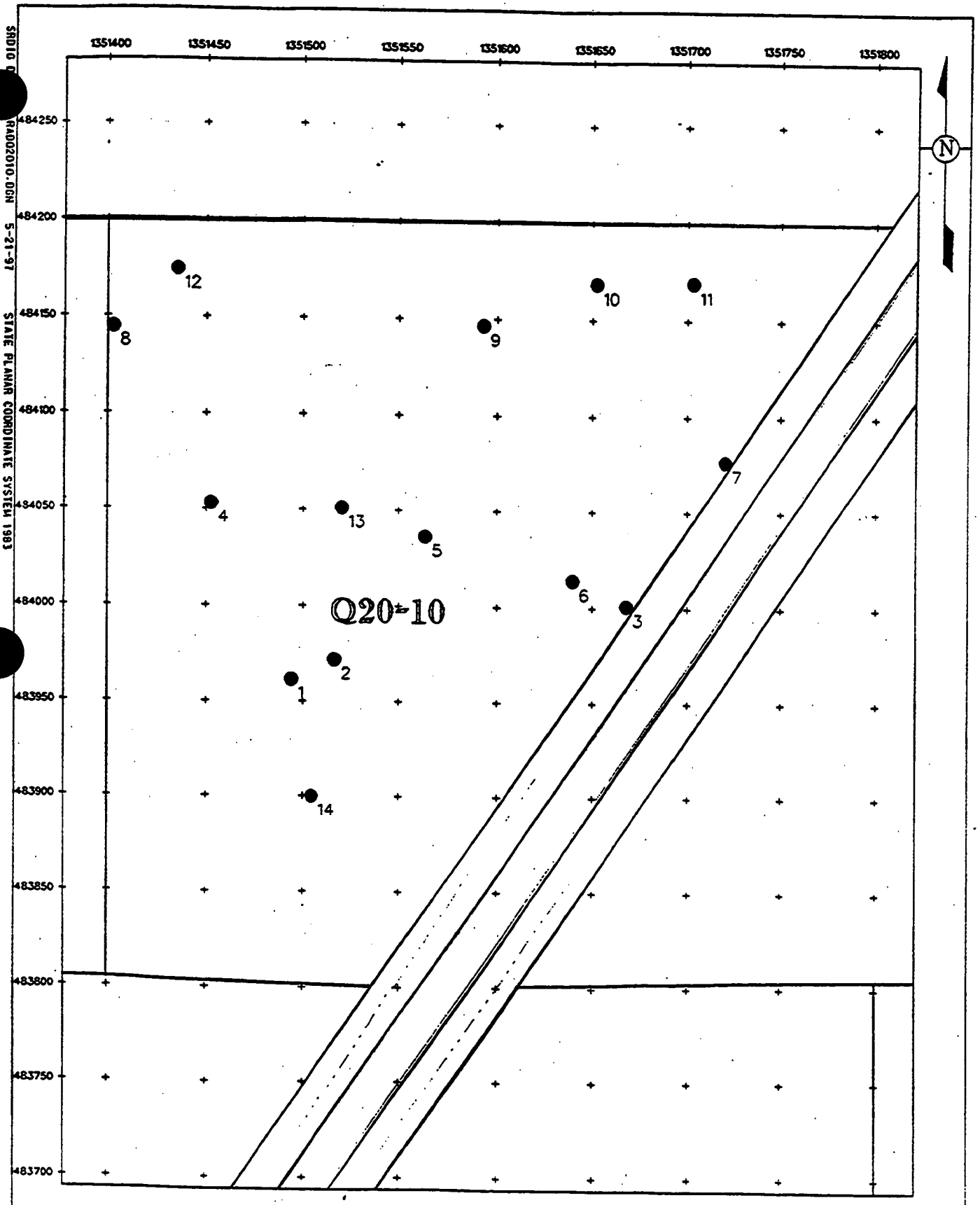
Map	Sample ID	Radium-226		Radium-226		Thorium-232		Thorium-232		Uranium-238	
		PRIMARY ASSOCIATED									
1	Q19-40C2-R-2	1.31	-	1.43	-	1.05	J	0.85	J	3.85	J
2	Q19-40C2-R-4	1.20	-	1.27	-	1.19	-	1.24	-	3.86	J
3	Q19-40C2-R-1	1.08	-	1.06	-	1.06	-	1.07	-	14.11	-
4	Q19-40C2-R-50					1.18	J	1.01	J		
4	Q19-40C2-R-50-D					1.42	-	1.00	-		
4	Q19-40C-835755	1.16	-	1.25	-					4.04	J
5	Q19-40C2-R-51					1.31	-	1.00	-		
5	Q19-40C-849480	1.16	-	1.33	-					9.15	J
6	Q19-40C2-R-6	1.32	-	1.23	-	1.12	-	1.12	-	7.73	J
7	Q19-40C2-R-3	1.45	-	1.19	-	1.12	-	1.08	-	3.93	U
8	Q19-40C-882465	1.20	-	1.23	-					11.17	J
8	Q19-40C-882465-D	1.07	-	1.06	-					10.65	J
8	Q19-40C2-R-52					1.22	-	1.06	-		
9	Q19-40C2-R-53					1.37	-	1.13	-		
9	Q19-40C-904775	1.32	-	1.26	-					7.05	J
10	Q19-40C-927651	1.39	-	1.34	-					5.63	J
11	Q19-40C2-R-54					1.04	-	1.00	-		
11	Q19-40C-999438	1.23	-	0.89	-					4.63	U
12	Q19-40C2-R-5	1.22	-	1.07	-	1.00	J	1.02	J	6.38	J
13	Q19-40C2-R-48					1.15	-	1.01	-		
13	Q19-40C-041550	1.20	-	1.54	-					17.17	J
14	Q19-40C-079740	1.34	-	1.14	-					7.74	J
14	Q19-40C2-R-49					1.07	-	0.94	-		

Method	Gamma	Gamma	Alpha	Alpha	Gamma
FRL	**1.70**	**1.80**	**1.70**	**1.50**	**82.00**
Units	pCi/g	pCi/g	pCi/g	pCi/g	ug/g
Background UCL	1.22	1.10	1.12	1.08	3.30
Background 95%	1.42	1.25	1.43	1.36	3.73
Samples	14	14	13	13	14
Hits	14	14	13	13	12
Max	**1.45**	**1.54**	**1.37**	**1.24**	**17.17**
Mean	1.25	1.23	1.15	1.04	7.28
St.Dev.	0.11	0.16	0.12	0.10	4.40
UCL	**1.30**	**1.30**	**1.21**	**1.09**	**9.36**
t-Stat	15.81	13.19	16.83	17.36	63.51
Prob.	0.0%	0.0%	0.0%	0.0%	0.0%
Pass/Fail	**Pass**	**Pass**	**Pass**	**Pass**	**Pass**
2 x (P/F)	**Pass**	**Pass**	**Pass**	**Pass**	**Pass**

NOTE: One half of the reported detection level was used in the calculations for results reported as below the detection limit (qualified with "U"). Duplicates were averaged before calculations were performed.

KEY

FRL - Final Remedial Level
Background UCL - Upper Confidence Level (95% one-sided) on the Mean Background concentration.
Background 95% - 95th Percentile of the background dataset.
Samples - Number of distinct sample locations in the analysis (see NOTE above).
Hits - Analyte positively detected in the sample.
Max - The maximum sample result.
Mean - The mean or average concentration. (See NOTE above).
St.Dev. - The standard deviation of the sample concentrations. (See NOTE above).
UCL - Upper Confidence Level (95% one-sided) on the Mean concentration.
t-Stat - The calculated t-statistic for the mean concentration compared to the FRL. (See the Certification Report).
Prob. - The probability (based on the t-Stat) that the true CU mean exceeds the FRL. Acceptable probability for primary COCs is 5% and 10% for seconday COCs.
Pass/Fail - Pass or Fail result from the t-Test based on "t-Stat" above. The associated probability is "Prob." above.
2 x (P/F) - Pass or Fail of the "No exceedances of twice the FRL" criteria.



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SCALE

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Q20-10 PRIMARY RADIOLOGICAL MAP OF DATA POINTS

Certification Unit: Q20-10 05:05 PM 06-May-98

Map	Sample ID	PRIMARY ASSOC. Radium-226		Radium-228		Thorium-228		Thorium-232		Uranium-238	
1	Q20-10C-5-R	1.20	-	1.30	-	1.11	J	1.04	-	26.99	-
2	Q20-10C-6-R	1.00	-	1.40	-	1.23	-	1.09	-	21.59	-
3	Q20-10C-8-R	1.36	-	1.33	-	1.51	J	1.27	J	11.91	-
3	Q20-10C-8-R-D	1.20	-	1.29	-	1.68	-	1.31	-	8.60	-
4	Q20-10C-9-R	1.20	-	1.30	-	1.08	J	0.88	-	15.29	-
5	Q20-10C-10-R	0.91	-	1.40	-	1.14	-	0.94	-	17.09	-
6	Q20-10C-11-R	0.91	-	1.20	-	1.08	-	1.07	-	15.89	-
7	Q20-10C-12-R	0.90	-	1.20	-	1.10	-	1.03	-	11.10	-
8	Q20-10C-13-R	1.20	-	1.40	-	1.38	J	1.26	-	9.00	J
9	Q20-10C-14-R	1.20	-	1.20	-	1.12	-	1.13	-	21.29	-
10	Q20-10C-15-R	0.48	-	0.66	-	1.22	-	1.13	-	8.70	J
11	Q20-10C2-R-1	1.59	-	1.36	-	1.50	-	1.34	-	9.47	-
11	Q20-10C2-R-1-D	1.46	-	1.25	-	1.32	J	1.15	J	9.05	-
12	Q20-10C2-R-2	1.06	-	1.34	-	1.31	J	1.20	J	5.01	-
13	Q20-10C2-R-3	1.47	-	1.70	-	1.61	-	1.27	-	11.57	-
14	Q20-10C2-R-4	1.60	-	1.54	-	1.56	-	1.45	-	14.73	-

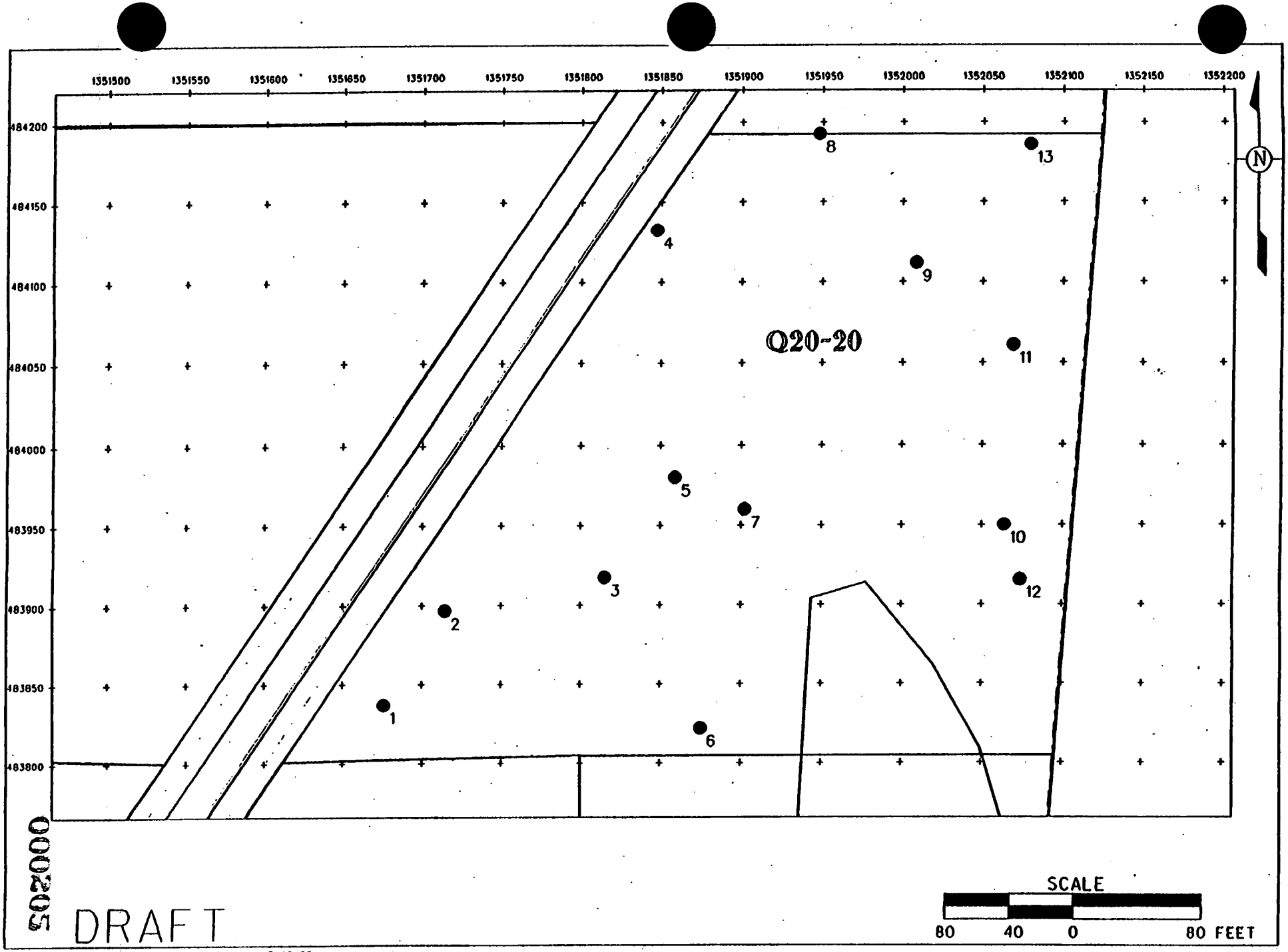
Method	Gamma	Gamma	Alpha	Alpha	Gamma
FRL	**1.70**	**1.80**	**1.70**	**1.50**	**82.00**
Units	pCi/g	pCi/g	pCi/g	pCi/g	ug/g
Background UCL	1.22	1.10	1.12	1.08	3.30
Background 95%	1.42	1.25	1.43	1.36	3.73
Samples	14	14	14	14	14
Hits	14	14	14	14	14
Max	**1.60**	**1.70**	**1.61**	**1.45**	**26.99**
Mean	1.14	1.30	1.28	1.15	14.13
St.Dev.	0.29	0.23	0.20	0.15	6.07
UCL	**1.28**	**1.41**	**1.38**	**1.22**	**17.00**
t-Stat	7.15	8.11	7.89	8.75	41.83
Prob.	0.0%	0.0%	0.0%	0.0%	0.0%
Pass/Fail	**Pass**	**Pass**	**Pass**	**Pass**	**Pass**
2 x (P/F)	**Pass**	**Pass**	**Pass**	**Pass**	**Pass**

NOTE: One half of the reported detection level was used in the calculations for results reported as below the detection limit (qualified with "U"). Duplicates were averaged before calculations were performed.

KEY

FRL - Final Remedial Level
Background UCL - Upper Confidence Level (95% one-sided) on the Mean Background concentration.
Background 95% - 95th Percentile of the background dataset.
Samples - Number of distinct sample locations in the analysis (see NOTE above).
Hits - Analyte positively detected in the sample.
Max - The maximum sample result.
Mean - The mean or average concentration. (See NOTE above).
St.Dev. - The standard deviation of the sample concentrations. (See NOTE above).
UCL - Upper Confidence Level (95% one-sided) on the Mean concentration.
t-Stat - The calculated t-statistic for the mean concentration compared to the FRL. (See the Certification Report).
Prob. - The probability (based on the t-Stat) that the true CU mean exceeds the FRL. Acceptable probability for primary COCs is 5% and 10% for seconday COCs.
Pass/Fail - Pass or Fail result from the t-Test based on "t-Stat" above. The associated probability is "Prob." above.
2 x (P/F) - Pass or Fail of the "No exceedances of twice the FRL" criteria.

F-1480



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SRDIG DGN BMP RAD02020.DGN 5-19-97
STATE PLANAR COORDINATE SYSTEM 1983

Q20-20 PRIMARY RADIOLOGICAL MAP OF DATA POINTS

1480

Certification Unit: Q20-20 04:24 PM 06-May-98

Map	Sample ID	Radium-226		Radium-228		Thorium-232		Uranium-234		Uranium-238	
		PRIMARY COCs									
1	Q20-20C2-R-3	1.46	-	1.07	-	1.36	J	1.11	J	1.51	J
2	Q20-10C-714896	1.20	-	1.70	-	1.50	-	1.20	-	6.30	J
3	Q20-20C-815917	1.11	-	1.11	-					5.55	J
3	Q20-20C2-R-58					1.06	-	1.27	-		
4	Q20-20C-847132	0.90	-	1.10	-	1.50	-	1.30	-	23.09	-
5	Q20-20C-859980	0.79	-	0.97	-					4.48	J
5	Q20-20C2-R-59					1.36	-	1.23	-		
6	Q20-20C-875821	1.32	-	1.18	-					6.51	J
6	Q20-20C2-R-60					1.20	-	1.25	-		
7	Q20-20C-902959	1.08	-	1.23	-					6.12	J
7	Q20-20C2-R-61					1.21	-	0.97	-		
8	Q20-20C-947192	1.10	-	1.20	-	1.60	-	1.40	-	15.29	-
9	Q20-20C-008111	1.00	-	1.30	-	1.40	-	1.20	-	12.29	-
10	Q20-20C-064950	1.09	-	1.16	-					6.85	J
10	Q20-20C2-R-55					1.10	-	1.27	-		
11	Q20-20C2-R-2	1.16	-	1.16	-	1.23	J	0.95	J	10.35	-
12	Q20-20C-074915	0.91	-	1.24	-					21.97	-
12	Q20-20C2-R-56					1.04	-	1.02	-		
13	Q20-20C2-R-1	1.13	-	1.11	-	1.25	J	1.08	J	3.26	-

Method	Gamma	Gamma	Alpha	Alpha	Gamma
FRL	**1.70**	**1.80**	**1.70**	**1.50**	**82.00**
Units	pCi/g	pCi/g	pCi/g	pCi/g	ug/g
Background UCL	1.22	1.10	1.12	1.08	3.30
Background 95%	1.42	1.25	1.43	1.36	3.73
Samples	13	13	13	13	13
Hits	13	13	13	13	13
Max	**1.46**	**1.70**	**1.60**	**1.40**	**23.09**
Mean	1.09	1.19	1.29	1.17	9.51
St.Dev.	0.18	0.17	0.18	0.14	6.85
UCL	**1.18**	**1.28**	**1.38**	**1.24**	**12.89**
t-Stat	12.36	12.57	8.27	8.63	38.15
Prob.	0.0%	0.0%	0.0%	0.0%	0.0%
Pass/Fail	**Pass**	**Pass**	**Pass**	**Pass**	**Pass**
2 x (P/F)	**Pass**	**Pass**	**Pass**	**Pass**	**Pass**

NOTE: One half of the reported detection level was used in the calculations for results reported as below the detection limit (qualified with "U"). Duplicates were averaged before calculations were performed.

KEY

FRL - Final Remedial Level
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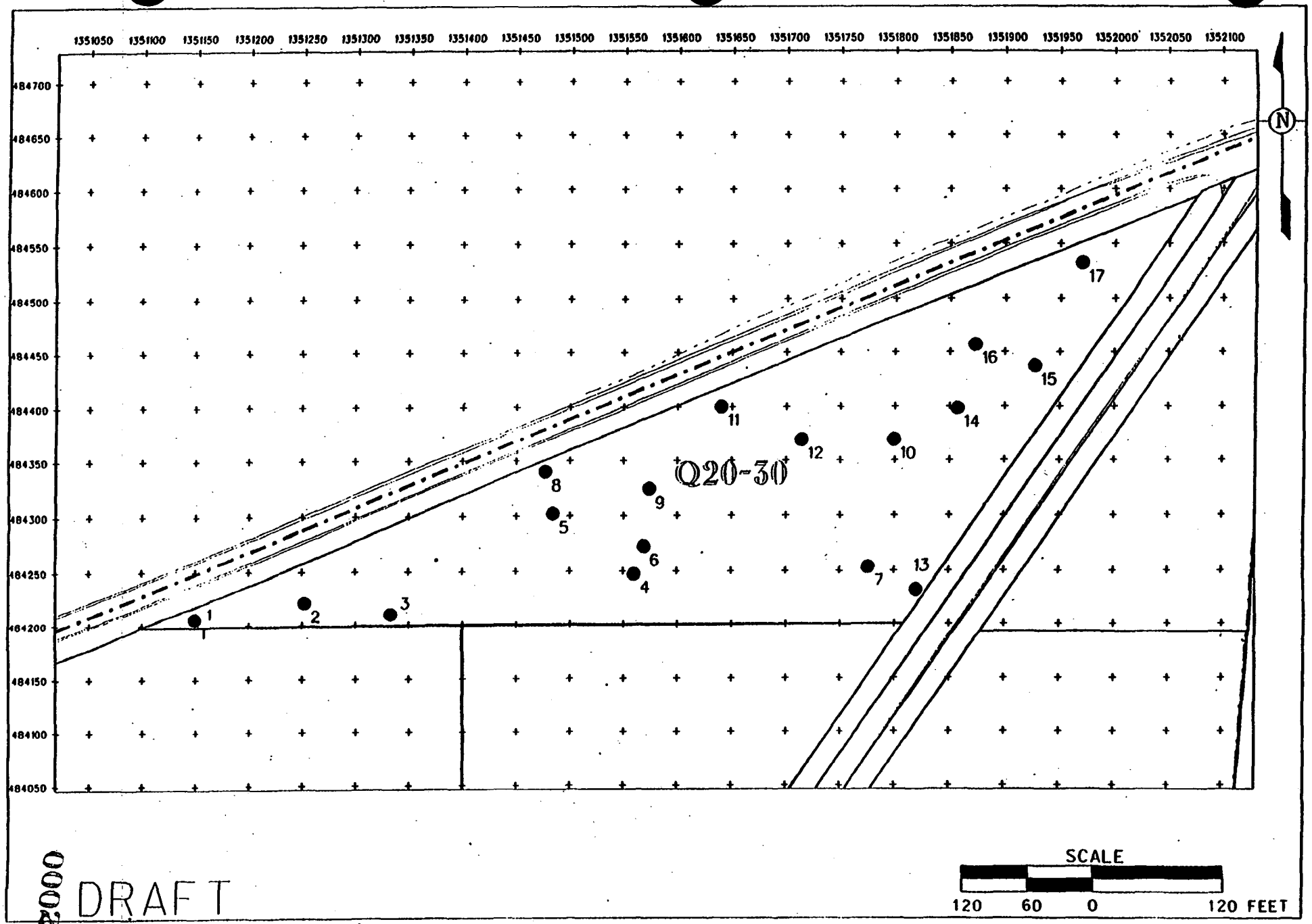
Prob. - The probability (based on the t-Stat) that the true CU mean exceeds the FRL. Acceptable probability for primary COCs is 5% and 10% for seconday COCs.
Pass/Fail - Pass or Fail result from the t-Test based on "t-Stat" above. The associated probability is "Prob." above.
2 x (P/F) - Pass or Fail of the "No exceedances of twice the FRL" criteria.



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SRDIG DGN BMP RAD02030.DGN 5-21-97
STATE PLANAR COORDINATE SYSTEM 1983

Q20-30 PRIMARY RADIOLOGICAL MAP OF DATA POINTS

202000

1480

Certification Unit: Q20-30 04:22 PM 06-May-98

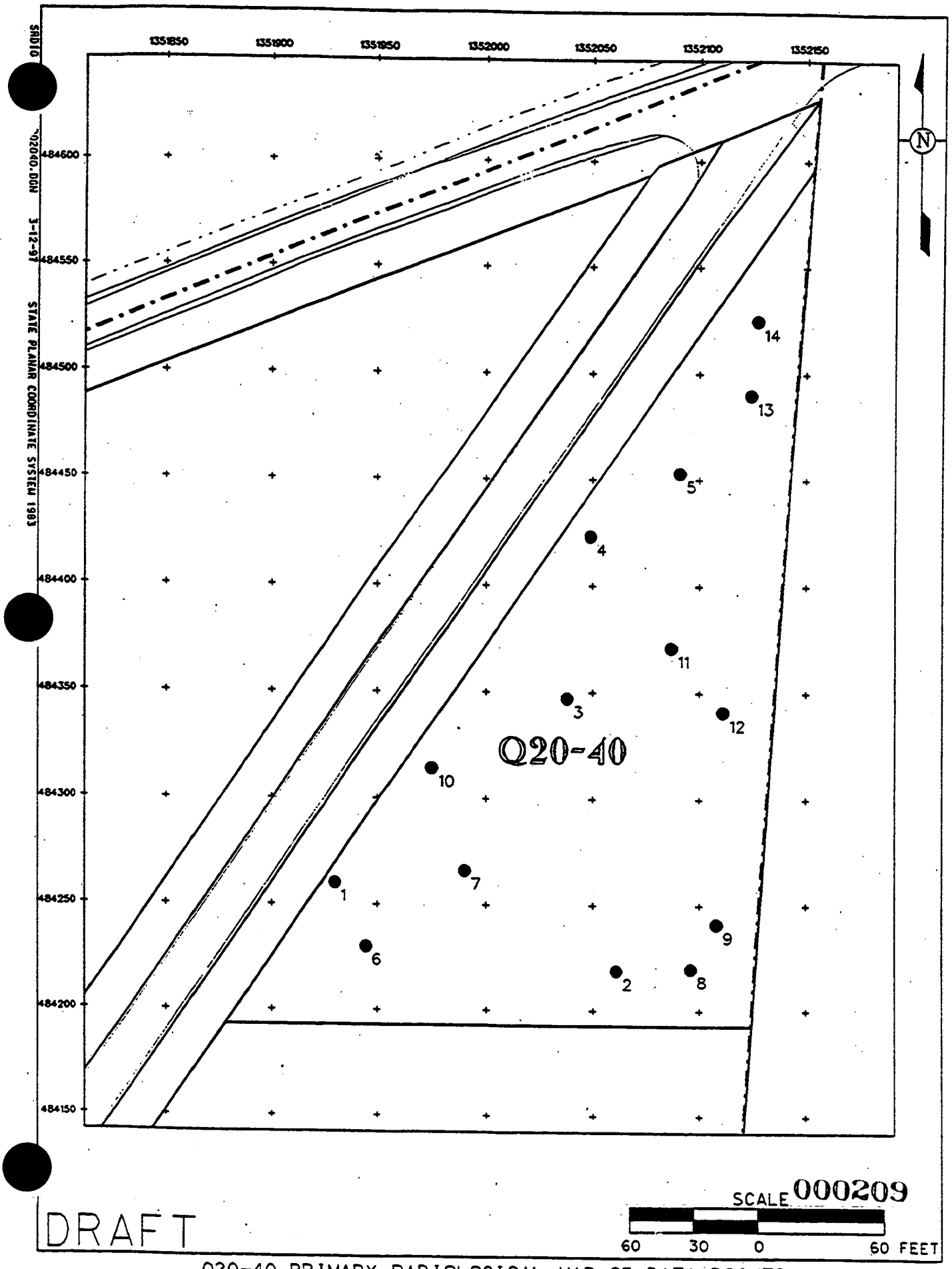
Map	Sample ID	PRIMARY ASSOC. Radium-226		Radium-228		Thorium-232		Uranium-238		Uranium-nat	
1	Q20-30C-1-R	1.17	-	1.27	-	1.33	-	1.21	-	9.98	J
1	Q20-30C-1-R-D	1.18	-	1.25	-	1.44	-	1.41	-	6.39	J
2	Q20-30C-3-R	1.22	-	1.18	-	1.51	-	1.26	-	11.04	-
3	Q20-30C-4-R	1.29	-	1.37	-	1.57	-	1.40	-	6.95	-
4	Q20-30C-5-R	1.29	-	1.47	-	1.52	-	1.27	-	13.01	-
5	Q20-30C-8-R	0.89	-	0.95	-	1.51	-	1.40	-	8.31	-
6	Q20-30C-9-R	1.14	-	1.42	-	1.40	-	0.95	-	12.94	-
7	Q20-30C-10-R	1.14	-	1.12	-	1.15	-	1.02	-	13.13	-
8	Q20-30C-11-R	1.11	-	1.14	-	1.08	J	0.96	J	5.50	-
9	Q20-30C-12-R	1.21	-	1.33	-	1.44	-	1.33	-	15.84	-
10	Q20-30C-13-R	0.88	-	1.11	-	0.80	-	0.85	-	13.88	-
11	Q20-30C-14-R	0.80	-	1.18	-	1.16	-	1.08	-	10.05	J
12	Q20-30C-15-R	1.10	-	1.24	-	1.26	-	1.14	-	15.46	-
13	Q20-40C-1-R	1.40	-	1.50	-	1.65	-	1.30	-	7.20	-
14	Q20-40C-9-R	1.20	-	1.30	-	1.50	-	1.30	-	6.60	-
15	Q20-40C-10-R	1.10	-	1.25	-	1.80	-	1.50	-	11.99	-
15	Q20-40C-10-R-D	1.10	-	1.50	-	1.40	J	1.30	J	9.60	-
16	Q20-40C-13-R	1.30	-	1.40	-	1.70	-	1.30	-	10.20	-
17	Q20-40C-14-R	1.00	-	1.30	-	1.40	J	1.30	J	7.50	-

Method	Gamma	Gamma	Alpha	Alpha	Gamma
FRL	**1.70**	**1.80**	**1.70**	**1.50**	**82.00**
Units	pCi/g	pCi/g	pCi/g	pCi/g	ug/g
Background UCL	1.22	1.10	1.12	1.08	3.30
Background 95%	1.42	1.25	1.43	1.36	3.73
Samples	17	17	17	17	17
Hits	17	17	17	17	17
Max	**1.40**	**1.50**	**1.70**	**1.40**	**15.84**
Mean	1.13	1.27	1.39	1.21	10.39
St.Dev.	0.16	0.15	0.23	0.17	3.23
UCL	**1.20**	**1.33**	**1.49**	**1.28**	**11.76**
t-Stat	14.43	14.87	5.49	6.83	91.36
Prob.	0.0%	0.0%	0.0%	0.0%	0.0%
Pass/Fail	**Pass**	**Pass**	**Pass**	**Pass**	**Pass**
2 x (P/F)	**Pass**	**Pass**	**Pass**	**Pass**	**Pass**

NOTE: One half of the reported detection level was used in the calculations for results reported as below the detection limit (qualified with "U"). Duplicates were averaged before calculations were performed.

KEY

FRL - Final Remedial Level
Background UCL - Upper Confidence Level (95% one-sided) on the Mean Background concentration.
Background 95% - 95th Percentile of the background dataset.
Samples - Number of distinct sample locations in the analysis (see NOTE above).
Hits - Analyte positively detected in the sample.
Max - The maximum sample result.
Mean - The mean or average concentration. (See NOTE above).
St.Dev. - The standard deviation of the sample concentrations. (See NOTE above).
UCL - Upper Confidence Level (95% one-sided) on the Mean concentration.
t-Stat - The calculated t-statistic for the mean concentration compared to the FRL. (See the Certification Report).
Prob. - The probability (based on the t-Stat) that the true CU mean exceeds the FRL. Acceptable probability for primary COCs is 5% and 10% for seconday COCs.
Pass/Fail - Pass or Fail result from the t-Test based on "t-Stat" above. The associated probability is "Prob." above.
2 x (P/F) - Pass or Fail of the "No exceedances of twice the FRL" criteria.



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Q20-40 PRIMARY RADIOLOGICAL MAP OF DATA POINTS

Certification Unit: Q20-40 05:15 PM 06-May-98

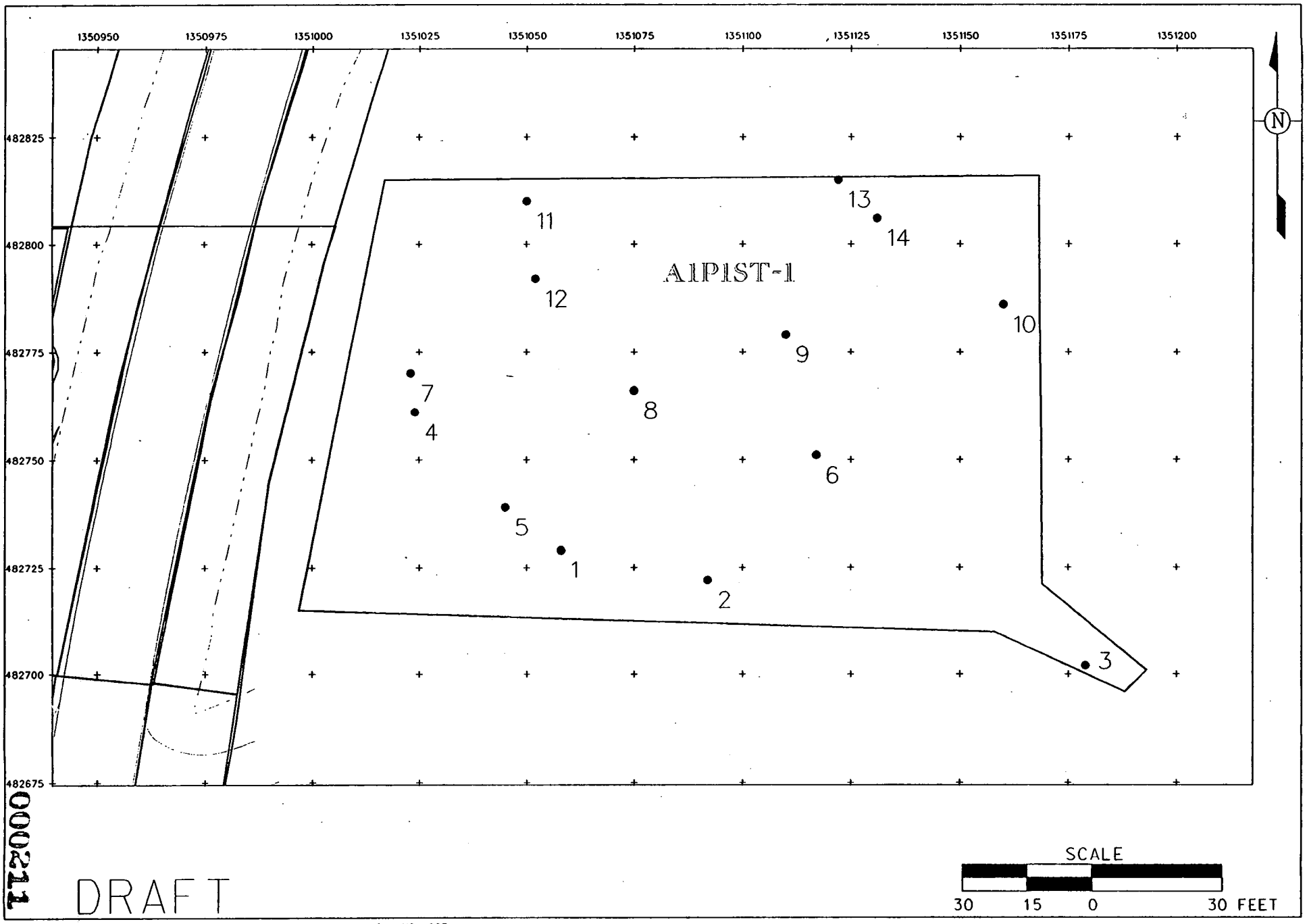
		PRIMARY COC				
Num	Sample ID	Radium-226	Radium-226	Thorium-226	Thorium-232	Uranium-nat
1	Q20-40C-2-R	1.20 -	1.10 -	1.30 J	1.10 J	7.20 -
2	Q20-40C-4-R	1.30 -	1.20 -	1.50 -	1.20 -	5.40 -
3	Q20-40C-7-R	1.30 -	1.46 -	1.40 -	1.40 -	10.80 -
4	Q20-40C-11-R	1.40 -	1.30 -	1.50 -	1.30 -	11.69 -
5	Q20-40C-12-R	0.74 -	0.77 -	1.40 -	1.30 -	9.60 -
6	Q20-40C2-2-R			1.73 J	1.41 J	
7	Q20-40C2-3-R	1.25 -	1.32 -	1.66 J	1.24 J	8.67 -
8	Q20-40C2-6-R	1.55 -	1.40 -	1.69 J	1.36 J	2.29 U
9	Q20-40C2-7-RV	1.33 -	1.45 -	1.46 -	1.28 -	10.21 -
10	Q20-40C2-8-R	1.34 -	1.15 -	1.47 J	1.26 -	6.83 -
11	Q20-40C2-11-R	1.54 -	1.24 -	1.59 J	1.39 J	5.33 -
12	Q20-40C2-12-R	1.64 -	1.31 -	1.44 J	1.12 -	4.89 J
12	Q20-40C2-12-R-D	1.43 -	1.14 -	1.52 J	1.23 J	12.38 J
13	Q20-40C2-15-RV	1.22 -	1.21 -	1.11 J	0.98 J	13.10 -
14	Q20-40C2-16-R	1.47 -	1.20 -	1.53 J	1.25 -	6.69 -

Method	Gamma	Gamma	Alpha	Alpha	Gamma
FRL	**1.70**	**1.80**	**1.70**	**1.50**	**82.00**
Units	pCi/g	pCi/g	pCi/g	pCi/g	ug/g
Background UCL	1.22	1.10	1.12	1.08	3.30
Background 95%	1.42	1.25	1.43	1.36	3.73
Samples	13	13	14	14	13
Hits	13	13	14	14	12
Max	**1.55**	**1.46**	**1.73**	**1.41**	**13.10**
Mean	1.32	1.23	1.49	1.26	8.10
St.Dev.	0.21	0.18	0.16	0.12	3.16
UCL	**1.43**	**1.32**	**1.56**	**1.32**	**9.66**
t-Stat	6.43	11.50	4.95	7.49	84.19
Prob.	0.0%	0.0%	0.0%	0.0%	0.0%
Pass/Fail	**Pass**	**Pass**	**Pass**	**Pass**	**Pass**
2 x (P/F)	**Pass**	**Pass**	**Pass**	**Pass**	**Pass**

NOTE: One half of the reported detection level was used in the calculations for results reported as below the detection limit (qualified with "U"). Duplicates were averaged before calculations were performed.

KEY

FRL - Final Remedial Level
Background UCL - Upper Confidence Level (95% one-sided) on the Mean Background concentration.
Background 95% - 95th Percentile of the background dataset.
Samples - Number of distinct sample locations in the analysis (see NOTE above).
Hits - Analyte positively detected in the sample.
Max - The maximum sample result.
Mean - The mean or average concentration. (See NOTE above).
St.Dev. - The standard deviation of the sample concentrations. (See NOTE above).
UCL - Upper Confidence Level (95% one-sided) on the Mean concentration.
t-Stat - The calculated t-statistic for the mean concentration compared to the FRL. (See the Certification Report).
Prob. - The probability (based on the t-Stat) that the true CU mean exceeds the FRL. Acceptable probability for primary COCs is 5% and 10% for seconday COCs.
Pass/Fail - Pass or Fail result from the t-Test based on "t-Stat" above. The associated probability is "Prob." above.
2 x (P/F) - Pass or Fail of the "No exceedances of twice the FRL" criteria.



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STATE PLANAR COORDINATE SYSTEM 1983

21-AUG-1997

A1P1ST-1 METALS MAP OF DATA POINTS

1480

Certification Unit: A1P1ST-1 03:29 PM 13-May-98

		Certification Analytes		Ecological COCs		
Map	Sample ID	Arsenic	Beryllium	Aluminum	Manganese	Molybdenum
1	A1P1ST1-2C-M	9.6 J	0.72 -	10600 -	654 J	1.3 U
2	A1P1ST1-3C-M	7.8 J	0.87 -	8460 -	799 J	1.3 U
3	A1P1ST1-4C-M	10.2 J	1.2 -	10000 -	1040 J	0.99 U
4	A1P1ST1-5C-M	10.3 -	1 -	13300 -	279 -	1.3 U
5	A1P1ST1-6C-M	9.4 -	1.1 -	14800 -	619 -	1 U
6	A1P1ST1-7C-M	10 -	1 -	15500 -	1180 -	1 U
7	A1P1ST1-9C-M	7.1 J	0.72 -	7600 -	647 J	0.98 U
8	A1P1ST1-10C-M	6.3 -	0.8 -	11200 -	568 -	0.93 U
9	A1P1ST1-11C-M	6.8 -	0.71 -	10000 -	498 -	1.1 U
10	A1P1ST1-12C-M	9.2 -	1 -	15100 -	834 -	1.2 U
11	A1P1ST1-13C-M	8.3 -	0.84 -	12900 -	614 -	0.97 U
11	A1P1ST1-13C-M-D	7.5 -	0.77 -	11800 -	577 -	1.4 U
12	A1P1ST1-14C-M	9 -	1 -	14300 -	464 -	1.2 U
13	A1P1ST1-15C-M	6.1 -	0.6 -	6520 -	664 -	1.3 U
14	A1P1ST1-16C-M	7.9 -	0.88 -	12600 -	851 -	1 U
	FRL (* = BTV)	**12**	**1.5**	**10103**	**1500 ***	**10 ***
	Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
	Background UCL	5.6	0.6	8812	814	n/a
	Background 95%	8.2	0.6	11880	1348	n/a
	Samples	14	14	14	14	14
	Hits	14	14	14	14	0
	Max	**10.3**	**1.20**	**15500**	**1180**	**0.65**
	Mean	8.4	0.89	11595	692	0.56
	St.Dev.	1.5	0.17	2874	234	0.07
	UCL	**8.9**	**0.95**	**12632**	**777**	**0.59**
	t-Stat	9.23	13.46	--	--	--
	Prob.	0.0%	0.0%	--	--	--
	Pass/Fail	**Pass**	**Pass**	--	--	--

NOTE: One half of the reported detection level was used in the calculations for results reported as below the detection limit (qualified with "U"). Duplicates were averaged before calculations were performed.

KEY

FRL - Final Remedial Level

Background UCL - Upper Confidence Level (95% one-sided) on the Mean Background concentration.

Background 95% - 95th Percentile of the background dataset.

Samples - Number of distinct sample locations in the analysis (see NOTE above).

Hits - Analyte positively detected in the sample.

Max - The maximum sample result.

Mean - The mean or average concentration. (See NOTE above).

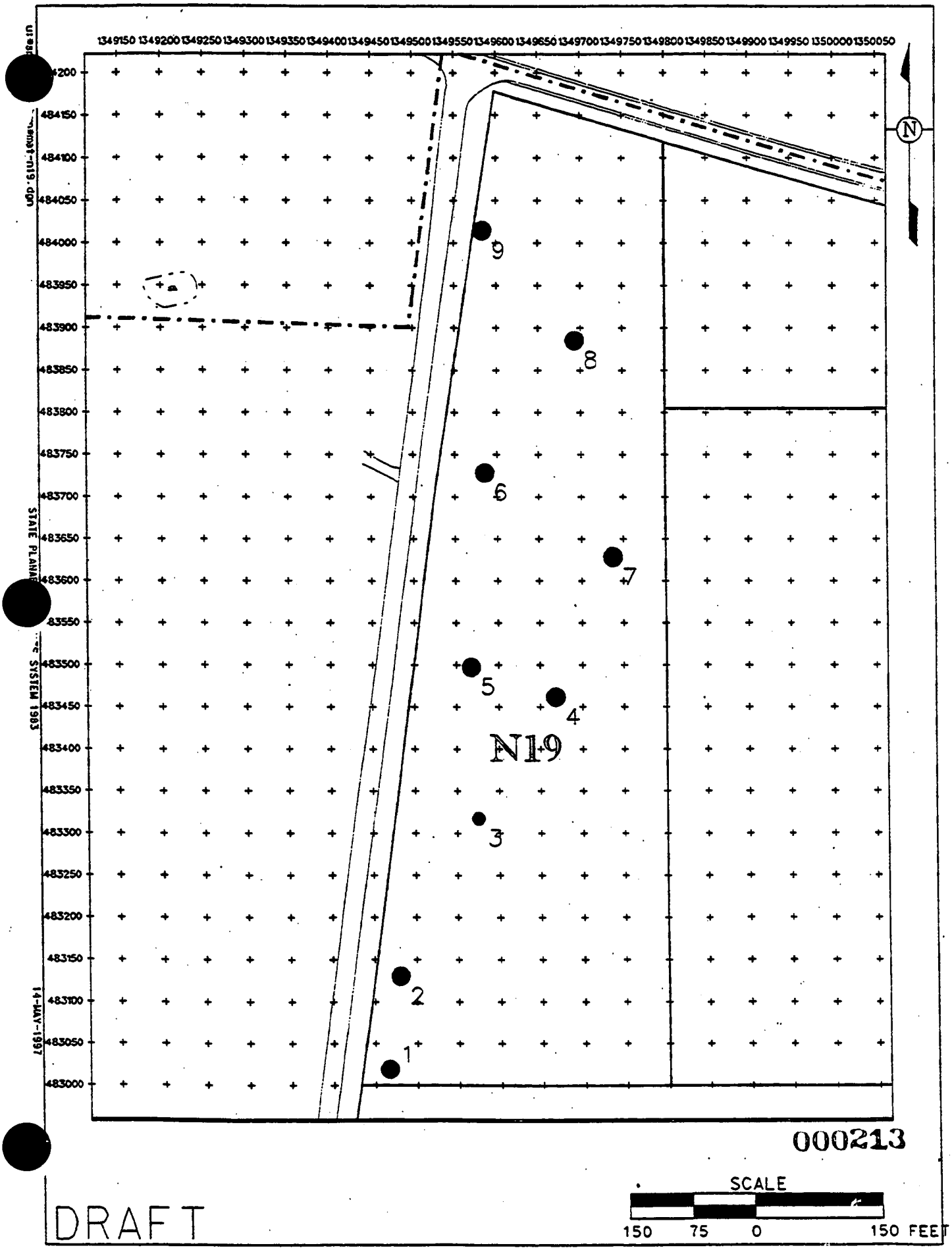
St.Dev. - The standard deviation of the sample concentrations. (See NOTE above).

UCL - Upper Confidence Level (95% one-sided) on the Mean concentration.

t-Stat - The calculated t-statistic for the mean concentration compared to the FRL. (See the Certification Report).

Prob. - The probability (based on the t-Stat) that the true CU mean exceeds the FRL. Acceptable probability for primary COCs is 5% and 10% for seconday COCs.

Pass/Fail - Pass or Fail result from the t-Test based on "t-Stat" above. The associated probability is "Prob." above.



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N19 METALS MAP OF DATA POINTS

Certification Unit: N19

03:54 PM 13-May-98

		Certification Analytes		Ecological COCs			
Map	Sample ID	Arsenic	Beryllium	Aluminum	Lead	Manganese	Molybdenum
1	N19-00C-1-M	8.2 -	0.81 U	9900 -	28.3 -	720 -	0.80 U
2	N19-00C-3-M	7.6 -	0.67 U	8030 -	30.4 -	573 -	0.92 U
3	N19-00C-5-M	4.7 -	0.51 U	5820 -	20.0 -	568 -	0.83 U
4	N19-00C-8-M	6.6 -	0.66 U	8130 J	24.8 -	1260 -	5.90 UJ
5	N19-00C-9-M	5.0 -	0.47 U	5740 -	19.6 -	993 -	0.55 U
6	N19-00C-11-M	9.9 -	0.59 U	12100 -	25.8 -	855 J	5.60 UJ
7	N19-00C-12-M	6.7 -	0.63 U	8700 -	21.9 -	766 -	0.75 U
7	N19-00C-12-M-D	7.9 J	0.77 UJ	10300 J	25.1 J	917 J	0.83 UJ
8	N19-00C-14-M	7.0 -	2.00 U	16400 -	29.9 -	974 J	5.40 UJ
9	N19-00C-15-M	11.8 -	0.66 U	11900 -	20.5 -	422 J	5.00 UJ
	FRL (* = BTV)	**12.0**	**1.50**	**10103**	**200.0 ***	**1500 ***	**10.00 ***
	Units	mg/g	mg/g	mg/g	mg/g	mg/g	mg/g
	Background UCL	5.6	0.60	8812	18.9	814	n/a
	Background 95%	8.2	0.60	11880	26.4	1348	n/a
	Samples	9	9	9	9	9	9
	Hits	9	0	9	9	9	0
	Max	**11.8**	**1.00**	**16400**	**30.4**	**1260**	**2.95**
	Mean	7.6	0.39	9724	24.8	801	1.43
	St.Dev.	2.2	0.23	3383	4.2	259	1.24
	UCL	**8.6**	**0.50**	**11300**	**26.7**	**922**	**2.01**
	t-Stat	5.96	14.24	--	--	--	--
	Prob.	0.0%	0.0%	--	--	--	--
	Pass/Fail	**Pass**	**Pass**	--	--	--	--

NOTE: One half of the reported detection level was used in the calculations for results reported as below the detection limit (qualified with "U"). Duplicates were averaged before calculations were performed.

KEY

FRL - Final Remedial Level

Background UCL - Upper Confidence Level (95% one-sided) on the Mean Background concentration.

Background 95% - 95th Percentile of the background dataset.

Samples - Number of distinct sample locations in the analysis (see NOTE above).

Hits - Analyte positively detected in the sample.

Max - The maximum sample result.

Mean - The mean or average concentration. (See NOTE above).

St.Dev. - The standard deviation of the sample concentrations. (See NOTE above).

UCL - Upper Confidence Level (95% one-sided) on the Mean concentration.

t-Stat - The calculated t-statistic for the mean concentration compared to the FRL. (See the Certification Report).

Prob. - The probability (based on the t-Stat) that the true CU mean exceeds the FRL. Acceptable probability for primary COCs is 5% and 10% for seconday COCs.

Pass/Fail - Pass or Fail result from the t-Test based on "t-Stat" above. The associated probability is "Prob." above.

1480

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1350500 1350600 1350700 1350800 1350900 1351000 1351100 1351200 1351300

483000 482900 482800 482700 482600 482500 482400 482300 482200 482100 482000 481900 481800 481700

STATE PLANAR COORDINATE SYSTEM 1983

NAR-1

NAR-5

NAR-3

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NAR-1 METALS MAP OF DATA POINTS

E4480

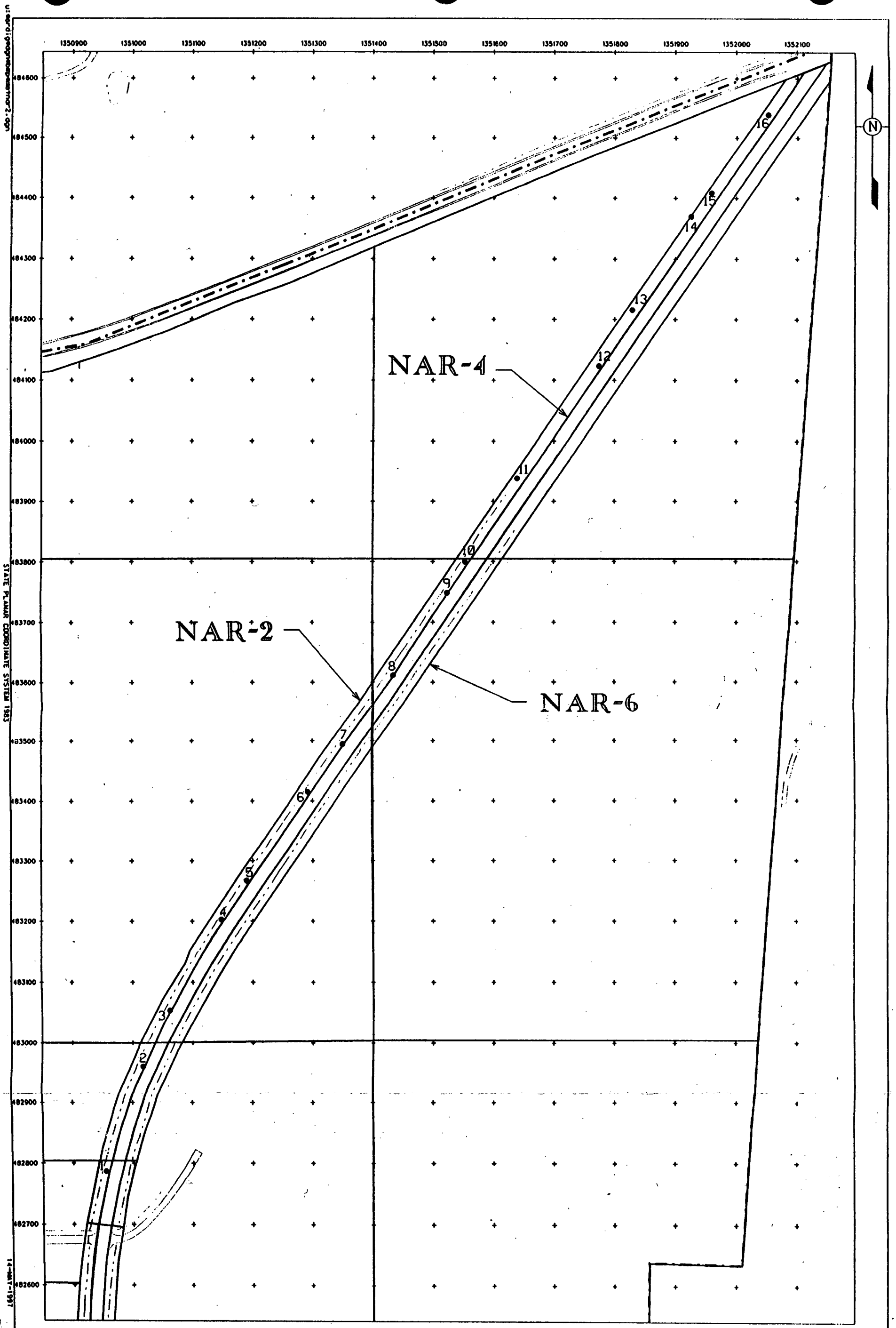
Certification Unit: NAR-1 03:53 PM 13-May-98

		Certification Analytes			Ecological COCs			
Map	Sample ID	Arsenic	Beryllium	Aroclor-1260	Aluminum	Lead	Manganese	Molybdenum
1	NAR-1-1C-MP	12.5 J	0.77 -	41 U	15900 -	16 -	333 -	0.98 UJ
2	NAR-1-2C-MP	6 J	0.59 -	39 U	8200 -	10.2 -	647 -	0.94 UJ
3	NAR-1-3C-MP	7.5 J	0.62 -	39 UJ	8810 -	14.6 -	671 -	0.95 UJ
4	NAR-1-4C-MP	11 J	0.95 -	41 U	13400 -	11.8 -	702 -	0.98 U
5	NAR-1-5C-MP	9.9 -	0.51 -	41 U	10600 -	14.7 -	349 -	1.3 U
6	NAR-1-6C-MP	10.2 -	0.56 -	41 U	15500 -	15.2 -	198 -	1.2 U
7	NAR-1-7C-MP	15.5 -	1.3 -	43 U	24700 -	15.9 -	316 -	1.2 U
8	NAR-1-8C-MP	6.8 -	0.75 U	38 U	8490 -	7.2 -	518 J	0.92 U
9	NAR-1-9C-MP	14 J	1.5 -	42 U	13800 -	17.2 -	542 -	1 UJ
10	NAR-1-10C-MP	8.8 J	1.2 -	40 U	23400 -	16.5 -	170 -	0.97 U
11	NAR-1-11C-MP	7.5 J	0.67 -	41 UJ	9870 -	12.2 -	769 -	1 UJ
12	NAR-1-12C-MP	12.6 J	1.1 -	42 UJ	16600 -	17.1 -	514 -	1 UJ
13	NAR-1-13C-MP	15.5 -	1.5 -	42 U	23900 -	21.1 -	1810 -	1 U
14	NAR-1-14C-MP	11.5 -	1.2 -	44 U	23900 -	15.8 -	275 -	1.1 U
15	NAR-1-15C-MP	10.4 -	1.8 -	42 U	18700 -	18.6 -	1770 -	1 U
16	NAR-1-16C-MP	12.8 J	0.99 -	42 U	21100 -	15.1 -	539 -	1 U
16	NAR-1-16C-MP-D	14.8 J	0.83 -	41 UJ	21400 -	17.6 -	455 -	1 U
	FRL (* = BTV)	12	1.5	130	10103	200 *	1500 *	10 *
	Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
	Background UCL	5.6	0.6	n/a	8812	18.9	814	n/a
	Background 95%	8.2	0.6	n/a	11880	26.4	1348	n/a
	Samples	16	16	16	16	16	16	16
	Hits	16	15	0	16	16	16	0
	Max	**15.5**	**1.80**	**22.0**	**24700**	**21.1**	**1810**	**0.65**
	Mean	10.8	0.97	20.5	16064	15.0	630	0.52
	St.Dev.	3.0	0.42	0.8	5989	3.3	487	0.05
	UCL	**11.9**	**1.11**	**20.8**	**18071**	**16.2**	**793**	**0.54**
	t-Stat	1.53	5.05	572.34	--	--	--	--
	Prob.	7.3%	0.0%	0.0%	--	--	--	--
	Pass/Fail	**Pass**	**Pass**	**Pass**	--	--	--	--

NOTE: One half of the reported detection level was used in the calculations for results reported as below the detection limit (qualified with "U"). Duplicates were averaged before calculations were performed.

KEY

FRL - Final Remedial Level
Background UCL - Upper Confidence Level (95% one-sided) on the Mean Background concentration.
Background 95% - 95th Percentile of the background dataset.
Samples - Number of distinct sample locations in the analysis (see NOTE above).
Hits - Analyte positively detected in the sample.
Max - The maximum sample result.
Mean - The mean or average concentration. (See NOTE above).
St.Dev. - The standard deviation of the sample concentrations. (See NOTE above).
UCL - Upper Confidence Level (95% one-sided) on the Mean concentration.
t-Stat - The calculated t-statistic for the mean concentration compared to the FRL. (See the Certification Report).
Prob. - The probability (based on the t-Stat) that the true CU mean exceeds the FRL. Acceptable probability for primary COCs is 5% and 10% for seconday COCs.
Pass/Fail - Pass or Fail result from the t-Test based on "t-Stat" above. The associated probability is "Prob." above.



NAR-2 METALS MAP OF DATA POINTS

0002127

P 1480

Certification Unit: NAR-2 03:53 PM 13-May-98

Map	Sample ID	Certification Analytes		Ecological COCs		
		Arsenic	Beryllium	Aluminum	Manganese	Molybdenum
1	NAR-2-1C-M	10.4 J	1.5 -	23000 -	511 -	1 U
2	NAR-2-2C-M	14.7 J	0.69 -	15000 -	452 -	2.4 -
3	NAR-2-3C-M	7 J	0.54 -	8900 -	304 -	0.9 U
4	NAR-2-4C-M	7 J	0.65 -	10600 -	474 -	1.8 -
5	NAR-2-5C-M	7.3 J	0.74 -	11100 -	720 J	1.2 -
5	NAR-2-5C-M-D	9 J	0.88 -	13500 -	461 J	0.98 -
6	NAR-2-6C-M	5.7 J	0.52 -	9380 -	561 -	1.2 -
7	NAR-2-7C-M	6 J	0.63 -	10600 -	429 -	1.3 -
8	NAR-2-8C-M	10.1 J	0.88 -	12900 -	629 -	1.3 -
9	NAR-2-9C-M	13.6 J	1.1 -	15900 -	480 -	1 U
10	NAR-2-10C-M	9.3 J	1.2 -	16200 -	1100 -	1 U
11	NAR-2-11C-M	17.2 J	1.3 -	16900 -	954 J	1.3 U
12	NAR-2-12C-M	8.9 J	0.74 -	9970 -	609 J	1.1 U
13	NAR-2-13C-M	12.8 J	1.3 -	16600 -	1320 J	1 U
14	NAR-2-14C-M	5.8 -	1.2 -	13700 -	1880 -	1 U
15	NAR-2-15C-M	12.6 -	1.3 -	17300 -	525 -	1 U
16	NAR-2-16C-M	8.6 -	1 -	13300 -	918 -	1.3 U
	FRL (* = BTV)	12	1.5	10103	1500 *	10 *
	Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
	Background UCL	5.6	0.6	8812	814	n/a
	Background 95%	8.2	0.6	11880	1348	n/a
	Samples	16	16	16	16	16
	Hits	16	16	16	16	6
	Max	17.2	1.50	23000	1880	2.40
	Mean	9.9	0.96	13909	734	0.90
	St.Dev.	3.5	0.32	3722	411	0.57
	UCL	11.0	1.07	15157	871	1.09
	t-Stat	2.47	6.83	--	--	--
	Prob.	1.3%	0.0%	--	--	--
	Pass/Fail	Pass	Pass	--	--	--

NOTE: One half of the reported detection level was used in the calculations for results reported as below the detection limit (qualified with "U"). Duplicates were averaged before calculations were performed.

KEY

FRL - Final Remedial Level
Background UCL - Upper Confidence Level (95% one-sided) on the Mean Background concentration.
Background 95% - 95th Percentile of the background dataset.
Samples - Number of distinct sample locations in the analysis (see NOTE above).
Hits - Analyte positively detected in the sample.
Max - The maximum sample result.
Mean - The mean or average concentration. (See NOTE above).
St.Dev. - The standard deviation of the sample concentrations. (See NOTE above).
UCL - Upper Confidence Level (95% one-sided) on the Mean concentration.
t-Stat - The calculated t-statistic for the mean concentration compared to the FRL. (See the Certification Report).
Prob. - The probability (based on the t-Stat) that the true CU mean exceeds the FRL. Acceptable probability for primary COCs is 5% and 10% for seconday COCs.
Pass/Fail - Pass or Fail result from the t-Test based on "t-Stat" above. The associated probability is "Prob." above.

SRDIG DGN BMP METNAR3.DGN 4-30-97 STATE PLANAR COORDINATE SYSTEM 1983

1350650 1350700 1350750 1350800 1350850 1350900 1350950 1351000 1351050 1351100 1351150 1351200 1351250

82800 82750 82700 82650 82600 82550 82500 82450 82400 82350 82300 82250 82200 82150 82100 82050 82000 81950 81900

N

NAR-1

NAR-5

NAR-3

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

SCALE

70 35 0 70 FEET

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NAR-3 METALS MAP OF DATA POINTS

000239

A 1480

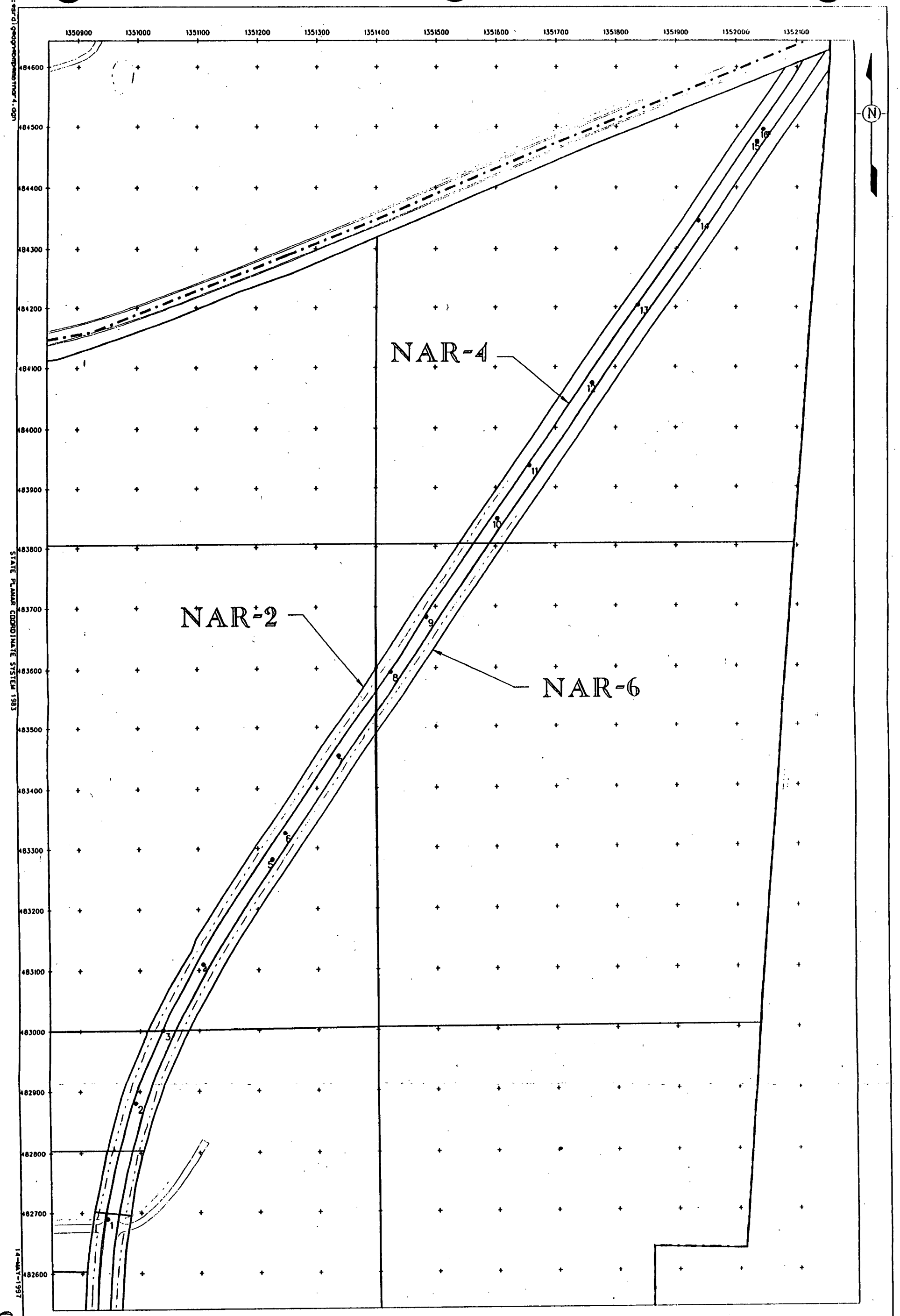
Certification Unit: NAR-3 03:51 PM 13-May-98

Map	Sample ID	Certification Analytes		Ecological COCs		
		Arsenic	Beryllium	Aluminum	Manganese	Molybdenum
1	NAR-3-1C-M	6.4 J	0.72 -	11300 -	359 -	0.93 UJ
2	NAR-3-2C-M	5.3 UJ	1.3 -	10900 -	1230 -	1 J
3	NAR-3-3C-M	7.8 -	0.98 -	13500 -	436 J	0.94 UJ
3	NAR-3-3C-M-D	8.9 -	1.1 -	14800 -	714 J	0.94 UJ
4	NAR-3-4C-M	6.6 J	0.51 -	6830 -	711 -	1 J
5	NAR-3-5C-M	10.5 J	0.76 -	10700 -	960 -	0.94 UJ
6	NAR-3-6C-M	12.3 J	1.6 -	15600 -	759 -	1 UJ
7	NAR-3-7C-M	6.9 J	0.64 -	9920 -	387 -	0.92 UJ
8	NAR-3-8C-M	5.6 UJ	0.68 -	20700 -	233 -	1.1 UJ
9	NAR-3-9C-M	12.9 J	0.69 -	17300 -	262 -	1.1 UJ
10	NAR-3-10C-M	12.9 J	1.3 -	17400 -	537 -	1.1 J
11	NAR-3-11C-M	7.8 J	0.84 -	11400 -	499 -	0.95 UJ
12	NAR-3-12C-M	8 J	0.67 -	12000 -	918 -	0.94 U
13	NAR-3-13C-M	9.5 J	0.99 -	17400 -	907 -	0.99 U
14	NAR-3-14C-M	7.8 J	0.72 -	12500 -	751 -	0.92 U
15	NAR-3-15C-M	10.7 -	1.7 -	24500 -	666 -	1 UJ
16	NAR-3-16C-M	11.6 J	1 -	21000 -	458 -	1 U
	FRL (* = BTV)	12	1.5	10103	1500 *	10 *
	Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
	Background UCL	5.6	0.6	8812	814	n/a
	Background 95%	8.2	0.6	11880	1348	n/a
	Samples	16	16	16	16	16
	Hits	15	17	17	17	3
	Max	12.9	1.70	24500	1230	1.10
	Mean	8.6	0.95	14600	638	0.59
	St.Dev.	3.2	0.36	4788	277	0.22
	UCL	9.7	1.07	16205	731	0.67
	t-Stat	4.28	6.20	--	--	--
	Prob.	0.0%	0.0%	--	--	--
	Pass/Fail	Pass	Pass	--	--	--

NOTE: One half of the reported detection level was used in the calculations for results reported as below the detection limit (qualified with "U"). Duplicates were averaged before calculations were performed.

KEY

FRL - Final Remedial Level
Background UCL - Upper Confidence Level (95% one-sided) on the Mean Background concentration.
Background 95% - 95th Percentile of the background dataset.
Samples - Number of distinct sample locations in the analysis (see NOTE above).
Hits - Analyte positively detected in the sample.
Max - The maximum sample result.
Mean - The mean or average concentration. (See NOTE above).
St.Dev. - The standard deviation of the sample concentrations. (See NOTE above).
UCL - Upper Confidence Level (95% one-sided) on the Mean concentration.
t-Stat - The calculated t-statistic for the mean concentration compared to the FRL. (See the Certification Report).
Prob. - The probability (based on the t-Stat) that the true CU mean exceeds the FRL. Acceptable probability for primary COCs is 5% and 10% for seconday COCs.
Pass/Fail - Pass or Fail result from the t-Test based on "t-Stat" above. The associated probability is "Prob." above.



DRAFT

NAR-4 METALS MAP OF DATA POINTS

0002221

F 1480

Certification Unit: NAR-4 03:51 PM 13-May-98

Map	Sample ID	Certification Analytes		Ecological COCs		
		Arsenic	Beryllium	Aluminum	Manganese	Molybdenum
1	NAR-4-1C-M	12.1 -	0.92 -	16800 -	444 -	0.99 UJ
2	NAR-4-2C-M	8.9 -	2.1 -	18900 -	2470 -	1 UJ
3	NAR-4-3C-M	9.2 -	1.3 -	18600 -	570 -	0.99 UJ
4	NAR-4-4C-M	5.5 -	0.76 -	11100 -	755 -	0.91 UJ
5	NAR-4-5C-M	6.9 -	0.82 -	11400 -	590 -	0.93 UJ
6	NAR-4-6C-M	5.5 -	0.68 -	9700 -	568 -	0.91 UJ
7	NAR-4-7C-M	5.1 -	0.83 -	11800 -	650 -	0.88 UJ
8	NAR-4-8C-M	4.6 -	0.38 -	6030 -	401 -	1.9 UJ
9	NAR-4-9C-M	12 -	1.3 -	17000 -	570 -	0.98 UJ
9	NAR-4-9C-M-D	9.7 -	1.4 -	21400 -	591 -	0.98 UJ
10	NAR-4-10C-M	4.8 U	0.92 -	13900 -	375 -	0.97 UJ
11	NAR-4-11C-M	19.1 -	1.3 -	15800 -	547 -	1 UJ
12	NAR-4-12C-M	8.6 -	0.77 -	15700 -	160 -	0.96 UJ
13	NAR-4-13C-M	8.4 -	1.2 -	18000 -	1340 -	1 UJ
14	NAR-4-14C-M	14.1 -	1.6 -	25200 -	243 -	1 UJ
15	NAR-4-15C-M	9.7 -	1.2 -	14800 -	570 -	1 UJ
16	NAR-4-16C-M	7 -	0.6 -	8360 -	827 -	0.94 UJ
	FRL (* = BTV)	12	1.5	10103	1500 *	10 *
	Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
	Background UCL	5.6	0.6	8812	814	n/a
	Background 95%	8.2	0.6	11880	1348	n/a
	Samples	16	16	16	16	16
	Hits	15	16	16	16	0
	Max	19.10	2.10	25200	2470	0.95
	Mean	8.62	1.05	14706	693	0.51
	St.Dev.	4.09	0.43	4859	543	0.12
	UCL	9.99	1.19	16334	875	0.55
	t-Stat	3.30	4.24	--	--	--
	Prob.	0.2%	0.0%	--	--	--
	Pass/Fail	Pass	Pass	--	--	--

NOTE: One half of the reported detection level was used in the calculations for results reported as below the detection limit (qualified with "U"). Duplicates were averaged before calculations were performed.

KEY

FRL - Final Remedial Level

Background UCL - Upper Confidence Level (95% one-sided) on the Mean Background concentration.

Background 95% - 95th Percentile of the background dataset.

Samples - Number of distinct sample locations in the analysis (see NOTE above).

Hits - Analyte positively detected in the sample.

Max - The maximum sample result.

Mean - The mean or average concentration. (See NOTE above).

St.Dev. - The standard deviation of the sample concentrations. (See NOTE above).

UCL - Upper Confidence Level (95% one-sided) on the Mean concentration.

t-Stat - The calculated t-statistic for the mean concentration compared to the FRL. (See the Certification Report).

Prob. - The probability (based on the t-Stat) that the true CU mean exceeds the FRL. Acceptable probability for primary COCs is 5% and 10% for seconday COCs.

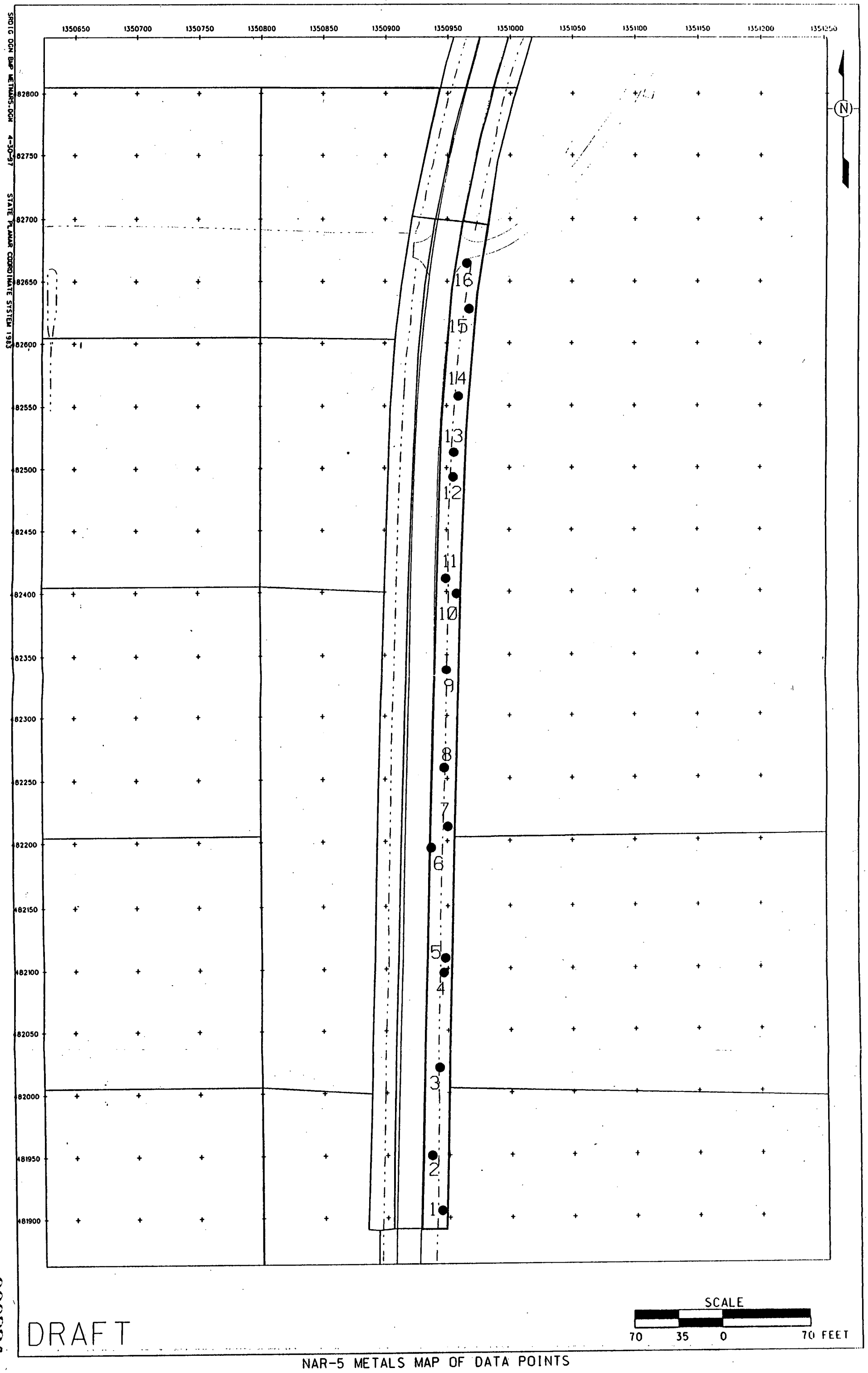
Pass/Fail - Pass or Fail result from the t-Test based on "t-Stat" above. The associated probability is "Prob." above.

Certification Unit: NAR-4 Fill 03:50 PM 13-May-98

Map	Sample ID	Certification Analytes				Ecological COCs					
		Arsenic		Beryllium		Aluminum		Manganese		Molybdenum	
8	NAR-4-8C2-M	8.1	-	1.1	-	12300	-	1130	J	1.3	UJ
9	NAR-4-9C2-M	11.4	-	1.6	-	19000	-	1200	J	0.97	UJ
10	NAR-4-10C2-M	8.3	-	0.61	-	10800	-	681	J	0.93	UJ
11	NAR-4-11C2-M	7.5	-	1	-	13900	-	486	J	0.95	UJ
12	NAR-4-12C2-M	6.8	-	0.68	-	11600	-	583	J	0.93	UJ
12	NAR-4-12C3-M	8.3	-	0.86	U	9360	-	682	-	1	U
13	NAR-4-13C2-M	7.2	-	0.64	-	11900	-	874	J	0.97	UJ
13	NAR-4-13C3-M	6	-	0.78	U	9250	-	579	-	1.3	U
14	NAR-4-14C2-M	9.7	-	1.1	-	15700	-	1630	J	0.95	UJ
14	NAR-4-14C3-M	5.1	J	1.7	-	14800	-	1860	J	0.96	U
14	NAR-4-14C3-M-D	8.8	J	1.1	-	12600	-	646	J	1.7	U
14	NAR-4-14C4-M	6.8	-	0.79	-	10500	-	566	J	1.5	U
14	NAR-4-14C5-M	6.1	-	0.84	-	10600	-	719	J	1.3	U
14	NAR-4-14C6-M	7.3	-	1.7	-	16400	-	1490	J	1	U
14	NAR-4-14C7-M	8.4	-	1.3	-	15300	-	1450	J	1.5	U
14	NAR-4-14C8-M	11.6	-	1.4	-	16000	-	903	J	1.3	U
15	NAR-4-15C10-M	5.5	-	1	-	6390	-	1370	J	1.1	U
15	NAR-4-15C11-M	3.7	-	1.4	-	8800	-	377	J	1	U
15	NAR-4-15C2-M	6.3	-	0.8	-	12700	-	583	J	0.92	UJ
15	NAR-4-15C3-M	4.3	-	0.86	-	10500	-	587	J	1.6	U
15	NAR-4-15C4-M	3.9	-	0.89	-	6320	-	1050	J	1.4	U
15	NAR-4-15C5-M	3.7	-	1.1	-	7260	-	287	J	1.4	U
15	NAR-4-15C6-M	3.3	-	0.76	-	5200	-	628	J	1.6	U
15	NAR-4-15C7-M	2.4	-	0.84	-	5850	-	484	J	1	U
15	NAR-4-15C8-M	4.2	-	1.2	-	8270	-	391	J	0.92	U
15	NAR-4-15C9-M	3.8	-	0.89	-	6660	-	630	J	0.93	U
16	NAR-4-16C10-M	9	-	0.88	U	10600	-	594	-	1.4	U
16	NAR-4-16C11-M	7.4	-	0.96	U	12800	-	1100	-	0.97	U
16	NAR-4-16C2-M	7.8	-	0.83	-	14800	-	512	J	0.94	UJ
16	NAR-4-16C3-M	9	-	1.1	U	12800	-	406	-	1.3	U
16	NAR-4-16C4-M	8.9	-	0.98	U	11100	-	372	-	1.7	U
16	NAR-4-16C5-M	10.1	-	0.8	U	9190	-	668	-	1.9	U
16	NAR-4-16C6-M	9	-	0.89	U	9750	-	585	-	1.4	U
16	NAR-4-16C7-M	5.6	-	0.61	U	6520	-	703	-	1.1	U
16	NAR-4-16C8-M	8.6	-	0.79	U	8340	-	680	-	1.6	U
16	NAR-4-16C9-M	7.5	-	0.78	U	9150	-	549	-	1.3	U
	FRL (* = BTV)	12		1.5		10103		1500	*	10	*
	Units	mg/g		mg/g		mg/g		mg/g		mg/g	
	Background UCL	5.6		0.6		8812		814		n/a	
	Background 95%	8.2		0.6		11880		1348		n/a	
	Samples	35		35		35		35		35	
	Hits	35		24		35		35		0	
	Max	11.60		1.70		19000		1630		0.95	
	Mean	6.98		0.84		10837		765		0.61	
	St.Dev.	2.31		0.36		3390		355		0.14	
	UCL	7.49		0.93		11586		843		0.64	
	t-Stat	12.84		10.27		--		--		--	
	Prob.	0.0%		0.0%		--		--		--	
	Pass/Fail	Pass		Pass		--		--		--	

NOTE: One half of the reported detection level was used in the calculations for results reported as below the detection limit (qualified with "U"). Duplicates were averaged before calculations were performed.

KEY
FRL - Final Remedial Level
Background UCL - Upper Confidence Level (95% one-sided) on the Mean Background concentration.
Background 95% - 95th Percentile of the background dataset.
Samples - Number of distinct sample locations in the analysis (see NOTE above).
Hits - Analyte positively detected in the sample.
Max - The maximum sample result.
Mean - The mean or average concentration. (See NOTE above).
St.Dev. - The standard deviation of the sample concentrations. (See NOTE above).
UCL - Upper Confidence Level (95% one-sided) on the Mean concentration.
t-Stat - The calculated t-statistic for the mean concentration compared to the FRL. (See the Certification Report).
Prob. - The probability (based on the t-Stat) that the true CU mean exceeds the FRL. Acceptable probability for primary COCs is 5% and 10% for seconday COCs.
Pass/Fail - Pass or Fail result from the t-Test based on "t-Stat" above. The associated probability is "Prob." above.



NAR-5 METALS MAP OF DATA POINTS

0002224

1480

Certification Unit: NAR-5 03:49 PM 13-May-98

		Certification Analytes				Ecological COCs					
Map	Sample ID	Arsenic		Beryllium		Aluminum		Manganese		Molybdenum	
1	NAR-5-1C-M	4.8	J	0.76	-	11900	-	290	J	0.94	U
1	NAR-5-1C-M-D	8	J	0.76	-	8870	-	734	J	0.93	U
2	NAR-5-2C-M	12.2	-	1.4	-	20100	-	1210	J	0.99	U
3	NAR-5-3C-M	9.9	-	1.2	-	15500	-	407	J	0.97	U
4	NAR-5-4C-M	6.2	-	0.59	-	7440	-	432	J	0.9	U
5	NAR-5-5C-M	8.2	-	1	-	15600	-	575	J	0.91	U
6	NAR-5-6C-M	13.6	-	0.86	-	12400	-	378	J	0.98	U
7	NAR-5-7C-M	11.8	-	1.2	-	16700	-	600	J	1	U
8	NAR-5-8C-M	11.9	-	0.87	-	10300	-	462	J	0.99	U
9	NAR-5-9C-M	9.3	-	0.9	-	15200	-	674	J	0.97	UJ
10	NAR-5-10C-M	14.7	-	1.2	-	19100	-	1030	J	0.99	UJ
11	NAR-5-11C-M	12.8	-	1.2	-	18500	-	1160	J	1	UJ
12	NAR-5-12C-M	11.9	-	1.6	-	24000	-	966	J	1.1	UJ
13	NAR-5-13C-M	12.9	-	1.1	-	14500	-	1190	J	1	UJ
14	NAR-5-14C-M	7.2	-	0.71	-	8730	-	432	J	0.96	UJ
15	NAR-5-15C-M	10.4	J	1.3	-	19300	-	1860	J	1	U
16	NAR-5-16C-M	8.3	-	0.6	-	12300	-	235	J	0.96	U
	FRL (* = BTV)	12		1.5		10103		1500	*	10	*
	Units	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
	Background UCL	5.6		0.6		8812		814		n/a	
	Background 95%	8.2		0.6		11880		1348		n/a	
	Samples	16		16		16		16		16	
	Hits	16		16		16		16		0	
	Max	14.7		1.60		24000		1860		0.94	
	Mean	10.9		1.08		15653		790		0.52	
	St.Dev.	2.5		0.31		4600		436		0.11	
	UCL	11.7		1.18		17194		936		0.56	
	t-Stat	1.82		5.50		--		--		--	
	Prob.	4.5%		0.0%		--		--		--	
	Pass/Fail	Pass		Pass		--		--		--	

NOTE: One half of the reported detection level was used in the calculations for results reported as below the detection limit (qualified with "U"). Duplicates were averaged before calculations were performed.

KEY

FRL - Final Remedial Level
Background UCL - Upper Confidence Level (95% one-sided) on the Mean Background concentration.
Background 95% - 95th Percentile of the background dataset.
Samples - Number of distinct sample locations in the analysis (see NOTE above).
Hits - Analyte positively detected in the sample.
Max - The maximum sample result.
Mean - The mean or average concentration. (See NOTE above).
St.Dev. - The standard deviation of the sample concentrations. (See NOTE above).
UCL - Upper Confidence Level (95% one-sided) on the Mean concentration.
t-Stat - The calculated t-statistic for the mean concentration compared to the FRL. (See the Certification Report).
Prob. - The probability (based on the t-Stat) that the true CU mean exceeds the FRL. Acceptable probability for primary COCs is 5% and 10% for seconday COCs.
Pass/Fail - Pass or Fail result from the t-Test based on "t-Stat" above. The associated probability is "Prob." above.

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1350900 1351000 1351100 1351200 1351300 1351400 1351500 1351600 1351700 1351800 1351900 1352000 1352100 1352200

484700 484600 484500 484400 484300 484200 484100 484000 483900 483800 483700 483600 483500 483400 483300 483200 483100 483000 482900 482800 482700

STATE PLANAR COORDINATE SYSTEM 1983

N

NAR-1

NAR-2

NAR-6

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

SCALE

150 75 0 150 FEET

DRAFT

NAR-6 METALS MAP OF DATA POINTS

14-MAY-1997

0002226

V1480

Certification Unit: NAR-6 03:49 PM 13-May-98

		Certification Analytes		Ecological COCs		
Map	Sample ID	Arsenic	Beryllium	Aluminum	Manganese	Molybdenum
1	NAR-6-1C-M	2.7 -	0.97 -	6880 -	522 J	0.98 U
2	NAR-6-2C-M	12.6 J	1.5 -	18700 -	902 J	0.99 U
3	NAR-6-3C-M	4.2 UJ	0.62 -	7710 -	567 J	1.5 U
4	NAR-6-4C-M	6.1 -	0.65 -	8410 -	545 J	1.7 -
5	NAR-6-5C-M	5.5 -	0.61 -	7790 -	1050 J	1.8 -
6	NAR-6-6C-M	5.4 UJ	0.64 -	8110 -	555 J	1.3 U
7	NAR-6-7C-M	6 -	0.76 -	10400 -	427 J	1.3 -
8	NAR-6-8C-M	6.7 J	0.73 -	9860 -	466 J	1.9 U
9	NAR-6-9C-M	11.6 J	1.5 -	20000 -	775 J	1 U
10	NAR-6-10C-M	9.5 -	1.3 U	14700 -	1120 J	1.1 U
11	NAR-6-11C-M	8.3 J	1.1 -	15000 -	289 J	1 U
12	NAR-6-12C-M	11.3 J	1.2 -	13800 -	461 J	0.99 U
13	NAR-6-13C-M	10 J	1.1 -	15900 -	506 J	0.98 U
14	NAR-6-14C-M	12.2 J	1.5 -	16000 -	502 J	1.4 U
15	NAR-6-15C-M	10.2 -	0.82 U	12000 -	513 -	1.1 U
16	NAR-6-16C-M	9.2 -	1.1 U	12100 -	1000 -	1.2 U
16	NAR-6-16C-M-D	9.3 -	0.96 U	11600 -	731 -	1.6 U
	FRL (* = BTV)	12	1.5	10103	1500 *	10 *
	Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
	Background UCL	5.6	0.6	8812	814	n/a
	Background 95%	8.2	0.6	11880	1348	n/a
	Samples	16	16	16	16	16
	Hits	14	13	16	16	3
	Max	12.6	1.50	20000	1120	1.80
	Mean	7.9	0.90	12319	629	0.79
	St.Dev.	3.5	0.37	4127	239	0.43
	UCL	9.1	1.03	13703	709	0.93
	t-Stat	4.69	6.46	--	--	--
	Prob.	0.0%	0.0%	--	--	--
	Pass/Fail	Pass	Pass	--	--	--

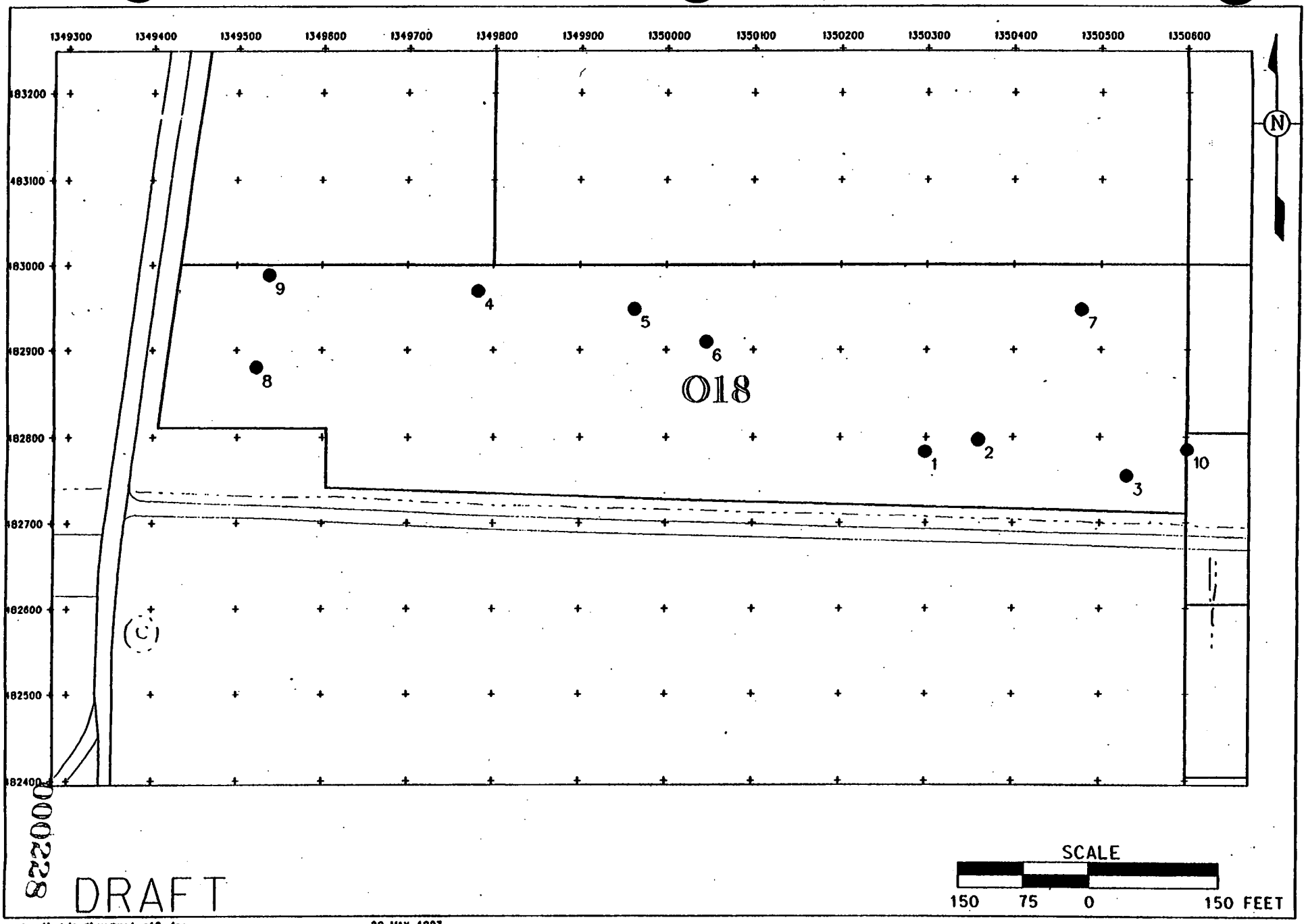
NOTE: One half of the reported detection level was used in the calculations for results reported as below the detection limit (qualified with "U"). Duplicates were averaged before calculations were performed.

KEY

FRL - Final Remedial Level
Background UCL - Upper Confidence Level (95% one-sided) on the Mean Background concentration.
Background 95% - 95th Percentile of the background dataset.
Samples - Number of distinct sample locations in the analysis (see NOTE above).
Hits - Analyte positively detected in the sample.
Max - The maximum sample result.
Mean - The mean or average concentration. (See NOTE above).
St.Dev. - The standard deviation of the sample concentrations. (See NOTE above).
UCL - Upper Confidence Level (95% one-sided) on the Mean concentration.
t-Stat - The calculated t-statistic for the mean concentration compared to the FRL. (See the Certification Report).
Prob. - The probability (based on the t-Stat) that the true CU mean exceeds the FRL. Acceptable probability for primary COCs is 5% and 10% for seconday COCs.
Pass/Fail - Pass or Fail result from the t-Test based on "t-Stat" above. The associated probability is "Prob." above.

P_1480

O18



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STATE PLANAR COORDINATE SYSTEM 1983

20-MAY-1997

018 METALS MAP OF DATA POINTS

1480

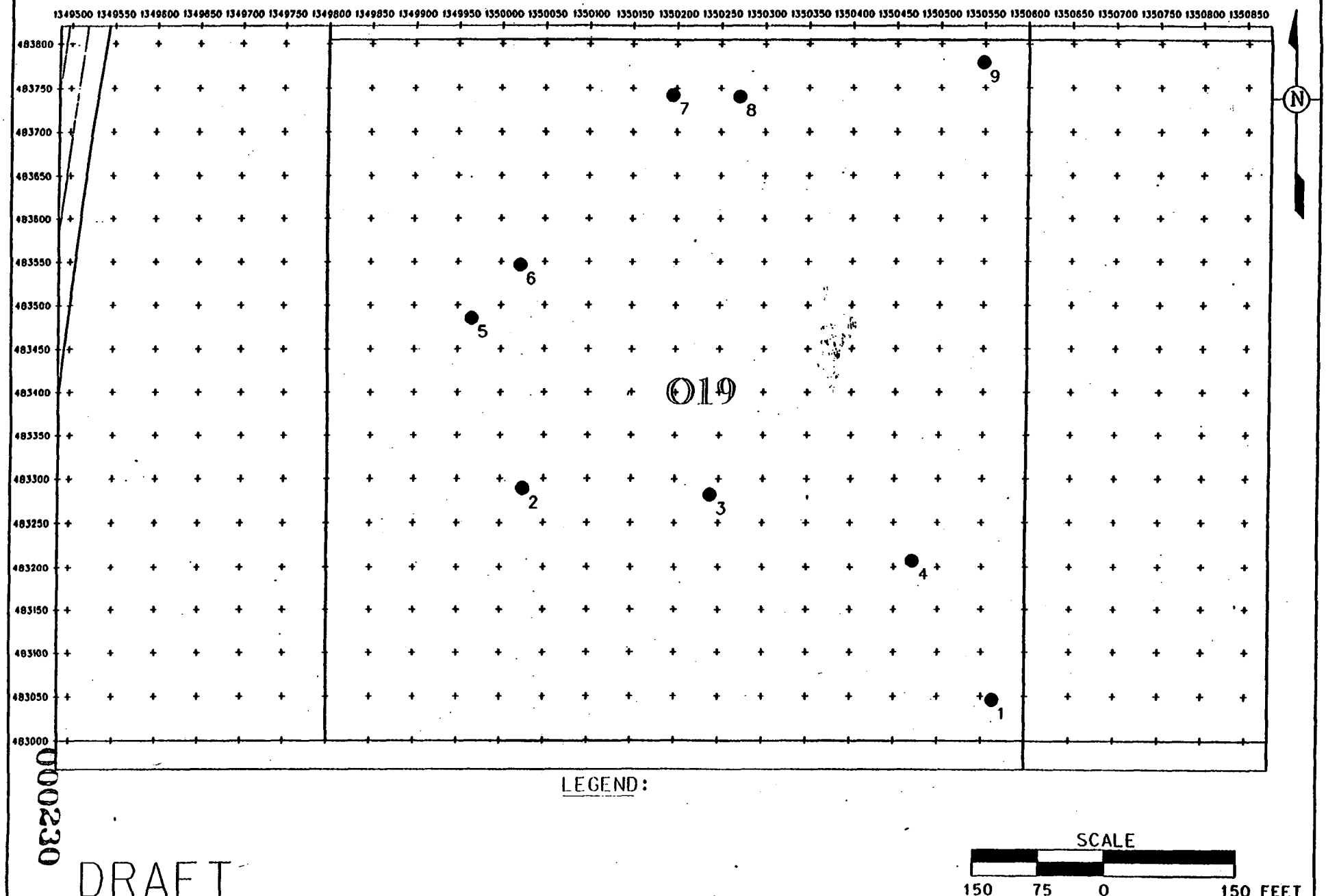
Certification Unit: O18 02:47 PM 23-Mar-97

		Certification Analytes			Ecological COCs			
Map	Sample ID	Arsenic	Beryllium	Aroclor-1260	Aluminum	Lead	Manganese	Molybdenum
1	O18-00C-5-MP	7.5 -	0.68 U	64 U	11200 -	24.2 -	750 -	0.91 U
2	O18-00C-6-MP	7.9 -	0.72 U	57 U	11700 -	25.4 -	607 -	1.2 U
3	O18-00C-7-MP	8.5 -	0.81 U	58 U	10800 -	24.3 -	804 -	0.93 U
4	O18-00C-9-MP	5.9 -	0.73 U	61 U	9510 -	23.1 -	554 -	0.54 U
5	O18-00C-10-MP	7.8 -	0.69 U	61 U	10200 -	22.4 -	389 -	0.83 U
6	O18-00C-11-MP	9.1 -	0.77 U	62 U	9920 -	27.2 -	649 -	0.84 U
7	O18-00C-14-MP	5.8 -	0.36 U	58 U	6880 -	23.8 -	375 -	1 U
8	O18-00C-15-MP	7.3 -	0.77 U	55 U	10200 -	23.4 -	660 -	0.7 U
9	O18-00C-16-MP	7.8 -	0.66 U	58 U	9650 -	30.1 -	764 -	1.1 U
10	P18-31C-601785	5.3 -	0.38 U		6860 -	21.5 -	524 -	1.7 U
	FRL (* = BTV)	12	1.6	130	10103	200 *	1500 *	10 *
	Units	mg/kg	mg/kg	ug/kg	mg/kg	mg/kg	mg/kg	mg/kg
	Background UCL	5.6	0.6	n/a	8812	18.9	814	n/a
	Background 95%	8.2	0.6	n/a	11880	26.4	1348	n/a
	Samples	10	10	9	10	10	10	10
	Hits	10	0	0	10	10	10	0
	Max	**9.10**	**0.41**	**32.0**	**11700**	**30.1**	**804**	**0.85**
	Mean	7.29	0.33	29.7	9692	24.5	608	0.49
	St.Dev.	1.24	0.08	1.4	1635	2.5	149	0.16
	UCL	**7.83**	**0.36**	**30.3**	**10407**	**25.6**	**673**	**0.56**
	t-Stat	12.03	46.88	212.84	--	--	--	--
	Prob.	0.0%	0.0%	0.0%	--	--	--	--
	Pass/Fail	**Pass**	**Pass**	**Pass**	--	--	--	--

NOTE: One half of the reported detection level was used in the calculations for results reported as below the detection limit (qualified with "U"). Duplicates were averaged before calculations were performed.

KEY

FRL - Final Remedial Level
Background UCL - Upper Confidence Level (95% one-sided) on the Mean Background concentration.
Background 95% - 95th Percentile of the background dataset.
Samples - Number of distinct sample locations in the analysis (see NOTE above).
Hits - Analyte positively detected in the sample.
Max - The maximum sample result.
Mean - The mean or average concentration. (See NOTE above).
St.Dev. - The standard deviation of the sample concentrations. (See NOTE above).
UCL - Upper Confidence Level (95% one-sided) on the Mean concentration.
t-Stat - The calculated t-statistic for the mean concentration compared to the FRL. (See the Certification Report).
Prob. - The probability (based on the t-Stat) that the true CU mean exceeds the FRL. Acceptable probability for primary COCs is 5% and 10% for seconday COCs.
Pass/Fail - Pass or Fail result from the t-Test based on "t-Stat" above. The associated probability is "Prob." above.



LEGEND:

SCALE

150 75 0 150 FEET

DRAFT

.SRDIC DGN BMP MET-019.DGN 5-20-97
STATE PLANAR COORDINATE SYSTEM 1983

019 METALS MAP OF DATA POINTS

000230

1480

Certification Unit: O19 03:48 PM 13-May-98

		Certification Analytes		Ecological COCs			
Map	Sample ID	Arsenic	Beryllium	Aluminum	Lead	Manganese	Molybdenum
1	O19-00C-4-M	5 -	0.61 U	9520 -	20.9 -	276 J	0.77 U
2	O19-00C-6-M	7.1 -	0.77 U	11200 -	23.6 -	374 J	0.7 U
3	O19-00C-7-M	5.8 -	0.75 U	11200 -	23.9 -	561 J	0.58 U
4	O19-00C-8-M	4.9 -	0.65 U	10700 -	20.8 -	827 J	0.49 U
5	O19-00C-9-M	6.2 -	0.78 U	12300 -	15.7 -	1190 J	0.43 U
6	O19-00C-10-M	6.1 -	0.74 U	12300 -	21.6 -	1150 J	0.42 U
7	O19-00C-14-M	7 -	0.64 U	11200 -	22.6 -	730 J	0.6 U
8	O19-00C-15-M	7.3 -	0.97 U	14100 -	19.4 -	1470 J	0.5 U
9	O19-00C-16-M	7.1 -	0.83 U	16400 -	26.8 -	984 J	0.91 U
	FRL (* = BTV)	12	1.5	10103	200 *	1500 *	10 *
	Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
	Background UCL	5.6	0.6	8812	18.9	814	n/a
	Background 95%	8.2	0.6	11880	26.4	1348	n/a
	Samples	9	9	9	9	9	9
	Hits	9	0	9	9	9	0
	Max	7.30	0.49	16400	26.8	1470	0.46
	Mean	6.28	0.37	12102	21.7	840	0.30
	St.Dev.	0.92	0.06	2050	3.1	397	0.08
	UCL	6.70	0.40	13057	23.2	1025	0.34
	t-Stat	18.74	61.05	--	--	--	--
	Prob.	0.0%	0.0%	--	--	--	--
	Pass/Fail	Pass	Pass	--	--	--	--

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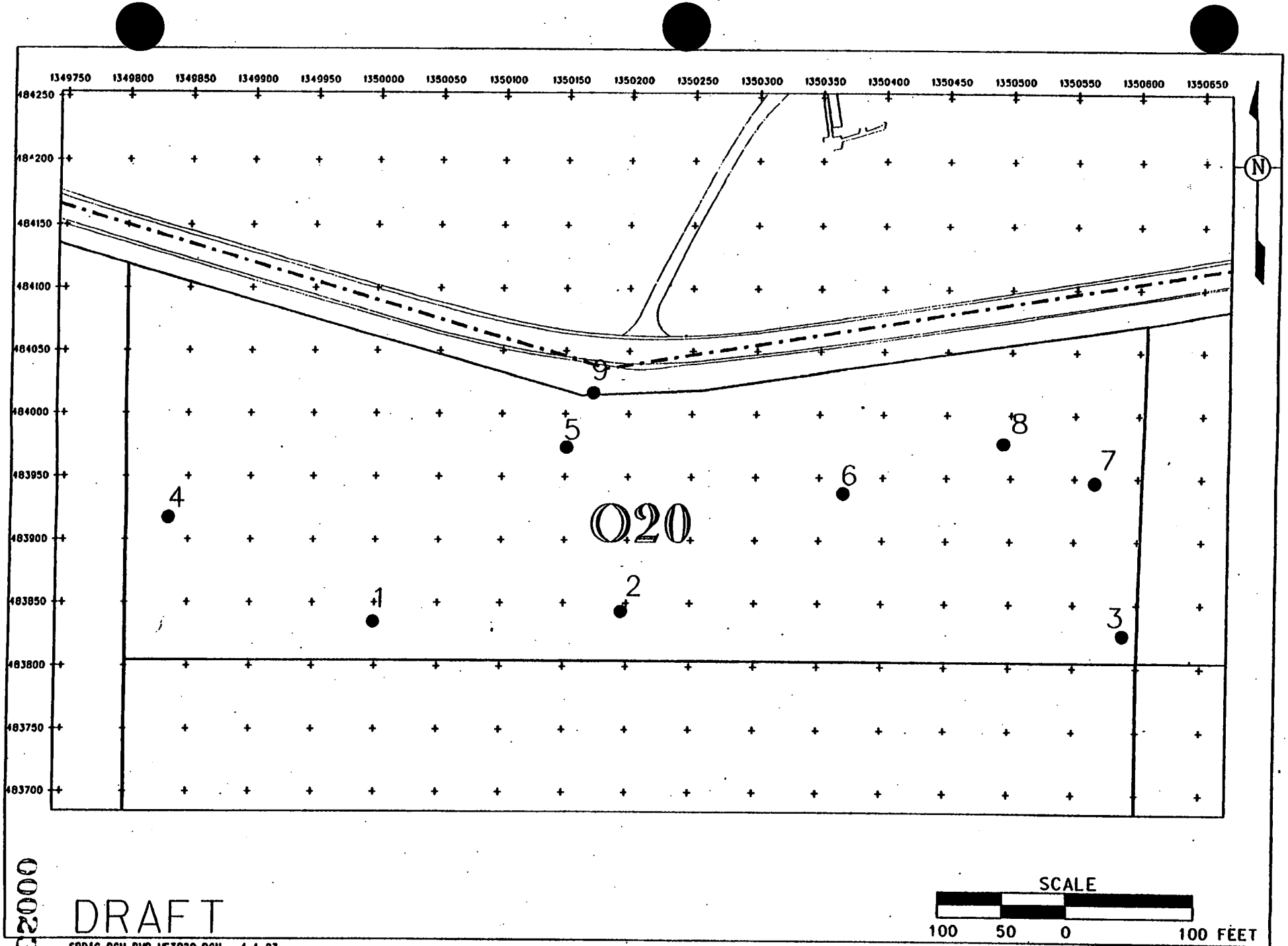
KEY

FRL - Final Remedial Level
Background UCL - Upper Confidence Level (95% one-sided) on the Mean Background concentration.
Background 95% - 95th Percentile of the background dataset.
Samples - Number of distinct sample locations in the analysis (see NOTE above).
Hits - Analyte positively detected in the sample.
Max - The maximum sample result.
Mean - The mean or average concentration. (See NOTE above).
St.Dev. - The standard deviation of the sample concentrations. (See NOTE above).
UCL - Upper Confidence Level (95% one-sided) on the Mean concentration.
t-Stat - The calculated t-statistic for the mean concentration compared to the FRL. (See the Certification Report).
Prob. - The probability (based on the t-Stat) that the true CU mean exceeds the FRL. Acceptable probability for primary COCs is 5% and 10% for seconday COCs.
Pass/Fail - Pass or Fail result from the t-Test based on "t-Stat" above. The associated probability is "Prob." above.



DRAFT

SRDIO DGN BMP MET020.DGN 4-1-97
STATE PLANAR COORDINATE SYSTEM 1983

020 METALS MAP OF DATA POINTS

000232

1480

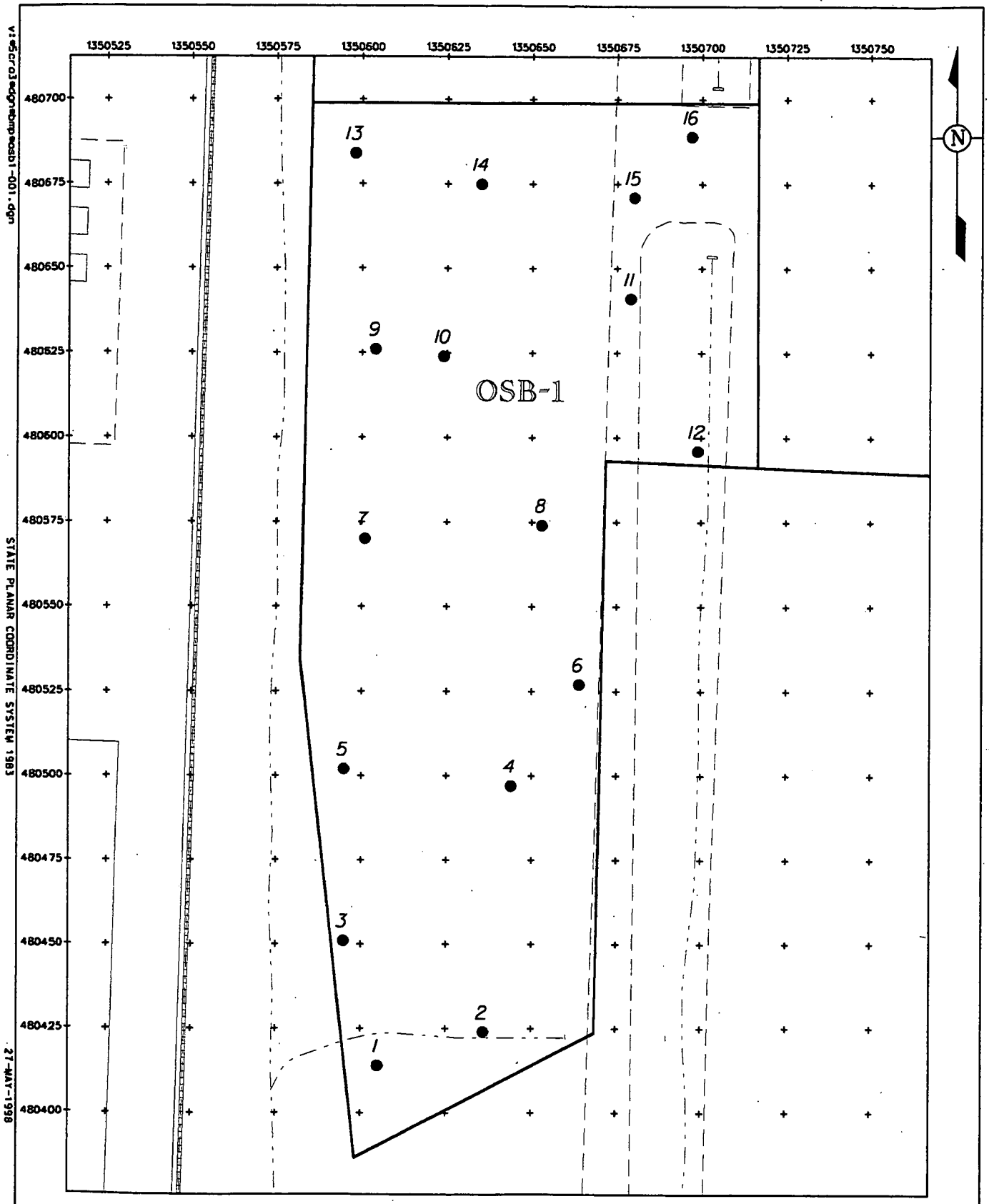
Certification Unit: O20 03:47 PM 13-May-98

Map	Sample ID	Certification Analytes		Ecological COCs			
		Arsenic	Beryllium	Aluminum	Lead	Manganese	Molybdenum
1	O20-00C-1-M	7.9 -	1.4 -	23100 -	17.6 -	1100 J	0.23 U
2	O20-00C-2-M	8.5 -	1.2 -	20600 -	20.6 -	853 J	0.38 -
3	O20-00C-4-M	5.9 -	1 U	14500 -	27 -	935 J	0.5 -
3	O20-00C-4-M-D	6 -	0.94 U	15800 -	25.6 -	910 J	0.34 -
4	O20-00C-5-M	7.1 -	0.58 U	10400 -	22.3 -	411 J	0.87 -
5	O20-00C-6-M	8.2 -	0.86 U	12100 -	36 -	739 J	0.87 -
6	O20-00C-7-M	8.8 -	1.1 U	16700 -	33.4 -	1140 J	0.58 -
7	O20-00C-8A-M	12 -	1.2 -	21600 -	19.6 -	1130 J	0.6 -
7	O20-00C-8A-M-D	12.1 -	1.2 -	18900 -	21.3 -	1060 J	0.63 -
8	O20-00C-8B-M	6.9 -	0.91 U	13600 -	36.1 -	975 J	0.44 -
9	O20-00C-10-M	7.3 -	0.86 U	13500 -	33 -	710 J	0.81 -
	FRL (* = BTV)	12	1.5	10103	200 *	1500 *	10 *
	Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
	Background UCL	5.6	0.6	8812	18.9	814	n/a
	Background 95%	8.2	0.6	11880	26.4	1348	n/a
	Samples	9	9	9	9	9	9
	Hits	9	3	9	9	9	8
	Max	**12.05**	**1.40**	**23100**	**36.1**	**1140**	**0.87**
	Mean	8.08	0.72	16156	27.3	883	0.57
	St.Dev.	1.73	0.42	4319	7.4	235	0.26
	UCL	**8.88**	**0.91**	**18166**	**30.7**	**992**	**0.69**
	t-Stat	6.79	5.57	--	--	--	--
	Prob.	0.0%	0.0%	--	--	--	--
	Pass/Fail	**Pass**	**Pass**	--	--	--	--

NOTE: One half of the reported detection level was used in the calculations for results reported as below the detection limit (qualified with "U"). Duplicates were averaged before calculations were performed.

KEY

FRL - Final Remedial Level
Background UCL - Upper Confidence Level (95% one-sided) on the Mean Background concentration.
Background 95% - 95th Percentile of the background dataset.
Samples - Number of distinct sample locations in the analysis (see NOTE above).
Hits - Analyte positively detected in the sample.
Max - The maximum sample result.
Mean - The mean or average concentration. (See NOTE above).
St.Dev. - The standard deviation of the sample concentrations. (See NOTE above).
UCL - Upper Confidence Level (95% one-sided) on the Mean concentration.
t-Stat - The calculated t-statistic for the mean concentration compared to the FRL. (See the Certification Report).
Prob. - The probability (based on the t-Stat) that the true CU mean exceeds the FRL. Acceptable probability for primary COCs is 5% and 10% for seconday COCs.
Pass/Fail - Pass or Fail result from the t-Test based on "t-Stat" above. The associated probability is "Prob." above.



LEGEND:

● SAMPLE LOCATION

DRAFT

SCALE

40 20 0 40 FEET

OSB-1 METALS SAMPLE LOCATIONS

Certification Unit: OSB-1 18-May-98

Map	Sample ID	Certification Analytes: Arsenic		Beryllium		Aroclor-1260	
1	OSB-1C-1-MP	5	-	0.36	-	37	U
2	OSB-1C-2-MP	11.5	-	1.3	-	42	U
3	OSB-1C-3-MP	5	-	0.34	-	37	U
4	OSB-1C-4-MP	11.8	-	0.75	-	42	U
5	OSB-1C-5-MP	5.7	J	0.93	U	38	U
5	OSB-1C-5-MP-D	5.4	J	1	U	38	U
6	OSB-1C-6-MP	8.6	J	0.84	U	40	U
7	OSB-1C-7-MP	3	J	0.96	U	38	U
8	OSB-1C-8-MP	12.7	J	0.98	U	42	U
9	OSB-1C-9-MP	3.9	J	0.62	U	36	U
10	OSB-1C-10-MP	6.3	J	0.89	U	38	U
11	OSB-1C-11-MP	14	J	2.6	J	42	U
12	OSB-1C-12-MP	7.6	J	0.96	U	41	U
13	OSB-1C-13-MP	5.5	J	0.91	U	38	U
14	OSB-1C-14-MP	3.9	J	1	U	38	U
15	OSB-1C-15-MP	13.8	J	1.8	UJ	42	U
16	OSB-1C-16-MP	12.4	J	1.6	UJ	42	U
	FRL (* = BTV)	12		1.5		130	
	Units	mg/kg		mg/kg		ug/kg	
	Background UCL	5.6		0.6		n/a	
	Background 95%	8.2		0.6		n/a	
	Samples	16		16		16	
	Hits	16		5		0	
	Max	**14.0**		**2.60**		**42**	**U**
	Mean	8.2		0.69		19.78	
	St.Dev.	3.9		0.57		1.13	
	UCL	**9.5**		**0.89**		**20.16**	
	t-Stat	3.93		5.67		391.89	
	Prob.	0.1%		0.0%		0.0%	
	Pass/Fail	**Pass**		**Pass**		**Pass**	

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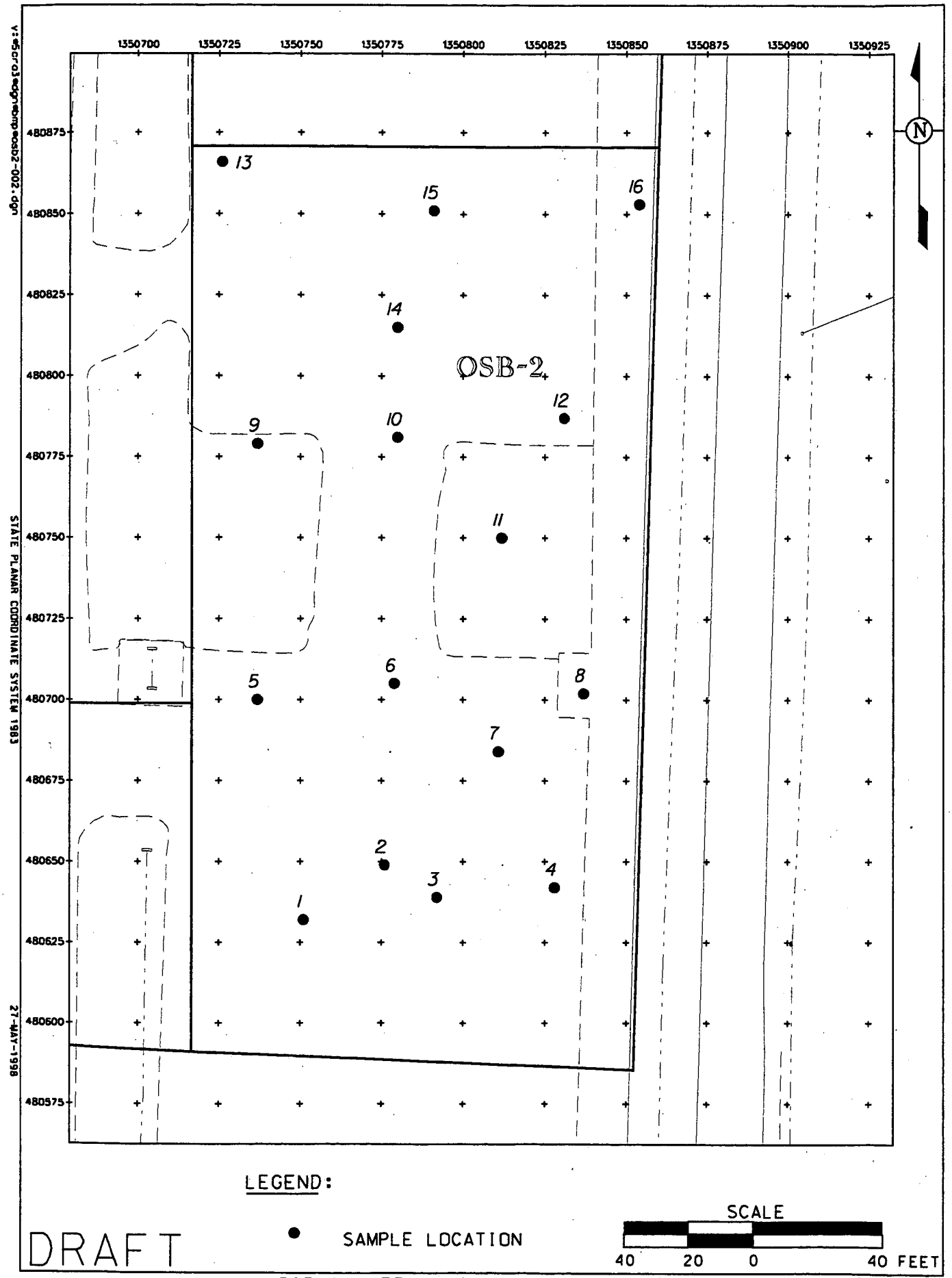
KEY

FRL - Final Remedial Level
Background UCL - Upper Confidence Level (95% one-sided) on the Mean Background concentration.
Background 95% - 95th Percentile of the background dataset.
Samples - Number of distinct sample locations in the analysis (see NOTE above).
Hits - Analyte positively detected in the sample.
Max - The maximum sample result.
Mean - The mean or average concentration. (See NOTE above).
St.Dev. - The standard deviation of the sample concentrations. (See NOTE above).
UCL - Upper Confidence Level (95% one-sided) on the Mean concentration.
t-Stat - The calculated t-statistic for the mean concentration compared to the FRL. (See the Certification Report).
Prob. - The probability (based on the t-Stat) that the true CU mean exceeds the FRL. Acceptable probability for primary COCs is 5% and 10% for seconday COCs.
Pass/Fail - Pass or Fail result from the t-Test based on "t-Stat" above. The associated probability is "Prob." above.



OSB-2 METALS SAMPLE LOCATIONS

Certification Unit: OSB-2 18-May-98

Map	Sample ID	Certification Analytes: Arsenic		Beryllium		Aroclor-1260	
1	OSB-2C-1-MP	17.2	-	1.5	U	42	U
2	OSB-2C-2-MP	15	-	1.1	U	41	U
3	OSB-2C-3-MP	12.2	-	0.9	U	40	U
4	OSB-2C-4-MP	15.5	-	1.7	U	41	U
5	OSB-2C-5-MP	14.8	-	1.8	-	42	U
6	OSB-2C-6-MP	7.8	-	0.83	U	38	U
7	OSB-2C-7-MP	11.2	-	1.2	U	41	U
8	OSB-2C-8-MP	6.9	-	0.79	U	39	U
8	OSB-2C-8-MP-D	8.7	-	0.97	U	40	U
9	OSB-2C-9-MP	5.7	-	0.8	U	38	U
10	OSB-2C-10-MP	7.7	-	0.96	U	38	U
11	OSB-2C-11-MP	5.3	-	0.63	U	38	U
12	OSB-2C-12-MP	4	U	0.67	U	37	U
13	OSB-2C-13-MP	5.8	-	0.58	-	36	U
14	OSB-2C-14-MP	5.6	-	0.77	U	37	U
15	OSB-2C-15-MP	6.9	-	0.88	U	37	U
16	OSB-2C-16-MP	7	-	0.79	U	41	U
	FRL (* = BTV)	12		1.5		130	
	Units	mg/kg		mg/kg		ug/kg	
	Background UCL	5.6		0.6		n/a	
	Background 95%	8.2		0.6		n/a	
	Samples	16		16		16	
	Hits	15		2		0	
	Max	**17.2**		**1.80**		**42 U**	
	Mean	9.2		0.57		19.58	
	St.Dev.	4.5		0.36		1.00	
	UCL	**10.7**		**0.69**		**19.91**	
	t-Stat	2.48		10.35		442.21	
	Prob.	1.3%		0.0%		0.0%	
	Pass/Fail	**Pass**		**Pass**		**Pass**	

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KEY

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Background UCL - Upper Confidence Level (95% one-sided) on the Mean Background concentration.
Background 95% - 95th Percentile of the background dataset.
Samples - Number of distinct sample locations in the analysis (see NOTE above).
Hits - Analyte positively detected in the sample.
Max - The maximum sample result.
Mean - The mean or average concentration. (See NOTE above).
St.Dev. - The standard deviation of the sample concentrations. (See NOTE above).
UCL - Upper Confidence Level (95% one-sided) on the Mean concentration.
t-Stat - The calculated t-statistic for the mean concentration compared to the FRL. (See the Certification Report).
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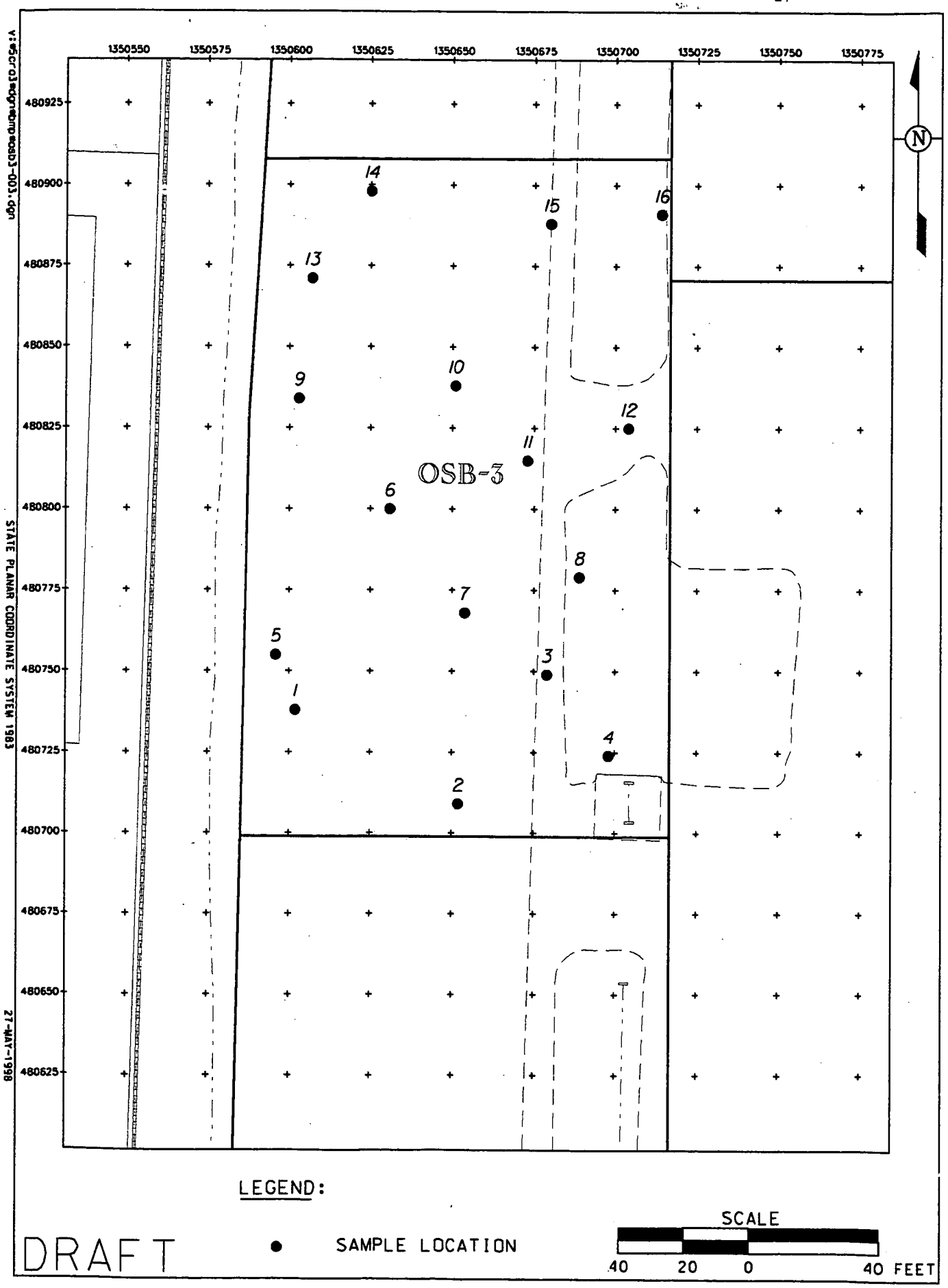

LEGEND:

● SAMPLE LOCATION

DRAFT

SCALE

40 20 0 40 FEET

OSB-3 METALS SAMPLE LOCATIONS

Certification Unit: OSB-3 18-May-98

Map	Sample ID	Certification Analytes: Arsenic		Beryllium		Aroclor-1260	
1	OSB-3C-1-MP	5.9	-	0.45	-	37	U
2	OSB-3C-2-MP	6.6	-	0.64	-	41	U
3	OSB-3C-3-MP	11.7	-	1.8	-	42	U
4	OSB-3C-4-MP	12.3	-	1.7	-	42	U
5	OSB-3C-5-MP	6	-	0.5	-	38	U
6	OSB-3C-6-MP	8	-	0.69	-	41	U
7	OSB-3C-7-MP	6.2	-	0.74	-	38	U
8	OSB-3C-8-MP	6.3	-	0.74	-	38	U
9	OSB-3C-9-MP	10.7	-	1.1	-	41	U
10	OSB-3C-10-MP	9	-	1	-	40	U
11	OSB-3C-11-MP	7.4	-	0.84	-	39	U
12	OSB-3C-12-MP	6.7	-	0.67	-	38	U
12	OSB-3C-12-MP-D	7.6	-	0.81	-	41	U
13	OSB-3C-13-MP	6.2	-	1.2	-	41	U
14	OSB-3C-14-MP	8.2	-	1	-	39	U
15	OSB-3C-15-MP	8.3	-	0.98	-	38	U
16	OSB-3C-16-MP	7.1	-	0.71	-	38	U
	FRL (* = BTV)	12		1.5		130	
	Units	mg/kg		mg/kg		ug/kg	
	Background UCL	5.6		0.6		n/a	
	Background 95%	8.2		0.6		n/a	
	Samples	16		16		16	
	Hits	16		16		0	
	Max	**12.3**		**1.80**		**42 U**	
	Mean	7.9		0.93		19.77	
	St.Dev.	2.0		0.38		0.81	
	UCL	**8.6**		**1.05**		**20.04**	
	t-Stat	7.98		6.01		541.84	
	Prob.	0.0%		0.0%		0.0%	
	Pass/Fail	**Pass**		**Pass**		**Pass**	

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KEY

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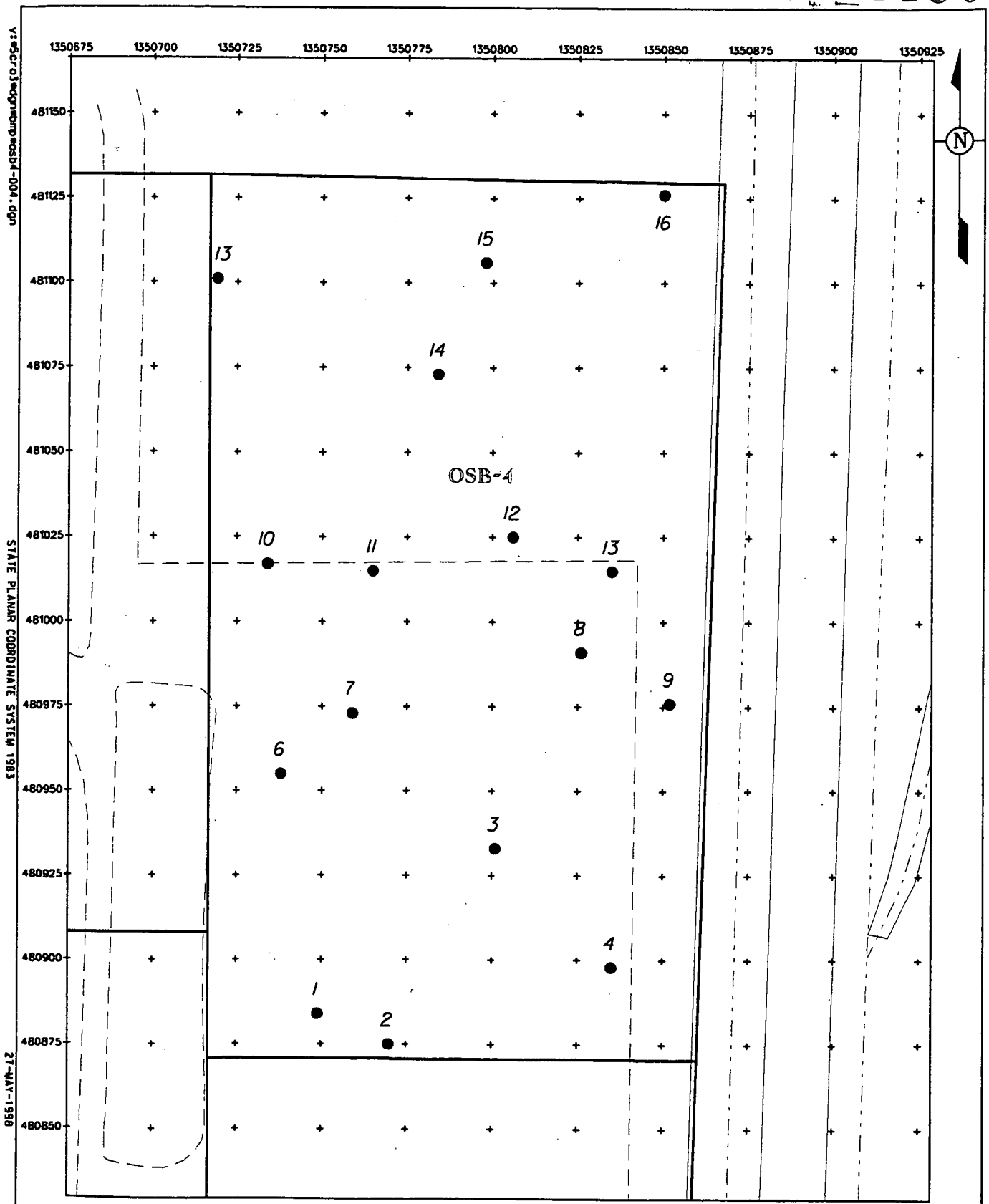
Background UCL - Upper Confidence Level (95% one-sided) on the Mean Background concentration.
Background 95% - 95th Percentile of the background dataset.
Samples - Number of distinct sample locations in the analysis (see NOTE above).
Hits - Analyte positively detected in the sample.
Max - The maximum sample result.
Mean - The mean or average concentration. (See NOTE above).
St.Dev. - The standard deviation of the sample concentrations. (See NOTE above).
UCL - Upper Confidence Level (95% one-sided) on the Mean concentration.
t-Stat - The calculated t-statistic for the mean concentration compared to the FRL. (See the Certification Report).
Prob. - The probability (based on the t-Stat) that the true CU mean exceeds the FRL. Acceptable probability for primary COCs is 5% and 10% for seconday COCs.
Pass/Fail - Pass or Fail result from the t-Test based on "t-Stat" above. The associated probability is "Prob." above.



OSB-4 METALS SAMPLE LOCATIONS

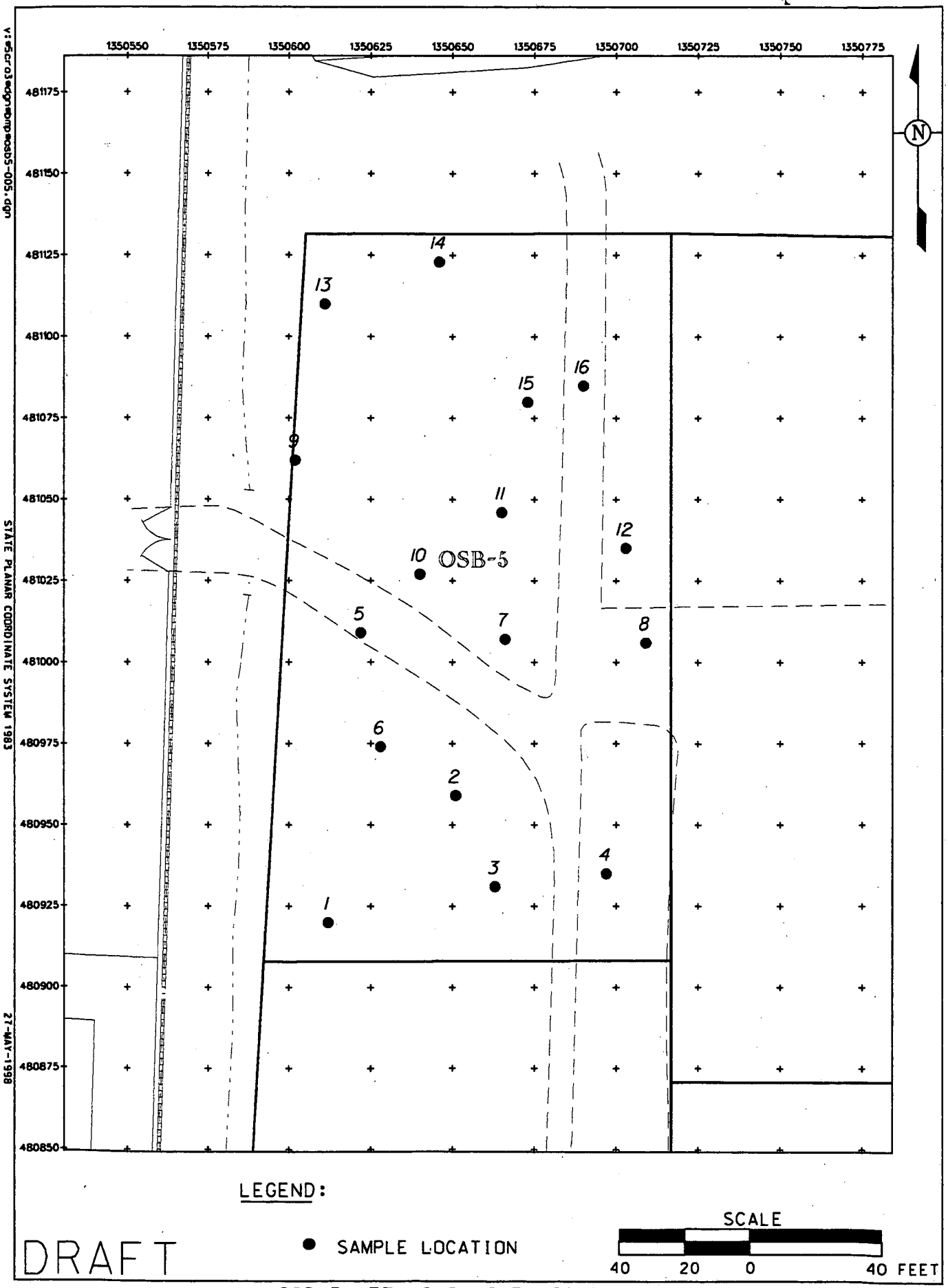
Certification Unit: OSB-4 18-May-98

Map	Sample ID	Certification Analytes: Arsenic		Beryllium		Aroclor-1260	
1	OSB-4C-1-MP	6.2	-	0.61	-	38	U
2	OSB-4C-2-MP	4.8	U	0.53	-	38	U
3	OSB-4C-3-MP	7.8	-	0.7	-	38	U
4	OSB-4C-4-MP	7.4	-	0.64	-	38	U
4	OSB-4C-4-MP-D	7	-	1	-	39	U
5	OSB-4C-5-MP	6.6	-	0.87	-	38	U
6	OSB-4C-6-MP	6.7	-	0.66	-	37	U
7	OSB-4C-7-MP	6.8	-	0.43	-	40	U
8	OSB-4C-8-MP	9.5	-	0.46	-	40	U
9	OSB-4C-9-MP	5.9	-	0.66	-	37	U
10	OSB-4C-10-MP	5	U	0.32	-	40	U
11	OSB-4C-11-MP	5.9	-	0.4	-	38	U
12	OSB-4C-12-MP	15.7	-	0.46	-	40	U
13	OSB-4C-13-MP	5.2	U	0.36	-	39	U
14	OSB-4C-14-MP	12.3	-	0.46	-	40	U
15	OSB-4C-15-MP	7.4	-	0.63	-	39	U
16	OSB-4C-16-MP	9.1	-	1	-	40	U
	FRL (* = BTV)	12		1.5		130	
	Units	mg/kg		mg/kg		ug/kg	
	Background UCL	5.6		0.6		n/a	
	Background 95%	8.2		0.6		n/a	
	Samples	16		16		16	
	Hits	13		16		0	
	Max	**15.7**		**1.00**		**40 U**	
	Mean	7.2		0.59		19.39	
	St.Dev.	3.5		0.19		0.56	
	UCL	**8.3**		**0.65**		**19.58**	
	t-Stat	5.60		18.85		797.12	
	Prob.	0.0%		0.0%		0.0%	
	Pass/Fail	**Pass**		**Pass**		**Pass**	

NOTE: One half of the reported detection level was used in the calculations for results reported as below the detection limit (qualified with "U"). Duplicates were averaged before calculations were performed.

KEY

FRL - Final Remedial Level
Background UCL - Upper Confidence Level (95% one-sided) on the Mean Background concentration.
Background 95% - 95th Percentile of the background dataset.
Samples - Number of distinct sample locations in the analysis (see NOTE above).
Hits - Analyte positively detected in the sample.
Max - The maximum sample result.
Mean - The mean or average concentration. (See NOTE above).
St.Dev. - The standard deviation of the sample concentrations. (See NOTE above).
UCL - Upper Confidence Level (95% one-sided) on the Mean concentration.
t-Stat - The calculated t-statistic for the mean concentration compared to the FRL. (See the Certification Report).
Prob. - The probability (based on the t-Stat) that the true CU mean exceeds the FRL. Acceptable probability for primary COCs is 5% and 10% for seconday COCs.
Pass/Fail - Pass or Fail result from the t-Test based on "t-Stat" above. The associated probability is "Prob." above.



OSB-5 METALS SAMPLE LOCATIONS

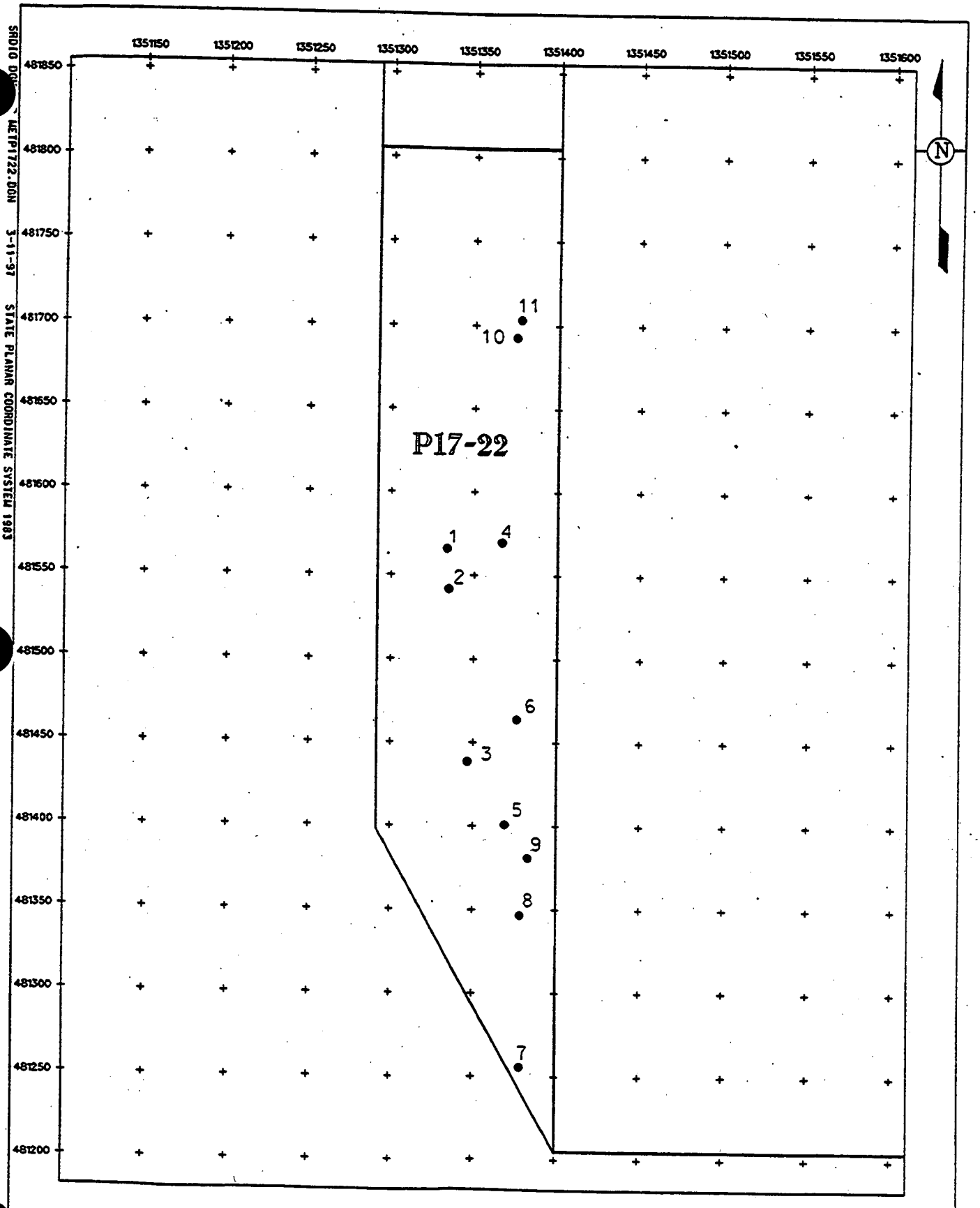
Certification Unit: OSB-5 18-May-98

Map	Sample ID	Certification Analytes: Arsenic		Beryllium		Aroclor-1260	
1	OSB-5C-1-MP	7	-	1.2	-	41	U
2	OSB-5C-2-MP	7.3	-	0.78	-	39	U
3	OSB-5C-3-MP	6.2	-	0.65	-	38	U
4	OSB-5C-4-MP	7.7	-	0.9	-	40	U
5	OSB-5C-5-MP	9.8	-	0.89	-	41	U
6	OSB-5C-6-MP	6.6	-	0.81	-	39	U
7	OSB-5C-7-MP	5.1	-	0.55	-	39	U
8	OSB-5C-8-MP	4.2	-	0.38	-	39	U
9	OSB-5C-9-MP	4.8	-	0.37	-	38	U
10	OSB-5C-10-MP	7.4	-	0.66	-	40	U
10	OSB-5C-10-MP-D	9.1	-	0.8	-	39	U
11	OSB-5C-11-MP	7.8	-	0.85	-	39	U
12	OSB-5C-12-MP	14.5	-	1.1	-	40	U
13	OSB-5C-13-MP	5.7	-	0.59	-	38	U
14	OSB-5C-14-MP	9.2	-	0.85	-	39	U
15	OSB-5C-15-MP	14.4	-	1.3	-	42	U
16	OSB-5C-16-MP	7.1	-	0.76	-	38	U
	FRL (* = BTV)	**12**		**1.5**		**130**	
	Units	mg/kg		mg/kg		ug/kg	
	Background UCL	5.6		0.6		n/a	
	Background 95%	8.2		0.6		n/a	
	Samples	16		16		16	
	Hits	16		16		0	
	Max	**14.5**		**1.30**		**42 U**	
	Mean	7.9		0.79		19.67	
	St.Dev.	3.0		0.26		0.60	
	UCL	**8.9**		**0.88**		**19.87**	
	t-Stat	5.56		10.82		739.65	
	Prob.	0.0%		0.0%		0.0%	
	Pass/Fail	**Pass**		**Pass**		**Pass**	

NOTE: One half of the reported detection level was used in the calculations for results reported as below the detection limit (qualified with "U"). Duplicates were averaged before calculations were performed.

KEY

FRL - Final Remedial Level
Background UCL - Upper Confidence Level (95% one-sided) on the Mean Background concentration.
Background 95% - 95th Percentile of the background dataset.
Samples - Number of distinct sample locations in the analysis (see NOTE above).
Hits - Analyte positively detected in the sample.
Max - The maximum sample result.
Mean - The mean or average concentration. (See NOTE above).
St.Dev. - The standard deviation of the sample concentrations. (See NOTE above).
UCL - Upper Confidence Level (95% one-sided) on the Mean concentration.
t-Stat - The calculated t-statistic for the mean concentration compared to the FRL. (See the Certification Report).
Prob. - The probability (based on the t-Stat) that the true CU mean exceeds the FRL. Acceptable probability for primary COCs is 5% and 10% for seconday COCs.
Pass/Fail - Pass or Fail result from the t-Test based on "t-Stat" above. The associated probability is "Prob." above.



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SCALE

80 40 0 80 FEET

P17-22 METALS MAP OF DATA POINTS

Certification Unit: P17-22 09:12 AM 27-May-98

Map	Sample ID	Certification Analytes		Ecological COCs		
		Arsenic	Beryllium	Aluminum	Manganese	Molybdenum
1	P17-22C2-M-1	12.7 J	1.4 U	16300 -		0.99 U
2	P17-22C2-M-2	8.6 J	0.83 U	7090 -	2190 J	0.98 U
3	P17-22C2-M-3	10.4 J	1.2 U	12300 -		0.99 U
4	P17-22C2-M-4	7.8 J	0.65 U	5880 -		0.94 U
5	P17-22C2-M-5	7.7 J	0.75 U	7450 -		1 U
6	P17-22C2-M-6	9 J	1.2 U	12000 -		0.97 U
7	P17-22C2-M-7	10.1 J	1.1 U	14000 -		0.9 U
8	P17-22C2-M-8	6.7 J	0.75 U	7590 -		0.9 U
9	P17-22C2-M-9	9.3 J	0.88 U	7150 -	1540 J	0.9 U
10	P17-22C2-M-10	7.7 J	0.84 U	9530 -		1 U
11	P17-22C2-M-11	7.5 J	0.8 U	7130 -		0.98 U
11	P17-22C2-M-11-D	7.3 J	0.83 U	9100 -		1 U
	FRL (* = BTV)	**12**	**1.5**	**10103**	**1500 ***	**10 ***
	Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
	Background UCL	5.6	0.6	8812	814	n/a
	Background 95%	8.2	0.6	11880	1348	n/a
	Samples	11	11	11	2	11
	Hits	11	0	11	2	0
	Max	**12.70**	**0.70**	**16300**	**2190**	**0.50**
	Mean	8.85	0.47	9764	1865	0.48
	St.Dev.	1.72	0.12	3377	460	0.02
	UCL	**9.57**	**0.52**	**11161**	**2865**	**0.49**
	t-Stat	6.07	28.76	--	--	--
	Prob.	0.0%	0.0%	--	--	--
	Pass/Fail	**Pass**	**Pass**	--	--	--

NOTE: One half of the reported detection level was used in the calculations for results reported as below the detection limit (qualified with "U"). Duplicates were averaged before calculations were performed.

KEY

FRL - Final Remedial Level
Background UCL - Upper Confidence Level (95% one-sided) on the Mean Background concentration.
Background 95% - 95th Percentile of the background dataset.
Samples - Number of distinct sample locations in the analysis (see NOTE above).
Hits - Analyte positively detected in the sample.
Max - The maximum sample result.
Mean - The mean or average concentration. (See NOTE above).
St.Dev. - The standard deviation of the sample concentrations. (See NOTE above).
UCL - Upper Confidence Level (95% one-sided) on the Mean concentration.
t-Stat - The calculated t-statistic for the mean concentration compared to the FRL. (See the Certification Report).
Prob. - The probability (based on the t-Stat) that the true CU mean exceeds the FRL. Acceptable probability for primary COCs is 5% and 10% for seconday COCs.
Pass/Fail - Pass or Fail result from the t-Test based on "t-Stat" above. The associated probability is "Prob." above.

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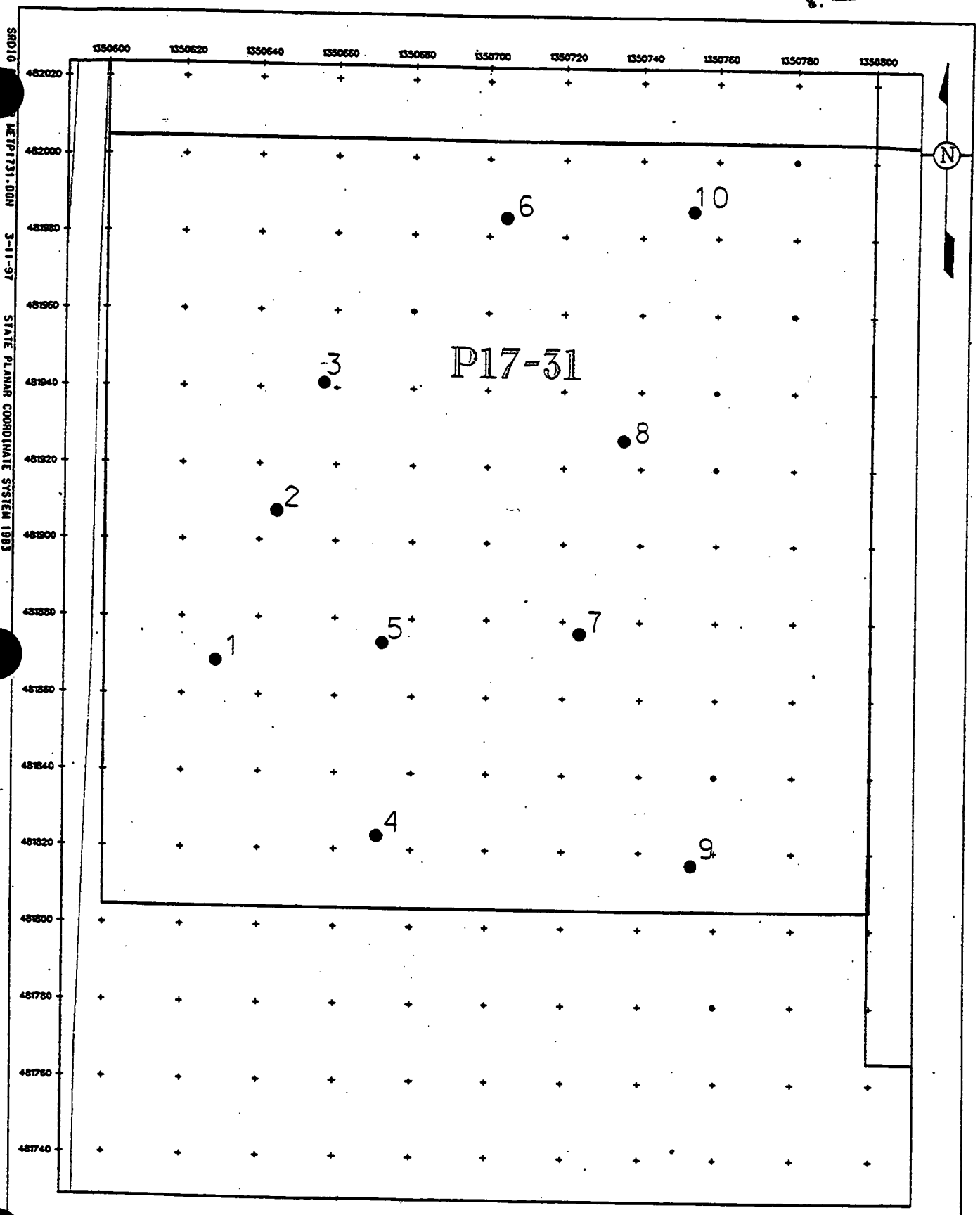

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SCALE

35 17.5 0 35 FEET

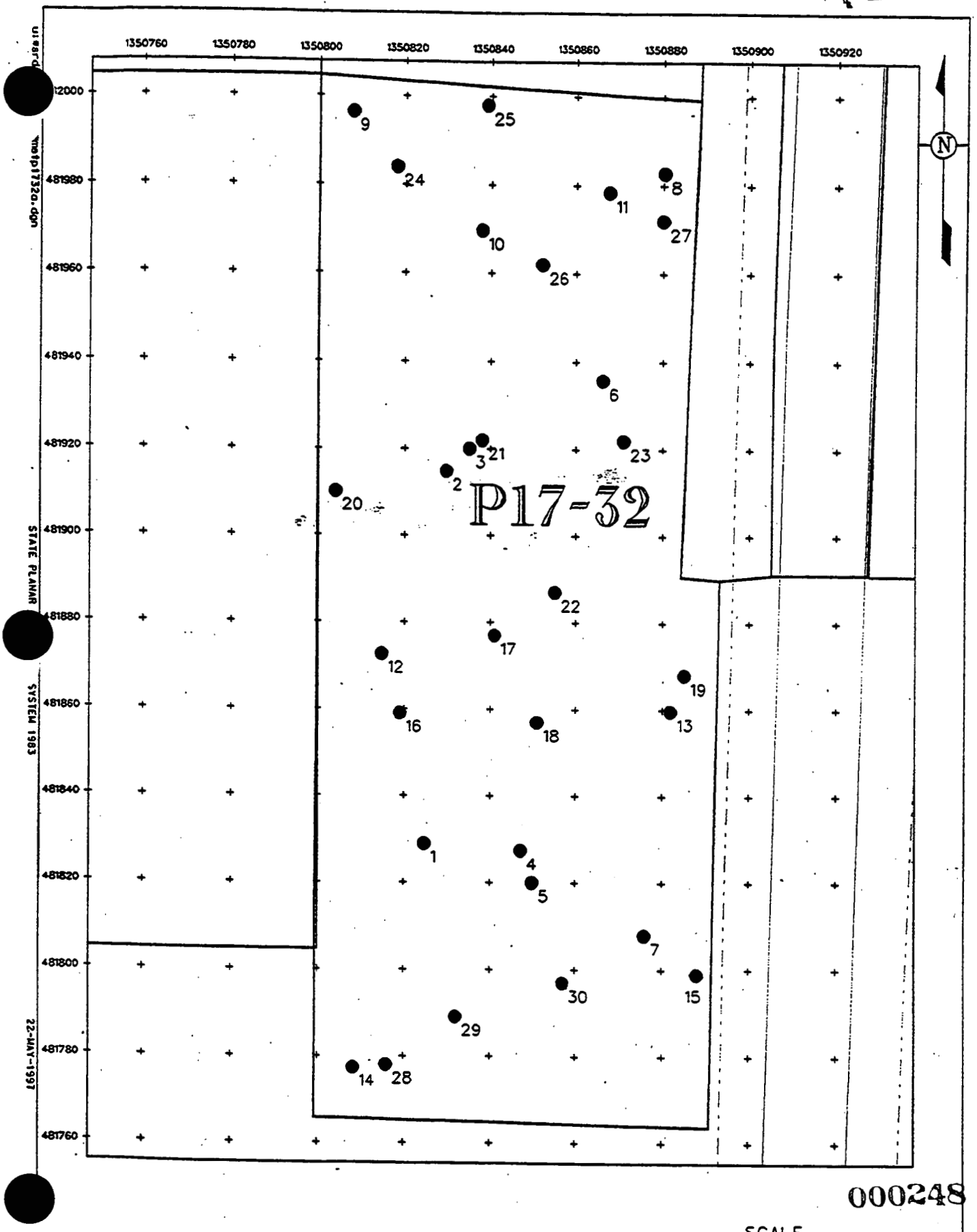
P17-31 METALS MAP OF DATA POINTS

Certification Unit: P17-31 03:46 PM 13-May-98

Map	Sample ID	Certification Analytes			Ecological COCs			
		Arsenic	Beryllium	Aroclor-1260	Aluminum	Lead	Manganese	Molybdenum
1	P17-31C-628868	5.3 J	0.45 U	44 U	7250 -	7.2 -	480 J	4.2 U
2	P17-31C-644907	5.5 J	0.26 U	45 U	4030 -	8.4 -	395 J	4.4 U
2	P17-31C-644907-D	3.4 J	0.22 U	45 U	3550 -	4.8 -	244 J	4.4 U
3	P17-31C-656941	4.5 J	0.35 U	45 U	5680 -	5.6 -	365 J	4.3 U
4	P17-31C-671823	6.2 -	0.61 U	48 U	7360 -	15.2 -	915 J	0.94 U
5	P17-31C-672873	10.8 J	0.76 U	50 U	12200 -	19.7 -	841 J	1.4 -
6	P17-31C-704984	6.5 J	0.51 U	43 U	9020 -	12.4 -	543 J	1.1 -
7	P17-31C-724876	8.4 -	0.5 U	47 U	7150 -	17.2 -	809 J	0.91 U
8	P17-31C-735927	7.3 J	0.65 U	46 U	9130 -	14.6 -	638 J	0.96 -
9	P17-31C-753816	8.6 -	0.7 U	46 U	9780 -	18 -	552 J	1.2 -
10	P17-31C-753986	7 J	0.49 U	43 U	7650 -	7.8 -	529 J	4.2 U
	FRL (* = BTV)	12	1.5	130	10103	200 *	1500 *	10 *
	Units	mg/kg	mg/kg	ug/kg	mg/kg	mg/kg	mg/kg	mg/kg
	Background UCL	5.6	0.6	n/a	8812	18.9	814	n/a
	Background 95%	8.2	0.6	n/a	11880	26.4	1348	n/a
	Samples	10	10	10	10	10	10	10
	Hits	10	0	0	10	10	10	4
	Max	10.80	0.38	25.0	12200	19.7	915	2.20
	Mean	6.91	0.26	22.9	7901	12.4	599	1.41
	St.Dev.	1.99	0.08	1.1	2308	5.3	200	0.69
	UCL	7.77	0.30	23.3	8911	14.7	687	1.71
	t-Stat	8.11	49.13	306.14	--	--	--	--
	Prob.	0.0%	0.0%	0.0%	--	--	--	--
	Pass/Fail	Pass	Pass	Pass	--	--	--	--

NOTE: One half of the reported detection level was used in the calculations for results reported as below the detection limit (qualified with "U"). Duplicates were averaged before calculations were performed.

KEY
FRL - Final Remedial Level
Background UCL - Upper Confidence Level (95% one-sided) on the Mean Background concentration.
Background 95% - 95th Percentile of the background dataset.
Samples - Number of distinct sample locations in the analysis (see NOTE above).
Hits - Analyte positively detected in the sample.
Max - The maximum sample result.
Mean - The mean or average concentration. (See NOTE above).
St.Dev. - The standard deviation of the sample concentrations. (See NOTE above).
UCL - Upper Confidence Level (95% one-sided) on the Mean concentration.
t-Stat - The calculated t-statistic for the mean concentration compared to the FRL. (See the Certification Report).
Prob. - The probability (based on the t-Stat) that the true CU mean exceeds the FRL. Acceptable probability for primary COCs is 5% and 10% for seconday COCs.
Pass/Fail - Pass or Fail result from the t-Test based on "t-Stat" above. The associated probability is "Prob." above.



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SCALE

30 15 0 30 FEET

P17-32 METALS MAP OF DATA POINTS

ORIGINAL FAILED CU RESULTS

Certification Unit: P17-32 09:15 AM 27-May-98

p	Sample ID	Certification Analytes: Arsenic		Certification Analytes: Beryllium		Ecological COCs: Aluminum		Ecological COCs: Lead		Ecological COCs: Manganese		Ecological COCs: Molybdenum	
1	P17-32C-824828	10.3	J	0.96	-	13200	-	15.7	-	668	-	0.94	U
2	P17-32C-829914	14.8	J	0.71	U	14800	-	16.6	-	205	-	1.3	-
3	P17-32C-835920	16.9	-	1.1	U	24800	-	19.9	-	438	J	1.5	U
4	P17-32C-847827	10.7	J	0.62	U	11500	-	16	-	324	-	0.94	U
5	P17-32C-850820	14.1	-	2.3	-	23800	-	17.6	-	1080	J	1.2	U
6	P17-32C-866935	7.1	-	0.47	U	6280	-	17.1	-	2080	-	1.4	-
7	P17-32C-876808	13.8	-	0.64	U	17200	-	15.6	-	171	J	1.1	-
8	P17-32C-880982	7.4	-	0.45	U	8830	-	15.8	-	771	-	0.91	U
9	P17-32C2-M-1	10.8	-	0.81	-	11100	-			422	J	1.1	U
10	P17-32C2-M-2	14.6	-	0.65	-	11900	-			108	J	1.6	U
11	P17-32C2-M-3	16.0	-	0.95	-	16400	-			241	J	3.2	U
12	P17-32C2-M-4	7.1	-	0.72	-	7610	-			776	J	1	U
13	P17-32C2-M-5	13.9	-	0.79	-	7480	-			849	J	1.2	U
14	P17-32C2-M-6	7.5	-	0.73	-	7650	-			713	J	0.92	U
	FRL (* = BTV)	**12**		**1.5**		**10103**		**200**	*	**1500**	*	**10**	*
	Background UCL	5.6		0.6		8812		18.9		814		n/a	
	Background 95%	8.2		0.6		11880		26.4		1348		n/a	
	Samples	14		14		14		8		14		14	
	Hits	14		8		14		8		14		3	
	Max	**16.90**		**2.30**		**24800**		**19.9**		**2080**		**1.60**	
	Mean	11.79		0.71		13039		16.8		632		0.79	
	St.Dev.	3.52		0.53		5858		1.4		511		0.39	
	UCL	**13.05**		**0.90**		**15153**		**17.5**		**816**		**0.93**	
	t-Stat	0.23		5.64		--		--		--		--	
	Prob.	41.1%		0.0%		--		--		--		--	
	Pass/Fail	**Fail**		**Pass**		--		--		--		--	

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KEY

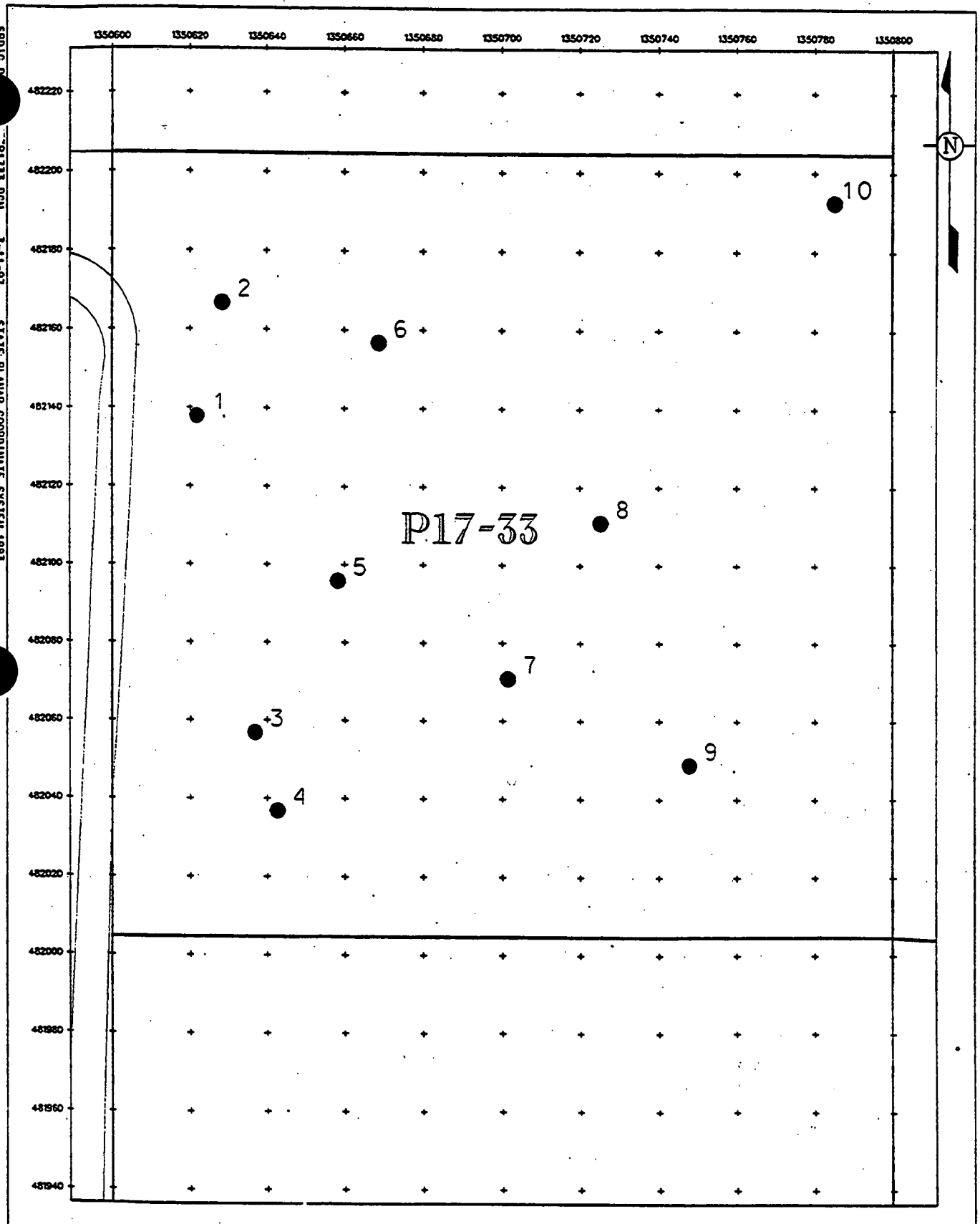
FRL - Final Remedial Level
Background UCL - Upper Confidence Level (95% one-sided) on the Mean Background concentration.
Background 95% - 95th Percentile of the background dataset.
Samples - Number of distinct sample locations in the analysis (see NOTE above).
Hits - Analyte positively detected in the sample.
Max - The maximum sample result.
Mean - The mean or average concentration. (See NOTE above).
St.Dev. - The standard deviation of the sample concentrations. (See NOTE above).
UCL - Upper Confidence Level (95% one-sided) on the Mean concentration.
t-Stat - The calculated t-statistic for the mean concentration compared to the FRL. (See the Certification Report).
Prob. - The probability (based on the t-Stat) that the true CU mean exceeds the FRL. Acceptable probability for primary COCs is 5% and 10% for seconday COCs.
Pass/Fail - Pass or Fail result from the t-Test based on "t-Stat" above. The associated probability is "Prob." above.

Certification Unit: P17-32 03:45 PM 13-May-98

		Certification Analytes		Ecological COCs			
Map	Sample ID	Arsenic	Beryllium	Aluminum	Lead	Manganese	Molybdenum
1	P17-32C-824828		0.96 -	13200 -	15.7 -	668 -	0.94 U
2	P17-32C-829914		0.71 U	14800 -	16.6 -	205 -	1.3 -
3	P17-32C-835920		1.1 U	24800 -	19.9 -	438 J	1.5 U
4	P17-32C-847827		0.62 U	11500 -	16 -	324 -	0.94 U
5	P17-32C-850820		2.3 -	23800 -	17.6 -	1080 J	1.2 U
6	P17-32C-866935		0.47 U	6280 -	17.1 -	2080 -	1.4 -
7	P17-32C-876808		0.64 U	17200 -	15.6 -	171 J	1.1 -
8	P17-32C-880982		0.45 U	8830 -	15.8 -	771 -	0.91 U
9	P17-32C2-M-1		0.81 -	11100 -		422 J	1.1 U
10	P17-32C2-M-2		0.65 -	11900 -		108 J	1.6 U
11	P17-32C2-M-3		0.95 -	16400 -		241 J	3.2 U
12	P17-32C2-M-4		0.72 -	7610 -		776 J	1 U
13	P17-32C2-M-5		0.79 -	7480 -		849 J	1.2 U
14	P17-32C2-M-6		0.73 -	7650 -		713 J	0.92 U
28	P17-32INV2-M-7	4.6 -					
29	P17-32INV2-M-8	5.8 -					
30	P17-32INV2-M-9	8.5 -					
15	P17-32INV2-M-10	11.3 -					
16	P17-32INV2-M-11	7.7 -					
17	P17-32INV2-M-12	11 -					
18	P17-32INV2-M-13	11.3 -					
19	P17-32INV2-M-14	8.6 -					
20	P17-32INV2-M-15	5 -					
20	P17-32INV2-M-15-D	4.5 -					
21	P17-32INV2-M-16	11 -					
22	P17-32INV2-M-17	10.5 -					
23	P17-32INV2-M-18	12 -					
24	P17-32INV2-M-19	6.5 -					
25	P17-32INV2-M-20	7 -					
26	P17-32INV2-M-21	11.6 -					
27	P17-32INV2-M-22	9.8 -					
	FRL (* = BTV)	12	1.5	10103	200 *	1500 *	10 *
	Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
	Background UCL	5.6	0.6	8812	18.9	814	n/a
	Background 95%	8.2	0.6	11880	26.4	1348	n/a
	Samples	16	14	14	8	14	14
	Hits	16	8	14	8	14	3
	Max	12.00	2.30	24800	19.9	2080	1.60
	Mean	9.17	0.71	13039	16.8	632	0.79
	St.Dev.	2.29	0.53	5858	1.4	511	0.39
	UCL	9.94	0.90	15153	17.5	816	0.93
	t-Stat	4.94	5.64	--	--	--	--
	Prob.	0.0%	0.0%	--	--	--	--
	Pass/Fail	Pass	Pass	--	--	--	--

NOTE: One half of the reported detection level was used in the calculations for results reported as below the detection limit (qualified with "U"). Duplicates were averaged before calculations were performed.

KEY
FRL - Final Remedial Level
Background UCL - Upper Confidence Level (95% one-sided) on the Mean Background concentration.
Background 95% - 95th Percentile of the background dataset.
Samples - Number of distinct sample locations in the analysis (see NOTE above).
Hits - Analyte positively detected in the sample.
Max - The maximum sample result.
Mean - The mean or average concentration. (See NOTE above).
St.Dev. - The standard deviation of the sample concentrations. (See NOTE above).
UCL - Upper Confidence Level (95% one-sided) on the Mean concentration.
t-Stat - The calculated t-statistic for the mean concentration compared to the FRL. (See the Certification Report).
Prob. - The probability (based on the t-Stat) that the true CU mean exceeds the FRL. Acceptable probability for primary COCs is 5% and 10% for seconday COCs.
Pass/Fail - Pass or Fail result from the t-Test based on "t-Stat" above. The associated probability is "Prob." above.



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P17-33 METALS MAP OF DATA POINTS

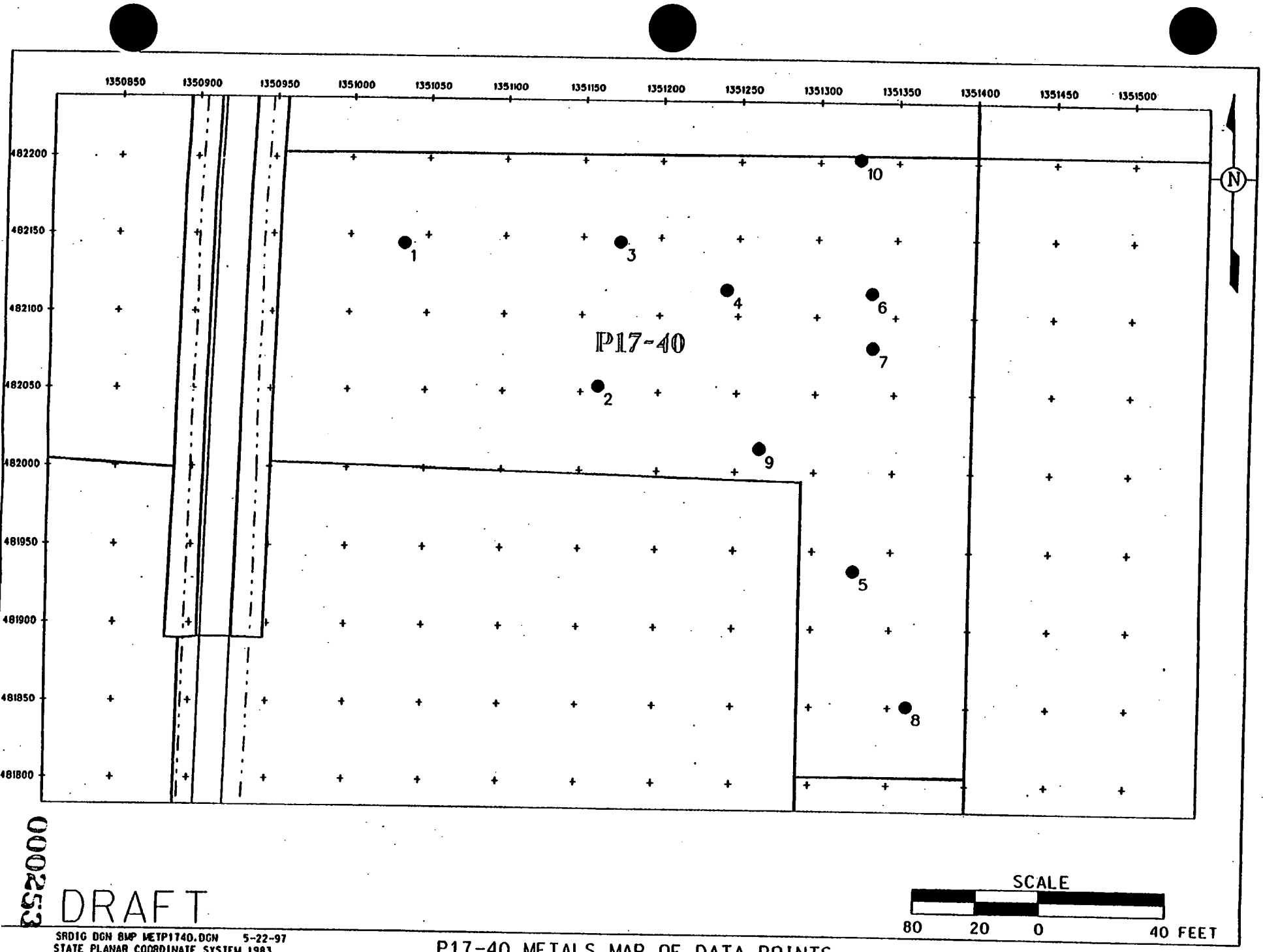
		Certification Analytes			Ecological COCs			
Map	Sample ID	Arsenic	Beryllium	Aroclor-1260	Aluminum	Lead	Manganese	Molybdenum
1	P17-33C-621137	5.5 -	0.8 U	47 U	7920 -	8.8 J	503 -	4.4 U
2	P17-33C-628166	8.5 -	0.87 -	49 U	12100 -	18 J	591 -	1.3 -
3	P17-33C-636056	5.8 -	0.74 U	44 U	7230 -	12.5 J	559 -	4.1 U
4	P17-33C-642036	7.5 J	0.68 -	43 U	10100 -	10.2 J	414 -	1.7 -
5	P17-33C-658095	4.9 -	0.83 U	43 U	7670 -	6.9 J	823 -	4 U
6	P17-33C-668156	7.5 -	0.9 U	45 U	9460 -	15.1 J	690 -	4.3 U
7	P17-33C-701070	6.9 J	0.72 U	48 U	9020 -	16.8 J	508 -	1.3 -
8	P17-33C-725110	8.8 -	0.87 -	48 U	11800 -	19.1 J	864 -	1.4 -
9	P17-33C-747048	5.3 -	0.79 U	44 U	8230 -	7 J	433 -	4.1 U
10	P17-33C-785192	5.6 -	0.87 U	45 U	10200 -	8.2 J	717 -	4.3 U
	FRL (* = BTV)	12	1.5	130	10103	200 *	1500 *	10 *
	Units	mg/kg	mg/kg	ug/kg	mg/kg	mg/kg	mg/kg	mg/kg
	Background UCL	5.6	0.6	n/a	8812	18.9	814	n/a
	Background 95%	8.2	0.6	n/a	11880	26.4	1348	n/a
	Samples	10	10	10	10	10	10	10
	Hits	10	3	0	10	10	10	4
	Max	8.80	0.87	24.5	12100	19.1	864	2.20
	Mean	6.63	0.52	22.8	9373	12.3	610	1.83
	St.Dev.	1.40	0.20	1.1	1686	4.7	157	0.37
	UCL	7.24	0.61	23.3	10110	14.3	679	1.99
	t-Stat	12.15	15.18	305.25	--	--	--	--
	Prob.	0.0%	0.0%	0.0%	--	--	--	--
	Pass/Fail	Pass	Pass	Pass	--	--	--	--

NOTE: One half of the reported detection level was used in the calculations for results reported as below the detection limit (qualified with "U"). Duplicates were averaged before calculations were performed.

KEY

FRL - Final Remedial Level
Background UCL - Upper Confidence Level (95% one-sided) on the Mean Background concentration.
Background 95% - 95th Percentile of the background dataset.
Samples - Number of distinct sample locations in the analysis (see NOTE above).
Hits - Analyte positively detected in the sample.
Max - The maximum sample result.
Mean - The mean or average concentration. (See NOTE above).
St.Dev. - The standard deviation of the sample concentrations. (See NOTE above).
UCL - Upper Confidence Level (95% one-sided) on the Mean concentration.
t-Stat - The calculated t-statistic for the mean concentration compared to the FRL. (See the Certification Report).
Prob. - The probability (based on the t-Stat) that the true CU mean exceeds the FRL. Acceptable probability for primary COCs is 5% and 10% for seconday COCs.
Pass/Fail - Pass or Fail result from the t-Test based on "t-Stat" above. The associated probability is "Prob." above.

P17-40



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P17-40 METALS MAP OF DATA POINTS

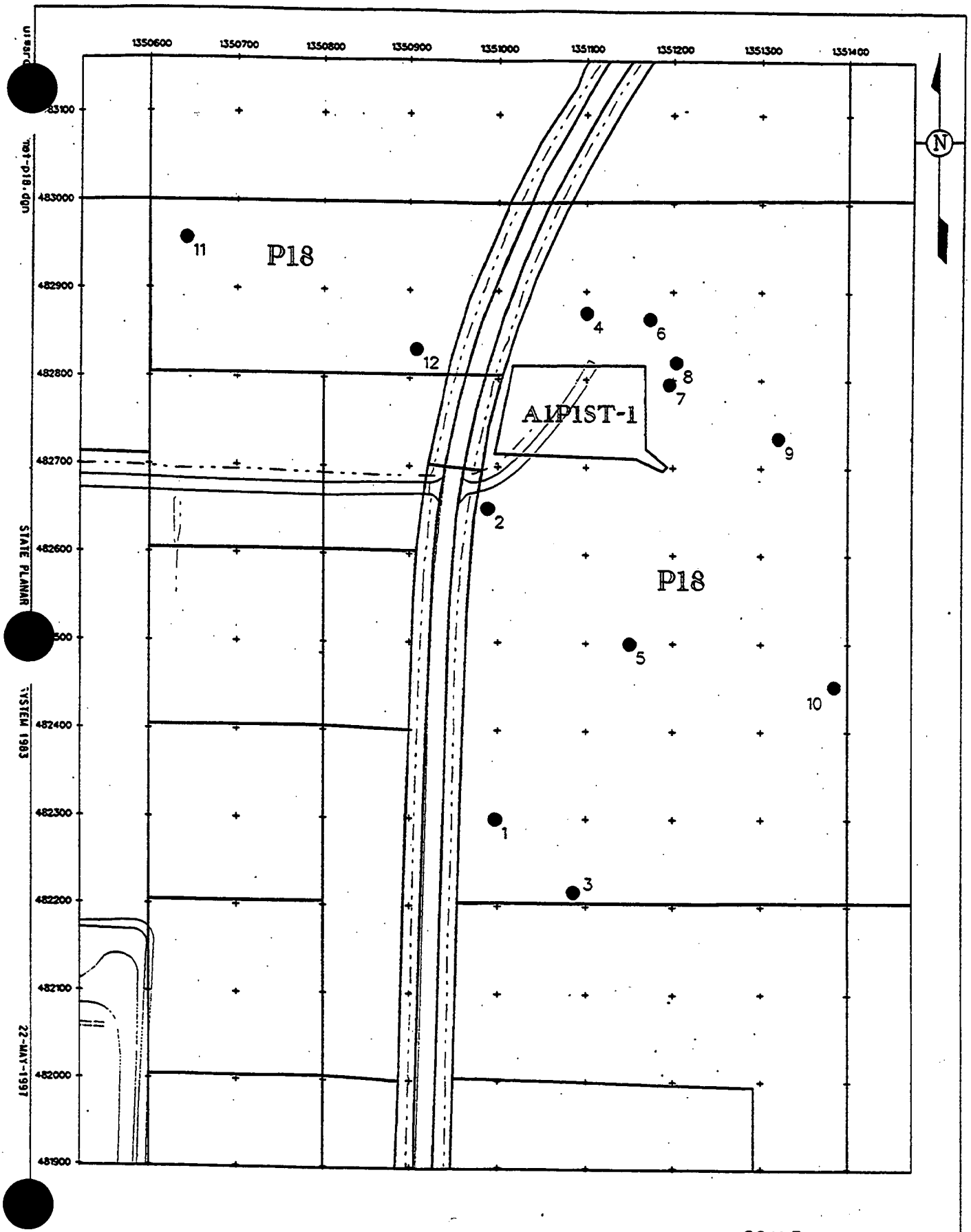
1480

Certification Unit: P17-40 03:44 PM 13-May-98

Map	Sample ID	Certification Analytes: Arsenic	Certification Analytes: Beryllium	Ecological COCs: Aluminum	Ecological COCs: Lead	Ecological COCs: Manganese	Ecological COCs: Molybdenum
1	P17-40C-034144	10.2 -	0.76 -	13000 -		544 J	1.1 U
2	P17-40C-161053	10.1 -	0.85 U	9270 -	19.4 -	722 -	0.96 U
3	P17-40C-173146	7.1 -	0.55 U	6870 -	15.8 -	616 J	0.95 U
4	P17-40C-242116	10.7 -	0.78 U	12700 -	19.2 -	819 -	0.93 U
5	P17-40C-326937	9.1 -	0.86 -	8930 -		996 J	1.1 U
6	P17-40C-334115	8 -	0.69 U	6480 -	18.1 -	606 -	0.93 U
7	P17-40C-355079	7.9 -	0.78 U	7580 -	16.2 -	991 -	0.93 U
7	P17-40C-355079-D	7.7 -	0.8 U	8110 -	15.1 -	795 -	0.95 U
8	P17-40C-361850	8.8 -	0.76 U	8770 -	21.6 -	1130 -	0.91 U
9	P17-40C2-M-2	8.8 J	0.88 U	9610 -			0.97 U
10	P18C-325201	7.8 -	0.67 U	9860 -	15.6 -	695 J	0.93 U
	FRL (* = BTV)	12	1.5	10103	200 *	1500 *	10 *
	Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
	Background UCL	5.6	0.6	8812	18.9	814	n/a
	Background 95%	8.2	0.6	11880	26.4	1348	n/a
	Samples	10	10	10	7	9	10
	Hits	10	2	10	7	9	0
	Max	**10.70**	**0.86**	**13000**	**21.6**	**1130**	**0.55**
	Mean	8.84	0.46	9334	17.9	780	0.49
	St.Dev.	1.20	0.19	2161	2.3	196	0.03
	UCL	**9.36**	**0.54**	**10279**	**19.2**	**871**	**0.50**
	t-Stat	8.36	17.16	--	--	--	--
	Prob.	0.0%	0.0%	--	--	--	--
	Pass/Fail	**Pass**	**Pass**	--	--	--	--

NOTE: One half of the reported detection level was used in the calculations for results reported as below the detection limit (qualified with "U"). Duplicates were averaged before calculations were performed.

KEY
FRL - Final Remedial Level
Background UCL - Upper Confidence Level (95% one-sided) on the Mean Background concentration.
Background 95% - 95th Percentile of the background dataset.
Samples - Number of distinct sample locations in the analysis (see NOTE above).
Hits - Analyte positively detected in the sample.
Max - The maximum sample result.
Mean - The mean or average concentration. (See NOTE above).
St.Dev. - The standard deviation of the sample concentrations. (See NOTE above).
UCL - Upper Confidence Level (95% one-sided) on the Mean concentration.
t-Stat - The calculated t-statistic for the mean concentration compared to the FRL. (See the Certification Report).
Prob. - The probability (based on the t-Stat) that the true CU mean exceeds the FRL. Acceptable probability for primary COCs is 5% and 10% for seconday COCs.
Pass/Fail - Pass or Fail result from the t-Test based on "t-Stat" above. The associated probability is "Prob." above.



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P18 METALS MAP OF DATA POINTS

Certification Unit: P18 03:43 PM 13-May-98

Map	Sample ID	Certification Analytes		Ecological COCs			
		Arsenic	Beryllium	Aluminum	Lead	Manganese	Molybdenum
1	P18-12C-997298	5.8 -	0.47 U	6040 -	14.5 -	616 J	0.94 U
2	P18-32C-989652	7.5 J	1.1 U	11800 -	9.7 -	560 J	1.1 -
3	P18C-086216	11.3 -	0.98 U	14600 -	25.7 -	829 J	2.2 -
4	P18C-100875	6 -	0.5 U	5430 -	15.2 -	684 J	1.1 -
5	P18C-150499	10.6 J	1.1 -	14500 -	18.7 -	1010 J	1 U
6	P18C-173868	9.8 -	0.64 U	12500 -	23.1 -	865 J	0.59 -
7	P18C-195794	8.3 J	0.73 U	9700 -	16.2 -	837 J	0.94 U
8	P18C-203819	8.1 -	0.67 U	8080 -	37 -	691 J	0.91 -
9	P18C-319733	13.8 J	0.87 U	6900 -	25.8 -	1380 J	1.1 -
10	P18C-384451	15.1 J	1 -	8960 -	34.4 -	5470 J	2 -
11	P18C-642957	6.9 U	1.1 -	10500 -		420 J	1.3 U
12	P18C-908837	7.5 -	0.93 -	6660 -		907 J	1.2 U
	FRL (* = BTV)	12	1.5	10103	200 *	1500 *	10 *
	Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
	Background UCL	5.6	0.6	8812	18.9	814	n/a
	Background 95%	8.2	0.6	11880	26.4	1348	n/a
	Samples	12	12	12	10	12	12
	Hits	11	4	12	10	12	7
	Max	**15.1**	**1.10**	**14600**	**37.0**	**5470**	**2.20**
	Mean	8.9	0.59	9639	22.0	1189	0.97
	St.Dev.	3.4	0.34	3188	8.9	1370	0.58
	UCL	**10.3**	**0.73**	**10894**	**25.9**	**1728**	**1.20**
	t-Stat	3.15	9.24	--	--	--	--
	Prob.	0.5%	0.0%	--	--	--	--
	Pass/Fail	**Pass**	**Pass**	--	--	--	--

NOTE: One half of the reported detection level was used in the calculations for results reported as below the detection limit (qualified with "U"). Duplicates were averaged before calculations were performed.

KEY

FRL - Final Remedial Level

Background UCL - Upper Confidence Level (95% one-sided) on the Mean Background concentration.

Background 95% - 95th Percentile of the background dataset.

Samples - Number of distinct sample locations in the analysis (see NOTE above).

Hits - Analyte positively detected in the sample.

Max - The maximum sample result.

Mean - The mean or average concentration. (See NOTE above).

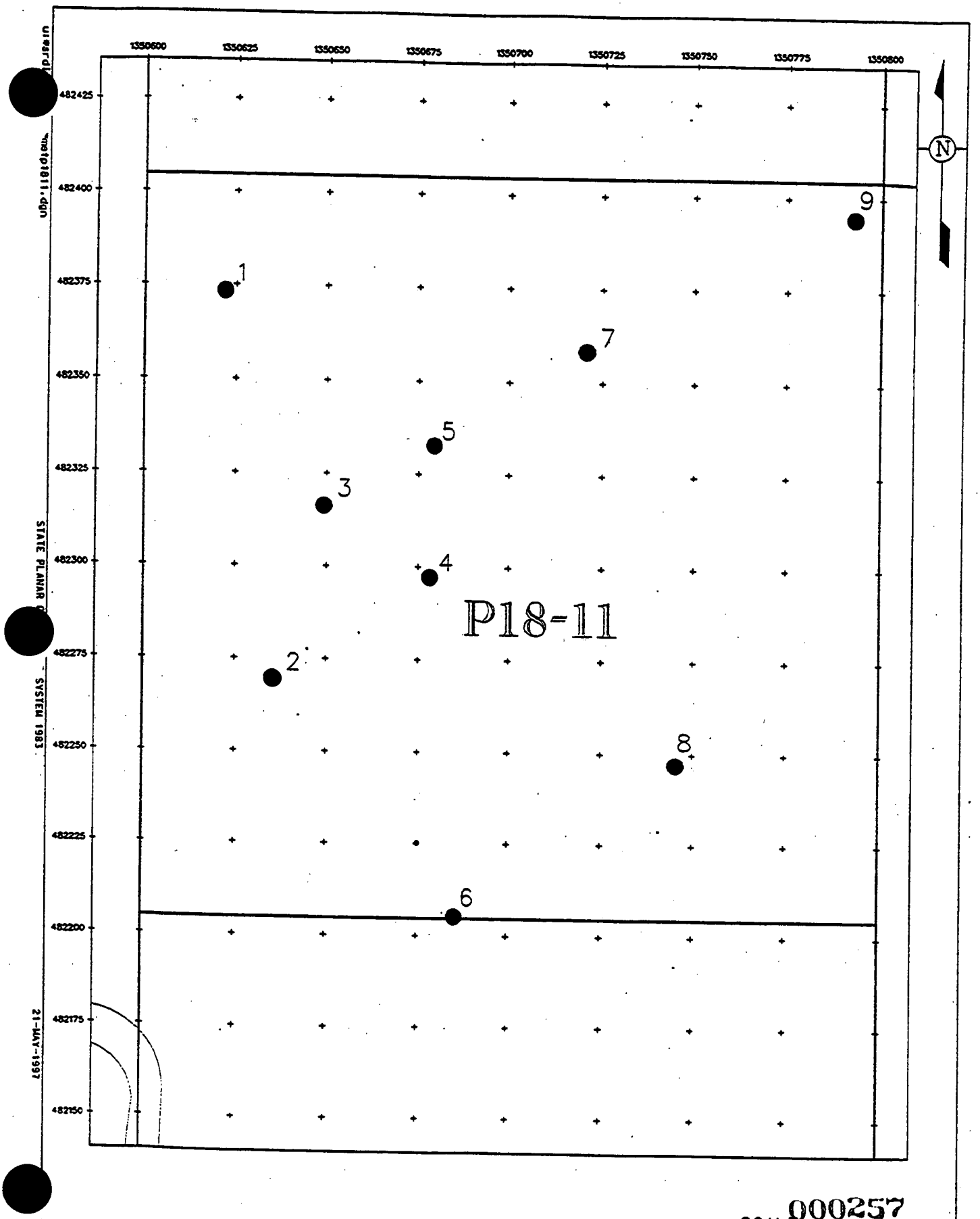
St.Dev. - The standard deviation of the sample concentrations. (See NOTE above).

UCL - Upper Confidence Level (95% one-sided) on the Mean concentration.

t-Stat - The calculated t-statistic for the mean concentration compared to the FRL. (See the Certification Report).

Prob. - The probability (based on the t-Stat) that the true CU mean exceeds the FRL. Acceptable probability for primary COCs is 5% and 10% for seconday COCs.

Pass/Fail - Pass or Fail result from the t-Test based on "t-Stat" above. The associated probability is "Prob." above.



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P18-11 METALS MAP OF DATA POINTS

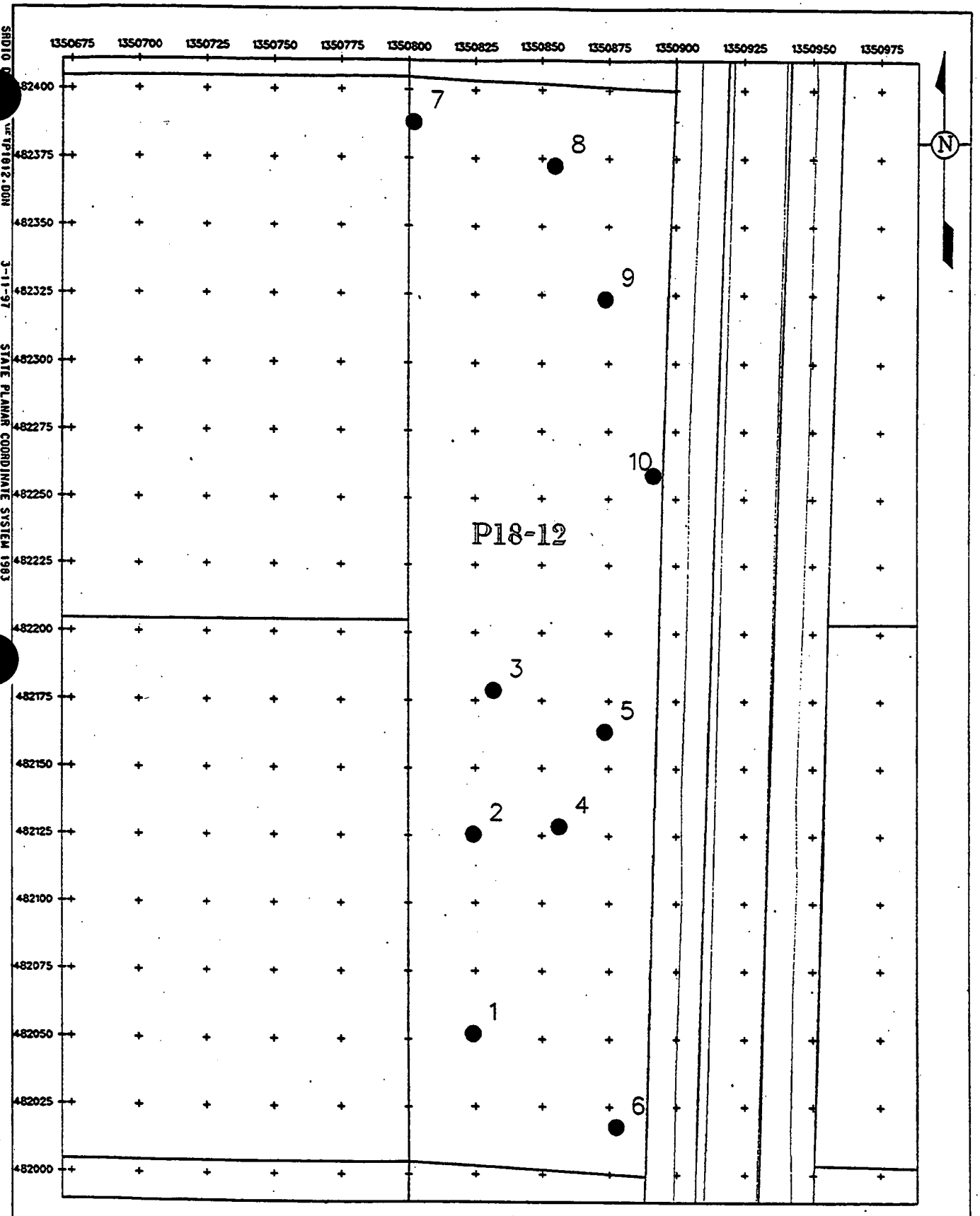
Certification Unit: P18-11 03:43 PM 13-May-98

		Certification Analytes			Ecological COCs			
Map	Sample ID	Arsenic	Beryllium	Aroclor-1260	Aluminum	Lead	Manganese	Molybdenum
1	P18-11C-621373	5.4 J	0.41 U	47 UJ	6770 -	7.3 -	427 -	1.6 -
2	P18-11C-635269	11.2 J	0.79 U	47 UJ	12200 -	13.6 -	519 -	0.91 U
3	P18-11C-649316	11.7 J	0.47 U	45 UJ	5870 -	7.5 -	600 -	3.1 -
4	P18-11C-678297	8.9 -	0.64 U	47 UJ	12100 -	18.7 -	1240 -	0.92 U
5	P18-11C-679332	5 J	0.44 U	45 UJ	7140 -	6.1 -	410 -	1.7 -
6	P18-11C-685205	12.3 J	0.79 U	50 UJ	12900 -	10.5 -	564 -	1.8 -
7	P18-11C-720358	7.4 J	0.53 U	47 UJ	9230 -	11.7 -	472 -	0.92 U
8	P18-11C-745247	6.1 J	0.37 U	47 UJ	6520 -	7.3 -	391 -	2.6 -
9	P18-11C-792394	6 J	0.59 U	46 UJ	11100 -	8.5 -	460 -	1.1 -
	FRL (* = BTV)	12	1.6	130	10103	200 *	1500 *	10 *
	Units	mg/kg	mg/kg	ug/kg	mg/kg	mg/kg	mg/kg	mg/kg
	Background UCL	5.6	0.6	n/a	8812	18.9	814	n/a
	Background 95%	8.2	0.6	n/a	11880	26.4	1348	n/a
	Samples	9	9	9	9	9	9	9
	Hits	9	0	0	9	9	9	6
	Max	12.30	0.40	25.0	12900	18.7	1240	3.10
	Mean	8.22	0.28	23.4	9314	10.1	565	1.48
	St.Dev.	2.88	0.08	0.7	2807	4.0	263	0.96
	UCL	9.56	0.32	23.7	10621	12.0	687	1.92
	t-Stat	3.93	46.90	431.81	--	--	--	--
	Prob.	0.2%	0.0%	0.0%	--	--	--	--
	Pass/Fail	Pass	Pass	Pass	--	--	--	--

NOTE: One half of the reported detection level was used in the calculations for results reported as below the detection limit (qualified with "U"). Duplicates were averaged before calculations were performed.

KEY
FRL - Final Remedial Level
Background UCL - Upper Confidence Level (95% one-sided) on the Mean Background concentration.
Background 95% - 95th Percentile of the background dataset.
Samples - Number of distinct sample locations in the analysis (see NOTE above).
Hits - Analyte positively detected in the sample.
Max - The maximum sample result.
Mean - The mean or average concentration. (See NOTE above).
St.Dev. - The standard deviation of the sample concentrations. (See NOTE above).
UCL - Upper Confidence Level (95% one-sided) on the Mean concentration.
t-Stat - The calculated t-statistic for the mean concentration compared to the FRL. (See the Certification Report).
Prob. - The probability (based on the t-Stat) that the true CU mean exceeds the FRL. Acceptable probability for primary COCs is 5% and 10% for seconday COCs.
Pass/Fail - Pass or Fail result from the t-Test based on "t-Stat" above. The associated probability is "Prob." above.

P-1480



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SCALE

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P18-12 METALS MAP OF DATA POINTS

Certification Unit: P18-12 03:42 PM 13-May-98

Map	Sample ID	Certification Analytes		Ecological COCs			
		Arsenic	Beryllium	Aluminum	Lead	Manganese	Molybdenum
1	P17-34C-824051	6.9 -	0.59 U	10800 -	13.5 -	561 -	1.3 U
2	P17-34C-824125	7.7 -	0.73 U	13600 -	11.8 -	585 J	0.77 -
3	P17-34C-831178	6.3 J	0.51 U	9430 -	8.7 -	606 -	1.7 U
4	P17-34C-856128	16.6 J	1.2 U	18600 -	33.7 -	2050 -	2.4 U
5	P17-34C-873163	14.4 J	2 -	19100 -	14.1 -	753 -	2.3 U
6	P17-34C-877017	10.4 -	0.45 U	12000 -	15.4 -	489 -	0.93 U
7	P18-12C-801388	4.9 J	0.51 U	8280 -	6.7 -	410 -	2.1 U
8	P18-12C-854372	12.9 J	2.2 -	20800 -	17.1 -	961 -	2 U
9	P18-12C-873323	11.3 J	0.63 U	13600 -	22.4 -	1250 -	2 U
10	P18-12C-891258	6.3 -	0.49 U	11600 -	11 -	714 -	0.98 U
	FRL (* = BTV)	12	1.5	10103	200 *	1500 *	10 *
	Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
	Background UCL	5.6	0.6	8812	18.9	814	n/a
	Background 95%	8.2	0.6	11880	26.4	1348	n/a
	Samples	10	10	10	10	10	10
	Hits	10	2	10	10	10	1
	Max	16.60	2.20	20800	33.7	2050	1.20
	Mean	9.77	0.68	13781	15.4	838	0.86
	St.Dev.	3.96	0.76	4306	7.8	492	0.26
	UCL	11.50	1.01	15664	18.8	1053	0.98
	t-Stat	1.78	3.43	--	--	--	--
	Prob.	5.4%	0.4%	--	--	--	--
	Pass/Fail	Pass	Pass	--	--	--	--

NOTE: One half of the reported detection level was used in the calculations for results reported as below the detection limit (qualified with "U"). Duplicates were averaged before calculations were performed.

KEY

FRL - Final Remedial Level

Background UCL - Upper Confidence Level (95% one-sided) on the Mean Background concentration.

Background 95% - 95th Percentile of the background dataset.

Samples - Number of distinct sample locations in the analysis (see NOTE above).

Hits - Analyte positively detected in the sample.

Max - The maximum sample result.

Mean - The mean or average concentration. (See NOTE above).

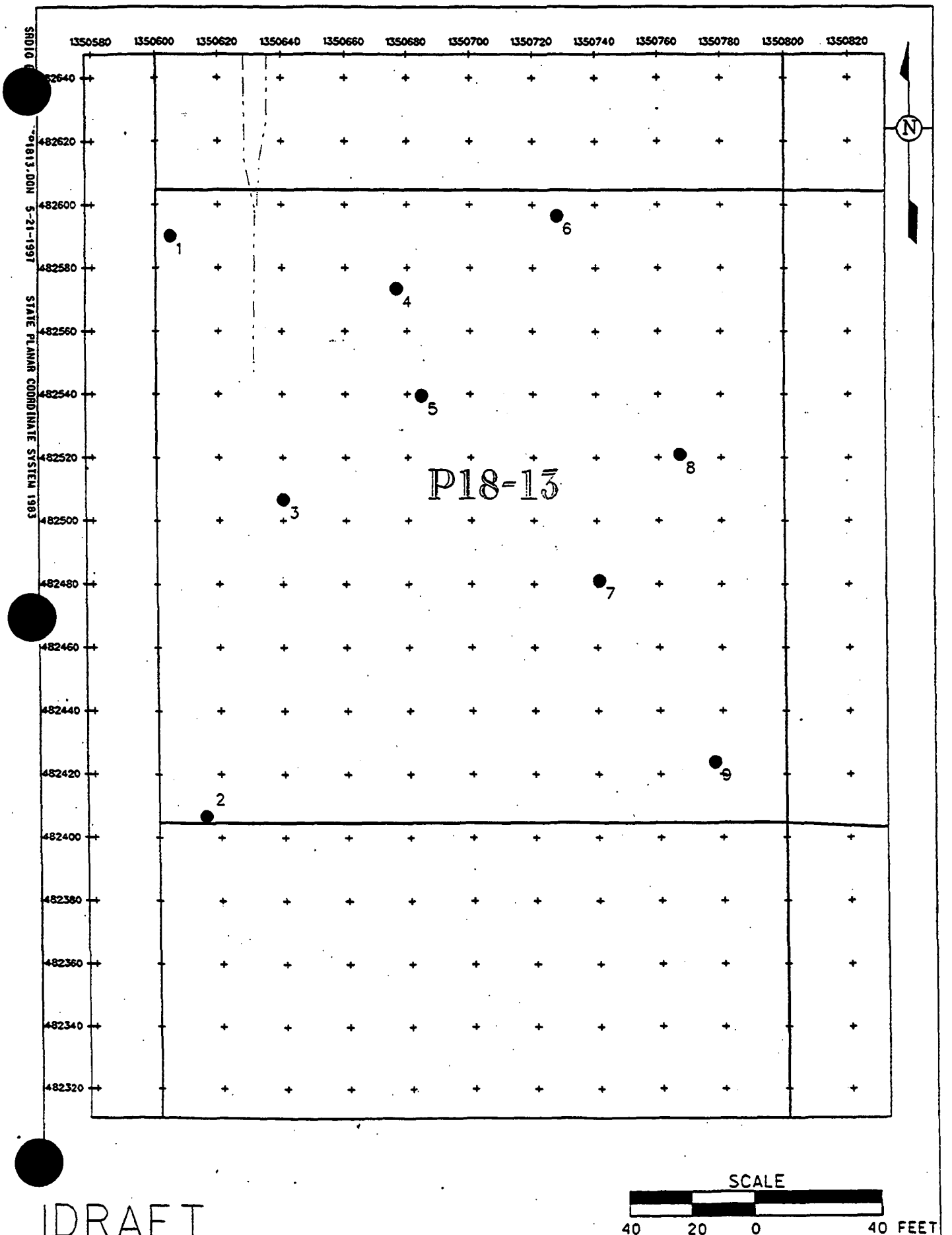
St.Dev. - The standard deviation of the sample concentrations. (See NOTE above).

UCL - Upper Confidence Level (95% one-sided) on the Mean concentration.

t-Stat - The calculated t-statistic for the mean concentration compared to the FRL. (See the Certification Report).

Prob. - The probability (based on the t-Stat) that the true CU mean exceeds the FRL. Acceptable probability for primary COCs is 5% and 10% for seconday COCs.

Pass/Fail - Pass or Fail result from the t-Test based on "t-Stat" above. The associated probability is "Prob." above.



P18-13 METALS MAP OF DATA POINTS

Certification Unit: P18-13

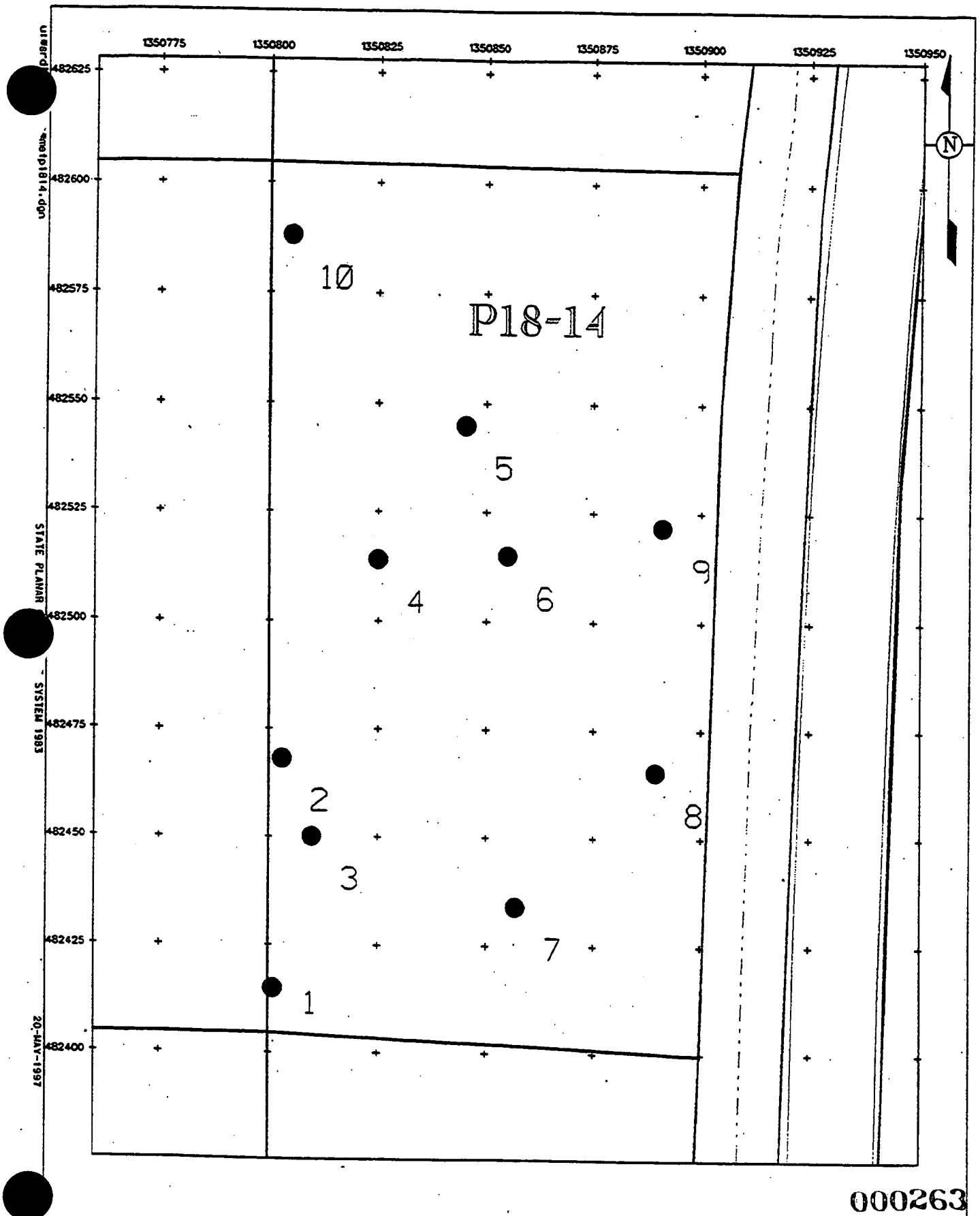
03:42 PM 13-May-98

		Certification Analytes			Ecological COCs			
Map	Sample ID	Arsenic	Beryllium	Aroclor-1260	Aluminum	Lead	Manganese	Molybdenum
1	P18-13C-604590	10 J	0.81 U	50 UJ	13600 -	13.9 -	700 -	0.96 U
2	P18-13C-615406	6.1 J	0.45 U	46 UJ	7170 -	7.5 -	447 -	1.3 -
3	P18-13C-640506	12.8 J	1.2 -	53 UJ	17200 -	14.6 -	615 -	1 U
4	P18-13C-676573	6.4 J	0.44 U	49 UJ	8260 -	12.6 -	495 -	0.95 U
5	P18-13C-684539	7.6 -	0.57 U	49 UJ	9040 -	13.2 -	537 -	0.94 U
6	P18-13C-727596	4.8 J	0.32 U	44 UJ	4060 -	7.5 -	347 -	1.1 -
7	P18-13C-740481	7.8 -	0.66 U	51 UJ	11000 -	14.3 -	645 -	0.97 U
8	P18-13C-766516	8.3 -	0.71 U	48 UJ	12400 -	11.4 -	593 -	0.93 U
9	P18-13C-777423	4.6 J	0.42 U	47 UJ	7360 -	6.4 -	283 -	0.91 U
	FRL (* = BTV)	12	1.5	130	10103	200 *	1500 *	10 *
	Units	mg/kg	mg/kg	ug/kg	mg/kg	mg/kg	mg/kg	mg/kg
	Background UCL	5.6	0.6	n/a	8812	18.9	814	n/a
	Background 95%	8.2	0.6	n/a	11880	26.4	1348	n/a
	Samples	9	9	9	9	9	9	9
	Hits	9	1	0	9	9	9	2
	Max	12.80	1.20	26.5	17200	14.6	700	1.30
	Mean	7.60	0.38	24.3	10010	11.3	518	0.64
	St.Dev.	2.59	0.32	1.3	3965	3.3	139	0.32
	UCL	8.81	0.53	24.9	11856	12.8	583	0.79
	t-Stat	5.09	10.58	235.14	--	--	--	--
	Prob.	0.0%	0.0%	0.0%	--	--	--	--
	Pass/Fail	Pass	Pass	Pass	--	--	--	--

NOTE: One half of the reported detection level was used in the calculations for results reported as below the detection limit (qualified with "U"). Duplicates were averaged before calculations were performed.

KEY

FRL - Final Remedial Level
Background UCL - Upper Confidence Level (95% one-sided) on the Mean Background concentration.
Background 95% - 95th Percentile of the background dataset.
Samples - Number of distinct sample locations in the analysis (see NOTE above).
Hits - Analyte positively detected in the sample.
Max - The maximum sample result.
Mean - The mean or average concentration. (See NOTE above).
St.Dev. - The standard deviation of the sample concentrations. (See NOTE above).
UCL - Upper Confidence Level (95% one-sided) on the Mean concentration.
t-Stat - The calculated t-statistic for the mean concentration compared to the FRL. (See the Certification Report).
Prob. - The probability (based on the t-Stat) that the true CU mean exceeds the FRL. Acceptable probability for primary COCs is 5% and 10% for seconday COCs.
Pass/Fail - Pass or Fail result from the t-Test based on "t-Stat" above. The associated probability is "Prob." above.



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30 15 0 30 FEET

P18-14 METALS MAP OF DATA POINTS

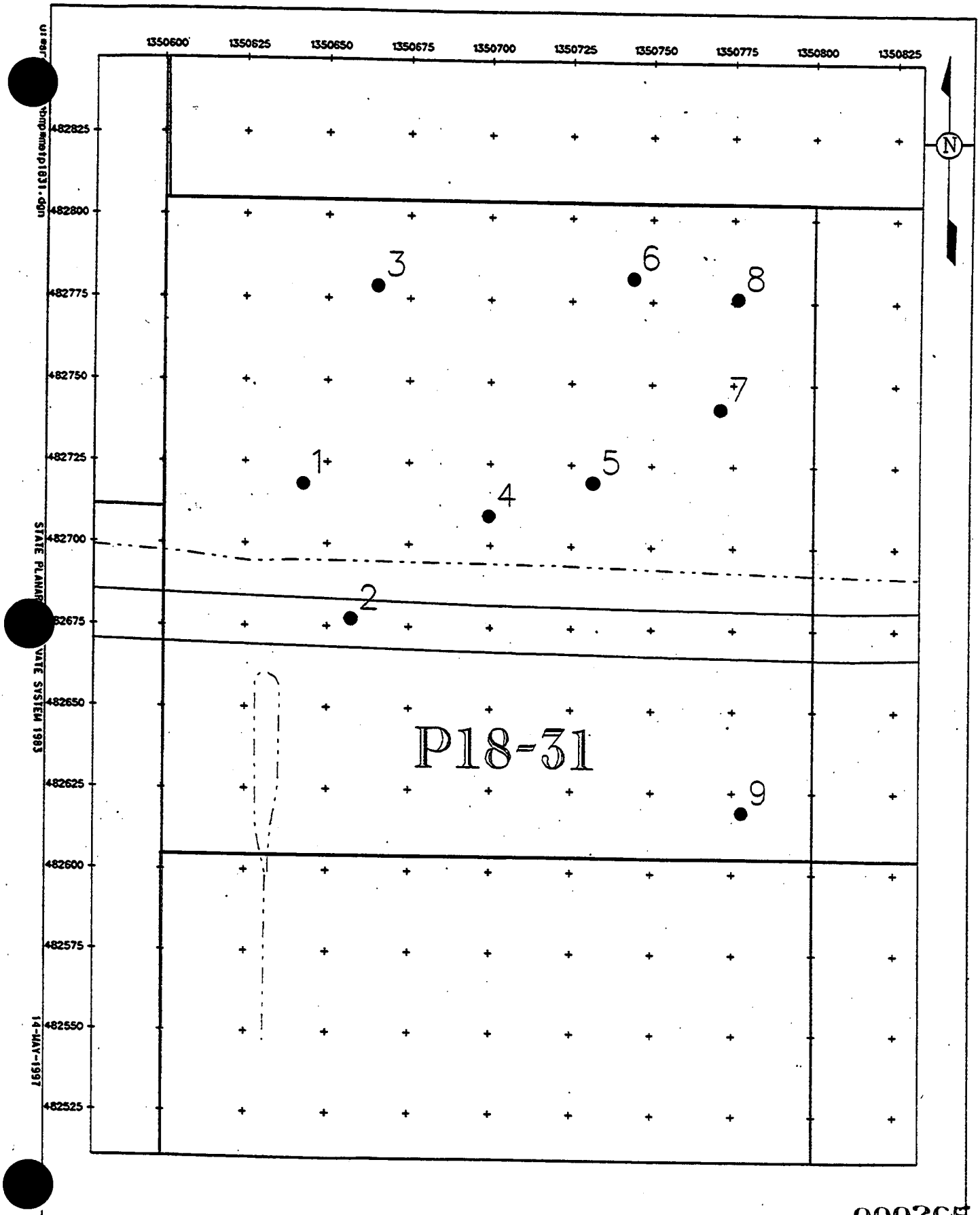
Certification Unit: P18-14 03:38 PM 13-May-98

Map	Sample ID	Certification Analytes		Ecological COCs			
		Arsenic	Beryllium	Aluminum	Lead	Manganese	Molybdenum
1	P18-14C-801415	10.5 J	0.73 U	14600 -	11.3 -	610 -	1.7 -
2	P18-14C-803468	5.1 J	0.56 U	11900 -	7.7 -	287 -	0.89 U
3	P18-14C-810450	7.4 J	0.76 U	14600 -	9.5 -	565 -	1.3 -
4	P18-14C-825514	11.5 J	1.2 -	26100 -	15.5 -	822 -	1.4 -
5	P18-14C-845544	7.7 -	0.55 U	10900 -	15.8 -	701 J	0.69 U
6	P18-14C-855515	8.7 -	0.73 U	13400 -	12.3 -	609 J	0.85 U
7	P18-14C-857434	11.4 J	1.1 J	23700 -	15.2 -	856 J	1.9 -
7	P18-14C-857434-D	12.3 J	0.78 UJ	20800 -	16.8 -	442 J	2.1 -
8	P18-14C-889465	13 -	0.72 -	16800 -	16.3 -	520 -	1.1 U
9	P18-14C-891521	11.3 -	0.66 U	15000 -	13.9 -	443 J	1.2 U
10	P18-14C2-1-M	11.3 -	0.59 -	13300 -		258 -	1.7 U
	FRL (* = BTV)	12	1.5	10103	200 *	1500 *	10 *
	Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
	Background UCL	5.6	0.6	8812	18.9	814	n/a
	Background 95%	8.2	0.6	11880	26.4	1348	n/a
	Samples	10	10	10	9	10	10
	Hits	10	4	10	9	10	4
	Max	**13.0**	**1.20**	**26100**	**16.3**	**822**	**2.00**
	Mean	9.8	0.52	15885	13.1	546	0.96
	St.Dev.	2.5	0.29	4754	3.1	177	0.59
	UCL	**10.9**	**0.65**	**17964**	**14.6**	**624**	**1.22**
	t-Stat	2.75	10.48	--	--	--	--
	Prob.	1.1%	0.0%	--	--	--	--
	Pass/Fail	**Pass**	**Pass**	--	--	--	--

NOTE: One half of the reported detection level was used in the calculations for results reported as below the detection limit (qualified with "U"). Duplicates were averaged before calculations were performed.

KEY

FRL - Final Remedial Level
Background UCL - Upper Confidence Level (95% one-sided) on the Mean Background concentration.
Background 95% - 95th Percentile of the background dataset.
Samples - Number of distinct sample locations in the analysis (see NOTE above).
Hits - Analyte positively detected in the sample.
Max - The maximum sample result.
Mean - The mean or average concentration. (See NOTE above).
St.Dev. - The standard deviation of the sample concentrations. (See NOTE above).
UCL - Upper Confidence Level (95% one-sided) on the Mean concentration.
t-Stat - The calculated t-statistic for the mean concentration compared to the FRL. (See the Certification Report).
Prob. - The probability (based on the t-Stat) that the true CU mean exceeds the FRL. Acceptable probability for primary COCs is 5% and 10% for seconday COCs.
Pass/Fail - Pass or Fail result from the t-Test based on "t-Stat" above. The associated probability is "Prob." above.



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SCALE

40 20 0 40 FEET

000265

P18-31 METALS MAP OF DATA POINTS

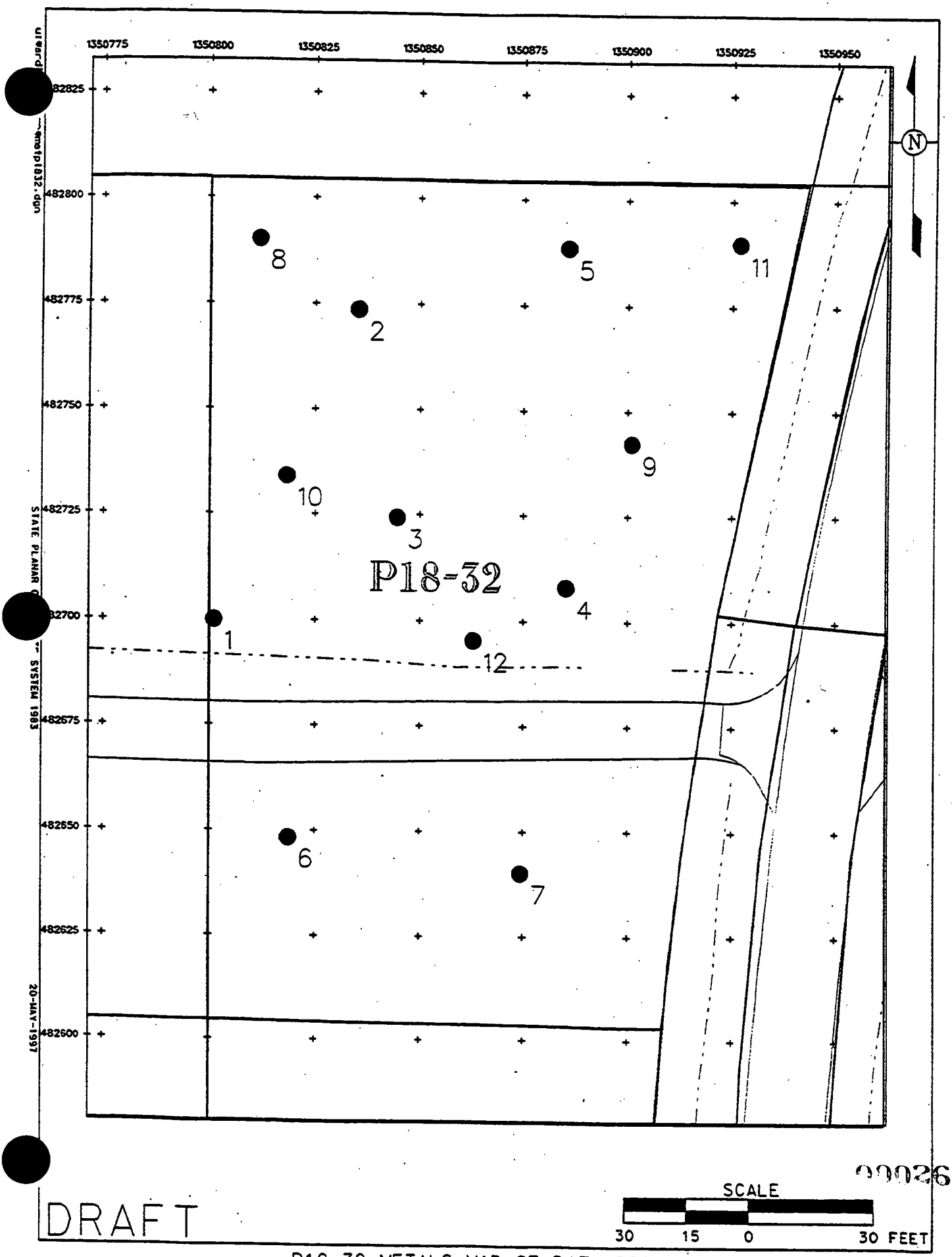
Certification Unit: P18-31 03:38 PM 13-May-98

		Certification Analytes		Ecological COCs			
Map	Sample ID	Arsenic	Beryllium	Aluminum	Lead	Manganese	Molybdenum
1	P18-31C-642718	8.6 -	0.8 U	13600 -	23.5 -	636 -	1.4 U
2	P18-31C-657677	6.5 -	0.61 U	10100 -	15.1 -	578 -	0.43 -
3	P18-31C-665778	5.9 -	0.47 U	7210 -	22.6 -	284 -	1.1 U
4	P18-31C-699708	7.3 -	0.79 U	15100 -	23 -	737 -	1.7 U
5	P18-31C-731719	8.3 -	0.84 U	15900 -	23.9 -	784 J	0.69 -
6	P18-31C-744782	5.5 -	0.51 U	8860 -	24 -	267 J	0.65 -
7	P18-31C-771742	8.2 -	0.91 U	12700 -	23.8 -	581 -	1.2 U
8	P18-31C-776776	6.5 -	0.73 U	11100 -	24.9 -	469 J	0.57 -
9	P18-31C-778619	4.4 J	0.28 U	5790 -	9.7 -	331 -	0.9 -
	FRL (* = BTV)	12	1.5	10103	200 *	1500 *	10 *
	Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
	Background UCL	5.6	0.6	8812	18.9	814	n/a
	Background 95%	8.2	0.6	11880	26.4	1348	n/a
	Samples	9	9	9	9	9	9
	Hits	9	0	9	9	9	5
	Max	8.60	0.46	15900	24.9	784	0.90
	Mean	6.80	0.33	11151	21.2	519	0.66
	St.Dev.	1.42	0.10	3485	5.2	192	0.15
	UCL	7.46	0.38	12774	23.6	608	0.73
	t-Stat	10.98	33.96	--	--	--	--
	Prob.	0.0%	0.0%	--	--	--	--
	Pass/Fail	Pass	Pass	--	--	--	--

NOTE: One half of the reported detection level was used in the calculations for results reported as below the detection limit (qualified with "U"). Duplicates were averaged before calculations were performed.

KEY

FRL - Final Remedial Level
Background UCL - Upper Confidence Level (95% one-sided) on the Mean Background concentration.
Background 95% - 95th Percentile of the background dataset.
Samples - Number of distinct sample locations in the analysis (see NOTE above).
Hits - Analyte positively detected in the sample.
Max - The maximum sample result.
Mean - The mean or average concentration. (See NOTE above).
St.Dev. - The standard deviation of the sample concentrations. (See NOTE above).
UCL - Upper Confidence Level (95% one-sided) on the Mean concentration.
t-Stat - The calculated t-statistic for the mean concentration compared to the FRL. (See the Certification Report).
Prob. - The probability (based on the t-Stat) that the true CU mean exceeds the FRL. Acceptable probability for primary COCs is 5% and 10% for seconday COCs.
Pass/Fail - Pass or Fail result from the t-Test based on "t-Stat" above. The associated probability is "Prob." above.



P18-32 METALS MAP OF DATA POINTS

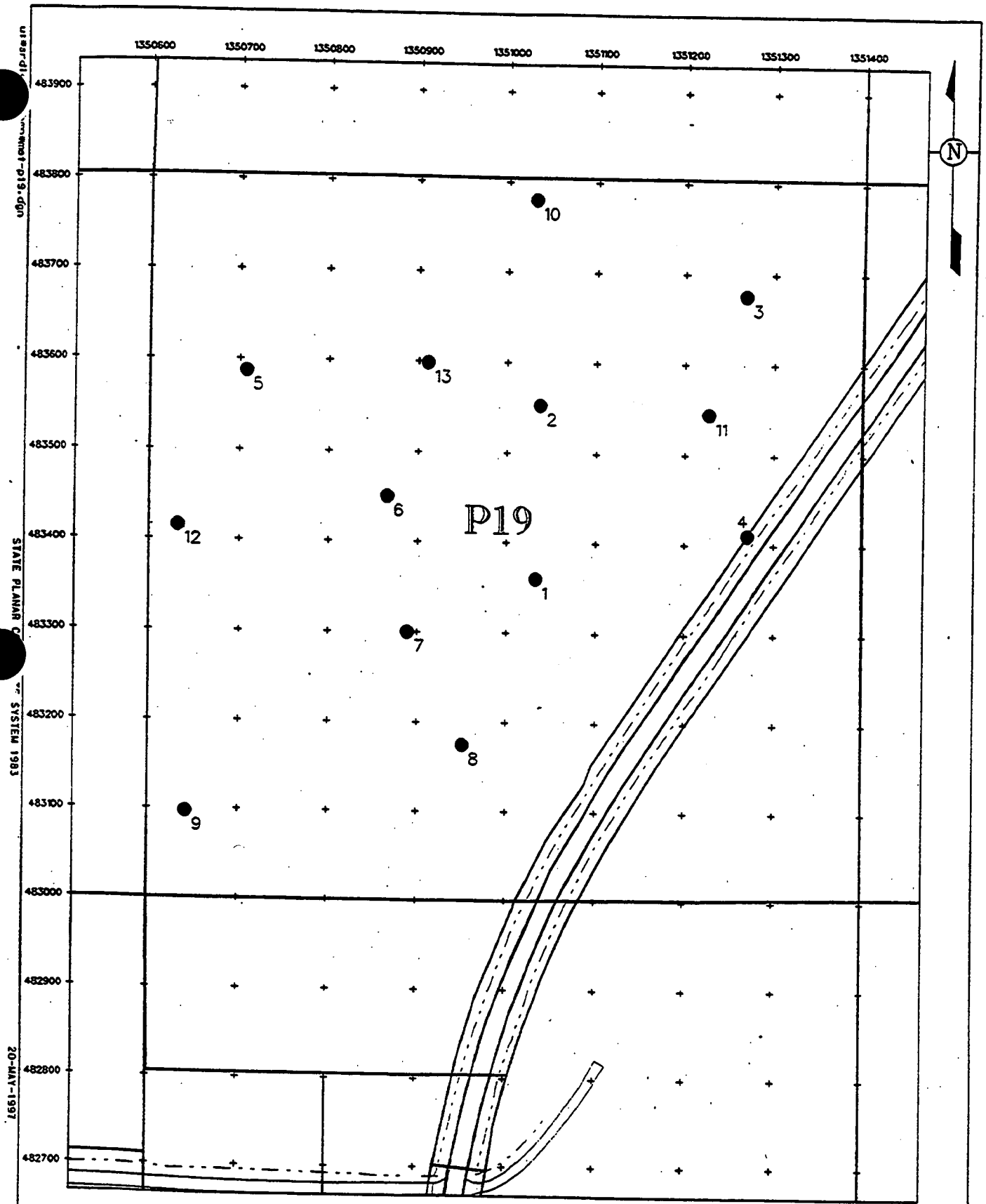
Certification Unit: P18-32 03:37 PM 13-May-98

Map	Sample ID	Certification Analytes		Ecological COCs			
		Arsenic	Beryllium	Aluminum	Lead	Manganese	Molybdenum
1	P18-32C-801699	10.1 -	0.79 U	14200 -	24 -	575 -	1.4 U
2	P18-32C-835773	7.3 -	0.91 U	14100 -	25.8 -	548 -	1.4 U
3	P18-32C-844724	9.8 -	1.7 U	16000 J	28.1 -	1060 -	5.4 UJ
4	P18-32C-885708	9.2 -	0.94 U	12900 -	26.6 -	783 -	2.1 U
5	P18-32C-885788	5.6 -	0.3 U	5770 -	21.6 -	372 -	1.5 U
6	P18-32C2-1-MP	5.5 -	0.59 -	8770 -	18.3 -	693 -	1.4 U
7	P18-32C2-2-MP	10.1 -	0.74 -	10100 -	21.9 -	2110 -	1 U
8	P18-32C2-M-1	5.9 -	1 -	12800 -	21.8 J	466 -	1 UJ
9	P18-32C2-M-2	6.2 -	0.61 -	7140 -	22.9 J	534 -	1.2 UJ
10	P18-32C2-M-3	9 -	1.1 -	16900 -	16.8 J	882 -	1 UJ
11	P18-32C2-M-4	6.3 J	0.57 -	7290 -	17.9 J	612 -	1 UJ
11	P18-32C2-M-4-D	5.8 UJ	0.59 -	7700 -	26.3 J	614 -	1.3 UJ
12	P18-32C2-M-5	7.2 -	1.1 -	12300 -	18.5 J	838 -	1.1 UJ
	FRL (* = BTV)	12	1.5	10103	200 *	1500 *	10 *
	Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
	Background UCL	5.6	0.6	8812	18.9	814	n/a
	Background 95%	8.2	0.6	11880	26.4	1348	n/a
	Samples	12	12	12	12	12	12
	Hits	12	7	12	12	12	0
	Max	**10.1**	**1.10**	**16900**	**28.1**	**2110**	**2.70**
	Mean	7.5	0.67	11540	22.4	790	0.82
	St.Dev.	2.0	0.30	3631	3.4	459	0.61
	UCL	**8.3**	**0.79**	**12969**	**23.7**	**970**	**1.06**
	t-Stat	7.69	9.70	--	--	--	--
	Prob.	0.0%	0.0%	--	--	--	--
	Pass/Fail	**Pass**	**Pass**	--	--	--	--

NOTE: One half of the reported detection level was used in the calculations for results reported as below the detection limit (qualified with "U"). Duplicates were averaged before calculations were performed.

KEY

FRL - Final Remedial Level
Background UCL - Upper Confidence Level (95% one-sided) on the Mean Background concentration.
Background 95% - 95th Percentile of the background dataset.
Samples - Number of distinct sample locations in the analysis (see NOTE above).
Hits - Analyte positively detected in the sample.
Max - The maximum sample result.
Mean - The mean or average concentration. (See NOTE above).
St.Dev. - The standard deviation of the sample concentrations. (See NOTE above).
UCL - Upper Confidence Level (95% one-sided) on the Mean concentration.
t-Stat - The calculated t-statistic for the mean concentration compared to the FRL. (See the Certification Report).
Prob. - The probability (based on the t-Stat) that the true CU mean exceeds the FRL. Acceptable probability for primary COCs is 5% and 10% for seconday COCs.
Pass/Fail - Pass or Fail result from the t-Test based on "t-Stat" above. The associated probability is "Prob." above.



000269

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SCALE

150 75 0 150 FEET

P19 METALS MAP OF DATA POINTS

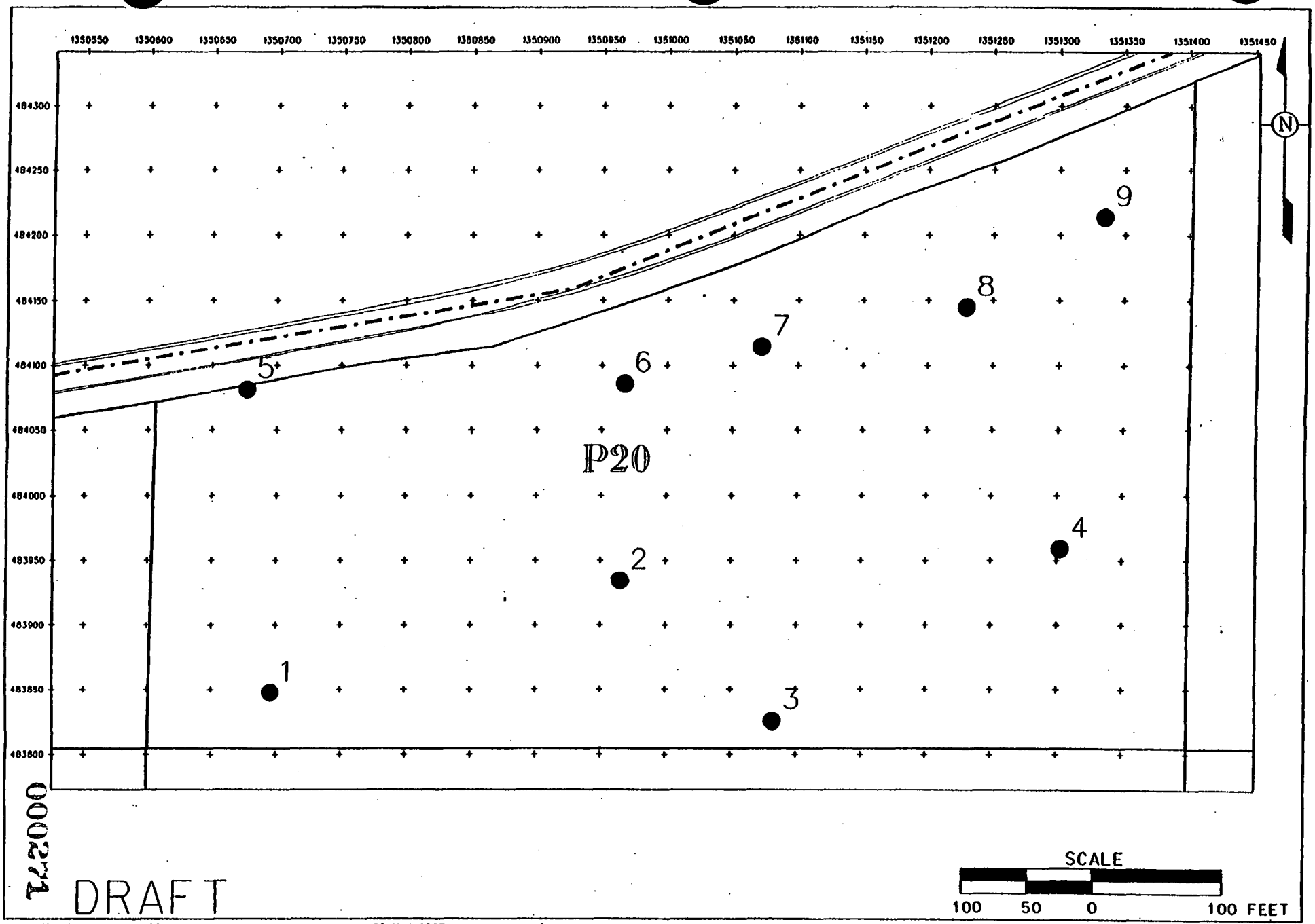
Certification Unit: P19 03:37 PM 13-May-98

		Certification Analytes		Ecological COCs			
Map	Sample ID	Arsenic	Beryllium	Aluminum	Lead	Manganese	Molybdenum
1	P19C-033360	7.5 -	0.86 U	12200 -	26.8 -	1050 -	1.1 -
2	P19C-037553	5.8 -	0.88 U	13000 -	25.1 -	1230 J	0.5 U
3	P19C-267676	8.3 -	0.93 U	13600 -	26 -	1460 -	1.3 -
4	P19C-270410	7.3 -	0.52 U	7990 -	18.1 -	674 J	0.72 U
5	P19C-707586	8.1 J	1.1 U	20700 -	21.5 -	1480 -	1 -
6	P19C-866450	7.8 -	1 U	15500 -	27.9 -	1160 -	2.4 -
7	P19C-889299	4.5 J	0.3 U	4470 -	9.5 -	369 -	1.7 -
8	P19C-951174	7.9 -	0.82 U	9660 -	27.1 -	1000 -	1.5 -
9	P19C2-M-1	5 U	0.4 -	4330 -	21.9 J	193 -	1.2 UJ
10	P19C2-M-2	7.3 -	1.2 -	14300 -	16.4 J	1600 -	1.1 UJ
11	P19C2-M-3	5.4 U	0.65 -	7920 -	29 J	708 -	1.5 UJ
12	P19C2-M-4	8.4 -	1.1 -	10900 -	31.1 J	1240 -	1.3 UJ
13	P19C2-M-5	6.3 -	1.2 -	15700 -	16.7 J	1320 -	1.1 UJ
	FRL (* = BTV)	**12**	**1.5**	**10103**	**200 ***	**1500 ***	**10 ***
	Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
	Background UCL	5.6	0.6	8812	18.9	814	n/a
	Background 95%	8.2	0.6	11880	26.4	1348	n/a
	Samples	13	13	13	13	13	13
	Hits	11	5	13	13	13	6
	Max	**8.4**	**1.20**	**20700**	**31.1**	**1600**	**2.40**
	Mean	6.5	0.60	11559	22.9	1037	0.98
	St.Dev.	2.0	0.35	4681	6.2	435	0.61
	UCL	**7.3**	**0.73**	**13320**	**25.2**	**1201**	**1.21**
	t-Stat	9.70	9.37	--	--	--	--
	Prob.	0.0%	0.0%	--	--	--	--
	Pass/Fail	**Pass**	**Pass**	--	--	--	--

NOTE: One half of the reported detection level was used in the calculations for results reported as below the detection limit (qualified with "U"). Duplicates were averaged before calculations were performed.

KEY

FRL - Final Remedial Level
Background UCL - Upper Confidence Level (95% one-sided) on the Mean Background concentration.
Background 95% - 95th Percentile of the background dataset.
Samples - Number of distinct sample locations in the analysis (see NOTE above).
Hits - Analyte positively detected in the sample.
Max - The maximum sample result.
Mean - The mean or average concentration. (See NOTE above).
St.Dev. - The standard deviation of the sample concentrations. (See NOTE above).
UCL - Upper Confidence Level (95% one-sided) on the Mean concentration.
t-Stat - The calculated t-statistic for the mean concentration compared to the FRL. (See the Certification Report).
Prob. - The probability (based on the t-Stat) that the true CU mean exceeds the FRL. Acceptable probability for primary COCs is 5% and 10% for seconday COCs.
Pass/Fail - Pass or Fail result from the t-Test based on "t-Stat" above. The associated probability is "Prob." above.



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20-MAY-1997

P20 METALS MAP OF DATA POINTS

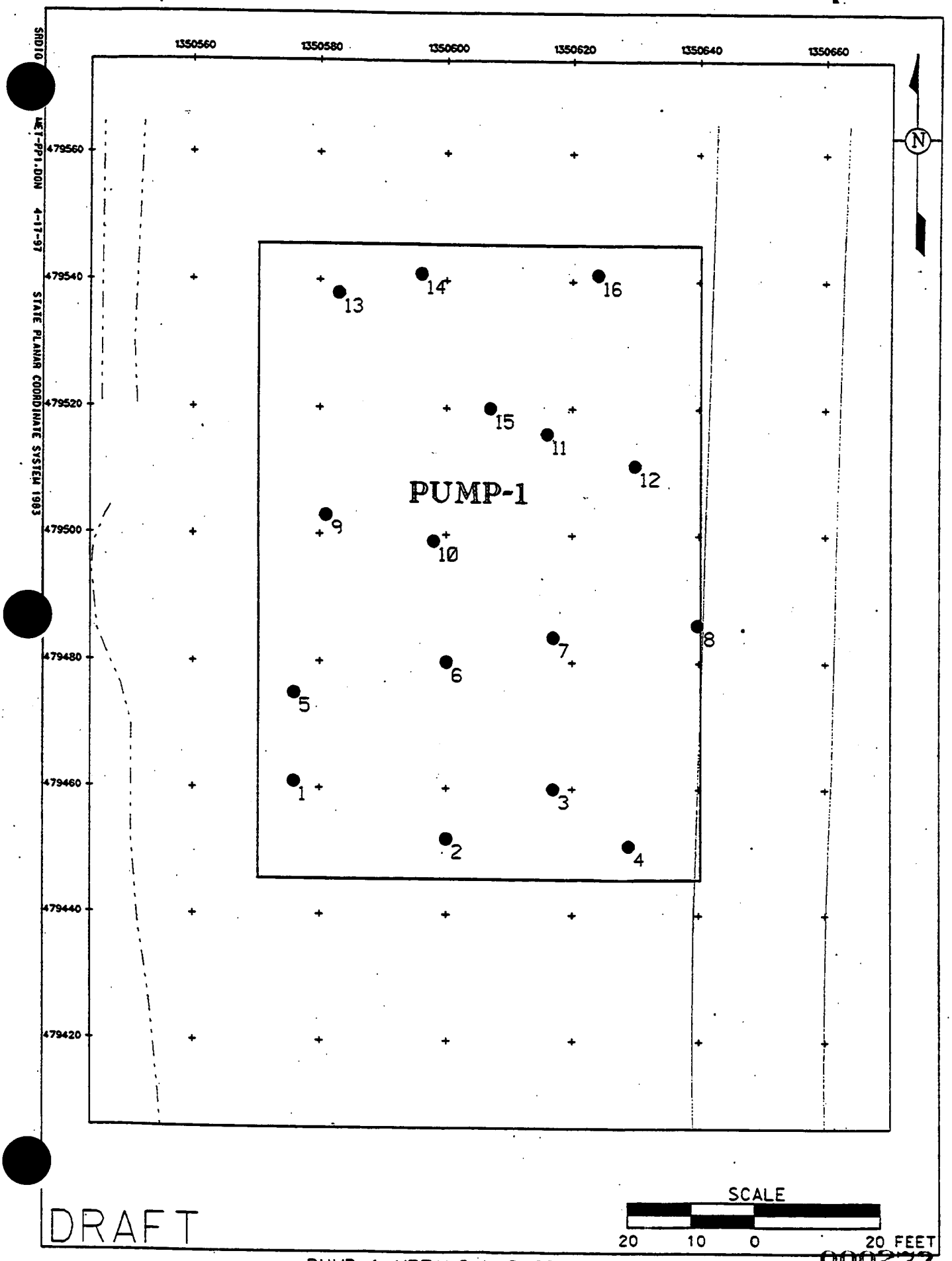
1460

Certification Unit: P20 03:35 PM 13-May-98

Map	Sample ID	Certification Analytes		Ecological COCs			
		Arsenic	Beryllium	Aluminum	Lead	Manganese	Molybdenum
1	P20-00C-1-M	3.1 -	0.44 U	6340 -	16.5 -	654 J	0.63 -
2	P20-00C-12-M	6.8 -	1.1 U	15300 -	27.3 -	1530 J	0.32 U
3	P20-00C-2-M	6.4 -	0.89 U	12400 -	26.2 -	1240 J	0.56 -
4	P20-00C-3-M	6.5 -	0.95 U	13700 -	18.7 -	1580 J	0.33 U
5	P20-00C-4-M	5.8 -	0.82 U	11600 -	20.7 -	1330 J	0.39 -
6	P20-00C-5-M	5.9 -	1 -	17200 -	47.9 -	1040 J	0.25 U
7	P20-00C-6-M	6.3 -	1 U	16200 -	26 -	1250 J	0.27 -
8	P20-00C-7-M	8.8 J	1.3 UJ	17100 J	33.6 J	1610 J	0.4 UJ
9	P20-00C-8-M	9.8 -	1 U	16600 -	29.4 -	1080 J	0.84 -
	FRL (* = BTV)	**12**	**1.5**	**10103**	**200 ***	**1500 ***	**10 ***
	Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
	Background UCL	5.6	0.6	8812	18.9	814	n/a
	Background 95%	8.2	0.6	11880	26.4	1348	n/a
	Samples	9	9	9	9	9	9
	Hits	9	1	9	9	9	5
	Max	**9.80**	**1.00**	**17200**	**47.9**	**1610**	**0.84**
	Mean	6.60	0.53	14049	27.4	1257	0.37
	St.Dev.	1.89	0.21	3539	9.4	306	0.25
	UCL	**7.48**	**0.63**	**15697**	**31.7**	**1400**	**0.49**
	t-Stat	8.56	13.78	--	--	--	--
	Prob.	0.0%	0.0%	--	--	--	--
	Pass/Fail	**Pass**	**Pass**	--	--	--	--

NOTE: One half of the reported detection level was used in the calculations for results reported as below the detection limit (qualified with "U"). Duplicates were averaged before calculations were performed.

KEY
FRL - Final Remedial Level
Background UCL - Upper Confidence Level (95% one-sided) on the Mean Background concentration.
Background 95% - 95th Percentile of the background dataset.
Samples - Number of distinct sample locations in the analysis (see NOTE above).
Hits - Analyte positively detected in the sample.
Max - The maximum sample result.
Mean - The mean or average concentration. (See NOTE above).
St.Dev. - The standard deviation of the sample concentrations. (See NOTE above).
UCL - Upper Confidence Level (95% one-sided) on the Mean concentration.
t-Stat - The calculated t-statistic for the mean concentration compared to the FRL. (See the Certification Report).
Prob. - The probability (based on the t-Stat) that the true CU mean exceeds the FRL. Acceptable probability for primary COCs is 5% and 10% for seconday COCs.
Pass/Fail - Pass or Fail result from the t-Test based on "t-Stat" above. The associated probability is "Prob." above.



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PUMP-1 METALS MAP OF DATA POINTS

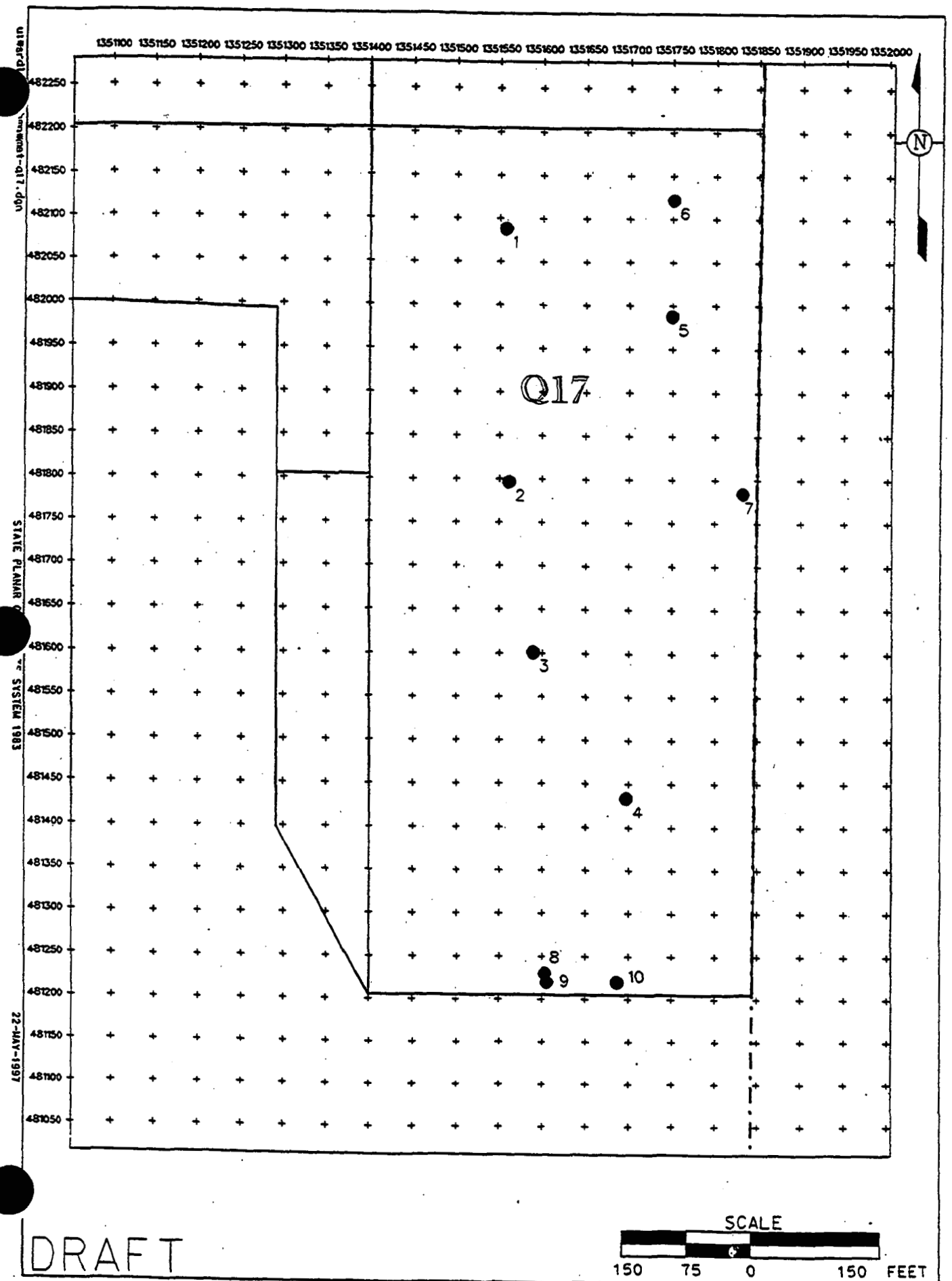
Certification Unit: PUMP-1 01:37 PM 26-May-98

Map	Sample ID	Certification Analytes			Ecological COCs			
		Arsenic	Beryllium	Aroclor-1260	Aluminum	Lead	Manganese	Molybdenum
1	PUMP1-C-1-MP	8 -	1.4 U	43 U	13800 J	19.4 -	1010 J	1 UJ
2	PUMP1-C-2-MP	9.1 -	0.93 U	38 U	15200 J	13.9 -	503 J	0.92 UJ
3	PUMP1-C-3-MP	8.5 -	0.9 U		13200 J	16.2 -	633 J	0.97 UJ
4	PUMP1-C-4-MP	10.7 -	1.1 U	42 U	16300 J	20.7 -	1070 J	1.1 UJ
5	PUMP1-C-5-MP	8 -	1.5 U	44 U	17600 J	17 -	1380 J	1.1 UJ
6	PUMP1-C-6-MP	8.6 -	1.1 U	40 U	16700 J	15.4 -	766 J	0.96 UJ
7	PUMP1-C-7-MP	8.2 -	0.9 U	39 U	13300 J	14.9 -	659 J	0.95 UJ
8	PUMP1-C-8-MP	10 -	1 U	38 U	15500 J	16.3 -	844 J	0.93 UJ
9	PUMP1-C-9-MP	10.2 -	1.2 U	39 U	16400 J	16.7 -	875 J	0.95 UJ
10	PUMP1-C-10-MP	9.3 -	0.92 U	37 U	15300 J	18 -	658 J	0.89 UJ
11	PUMP1-C-11-MP	9.2 -	0.92 U	38 U	11300 J	15.8 -	663 J	0.93 UJ
11	PUMP1-C-11-MP-D	9.9 -	1 U	40 U	15100 J	16.6 -	672 J	0.98 UJ
12	PUMP1-C-12-MP	8.2 -	0.86 U	39 U	13500 J	13.6 -	554 J	0.96 UJ
13	PUMP1-C-13-MP	7.2 -	0.75 U	38 U	10600 J	17.9 -	564 J	0.92 UJ
14	PUMP1-C-14-MP	12.6 -	1.1 U	39 U	16600 J	29.2 -	909 J	0.95 UJ
15	PUMP1-C-15-MP	7.9 -	0.76 U	40 U	12000 J	28.9 -	871 J	0.98 UJ
16	PUMP1-C-16-MP	8.5 -	0.95 U	37 U	15200 J	13.9 -	736 J	0.9 UJ
	FRL (* = BTV)	**12**	**1.5**	**130**	**10103**	**200 ***	**1500 ***	**10 ***
	Units	mg/kg	mg/kg	ug/kg	mg/kg	mg/kg	mg/kg	mg/kg
	Background UCL	5.6	0.6	n/a	8812	18.9	814	n/a
	Background 95%	8.2	0.6	n/a	11880	26.4	1348	n/a
	Samples	16	16	15	16	16	16	16
	Hits	16	0	0	16	16	16	0
	Max	**12.6**	**0.75**	**22.00**	**17600**	**29.2**	**1380**	**0.55**
	Mean	9.0	0.51	19.73	14650	18.0	794	0.48
	St.Dev.	1.3	0.10	1.03	1928	4.7	227	0.03
	UCL	**9.5**	**0.55**	**20.09**	**15296**	**19.6**	**870**	**0.49**
	t-Stat	8.83	38.08	413.50	--	--	--	--
	Prob.	0.0%	0.0%	0.0%	--	--	--	--
	Pass/Fail	**Pass**	**Pass**	**Pass**	--	--	--	--

NOTE: One half of the reported detection level was used in the calculations for results reported as below the detection limit (qualified with "U"). Duplicates were averaged before calculations were performed.

KEY

FRL - Final Remedial Level
Background UCL - Upper Confidence Level (95% one-sided) on the Mean Background concentration.
Background 95% - 95th Percentile of the background dataset.
Samples - Number of distinct sample locations in the analysis (see NOTE above).
Hits - Analyte positively detected in the sample.
Max - The maximum sample result.
Mean - The mean or average concentration. (See NOTE above).
St.Dev. - The standard deviation of the sample concentrations. (See NOTE above).
UCL - Upper Confidence Level (95% one-sided) on the Mean concentration.
t-Stat - The calculated t-statistic for the mean concentration compared to the FRL. (See the Certification Report).
Prob. - The probability (based on the t-Stat) that the true CU mean exceeds the FRL. Acceptable probability for primary COCs is 5% and 10% for seconday COCs.
Pass/Fail - Pass or Fail result from the t-Test based on "t-Stat" above. The associated probability is "Prob." above.



Q17 METALS MAP OF DATA POINTS

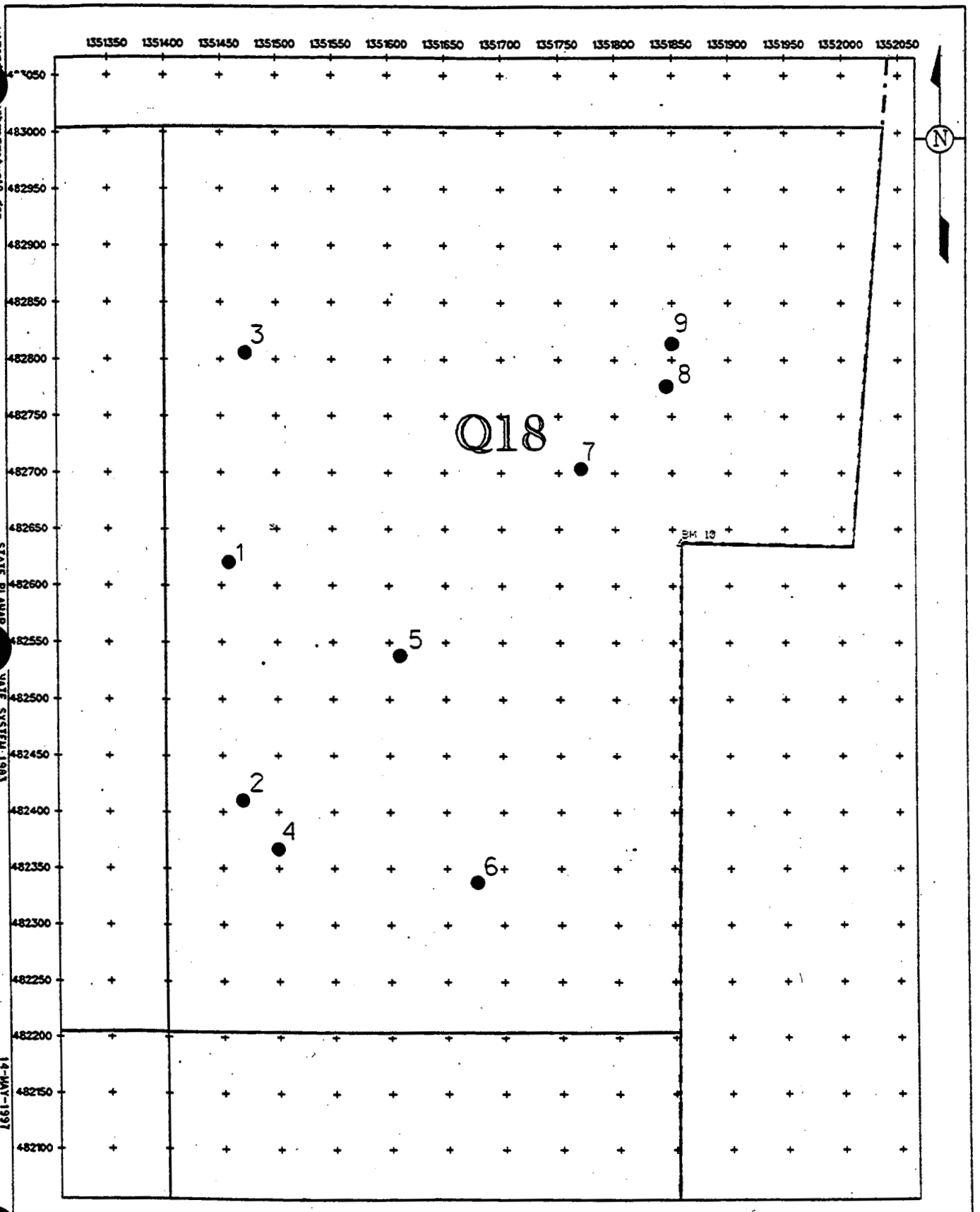
Certification Unit: Q17 03:34 PM 13-May-98

		Certification Analytes		Ecological COCs			
Map	Sample ID	Arsenic	Beryllium	Aluminum	Lead	Manganese	Molybdenum
1	Q17C-556087	9.5 -	1.1 -	13100 -	19 -	2430 J	1.8 U
2	Q17C-561796	8.7 -	0.75 U	9940 -	19.1 -	1450 J	0.97 -
3	Q17C-589600	7.4 -	0.51 U	9300 -	17.8 -	796 J	0.99 U
4	Q17C-697433	9.1 -	0.7 -	9470 -	18.9 -	702 J	0.95 U
5	Q17C-749987	6.9 -	0.57 U	9310 -	14.9 -	618 J	1.5 U
6	Q17C-750121	15.2 -	0.49 U	15600 J	20.2 -	340 -	4.6 UJ
7	Q17C-833783	6.3 -	0.57 U	7950 -	16.7 -	1100 J	1.5 U
8	Q17C2-M-1	12.5 J	1 U	11600 -			0.98 U
9	Q17C2-M-2	11.5 J	1 U	15400 -			1 U
9	Q17C2-M-2-D	10.1 J	0.84 U	11000 -			0.98 U
10	Q17C2-M-3	9.2 J	0.79 U	8430 -			0.93 U
10	Q17C2-M-3-D	9.6 J	0.96 U	9390 -		1750 J	0.97 U
	FRL (* = BTV)	12	1.5	10103	200 *	1500 *	10 *
	Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
	Background UCL	5.6	0.6	8812	18.9	814	n/a
	Background 95%	8.2	0.6	11880	26.4	1348	n/a
	Samples	10	10	10	7	8	10
	Hits	10	2	10	7	8	2
	Max	**15.20**	**1.10**	**15600**	**20.2**	**2430**	**4.60**
	Mean	9.58	0.46	10838	18.1	1148	1.04
	St.Dev.	2.69	0.26	2436	1.8	692	1.26
	UCL	**10.76**	**0.58**	**11903**	**19.1**	**1495**	**1.59**
	t-Stat	2.84	12.42	--	--	--	--
	Prob.	1.0%	0.0%	--	--	--	--
	Pass/Fail	**Pass**	**Pass**	--	--	--	--

NOTE: One half of the reported detection level was used in the calculations for results reported as below the detection limit (qualified with "U"). Duplicates were averaged before calculations were performed.

KEY

FRL - Final Remedial Level
Background UCL - Upper Confidence Level (95% one-sided) on the Mean Background concentration.
Background 95% - 95th Percentile of the background dataset.
Samples - Number of distinct sample locations in the analysis (see NOTE above).
Hits - Analyte positively detected in the sample.
Max - The maximum sample result.
Mean - The mean or average concentration. (See NOTE above).
St.Dev. - The standard deviation of the sample concentrations. (See NOTE above).
UCL - Upper Confidence Level (95% one-sided) on the Mean concentration.
t-Stat - The calculated t-statistic for the mean concentration compared to the FRL. (See the Certification Report).
Prob. - The probability (based on the t-Stat) that the true CU mean exceeds the FRL. Acceptable probability for primary COCs is 5% and 10% for seconday COCs.
Pass/Fail - Pass or Fail result from the t-Test based on "t-Stat" above. The associated probability is "Prob." above.



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SCALE

10 5 0 10FEET

Q18 METALS MAP OF DATA POINTS

000277

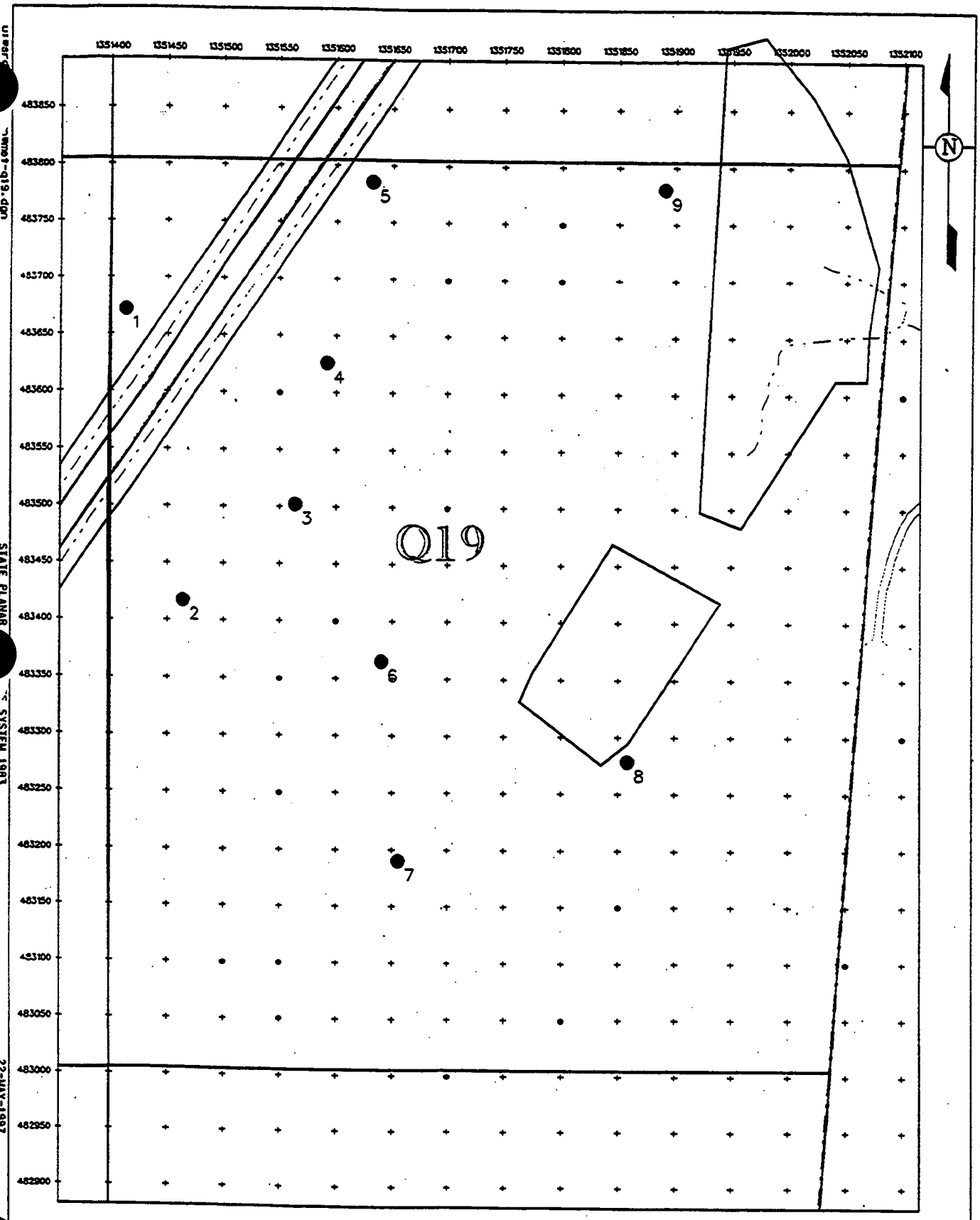
Certification Unit: Q18 03:33 PM 13-May-98

		Certification Analytes		Ecological COCs			
Map	Sample ID	Arsenic	Beryllium	Aluminum	Lead	Manganese	Molybdenum
1	Q18C-456620	7.5 -	0.58 U	7770 -	18 -	619 J	0.95 U
2	Q18C-468410	11.7 -	0.99 -	13900 -	15.5 -	1460 J	1 U
3	Q18C-472805	9.6 -	0.58 U	9590 -	21.4 -	881 J	0.98 U
4	Q18C-499367	4.3 -	0.34 U	4760 -	12.3 -	798 J	0.93 U
5	Q18C-609538	9.2 -	0.83 -	10700 -	20.7 -	1010 J	1.3 U
6	Q18C-676337	10.9 -	0.82 -	10600 -	22.9 -	1040 J	2.1 U
7	Q18C-770703	7.6 -	0.57 U	9820 -	19.1 -	681 J	1.1 U
8	Q18C-845776	11.2 -	0.45 U	13400 -	15.6 -	220 J	1.5 U
9	Q18C-850814	10.8 -	0.74 -	9590 -	17.5 -	1430 J	2.2 U
	FRL (* = BTV)	12	1.5	10103	200 *	1500 *	10 *
	Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
	Background UCL	5.6	0.6	8812	18.9	814	n/a
	Background 95%	8.2	0.6	11880	26.4	1348	n/a
	Samples	9	9	9	9	9	9
	Hits	9	4	9	9	9	0
	Max	11.70	0.99	13900	22.9	1460	1.10
	Mean	9.20	0.52	10014	18.1	904	0.67
	St.Dev.	2.38	0.32	2748	3.3	391	0.25
	UCL	10.31	0.67	11294	19.7	1087	0.79
	t-Stat	3.53	9.19	--	--	--	--
	Prob.	0.4%	0.0%	--	--	--	--
	Pass/Fail	Pass	Pass	--	--	--	--

NOTE: One half of the reported detection level was used in the calculations for results reported as below the detection limit (qualified with "U"). Duplicates were averaged before calculations were performed.

KEY

FRL - Final Remedial Level
Background UCL - Upper Confidence Level (95% one-sided) on the Mean Background concentration.
Background 95% - 95th Percentile of the background dataset.
Samples - Number of distinct sample locations in the analysis (see NOTE above).
Hits - Analyte positively detected in the sample.
Max - The maximum sample result.
Mean - The mean or average concentration. (See NOTE above).
St.Dev. - The standard deviation of the sample concentrations. (See NOTE above).
UCL - Upper Confidence Level (95% one-sided) on the Mean concentration.
t-Stat - The calculated t-statistic for the mean concentration compared to the FRL. (See the Certification Report).
Prob. - The probability (based on the t-Stat) that the true CU mean exceeds the FRL. Acceptable probability for primary COCs is 5% and 10% for seconday COCs.
Pass/Fail - Pass or Fail result from the t-Test based on "t-Stat" above. The associated probability is "Prob." above.



DRAFT

SCALE

120 60 0 120 FEET

P19 METALS MAP OF DATA POINTS

Certification Unit: Q19

03:32 PM 13-May-98

		Certification Analytes		Ecological COCs			
Map	Sample ID	Arsenic	Beryllium	Aluminum	Lead	Manganese	Molybdenum
1	Q19C-413672	8.7 J	0.89 J	11000 -			1 U
2	Q19C-464417	9 -	0.76 U	9950 -	19.4 J	781 -	0.98 U
3	Q19C-564505	9 -	0.81 -	9310 -	24.2 J	3220 J	1.7 -
4	Q19C-592626	7.9 -	0.8 U	10000 -	20.1 -	1150 J	1.1 -
5	Q19C-631785	10.3 -	0.95 -	19600 -	15.3 J	821 J	1.5 -
6	Q19C-640364	7.6 -	0.66 U	7190 -	56.3 J	1380 -	0.93 U
7	Q19C-655190	7.3 -	0.67 U	7970 -	19.8 J	736 -	0.92 U
8	Q19C-858287	10.9 -	0.96 -	22000 -	15.6 J	317 J	1.5 -
9	Q19C-890780	8 -	0.79 -	13100 -	16.8 J	714 J	1.1 -
	FRL (* = BTV)	12	1.5	10103	200 *	1500 *	10 *
	Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
	Background UCL	5.6	0.6	8812	18.9	814	n/a
	Background 95%	8.2	0.6	11880	26.4	1348	n/a
	Samples	9	9	9	8	8	9
	Hits	9	5	9	8	8	5
	Max	10.90	0.96	22000	56.3	3220	1.70
	Mean	8.74	0.65	12236	23.4	1140	0.98
	St.Dev.	1.22	0.28	5175	13.6	897	0.51
	UCL	9.31	0.78	14645	30.2	1589	1.22
	t-Stat	8.02	9.12	--	--	--	--
	Prob.	0.0%	0.0%	--	--	--	--
	Pass/Fail	Pass	Pass	--	--	--	--

NOTE: One half of the reported detection level was used in the calculations for results reported as below the detection limit (qualified with "U"). Duplicates were averaged before calculations were performed.

KEY

FRL - Final Remedial Level

Background UCL - Upper Confidence Level (95% one-sided) on the Mean Background concentration.

Background 95% - 95th Percentile of the background dataset.

Samples - Number of distinct sample locations in the analysis (see NOTE above).

Hits - Analyte positively detected in the sample.

Max - The maximum sample result.

Mean - The mean or average concentration. (See NOTE above).

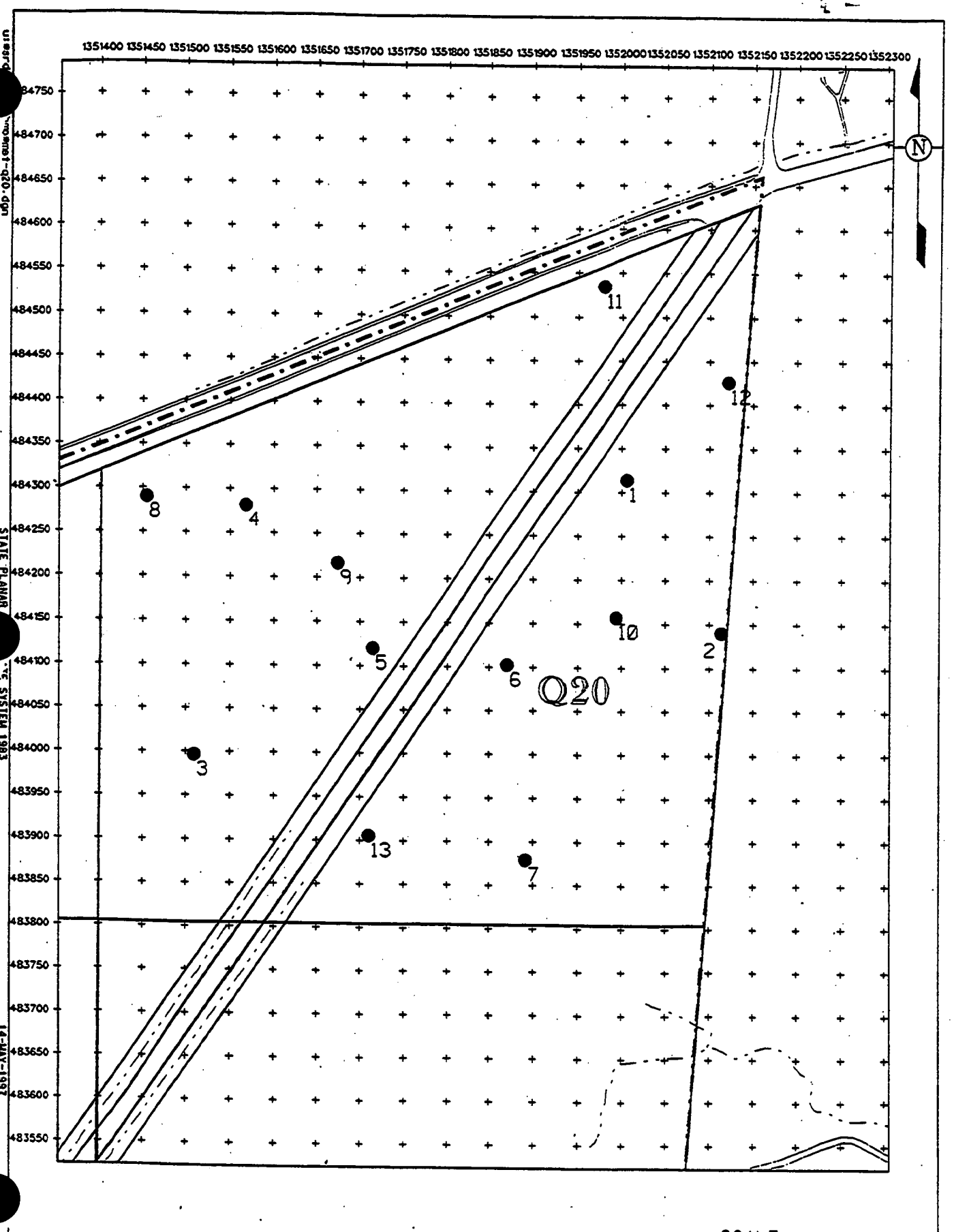
St.Dev. - The standard deviation of the sample concentrations. (See NOTE above).

UCL - Upper Confidence Level (95% one-sided) on the Mean concentration.

t-Stat - The calculated t-statistic for the mean concentration compared to the FRL. (See the Certification Report).

Prob. - The probability (based on the t-Stat) that the true CU mean exceeds the FRL. Acceptable probability for primary COCs is 5% and 10% for seconday COCs.

Pass/Fail - Pass or Fail result from the t-Test based on "t-Stat" above. The associated probability is "Prob." above.



DRAFT

SCALE

150 75 0 150 FEET

Q20 METALS MAP OF DATA POINTS

Certification Unit: Q20 06:45 PM 26-May-98

Map	Sample ID	Certification Analytes: Arsenic	Certification Analytes: Beryllium	Ecological COCs: Aluminum	Ecological COCs: Lead	Ecological COCs: Manganese	Ecological COCs: Molybdenum
1	Q20C-006313	6.7 -	0.88 -	12100 -	26.3 -	1260 -	0.48 U
2	Q20C-113140	2.8 -	1 -	6230 -	8.7 -	927 -	0.48 U
3	Q20C-509996	8 R	1.1 R	14900 -	29.2 -	1560 -	0.72 U
4	Q20C-567281	8.4 R	0.93 R	15700 -	24.6 -	1270 -	0.55 U
5	Q20C-714120	6.8 R	0.91 R	14100 -	24.5 -	1400 -	0.7 U
6	Q20C-870102	8 -	0.89 -	11900 -	26.9 -	1170 -	0.74 U
7	Q20C-891879	6.6 -	0.69 -	10800 -	22.7 J	426 J	1.2 -
8	Q20C2-M-1	5 U	1.2 -	13400 -	31.9 J	1780 -	1.2 UJ
9	Q20C2-M-2	4.1 UJ	1 J	10700 J	28.2 J	1420 J	1.7 UJ
10	Q20C2-M-3	8.5 -	1.2 -	13300 -		1610 -	1.2 UJ
11	Q20C2-M-4	7 U	1.1 -	13600 -		1060 -	1.3 UJ
12	Q20C2-M-5	8 -	1.2 -	13900 -		942 -	1.3 UJ
13	Q20C2-M-6	8.3 -	1.4 -	19400 -		1110 -	1.2 UJ
	FRL (* = BTV)	12	1.5	10103	200 *	1500 *	10 *
	Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
	Background UCL	5.6	0.6	8812	18.9	814	n/a
	Background 95%	8.2	0.6	11880	26.4	1348	n/a
	Samples	10	10	10	6	10	10
	Hits	7	10	10	6	10	1
	Max	**8.5**	**1.40**	**19400**	**31.9**	**1780**	**1.20**
	Mean	5.7	1.06	12533	24.1	1171	0.60
	St.Dev.	2.7	0.21	3303	8.1	382	0.29
	UCL	**6.9**	**1.15**	**13978**	**29.0**	**1338**	**0.73**
	t-Stat	7.49	6.82	--	--	--	--
	Prob.	0.0%	0.0%	--	--	--	--
	Pass/Fail	**Pass**	**Pass**	--	--	--	--

NOTE: One half of the reported detection level was used in the calculations for results reported as below the detection limit (qualified with "U"). Duplicates were averaged before calculations were performed.

KEY

FRL - Final Remedial Level
Background UCL - Upper Confidence Level (95% one-sided) on the Mean Background concentration.
Background 95% - 95th Percentile of the background dataset.
Samples - Number of distinct sample locations in the analysis (see NOTE above).
Hits - Analyte positively detected in the sample.
Max - The maximum sample result.
Mean - The mean or average concentration. (See NOTE above).
St.Dev. - The standard deviation of the sample concentrations. (See NOTE above).
UCL - Upper Confidence Level (95% one-sided) on the Mean concentration.
t-Stat - The calculated t-statistic for the mean concentration compared to the FRL. (See the Certification Report).
Prob. - The probability (based on the t-Stat) that the true CU mean exceeds the FRL. Acceptable probability for primary COCs is 5% and 10% for seconday COCs.
Pass/Fail - Pass or Fail result from the t-Test based on "t-Stat" above. The associated probability is "Prob." above.

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1350500 1350600 1350700 1350800 1350900 1351000 1351100 1351200 1351300

483000 482900 482800 482700 482600 482500 482400 482300 482200 482100 482000 481900 481800 481700

STATE PLANAR COORDINATE SYSTEM 1983

21-AUG-1997

N

NAR-1

NAR-5

NAR-3

16 15 14 13 12 11 10 9 8 7 6 5 4 3 2

DRAFT

SCALE

100 50 0 100 FEET

NAR-1 PCBs MAP OF DATA POINTS

0000283

D1480

Certification Unit: NAR-1 03:53 PM 13-May-98

Map	Sample ID	Certification Analytes			Ecological COCs			
		Arsenic	Beryllium	Aroclor-1260	Aluminum	Lead	Manganese	Molybdenum
1	NAR-1-1C-MP	12.5 J	0.77 -	41 U	15900 -	16 -	333 -	0.98 UJ
2	NAR-1-2C-MP	6 J	0.59 -	39 U	8200 -	10.2 -	647 -	0.94 UJ
3	NAR-1-3C-MP	7.5 J	0.62 -	39 UJ	8810 -	14.6 -	671 -	0.95 UJ
4	NAR-1-4C-MP	11 J	0.95 -	41 U	13400 -	11.8 -	702 -	0.98 U
5	NAR-1-5C-MP	9.9 -	0.51 -	41 U	10600 -	14.7 -	349 -	1.3 U
6	NAR-1-6C-MP	10.2 -	0.56 -	41 U	15500 -	15.2 -	198 -	1.2 U
7	NAR-1-7C-MP	15.5 -	1.3 -	43 U	24700 -	15.9 -	316 -	1.2 U
8	NAR-1-8C-MP	6.8 -	0.75 U	38 U	8490 -	7.2 -	518 J	0.92 U
9	NAR-1-9C-MP	14 J	1.5 -	42 U	13800 -	17.2 -	542 -	1 UJ
10	NAR-1-10C-MP	8.8 J	1.2 -	40 U	23400 -	16.5 -	170 -	0.97 U
11	NAR-1-11C-MP	7.5 J	0.67 -	41 UJ	9870 -	12.2 -	769 -	1 UJ
12	NAR-1-12C-MP	12.6 J	1.1 -	42 UJ	16600 -	17.1 -	514 -	1 UJ
13	NAR-1-13C-MP	15.5 -	1.5 -	42 U	23900 -	21.1 -	1810 -	1 U
14	NAR-1-14C-MP	11.5 -	1.2 -	44 U	23900 -	15.8 -	275 -	1.1 U
15	NAR-1-15C-MP	10.4 -	1.8 -	42 U	18700 -	18.6 -	1770 -	1 U
16	NAR-1-16C-MP	12.8 J	0.99 -	42 U	21100 -	15.1 -	539 -	1 U
16	NAR-1-16C-MP-D	14.8 J	0.83 -	41 UJ	21400 -	17.6 -	455 -	1 U
	FRL (* = BTV)	12.	1.6	130	10103	200 *	1500 *	10 *
	Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
	Background UCL	5.6	0.6	n/a	8812	18.9	814	n/a
	Background 95%	8.2	0.6	n/a	11880	26.4	1348	n/a
	Samples	16	16	16	16	16	16	16
	Hits	16	15	0	16	16	16	0
	Max	15.5	1.80	22.0	24700	21.1	1810	0.65
	Mean	10.8	0.97	20.5	16064	15.0	630	0.52
	St.Dev.	3.0	0.42	0.8	5989	3.3	487	0.05
	UCL	11.9	1.11	20.8	18071	16.2	793	0.54
	t-Stat	1.53	5.05	572.34	--	--	--	--
	Prob.	7.3%	0.0%	0.0%	--	--	--	--
	Pass/Fail	Pass	Pass	Pass	--	--	--	--

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KEY

FRL - Final Remedial Level
Background UCL - Upper Confidence Level (95% one-sided) on the Mean Background concentration.
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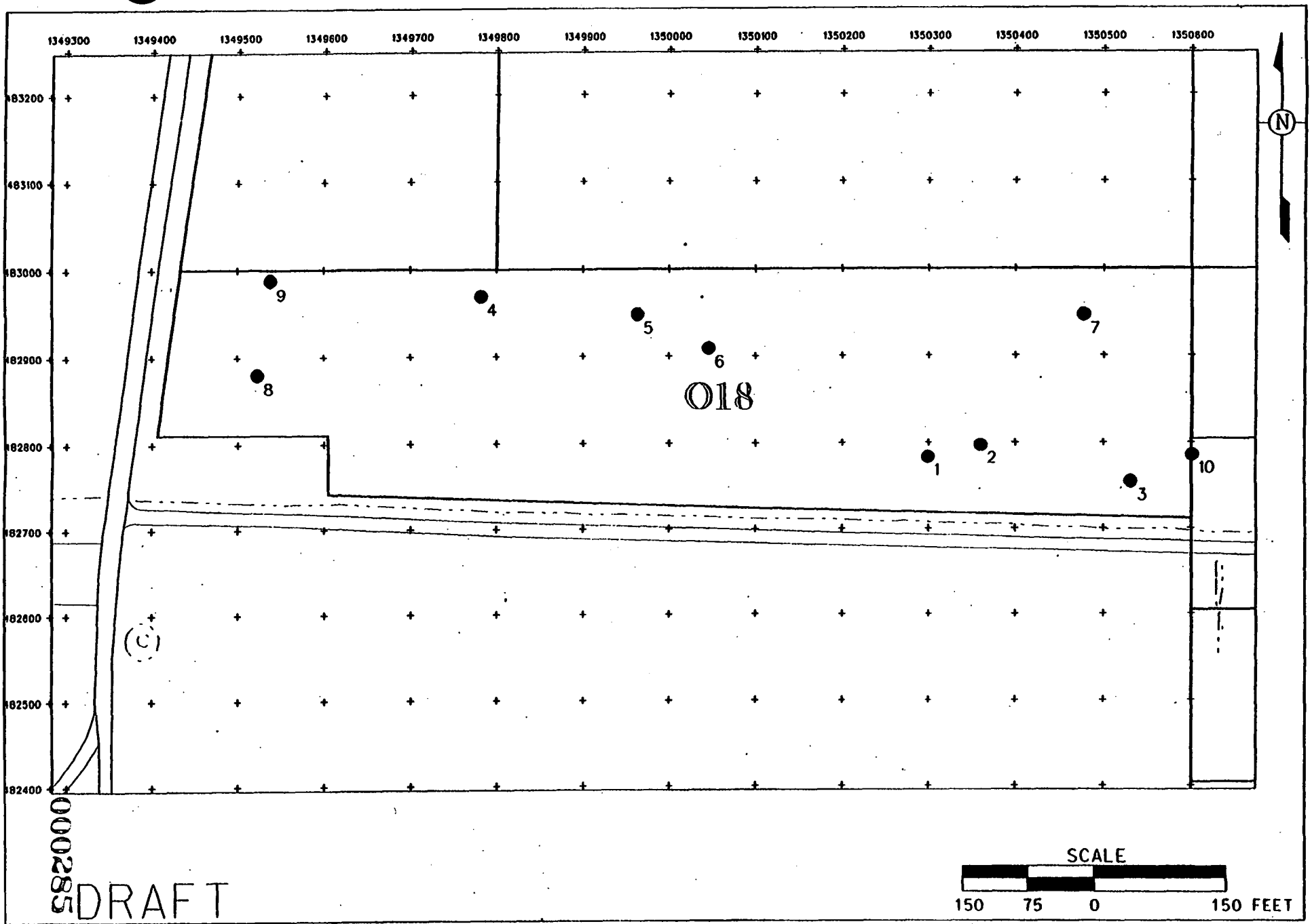
Hits - Analyte positively detected in the sample.
Max - The maximum sample result.
Mean - The mean or average concentration. (See NOTE above).
St.Dev. - The standard deviation of the sample concentrations. (See NOTE above).
UCL - Upper Confidence Level (95% one-sided) on the Mean concentration.
t-Stat - The calculated t-statistic for the mean concentration compared to the FRL. (See the Certification Report).
Prob. - The probability (based on the t-Stat) that the true CU mean exceeds the FRL. Acceptable probability for primary COCs is 5% and 10% for seconday COCs.
Pass/Fail - Pass or Fail result from the t-Test based on "t-Stat" above. The associated probability is "Prob." above.



000285

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utegrdlgedgnebmpmmet-018.dgn
STATE PLANAR COORDINATE SYSTEM 1983

20-MAY-1997

018 PCBs MAP OF DATA POINTS

A 1480

Certification Unit: O18 02:47 PM 23-Mar-97

		Certification Analytes			Ecological COCs			
Map	Sample ID	Arsenic	Beryllium	Aroclor-1260	Aluminum	Lead	Manganese	Molybdenum
1	O18-00C-5-MP	7.5 -	0.68 U	64 U	11200 -	24.2 -	750 -	0.91 U
2	O18-00C-6-MP	7.9 -	0.72 U	57 U	11700 -	25.4 -	607 -	1.2 U
3	O18-00C-7-MP	8.5 -	0.81 U	58 U	10800 -	24.3 -	804 -	0.93 U
4	O18-00C-9-MP	5.9 -	0.73 U	61 U	9510 -	23.1 -	554 -	0.54 U
5	O18-00C-10-MP	7.8 -	0.69 U	61 U	10200 -	22.4 -	389 -	0.83 U
6	O18-00C-11-MP	9.1 -	0.77 U	62 U	9920 -	27.2 -	649 -	0.84 U
7	O18-00C-14-MP	5.8 -	0.36 U	58 U	6880 -	23.8 -	375 -	1 U
8	O18-00C-15-MP	7.3 -	0.77 U	55 U	10200 -	23.4 -	660 -	0.7 U
9	O18-00C-16-MP	7.8 -	0.66 U	58 U	9650 -	30.1 -	764 -	1.1 U
10	P18-31C-601785	5.3 -	0.38 U		6860 -	21.5 -	524 -	1.7 U
	FRL (* = BTV)	12	1.5	130	10103	200 *	1500 *	10 *
	Units	mg/kg	mg/kg	ug/kg	mg/kg	mg/kg	mg/kg	mg/kg
	Background UCL	5.6	0.6	n/a	8812	18.9	814	n/a
	Background 95%	8.2	0.6	n/a	11880	26.4	1348	n/a
	Samples	10	10	9	10	10	10	10
	Hits	10	0	0	10	10	10	0
	Max	9.10	0.41	32.0	11700	30.1	804	0.85
	Mean	7.29	0.33	29.7	9692	24.5	608	0.49
	St.Dev.	1.24	0.08	1.4	1635	2.5	149	0.16
	UCL	7.83	0.36	30.3	10407	25.6	673	0.56
	t-Stat	12.03	46.88	212.84	--	--	--	--
	Prob.	0.0%	0.0%	0.0%	--	--	--	--
	Pass/Fail	Pass	Pass	Pass	--	--	--	--

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KEY

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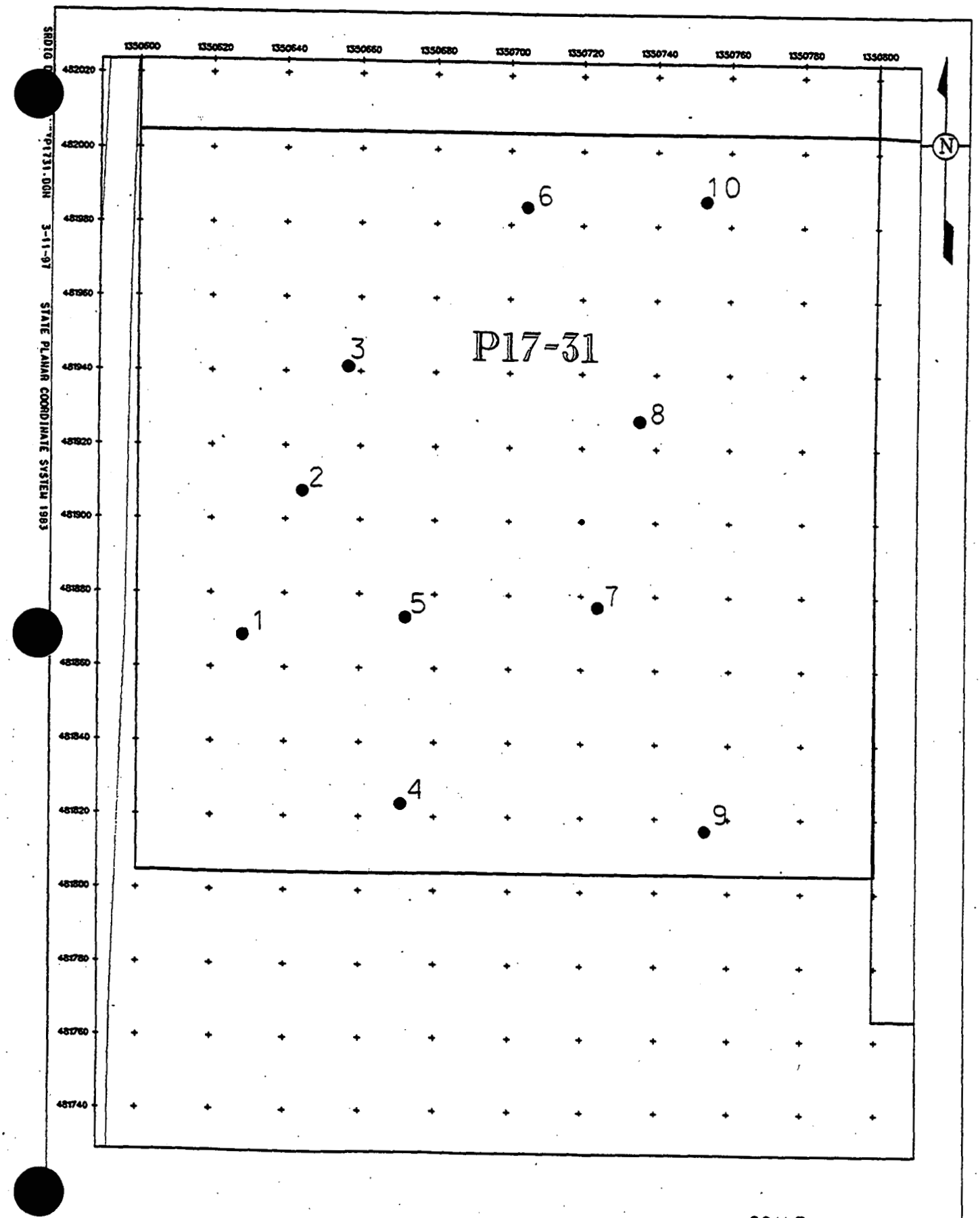
Samples - Number of distinct sample locations in the analysis (see NOTE above).
Hits - Analyte positively detected in the sample.
Max - The maximum sample result.
Mean - The mean or average concentration. (See NOTE above).
St.Dev. - The standard deviation of the sample concentrations. (See NOTE above).
UCL - Upper Confidence Level (95% one-sided) on the Mean concentration.
t-Stat - The calculated t-statistic for the mean concentration compared to the FRL. (See the Certification Report).
Prob. - The probability (based on the t-Stat) that the true CU mean exceeds the FRL. Acceptable probability for primary COCs is 5% and 10% for seconday COCs.
Pass/Fail - Pass or Fail result from the t-Test based on "t-Stat" above. The associated probability is "Prob." above.



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SCALE

35 17.5 0 35 FEET

P17-31 PCBs MAP OF DATA POINTS

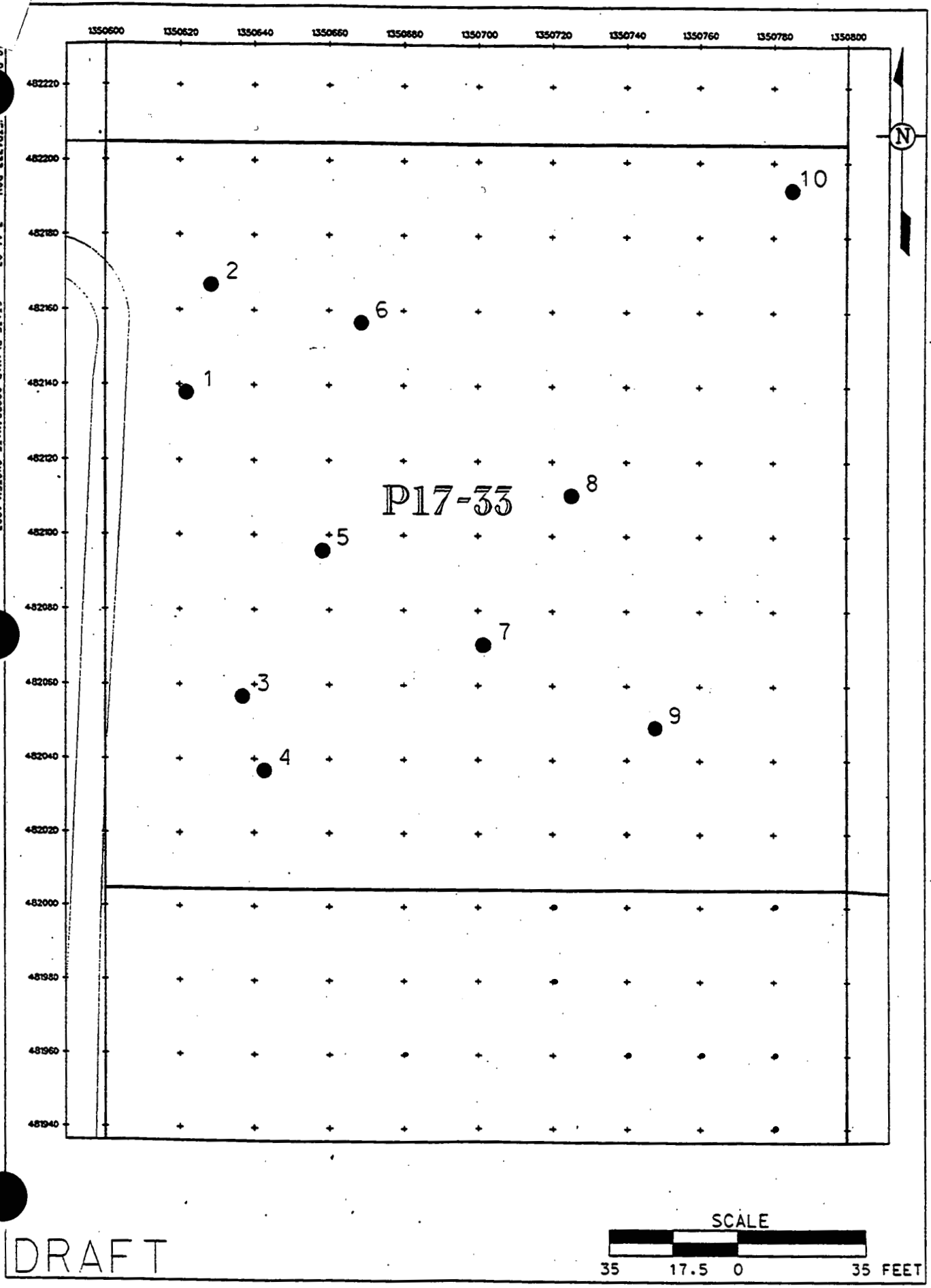
Certification Unit: P17-31 03:46 PM 13-May-98

Map	Sample ID	Certification Analytes			Ecological COCs			
		Arsenic	Beryllium	Aroclor-1260	Aluminum	Lead	Manganese	Molybdenum
1	P17-31C-628868	5.3 J	0.45 U	44 U	7250 -	7.2 -	480 J	4.2 U
2	P17-31C-644907	5.5 J	0.26 U	45 U	4030 -	8.4 -	395 J	4.4 U
2	P17-31C-644907-D	3.4 J	0.22 U	45 U	3550 -	4.8 -	244 J	4.4 U
3	P17-31C-656941	4.5 J	0.35 U	45 U	5680 -	5.6 -	365 J	4.3 U
4	P17-31C-671823	6.2 -	0.61 U	48 U	7360 -	15.2 -	915 J	0.94 U
5	P17-31C-672873	10.8 J	0.76 U	50 U	12200 -	19.7 -	841 J	1.4 -
6	P17-31C-704984	6.5 J	0.51 U	43 U	9020 -	12.4 -	543 J	1.1 -
7	P17-31C-724876	8.4 -	0.5 U	47 U	7150 -	17.2 -	809 J	0.91 U
8	P17-31C-735927	7.3 J	0.65 U	46 U	9130 -	14.6 -	638 J	0.96 -
9	P17-31C-753816	8.6 -	0.7 U	46 U	9780 -	18 -	552 J	1.2 -
10	P17-31C-753986	7 J	0.49 U	43 U	7650 -	7.8 -	529 J	4.2 U
	FRL (* = BTV)	12	1.6	130	10103	200 *	1500 *	10 *
	Units	mg/kg	mg/kg	ug/kg	mg/kg	mg/kg	mg/kg	mg/kg
	Background UCL	5.6	0.6	n/a	8812	18.9	814	n/a
	Background 95%	8.2	0.6	n/a	11880	26.4	1348	n/a
	Samples	10	10	10	10	10	10	10
	Hits	10	0	0	10	10	10	4
	Max	10.80	0.38	26.0	12200	19.7	915	2.20
	Mean	6.91	0.26	22.9	7901	12.4	599	1.41
	St.Dev.	1.99	0.08	1.1	2308	5.3	200	0.69
	UCL	7.77	0.30	23.3	8911	14.7	687	1.71
	t-Stat	8.11	49.13	306.14	--	--	--	--
	Prob.	0.0%	0.0%	0.0%	--	--	--	--
	Pass/Fail	Pass	Pass	Pass	--	--	--	--

NOTE: One half of the reported detection level was used in the calculations for results reported as below the detection limit (qualified with "U"). Duplicates were averaged before calculations were performed.

KEY

FRL - Final Remedial Level
Background UCL - Upper Confidence Level (95% one-sided) on the Mean Background concentration.
Background 95% - 95th Percentile of the background dataset.
Samples - Number of distinct sample locations in the analysis (see NOTE above).
Hits - Analyte positively detected in the sample.
Max - The maximum sample result.
Mean - The mean or average concentration. (See NOTE above).
St.Dev. - The standard deviation of the sample concentrations. (See NOTE above).
UCL - Upper Confidence Level (95% one-sided) on the Mean concentration.
t-Stat - The calculated t-statistic for the mean concentration compared to the FRL. (See the Certification Report).
Prob. - The probability (based on the t-Stat) that the true CU mean exceeds the FRL. Acceptable probability for primary COCs is 5% and 10% for seconday COCs.
Pass/Fail - Pass or Fail result from the t-Test based on "t-Stat" above. The associated probability is "Prob." above.



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P17-33 PCBs MAP OF DATA POINTS

Certification Unit: P17-33

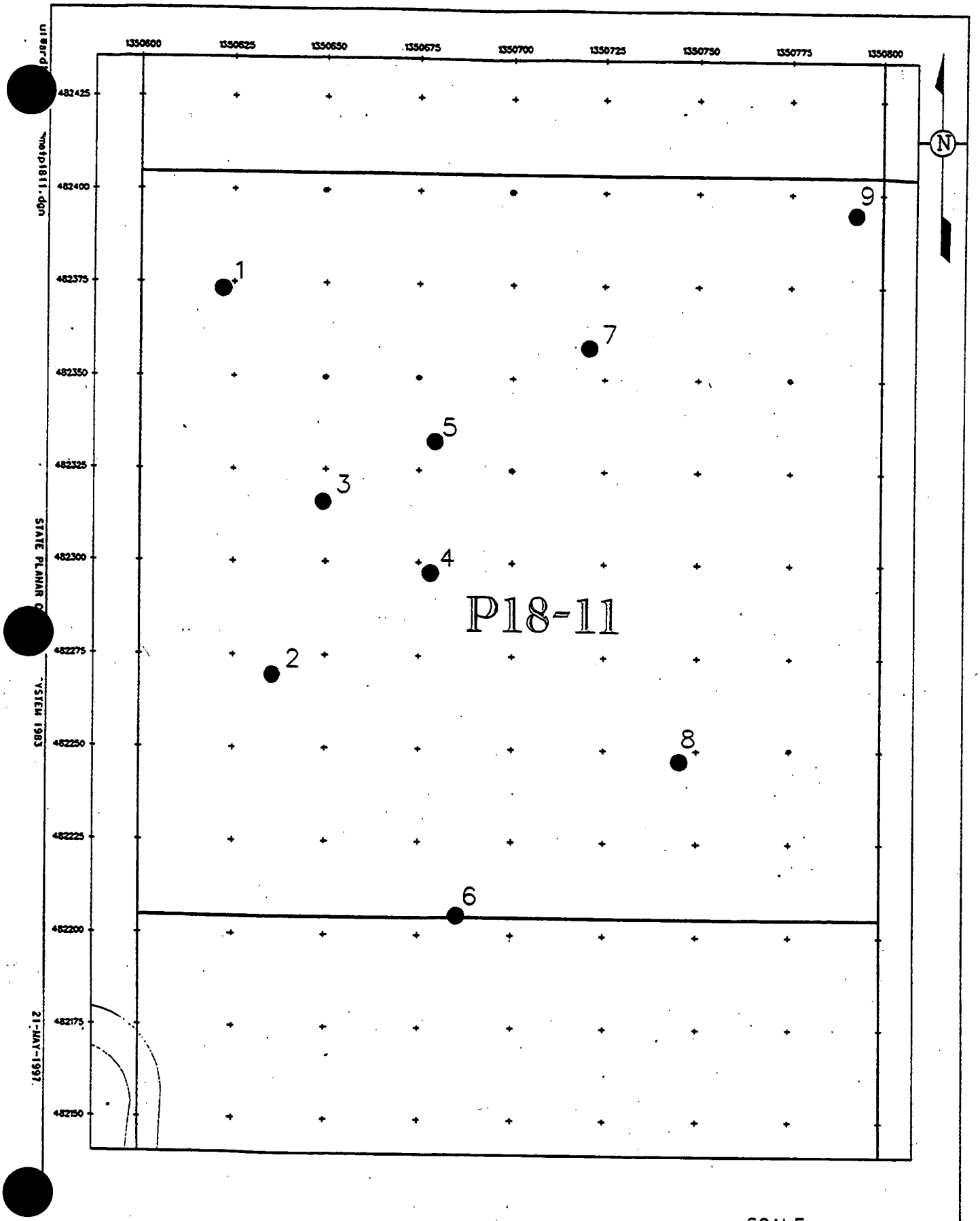
03:44 PM 13-May-98

		Certification Analytes			Ecological COCs			
Map	Sample ID	Arsenic	Beryllium	Aroclor-1260	Aluminum	Lead	Manganese	Molybdenum
1	P17-33C-621137	5.5 -	0.8 U	47 U	7920 -	8.8 J	503 -	4.4 U
2	P17-33C-628166	8.5 -	0.87 -	49 U	12100 -	18 J	591 -	1.3 -
3	P17-33C-636056	5.8 -	0.74 U	44 U	7230 -	12.5 J	559 -	4.1 U
4	P17-33C-642036	7.5 J	0.88 -	43 U	10100 -	10.2 J	414 -	1.7 -
5	P17-33C-658095	4.9 -	0.83 U	43 U	7670 -	6.9 J	823 -	4 U
6	P17-33C-668156	7.5 -	0.9 U	45 U	9460 -	15.1 J	690 -	4.3 U
7	P17-33C-701070	6.9 J	0.72 U	48 U	9020 -	16.8 J	508 -	1.3 -
8	P17-33C-725110	8.8 -	0.87 -	48 U	11800 -	19.1 J	864 -	1.4 -
9	P17-33C-747048	5.3 -	0.79 U	44 U	8230 -	7 J	433 -	4.1 U
10	P17-33C-765192	5.6 -	0.87 U	45 U	10200 -	8.2 J	717 -	4.3 U
	FRL (* = BTV)	12	1.6	130	10103	200 *	1500 *	10 *
	Units	mg/kg	mg/kg	ug/kg	mg/kg	mg/kg	mg/kg	mg/kg
	Background UCL	5.6	0.6	n/a	8812	18.9	814	n/a
	Background 95%	8.2	0.6	n/a	11880	26.4	1348	n/a
	Samples	10	10	10	10	10	10	10
	Hits	10	3	0	10	10	10	4
	Max	8.80	0.87	24.5	12100	19.1	864	2.20
	Mean	6.63	0.52	22.8	9373	12.3	610	1.83
	St.Dev.	1.40	0.20	1.1	1686	4.7	157	0.37
	UCL	7.24	0.61	23.3	10110	14.3	679	1.99
	t-Stat	12.15	15.18	305.25	--	--	--	--
	Prob.	0.0%	0.0%	0.0%	--	--	--	--
	Pass/Fail	Pass	Pass	Pass	--	--	--	--

NOTE: One half of the reported detection level was used in the calculations for results reported as below the detection limit (qualified with "U"). Duplicates were averaged before calculations were performed.

KEY

FRL - Final Remedial Level
Background UCL - Upper Confidence Level (95% one-sided) on the Mean Background concentration.
Background 95% - 95th Percentile of the background dataset.
Samples - Number of distinct sample locations in the analysis (see NOTE above).
Hits - Analyte positively detected in the sample.
Max - The maximum sample result.
Mean - The mean or average concentration. (See NOTE above).
St.Dev. - The standard deviation of the sample concentrations. (See NOTE above).
UCL - Upper Confidence Level (95% one-sided) on the Mean concentration.
t-Stat - The calculated t-statistic for the mean concentration compared to the FRL. (See the Certification Report).
Prob. - The probability (based on the t-Stat) that the true CU mean exceeds the FRL. Acceptable probability for primary COCs is 5% and 10% for seconday COCs.
Pass/Fail - Pass or Fail result from the t-Test based on "t-Stat" above. The associated probability is "Prob." above.



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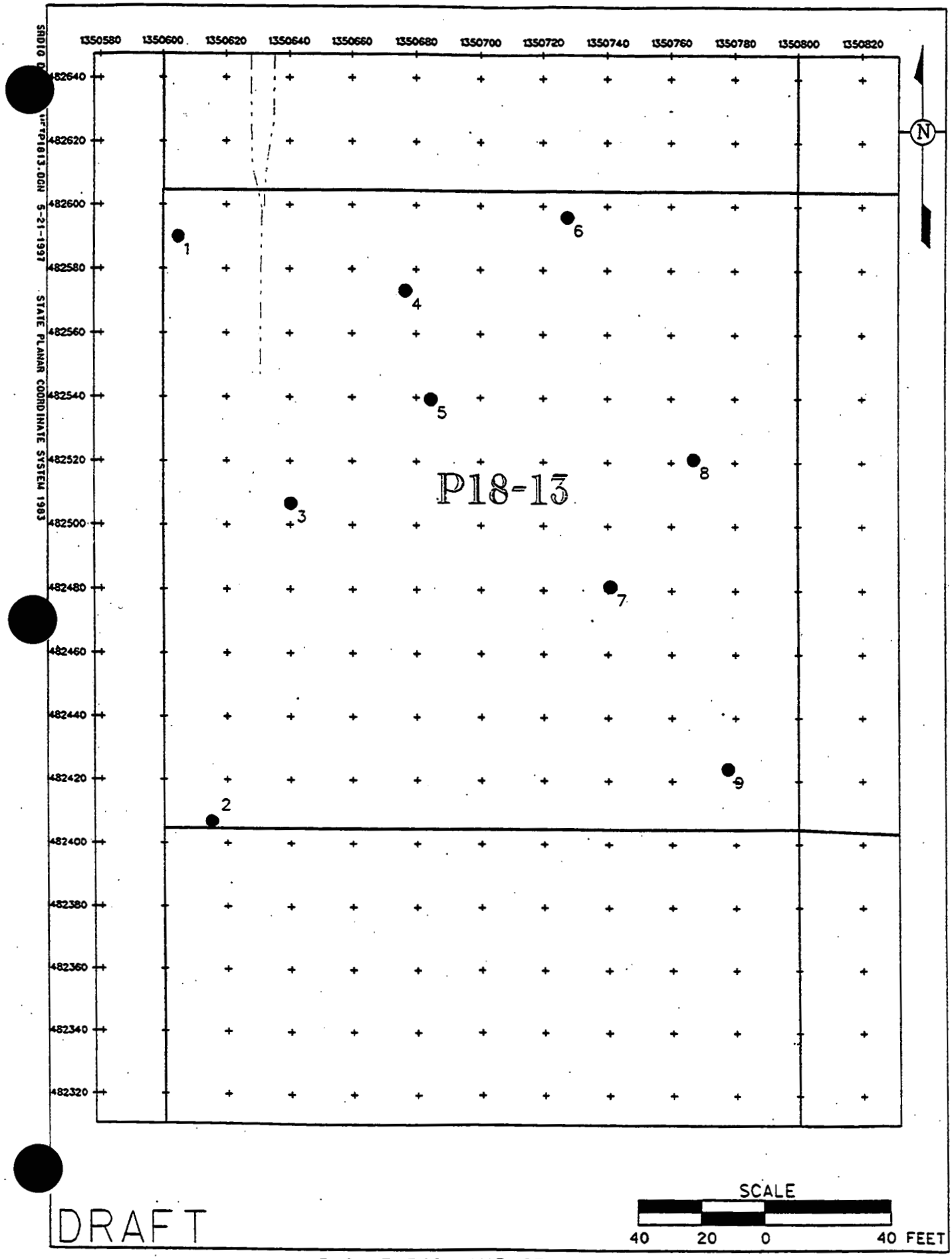
P18-11 PCBs MAP OF DATA POINTS

Certification Unit: P18-11 03:43 PM 13-May-98

Map	Sample ID	Certification Analytes			Ecological COCs			
		Arsenic	Beryllium	Aroclor-1260	Aluminum	Lead	Manganese	Molybdenum
1	P18-11C-621373	5.4 J	0.41 U	47 UJ	6770 -	7.3 -	427 -	1.6 -
2	P18-11C-635269	11.2 J	0.79 U	47 UJ	12200 -	13.6 -	519 -	0.91 U
3	P18-11C-649316	11.7 J	0.47 U	45 UJ	5870 -	7.5 -	600 -	3.1 -
4	P18-11C-678297	8.9 -	0.64 U	47 UJ	12100 -	18.7 -	1240 -	0.92 U
5	P18-11C-679332	5 J	0.44 U	45 UJ	7140 -	6.1 -	410 -	1.7 -
6	P18-11C-685205	12.3 J	0.79 U	50 UJ	12900 -	10.5 -	564 -	1.8 -
7	P18-11C-720358	7.4 J	0.53 U	47 UJ	9230 -	11.7 -	472 -	0.92 U
8	P18-11C-745247	6.1 J	0.37 U	47 UJ	6520 -	7.3 -	391 -	2.6 -
9	P18-11C-792394	6 J	0.59 U	46 UJ	11100 -	8.5 -	460 -	1.1 -
	FRL (* = BTV)	12	1.6	130	10103	200 *	1500 *	10 *
	Units	mg/kg	mg/kg	ug/kg	mg/kg	mg/kg	mg/kg	mg/kg
	Background UCL	5.6	0.6	n/a	8812	18.9	814	n/a
	Background 95%	8.2	0.6	n/a	11880	26.4	1348	n/a
	Samples	9	9	9	9	9	9	9
	Hits	9	0	0	9	9	9	6
	Max	12.30	0.40	25.0	12900	18.7	1240	3.10
	Mean	8.22	0.28	23.4	9314	10.1	565	1.48
	St.Dev.	2.88	0.08	0.7	2807	4.0	263	0.96
	UCL	9.56	0.32	23.7	10621	12.0	687	1.92
	t-Stat	3.93	46.90	431.81	--	--	--	--
	Prob.	0.2%	0.0%	0.0%	--	--	--	--
	Pass/Fail	Pass	Pass	Pass	--	--	--	--

NOTE: One half of the reported detection level was used in the calculations for results reported as below the detection limit (qualified with "U"). Duplicates were averaged before calculations were performed.

KEY
FRL - Final Remedial Level
Background UCL - Upper Confidence Level (95% one-sided) on the Mean Background concentration.
Background 95% - 95th Percentile of the background dataset.
Samples - Number of distinct sample locations in the analysis (see NOTE above).
Hits - Analyte positively detected in the sample.
Max - The maximum sample result.
Mean - The mean or average concentration. (See NOTE above).
St.Dev. - The standard deviation of the sample concentrations. (See NOTE above).
UCL - Upper Confidence Level (95% one-sided) on the Mean concentration.
t-Stat - The calculated t-statistic for the mean concentration compared to the FRL. (See the Certification Report).
Prob. - The probability (based on the t-Stat) that the true CU mean exceeds the FRL. Acceptable probability for primary COCs is 5% and 10% for seconday COCs.
Pass/Fail - Pass or Fail result from the t-Test based on "t-Stat" above. The associated probability is "Prob." above.



P18-13 PCBs MAP OF DATA POINTS

Certification Unit: P18-13

03:42 PM 13-May-98

		Certification Analytes			Ecological COCs			
Map	Sample ID	Arsenic	Beryllium	Aroclor-1260	Aluminum	Lead	Manganese	Molybdenum
1	P18-13C-604590	10 J	0.81 U	50 UJ	13600 -	13.9 -	700 -	0.96 U
2	P18-13C-615406	6.1 J	0.45 U	46 UJ	7170 -	7.5 -	447 -	1.3 -
3	P18-13C-640506	12.8 J	1.2 -	53 UJ	17200 -	14.6 -	615 -	1 U
4	P18-13C-676573	6.4 J	0.44 U	49 UJ	8260 -	12.6 -	495 -	0.95 U
5	P18-13C-684539	7.6 -	0.57 U	49 UJ	9040 -	13.2 -	537 -	0.94 U
6	P18-13C-727596	4.8 J	0.32 U	44 UJ	4060 -	7.5 -	347 -	1.1 -
7	P18-13C-740481	7.8 -	0.66 U	51 UJ	11000 -	14.3 -	645 -	0.97 U
8	P18-13C-766516	8.3 -	0.71 U	48 UJ	12400 -	11.4 -	593 -	0.93 U
9	P18-13C-777423	4.6 J	0.42 U	47 UJ	7360 -	6.4 -	283 -	0.91 U
	FRL (* = BTV)	12	1.6	130	10103	200 *	1500 *	10 *
	Units	mg/kg	mg/kg	ug/kg	mg/kg	mg/kg	mg/kg	mg/kg
	Background UCL	5.6	0.6	n/a	8812	18.9	814	n/a
	Background 95%	8.2	0.6	n/a	11880	26.4	1348	n/a
	Samples	9	9	9	9	9	9	9
	Hits	9	1	0	9	9	9	2
	Max	12.80	1.20	26.5	17200	14.6	700	1.30
	Mean	7.60	0.38	24.3	10010	11.3	518	0.64
	St.Dev.	2.59	0.32	1.3	3965	3.3	139	0.32
	UCL	8.81	0.53	24.9	11856	12.8	583	0.79
	t-Stat	5.09	10.58	235.14	--	--	--	--
	Prob.	0.0%	0.0%	0.0%	--	--	--	--
	Pass/Fail	Pass	Pass	Pass	--	--	--	--

NOTE: One half of the reported detection level was used in the calculations for results reported as below the detection limit (qualified with "U"). Duplicates were averaged before calculations were performed.

KEY

FRL - Final Remedial Level

Background UCL - Upper Confidence Level (95% one-sided) on the Mean Background concentration.

Background 95% - 95th Percentile of the background dataset.

Samples - Number of distinct sample locations in the analysis (see NOTE above).

Hits - Analyte positively detected in the sample.

Max - The maximum sample result.

Mean - The mean or average concentration. (See NOTE above).

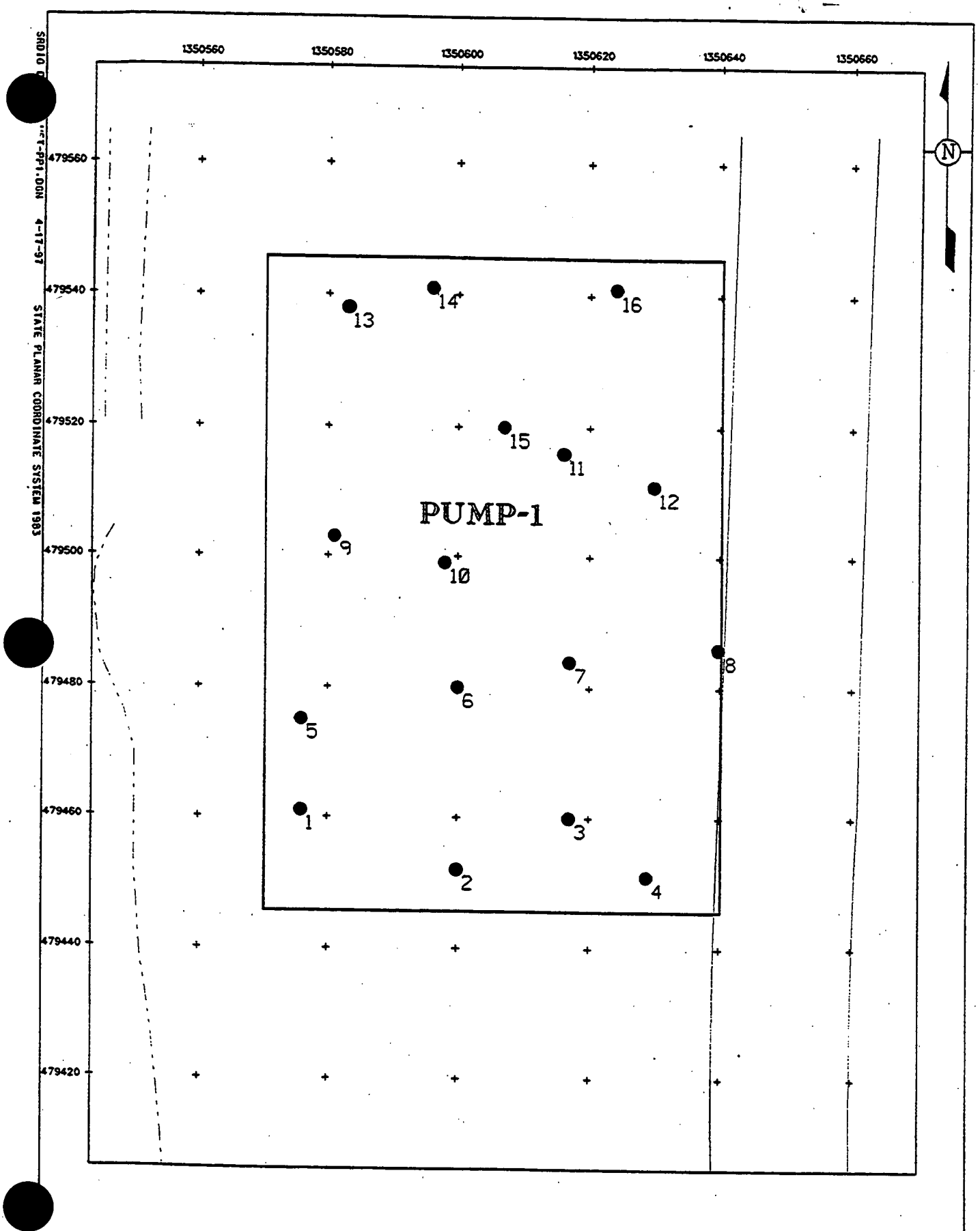
St.Dev. - The standard deviation of the sample concentrations. (See NOTE above).

UCL - Upper Confidence Level (95% one-sided) on the Mean concentration.

t-Stat - The calculated t-statistic for the mean concentration compared to the FRL. (See the Certification Report).

Prob. - The probability (based on the t-Stat) that the true CU mean exceeds the FRL. Acceptable probability for primary COCs is 5% and 10% for seconday COCs.

Pass/Fail - Pass or Fail result from the t-Test based on "t-Stat" above. The associated probability is "Prob." above.



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PUMP-1 PCBs MAP OF DATA POINTS

Certification Unit: PUMP-1 01:37 PM 26-May-98

Map	Sample ID	Certification Analytes			Ecological COCs			
		Arsenic	Beryllium	Aroclor-1260	Aluminum	Lead	Manganese	Molybdenum
1	PUMP1-C-1-MP	8 -	1.4 U	43 U	13800 J	19.4 -	1010 J	1 UJ
2	PUMP1-C-2-MP	9.1 -	0.93 U	38 U	15200 J	13.9 -	503 J	0.92 UJ
3	PUMP1-C-3-MP	8.5 -	0.9 U		13200 J	16.2 -	633 J	0.97 UJ
4	PUMP1-C-4-MP	10.7 -	1.1 U	42 U	16300 J	20.7 -	1070 J	1.1 UJ
5	PUMP1-C-5-MP	8 -	1.5 U	44 U	17600 J	17 -	1380 J	1.1 UJ
6	PUMP1-C-6-MP	8.6 -	1.1 U	40 U	16700 J	15.4 -	766 J	0.96 UJ
7	PUMP1-C-7-MP	8.2 -	0.9 U	39 U	13300 J	14.9 -	659 J	0.95 UJ
8	PUMP1-C-8-MP	10 -	1 U	38 U	15500 J	16.3 -	844 J	0.93 UJ
9	PUMP1-C-9-MP	10.2 -	1.2 U	39 U	16400 J	16.7 -	875 J	0.95 UJ
10	PUMP1-C-10-MP	9.3 -	0.92 U	37 U	15300 J	18 -	658 J	0.89 UJ
11	PUMP1-C-11-MP	9.2 -	0.92 U	38 U	11300 J	15.8 -	663 J	0.93 UJ
11	PUMP1-C-11-MP-D	9.9 -	1 U	40 U	15100 J	16.6 -	672 J	0.98 UJ
12	PUMP1-C-12-MP	8.2 -	0.86 U	39 U	13500 J	13.6 -	554 J	0.96 UJ
13	PUMP1-C-13-MP	7.2 -	0.75 U	38 U	10600 J	17.9 -	564 J	0.92 UJ
14	PUMP1-C-14-MP	12.6 -	1.1 U	39 U	16600 J	29.2 -	909 J	0.95 UJ
15	PUMP1-C-15-MP	7.9 -	0.76 U	40 U	12000 J	28.9 -	871 J	0.98 UJ
16	PUMP1-C-16-MP	8.5 -	0.95 U	37 U	15200 J	13.9 -	736 J	0.9 UJ
	FRL (* = BTV)	12	1.5	130	10103	200 *	1500 *	10 *
	Units	mg/kg	mg/kg	ug/kg	mg/kg	mg/kg	mg/kg	mg/kg
	Background UCL	5.6	0.6	n/a	8812	18.9	814	n/a
	Background 95%	8.2	0.6	n/a	11880	26.4	1348	n/a
	Samples	16	16	15	16	16	16	16
	Hits	16	0	0	16	16	16	0
	Max	**12.6**	**0.75**	**22.00**	**17600**	**29.2**	**1380**	**0.55**
	Mean	9.0	0.51	19.73	14650	18.0	794	0.48
	St.Dev.	1.3	0.10	1.03	1928	4.7	227	0.03
	UCL	**9.5**	**0.55**	**20.09**	**15296**	**19.6**	**870**	**0.49**
	t-Stat	8.83	38.08	413.50	--	--	--	--
	Prob.	0.0%	0.0%	0.0%	--	--	--	--
	Pass/Fail	**Pass**	**Pass**	**Pass**	--	--	--	--

NOTE: One half of the reported detection level was used in the calculations for results reported as below the detection limit (qualified with "U"). Duplicates were averaged before calculations were performed.

KEY

FRL - Final Remedial Level
Background UCL - Upper Confidence Level (95% one-sided) on the Mean Background concentration.
Background 95% - 95th Percentile of the background dataset.
Samples - Number of distinct sample locations in the analysis (see NOTE above).
Hits - Analyte positively detected in the sample.
Max - The maximum sample result.
Mean - The mean or average concentration. (See NOTE above).
St.Dev. - The standard deviation of the sample concentrations. (See NOTE above).
UCL - Upper Confidence Level (95% one-sided) on the Mean concentration.
t-Stat - The calculated t-statistic for the mean concentration compared to the FRL. (See the Certification Report).
Prob. - The probability (based on the t-Stat) that the true CU mean exceeds the FRL. Acceptable probability for primary COCs is 5% and 10% for seconday COCs.
Pass/Fail - Pass or Fail result from the t-Test based on "t-Stat" above. The associated probability is "Prob." above.

Appendix B

Certification Data Summary Tables

APPENDIX B - DATA SUMMARY TABLES
A1PI CERTIFICATION REPORT
KEY AND EXAMPLE CALCULATION

This Appendix contains all the data used to support the statistics presented in Appendix A. The following is a key and brief description of the fields presented in this Appendix.

CU Name The name of the Certification Unit as described in Section 2.0. There are 81 CUs including Q18-40A and Q18-40B. The Appendix is sorted by CU Name.

Parameter This field lists the COC. The COCs presented in this Appendix include: aroclor-1260, arsenic, beryllium, cesium-137, total uranium, radium-226, radium-228, thorium-228, thorium-230, and thorium-232. Presented in Appendix C are the ecological COCs: aluminum, manganese, molybdenum.

CU Type This field lists the type of CU, and where this data is presented in Appendix A. For example, A1PIST-1 arsenic results are presented in the A1PIST-1 metals CU, while A1PIST-1 radium-226 results are presented in the radiological CU.

Sample ID The unique number assigned to each discrete sample point in the field.

Suffix For some results multiple analytical runs were performed in accordance with the analytical requirements. For example, if the original run of the sample shows a matrix problem, the sample is re-run. Both the original analysis and the re-run are reported and presented in Appendix B. In the case noted above, the original run would have a suffix of "None" while the re-analysis would have a suffix of "RE." During the validation process the best sample result is determined, and a validation qualifier is added to both sets of data to cue the user which result to use. One result is either rejected (R) or marked as (Z).

Northing The Northing coordinate, which allows the user the map the data with the Easting coordinate.

Easting The Easting coordinate, which allows the used to map the data with the Northing coordinate.

Sample Date The sample collection date in the field.

Lab Result The actual analytical value reported by the laboratory.

Lab TPU 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)

Qualifier The qualifier reported from the lab. For inorganic and organic data these qualifiers are consistent with the CLP Qualifiers. For radiological parameters non-detect values are assigned a U qualifier.

Lab Units The units in which the Laboratory Result is reported.

Val. Result The result based on the validation process. During the validation process, sample results may be adjusted. For example, if the laboratory result is less than the associated Minimum Detectable Concentration (MDC), the validation result becomes the MDC value.

Lab TPU Validation TPU - The TPU based on the validation process.

Qualifier Validation Qualifier - The qualifier assigned as a result of the data validation process. The following qualifiers may be assigned to the data:

- \- 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; useable for decision-making purposes
- **UJ** Undetected result; detection limit is considered estimated or imprecise; useable for decision-making purposes
- **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.

Units The units corresponding to the validation result.

Duplicate of The sample number of which this result is a duplicate of. These are field duplicate results.

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EXAMPLE CALCULATION

The data presented in this Appendix requires various data reduction steps in order to calculate the statistics used for certification as presented in Appendix A. The following is an example of the data reduction process for CU Q18-40 for total uranium. The following table will be used to describe the process. Note that all the columns in the table can be found in Appendix B, with the exception of G and N. The "MDC" (Minimum Detectable Concentration) data (Column G) is part of the data package as reported from the laboratory, and "Value for Stats" (Column N) is part of the statistics data reduction.

			Laboratory Data				Validation Data			Total Uranium Data			Value
Sample ID	Suffix	Parameter	Result	Units	Qualifier	MDC	Result	Qualifier	Units	Result	Units	Qualifier	for Stats
Q18-40C-811654	NONE	Uranium-238	2.57	pCi/g	U	3.9	3.9	U	pCi/g	11.7	ug/kg	U	5.8
Q18-40C-870874	NONE	Uranium-238	2.97	pCi/g	U	4.8	4.8	U	pCi/g	14.4	ug/kg	U	7.2
Q18-40C-872764	NONE	Uranium-238	.53	pCi/g	U	3	3	U	pCi/g	9.0	ug/kg	U	4.5
Q18-40C-891658	NONE	Uranium-238	2.81	pCi/g	U	2.9	2.9	U	pCi/g	8.7	ug/kg	U	4.3
Q18-40C-898975	NONE	Uranium-238	3.25	pCi/g	U	4.3	4.3	U	pCi/g	12.9	ug/kg	U	6.4
Q18-40C-914679	NONE	Uranium-238	7.56	pCi/g		6.6	7.56	J	pCi/g	22.7	ug/kg	J	22.7
Q18-40C-920785	NONE	Uranium-238	-1.6	pCi/g	U	2.6	2.6	U	pCi/g	7.8	ug/kg	U	3.9
Q18-40C-926871	NONE	Uranium-238	.575	pCi/g	U	3.2	3.2	U	pCi/g	9.6	ug/kg	U	4.8
Q18-40C-977977	NONE	Uranium-238	2.39	pCi/g	U	3.7	3.7	U	pCi/g	11.1	ug/kg	U	6.9
Q18-40C-977977-D	NONE	Uranium-238	2.33	pCi/g	U	5.5	5.5	U	pCi/g	16.5	ug/kg	U	N/A
Q18-40C-981808	NONE	Uranium-238	-.223	pCi/g	U	2.6	2.6	U	pCi/g	7.8	ug/kg	U	3.9
Q18-40C-986850	NONE	Uranium-238	.41	pCi/g	U	3.2	3.2	U	pCi/g	9.6	ug/kg	U	4.8
Q18-40C-987728	NONE	Uranium-238	1.59	pCi/g	U	4.4	4.4	U	pCi/g	13.2	ug/kg	U	6.6
Column A	*B*	*C*	*D*	*E*	*F*	*G*	*H*	*I*	*J*	*K*	*L*	*M*	*N*

DATA REDUCTION PROCESS

1. The laboratory reports the data in columns D, E, F, and G. In this example the parameter is uranium-238, which is used to calculate total uranium. Note that the "U" qualifier (non-detect) is assigned to all the results except Q18-40C-914679.

2. The laboratory data is then evaluated during the data validation process, and the validators then provide columns H, I, and J. Note that the validation results are different than the validation result. For each radionuclide the laboratory reports the measured activity (result) and the associated MDC. The MDC can be considered as the limit of detection, which is sample specific and is provided in the data package. For A1PI the analytical contractual requirements set the Highest Allowable Minimum Detectable Concentration (HAMDC) as one-half the FRL, except uranium-238 (used to calculate total uranium) which was set at 8 pCi/g. Also, the contractual requirements dictated that when the measured activity for a sample was below the sample MDC, the laboratory reported the measurement activity (not the MDC) as the result. During the validation process, the result was adjusted to the MDC, which

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accounts for the difference. For example, in sample Q18-40C-811654 the reported laboratory result for uranium-238 is 2.57 pCi/g, however the MDC is 3.9 pCi/g. Therefore the validators adjusted the result to the MDC.

3. In A1PI, the total uranium value was calculated from the gamma uranium-238 measurement using the following formula:

   Total Uranium (mg/kg)= 2.998544 x gamma uranium-238 measurement (pCi/g).

   For example, in sample Q18-40C-811654 the total uranium result is 11.7 ug/kg, which is calculated from the validation result of 3.9 pCi/g. The data qualifier from uranium-238 data is carried over and assigned to the total uranium result. This information is provided in Columns K, L, and M. Also note that since the total uranium value is a calculated result from the uranium-238 result, in Appendix A the laboratory fields are marked as N/A.

4. In order to calculate the certification statistics the following actions are taken:
   a. For the statistics the validated data is used, not the laboratory data.
   b. If multiple analyses are available as a result of re-runs (results will have different suffix codes) the validation qualifiers are used to determine the best value.
   c. One-half of the reported value is used for non-detects (U). For example, for sample Q18-40C-811654 the value used for the statistics is 5.8 ug/kg.
   d. Duplicate samples are averaged. For example, for sample Q18-40C-977977 a field duplicate (Q18-40C-977977-D) is also reported. The value used for the statistics is the average of these two numbers.

000301

A1P1 CERTIFICATION REPORT - APPENDIX B

							Laboratory Data				Validation Data				
CU Name	CU Type	Parameter	Sample ID	Suffix	Northing	Easting	Sample Date	Lab Result	TPU	Qualifier	Units	Val. Result	TPU	Qualifier	Units	Duplicate of
A1P1ST-1	M	Arsenic	A1P1ST1-10C-M	NONE	482766	1351075	3/11/97	6.30			mg/kg	6.30		-	mg/kg	
A1P1ST-1	M	Arsenic	A1P1ST1-11C-M	NONE	482779	1351110	3/11/97	6.80			mg/kg	6.80		-	mg/kg	
A1P1ST-1	M	Arsenic	A1P1ST1-12C-M	NONE	482786	1351160	3/11/97	9.20			mg/kg	9.20		-	mg/kg	
A1P1ST-1	M	Arsenic	A1P1ST1-13C-M	NONE	482810	1351050	3/11/97	8.30			mg/kg	8.30		-	mg/kg	
A1P1ST-1	M	Arsenic	A1P1ST1-13C-M-D	NONE	482810	1351050	3/11/97	7.50			mg/kg	7.50		-	mg/kg	A1P1ST1-13C-M
A1P1ST-1	M	Arsenic	A1P1ST1-14C-M	NONE	482792	1351052	3/11/97	9.00			mg/kg	9.00		-	mg/kg	
A1P1ST-1	M	Arsenic	A1P1ST1-15C-M	NONE	482815	1351122	3/11/97	6.10			mg/kg	6.10		-	mg/kg	
A1P1ST-1	M	Arsenic	A1P1ST1-16C-M	NONE	482806	1351131	3/11/97	7.90			mg/kg	7.90		-	mg/kg	
A1P1ST-1	M	Arsenic	A1P1ST1-2C-M	NONE	482729	1351058	3/12/97	9.60		N	mg/kg	9.60		J	mg/kg	
A1P1ST-1	M	Arsenic	A1P1ST1-3C-M	NONE	482722	1351092	3/12/97	7.80		N	mg/kg	7.80		J	mg/kg	
A1P1ST-1	M	Arsenic	A1P1ST1-4C-M	NONE	482702	1351179	3/12/97	10.20		N	mg/kg	10.20		J	mg/kg	
A1P1ST-1	M	Arsenic	A1P1ST1-5C-M	NONE	482761	1351024	3/11/97	10.30			mg/kg	10.30		-	mg/kg	
A1P1ST-1	M	Arsenic	A1P1ST1-6C-M	NONE	482739	1351045	3/11/97	9.40			mg/kg	9.40		-	mg/kg	
A1P1ST-1	M	Arsenic	A1P1ST1-7C-M	NONE	482751	1351117	3/11/97	10.00			mg/kg	10.00		-	mg/kg	
A1P1ST-1	M	Arsenic	A1P1ST1-9C-M	NONE	482770	1351023	3/12/97	7.10		N	mg/kg	7.10		J	mg/kg	
A1P1ST-1	M	Beryllium	A1P1ST1-10C-M	NONE	482766	1351075	3/11/97	0.80			mg/kg	0.80		-	mg/kg	
A1P1ST-1	M	Beryllium	A1P1ST1-11C-M	NONE	482779	1351110	3/11/97	0.71			mg/kg	0.71		-	mg/kg	
A1P1ST-1	M	Beryllium	A1P1ST1-12C-M	NONE	482786	1351160	3/11/97	1.00			mg/kg	1.00		-	mg/kg	
A1P1ST-1	M	Beryllium	A1P1ST1-13C-M	NONE	482810	1351050	3/11/97	0.84			mg/kg	0.84		-	mg/kg	
A1P1ST-1	M	Beryllium	A1P1ST1-13C-M-D	NONE	482810	1351050	3/11/97	0.77			mg/kg	0.77		-	mg/kg	A1P1ST1-13C-M
A1P1ST-1	M	Beryllium	A1P1ST1-14C-M	NONE	482792	1351052	3/11/97	1.00			mg/kg	1.00		-	mg/kg	
A1P1ST-1	M	Beryllium	A1P1ST1-15C-M	NONE	482815	1351122	3/11/97	0.60		B	mg/kg	0.60		-	mg/kg	
A1P1ST-1	M	Beryllium	A1P1ST1-16C-M	NONE	482806	1351131	3/11/97	0.88			mg/kg	0.88		-	mg/kg	
A1P1ST-1	M	Beryllium	A1P1ST1-2C-M	NONE	482729	1351058	3/12/97	0.72			mg/kg	0.72		-	mg/kg	
A1P1ST-1	M	Beryllium	A1P1ST1-3C-M	NONE	482722	1351092	3/12/97	0.87			mg/kg	0.87		-	mg/kg	
A1P1ST-1	M	Beryllium	A1P1ST1-4C-M	NONE	482702	1351179	3/12/97	1.20			mg/kg	1.20		-	mg/kg	
A1P1ST-1	M	Beryllium	A1P1ST1-5C-M	NONE	482761	1351024	3/11/97	1.00			mg/kg	1.00		-	mg/kg	
A1P1ST-1	M	Beryllium	A1P1ST1-6C-M	NONE	482739	1351045	3/11/97	1.10			mg/kg	1.10		-	mg/kg	
A1P1ST-1	M	Beryllium	A1P1ST1-7C-M	NONE	482751	1351117	3/11/97	1.00			mg/kg	1.00		-	mg/kg	
A1P1ST-1	M	Beryllium	A1P1ST1-9C-M	NONE	482770	1351023	3/12/97	0.72			mg/kg	0.72		-	mg/kg	
A1P1ST-1	R	Moisture Content	A1P1ST1-10C-R	NONE	482766	1351075	3/11/97	13.40			Percent			NV	Percent	
A1P1ST-1	R	Moisture Content	A1P1ST1-11C-R	NONE	482779	1351110	3/11/97	15.10			Percent			NV	Percent	
A1P1ST-1	R	Moisture Content	A1P1ST1-12C-R	NONE	482786	1351160	3/11/97	16.90			Percent			NV	Percent	
A1P1ST-1	R	Moisture Content	A1P1ST1-13C-R	NONE	482810	1351050	3/11/97	17.20			Percent			NV	Percent	
A1P1ST-1	R	Moisture Content	A1P1ST1-13C-R-D	NONE	482810	1351050	3/11/97	17.60			Percent			NV	Percent	A1P1ST1-13C-R
A1P1ST-1	R	Moisture Content	A1P1ST1-14C-R	NONE	482792	1351052	3/11/97	19.80			Percent			NV	Percent	
A1P1ST-1	R	Moisture Content	A1P1ST1-15C-R	NONE	482815	1351122	3/11/97	18.80			Percent			NV	Percent	
A1P1ST-1	R	Moisture Content	A1P1ST1-16C-R	NONE	482806	1351131	3/11/97	19.60			Percent			NV	Percent	
A1P1ST-1	R	Moisture Content	A1P1ST1-2C-R	NONE	482729	1351058	3/12/97	17.62			Percent			NV	Percent	
A1P1ST-1	R	Moisture Content	A1P1ST1-3C-R	NONE	482722	1351092	3/12/97	17.75			Percent			NV	Percent	

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A1P1 CERTIFICATION REPORT - APPENDIX B

							Laboratory Data				Validation Data				
CU Name	CU Type	Parameter	Sample ID	Suffix	Northing	Easting	Sample Date	Lab Result	TPU	Qualifier	Units	Val. Result	TPU	Qualifier	Units	Duplicate of
A1P1ST-1	R	Moisture Content	A1P1ST1-4C-R	NONE	482702	1351179	3/12/97	20.24			Percent			NV	Percent	
A1P1ST-1	R	Moisture Content	A1P1ST1-5C-R	NONE	482761	1351024	3/11/97	21.20			Percent			NV	Percent	
A1P1ST-1	R	Moisture Content	A1P1ST1-6C-R	NONE	482739	1351045	3/11/97	19.90			Percent			NV	Percent	
A1P1ST-1	R	Moisture Content	A1P1ST1-7C-R	NONE	482751	1351117	3/11/97	12.80			Percent			NV	Percent	
A1P1ST-1	R	Moisture Content	A1P1ST1-8C-R	NONE	482747	1351130	3/11/97	13.70			Percent			NV	Percent	
A1P1ST-1	R	Moisture Content	A1P1ST1-9C-R	NONE	482770	1351023	3/12/97	18.70			Percent	18.70		NV	Percent	
A1P1ST-1	R	Radium-226	A1P1ST1-10C-R	NONE	482766	1351075	3/11/97	1.10	0.14		pCi/g	1.10	0.14	-	pCi/g	
A1P1ST-1	R	Radium-226	A1P1ST1-11C-R	NONE	482779	1351110	3/11/97	1.10	0.16		pCi/g	1.10	0.16	-	pCi/g	
A1P1ST-1	R	Radium-226	A1P1ST1-12C-R	NONE	482786	1351160	3/11/97	1.20	0.16		pCi/g	1.20	0.16	-	pCi/g	
A1P1ST-1	R	Radium-226	A1P1ST1-13C-R	NONE	482810	1351050	3/11/97	1.40	0.16		pCi/g	1.40	0.16	-	pCi/g	
A1P1ST-1	R	Radium-226	A1P1ST1-13C-R-D	NONE	482810	1351050	3/11/97	1.40	0.15		pCi/g	1.40	0.15	-	pCi/g	A1P1ST1-13C-R
A1P1ST-1	R	Radium-226	A1P1ST1-14C-R	NONE	482792	1351052	3/11/97	1.30	0.15		pCi/g	1.30	0.15	-	pCi/g	
A1P1ST-1	R	Radium-226	A1P1ST1-15C-R	NONE	482815	1351122	3/11/97	1.40	0.16		pCi/g	1.40	0.16	-	pCi/g	
A1P1ST-1	R	Radium-226	A1P1ST1-16C-R	NONE	482806	1351131	3/11/97	1.50	0.14		pCi/g	1.50	0.14	-	pCi/g	
A1P1ST-1	R	Radium-226	A1P1ST1-2C-R	NONE	482729	1351058	3/12/97	1.20	0.19		pCi/g	1.24	0.19	-	pCi/g	
A1P1ST-1	R	Radium-226	A1P1ST1-3C-R	NONE	482722	1351092	3/12/97	1.30	0.21		pCi/g	1.32	0.21	-	pCi/g	
A1P1ST-1	R	Radium-226	A1P1ST1-4C-R	NONE	482702	1351179	3/12/97	1.20	0.19		pCi/g	1.20	0.19	-	pCi/g	
A1P1ST-1	R	Radium-226	A1P1ST1-5C-R	NONE	482761	1351024	3/11/97	1.50	0.17		pCi/g	1.50	0.17	-	pCi/g	
A1P1ST-1	R	Radium-226	A1P1ST1-6C-R	NONE	482739	1351045	3/11/97	1.60	0.19		pCi/g	1.60	0.19	-	pCi/g	
A1P1ST-1	R	Radium-226	A1P1ST1-7C-R	NONE	482751	1351117	3/11/97	1.10	0.16		pCi/g	1.10	0.16	-	pCi/g	
A1P1ST-1	R	Radium-226	A1P1ST1-8C-R	NONE	482747	1351130	3/11/97	1.20	0.15		pCi/g	1.20	0.15	-	pCi/g	
A1P1ST-1	R	Radium-226	A1P1ST1-9C-R	NONE	482770	1351023	3/12/97	1.40	0.27		pCi/g	1.41	0.27	-	pCi/g	
A1P1ST-1	R	Radium-228	A1P1ST1-10C-R	NONE	482766	1351075	3/11/97	0.97	0.27		pCi/g	0.97	0.27	-	pCi/g	
A1P1ST-1	R	Radium-228	A1P1ST1-11C-R	NONE	482779	1351110	3/11/97	0.93	0.26		pCi/g	0.93	0.26	-	pCi/g	
A1P1ST-1	R	Radium-228	A1P1ST1-12C-R	NONE	482786	1351160	3/11/97	1.30	0.34		pCi/g	1.30	0.34	-	pCi/g	
A1P1ST-1	R	Radium-228	A1P1ST1-13C-R	NONE	482810	1351050	3/11/97	1.50	0.39		pCi/g	1.50	0.39	-	pCi/g	
A1P1ST-1	R	Radium-228	A1P1ST1-13C-R-D	NONE	482810	1351050	3/11/97	1.30	0.35		pCi/g	1.30	0.35	-	pCi/g	A1P1ST1-13C-R
A1P1ST-1	R	Radium-228	A1P1ST1-14C-R	NONE	482792	1351052	3/11/97	1.10	0.34		pCi/g	1.10	0.34	-	pCi/g	
A1P1ST-1	R	Radium-228	A1P1ST1-15C-R	NONE	482815	1351122	3/11/97	1.40	0.37		pCi/g	1.40	0.37	-	pCi/g	
A1P1ST-1	R	Radium-228	A1P1ST1-16C-R	NONE	482806	1351131	3/11/97	1.40	0.37		pCi/g	1.40	0.37	-	pCi/g	
A1P1ST-1	R	Radium-228	A1P1ST1-2C-R	NONE	482729	1351058	3/12/97	1.30	0.26		pCi/g	1.33	0.26	-	pCi/g	
A1P1ST-1	R	Radium-228	A1P1ST1-3C-R	NONE	482722	1351092	3/12/97	1.40	0.31		pCi/g	1.38	0.31	-	pCi/g	
A1P1ST-1	R	Radium-228	A1P1ST1-4C-R	NONE	482702	1351179	3/12/97	1.20	0.25		pCi/g	1.22	0.25	-	pCi/g	
A1P1ST-1	R	Radium-228	A1P1ST1-5C-R	NONE	482761	1351024	3/11/97	1.30	0.36		pCi/g	1.30	0.36	-	pCi/g	
A1P1ST-1	R	Radium-228	A1P1ST1-6C-R	NONE	482739	1351045	3/11/97	1.30	0.36		pCi/g	1.30	0.36	-	pCi/g	
A1P1ST-1	R	Radium-228	A1P1ST1-7C-R	NONE	482751	1351117	3/11/97	1.20	0.38		pCi/g	1.20	0.36	-	pCi/g	
A1P1ST-1	R	Radium-228	A1P1ST1-8C-R	NONE	482747	1351130	3/11/97	1.20	0.36		pCi/g	1.20	0.36	-	pCi/g	
A1P1ST-1	R	Radium-228	A1P1ST1-9C-R	NONE	482770	1351023	3/12/97	1.10	0.24		pCi/g	1.11	0.24	-	pCi/g	
A1P1ST-1	R	Thorium-228	A1P1ST1-10C-R	NONE	482766	1351075	3/11/97	0.98	0.34		pCi/g	0.98	0.34	J	pCi/g	
A1P1ST-1	R	Thorium-228	A1P1ST1-11C-R	NONE	482779	1351110	3/11/97	1.10	0.43		pCi/g	1.10	0.43	J	pCi/g	

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A1P1 CERTIFICATION REPORT - APPENDIX B

								Laboratory Data				Validation Data				
CU Name	CU Type	Parameter	Sample ID	Suffix	Northing	Easting	Sample Date	Lab Result	TPU	Qualifier	Units	Val. Result	TPU	Qualifier	Units	Duplicate of
A1P1ST-1	R	Thorium-228	A1P1ST1-12C-R	NONE	482786	1351160	3/11/97	1.50	0.57		pCi/g	1.50	0.57	-	pCi/g	
A1P1ST-1	R	Thorium-228	A1P1ST1-13C-R	NONE	482810	1351050	3/11/97	1.40	0.52		pCi/g	1.40	0.52	-	pCi/g	
A1P1ST-1	R	Thorium-228	A1P1ST1-13C-R-D	NONE	482810	1351050	3/11/97	1.40	0.55		pCi/g	1.40	0.55	-	pCi/g	A1P1ST1-13C-R
A1P1ST-1	R	Thorium-228	A1P1ST1-14C-R	NONE	482792	1351052	3/11/97	1.40	0.55		pCi/g	1.40	0.55	-	pCi/g	
A1P1ST-1	R	Thorium-228	A1P1ST1-15C-R	NONE	482815	1351122	3/11/97	1.30	0.55		pCi/g	1.30	0.55	-	pCi/g	
A1P1ST-1	R	Thorium-228	A1P1ST1-16C-R	NONE	482806	1351131	3/11/97	1.40	0.53		pCi/g	1.40	0.53	-	pCi/g	
A1P1ST-1	R	Thorium-228	A1P1ST1-2C-R	NONE	482729	1351058	3/12/97	1.20	0.26		pCi/g	1.19	0.25	-	pCi/g	
A1P1ST-1	R	Thorium-228	A1P1ST1-3C-R	NONE	482722	1351092	3/12/97	1.20	0.27		pCi/g	1.23	0.26	-	pCi/g	
A1P1ST-1	R	Thorium-228	A1P1ST1-4C-R	NONE	482702	1351179	3/12/97	1.30	0.27		pCi/g	1.30	0.25	J	pCi/g	
A1P1ST-1	R	Thorium-228	A1P1ST1-5C-R	NONE	482761	1351024	3/11/97	1.70	0.64		pCi/g	1.70	0.64	-	pCi/g	
A1P1ST-1	R	Thorium-228	A1P1ST1-6C-R	NONE	482739	1351045	3/11/97	1.50	0.54		pCi/g	1.50	0.54	-	pCi/g	
A1P1ST-1	R	Thorium-228	A1P1ST1-7C-R	NONE	482751	1351117	3/11/97	0.98	0.38		pCi/g	0.98	0.38	J	pCi/g	
A1P1ST-1	R	Thorium-228	A1P1ST1-8C-R	NONE	482747	1351130	3/11/97	1.20	0.45		pCi/g	1.20	0.45	J	pCi/g	
A1P1ST-1	R	Thorium-228	A1P1ST1-9C-R	NONE	482770	1351023	3/12/97	1.30	0.29		pCi/g	1.30	0.27	-	pCi/g	
A1P1ST-1	R	Thorium-232	A1P1ST1-10C-R	NONE	482766	1351075	3/11/97	0.76	0.26		pCi/g	0.76	0.26	-	pCi/g	
A1P1ST-1	R	Thorium-232	A1P1ST1-11C-R	NONE	482779	1351110	3/11/97	0.84	0.32		pCi/g	0.84	0.32	J	pCi/g	
A1P1ST-1	R	Thorium-232	A1P1ST1-12C-R	NONE	482786	1351160	3/11/97	1.30	0.50		pCi/g	1.30	0.50	-	pCi/g	
A1P1ST-1	R	Thorium-232	A1P1ST1-13C-R	NONE	482810	1351050	3/11/97	1.10	0.44		pCi/g	1.10	0.44	-	pCi/g	
A1P1ST-1	R	Thorium-232	A1P1ST1-13C-R-D	NONE	482810	1351050	3/11/97	1.30	0.49		pCi/g	1.30	0.49	-	pCi/g	A1P1ST1-13C-R
A1P1ST-1	R	Thorium-232	A1P1ST1-14C-R	NONE	482792	1351052	3/11/97	1.20	0.46		pCi/g	1.20	0.46	-	pCi/g	
A1P1ST-1	R	Thorium-232	A1P1ST1-15C-R	NONE	482815	1351122	3/11/97	1.10	0.49		pCi/g	1.10	0.49	-	pCi/g	
A1P1ST-1	R	Thorium-232	A1P1ST1-16C-R	NONE	482806	1351131	3/11/97	1.40	0.52		pCi/g	1.40	0.52	-	pCi/g	
A1P1ST-1	R	Thorium-232	A1P1ST1-2C-R	NONE	482729	1351058	3/12/97	1.10	0.23		pCi/g	1.15	0.23	-	pCi/g	
A1P1ST-1	R	Thorium-232	A1P1ST1-3C-R	NONE	482722	1351092	3/12/97	1.00	0.22		pCi/g	1.03	0.22	-	pCi/g	
A1P1ST-1	R	Thorium-232	A1P1ST1-4C-R	NONE	482702	1351179	3/12/97	1.10	0.22		pCi/g	1.15	0.22	J	pCi/g	
A1P1ST-1	R	Thorium-232	A1P1ST1-5C-R	NONE	482761	1351024	3/11/97	1.60	0.59		pCi/g	1.60	0.59	-	pCi/g	
A1P1ST-1	R	Thorium-232	A1P1ST1-6C-R	NONE	482739	1351045	3/11/97	1.20	0.44		pCi/g	1.20	0.44	-	pCi/g	
A1P1ST-1	R	Thorium-232	A1P1ST1-7C-R	NONE	482751	1351117	3/11/97	0.86	0.33		pCi/g	0.86	0.33	-	pCi/g	
A1P1ST-1	R	Thorium-232	A1P1ST1-8C-R	NONE	482747	1351130	3/11/97	1.00	0.39		pCi/g	1.00	0.39	J	pCi/g	
A1P1ST-1	R	Thorium-232	A1P1ST1-9C-R	NONE	482770	1351023	3/12/97	1.20	0.24		pCi/g	1.19	0.24	-	pCi/g	
A1P1ST-1	R	Uranium, Total	A1P1ST1-10C-R	NONE	482766	1351075	3/11/97				ug/g	3.30		U	ug/g	
A1P1ST-1	R	Uranium, Total	A1P1ST1-11C-R	NONE	482779	1351110	3/11/97				ug/g	2.91		U	ug/g	
A1P1ST-1	R	Uranium, Total	A1P1ST1-12C-R	NONE	482786	1351160	3/11/97				ug/g	6.30	2.34	-	ug/g	
A1P1ST-1	R	Uranium, Total	A1P1ST1-13C-R	NONE	482810	1351050	3/11/97				ug/g	3.90	2.28	J	ug/g	
A1P1ST-1	R	Uranium, Total	A1P1ST1-13C-R-D	NONE	482810	1351050	3/11/97				ug/g	4.80	1.71	-	ug/g	A1P1ST1-13C-R
A1P1ST-1	R	Uranium, Total	A1P1ST1-14C-R	NONE	482792	1351052	3/11/97				ug/g	3.90	1.75	-	ug/g	
A1P1ST-1	R	Uranium, Total	A1P1ST1-15C-R	NONE	482815	1351122	3/11/97				ug/g	5.10	2.19	-	ug/g	
A1P1ST-1	R	Uranium, Total	A1P1ST1-16C-R	NONE	482806	1351131	3/11/97				ug/g	6.30	2.46	-	ug/g	
A1P1ST-1	R	Uranium, Total	A1P1ST1-2C-R	NONE	482729	1351058	3/12/97				ug/g	9.51	4.20	-	ug/g	
A1P1ST-1	R	Uranium, Total	A1P1ST1-3C-R	NONE	482722	1351092	3/12/97				ug/g	8.91	5.92	J	ug/g	

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								Laboratory Data				Validation Data				
CU Name	CU Type	Parameter	Sample ID	Suffix	Northing	Easting	Sample Date	Lab Result	TPU	Qualifier	Units	Val. Result	TPU	Qualifier	Units	Duplicate of
A1P1ST-1	R	Uranium, Total	A1P1ST1-4C-R	NONE	482702	1351179	3/12/97				ug/g	24.45	6.03	-	ug/g	
A1P1ST-1	R	Uranium, Total	A1P1ST1-5C-R	NONE	482761	1351024	3/11/97				ug/g	3.30	2.10	J	ug/g	
A1P1ST-1	R	Uranium, Total	A1P1ST1-6C-R	NONE	482739	1351045	3/11/97				ug/g	3.60		U	ug/g	
A1P1ST-1	R	Uranium, Total	A1P1ST1-7C-R	NONE	482751	1351117	3/11/97				ug/g	3.00		U	ug/g	
A1P1ST-1	R	Uranium, Total	A1P1ST1-8C-R	NONE	482747	1351130	3/11/97				ug/g	3.60		U	ug/g	
A1P1ST-1	R	Uranium, Total	A1P1ST1-9C-R	NONE	482770	1351023	3/12/97				ug/g	2.84		U	ug/g	
A1P1ST-1	R	Uranium-238	A1P1ST1-10C-R	NONE	482766	1351075	3/11/97	0.26	0.62	U	pCi/g	1.10		U	pCi/g	
A1P1ST-1	R	Uranium-238	A1P1ST1-11C-R	NONE	482779	1351110	3/11/97	0.94	0.60	U	pCi/g	0.97		U	pCi/g	
A1P1ST-1	R	Uranium-238	A1P1ST1-12C-R	NONE	482786	1351160	3/11/97	2.10	0.78		pCi/g	2.10	0.78	-	pCi/g	
A1P1ST-1	R	Uranium-238	A1P1ST1-13C-R	NONE	482810	1351050	3/11/97	1.30	0.76		pCi/g	1.30	0.76	J	pCi/g	
A1P1ST-1	R	Uranium-238	A1P1ST1-13C-R-D	NONE	482810	1351050	3/11/97	1.60	0.57		pCi/g	1.60	0.57	-	pCi/g	A1P1ST1-13C-R
A1P1ST-1	R	Uranium-238	A1P1ST1-14C-R	NONE	482792	1351052	3/11/97	1.30	0.58		pCi/g	1.30	0.59	-	pCi/g	
A1P1ST-1	R	Uranium-238	A1P1ST1-15C-R	NONE	482815	1351122	3/11/97	1.70	0.73		pCi/g	1.70	0.73	-	pCi/g	
A1P1ST-1	R	Uranium-238	A1P1ST1-16C-R	NONE	482806	1351131	3/11/97	2.10	0.82		pCi/g	2.10	0.82	-	pCi/g	
A1P1ST-1	R	Uranium-238	A1P1ST1-2C-R	NONE	482729	1351058	3/12/97	3.20	1.40		pCi/g	3.17	1.40	-	pCi/g	
A1P1ST-1	R	Uranium-238	A1P1ST1-3C-R	NONE	482722	1351092	3/12/97	3.00	2.00		pCi/g	2.97	1.97	J	pCi/g	
A1P1ST-1	R	Uranium-238	A1P1ST1-4C-R	NONE	482702	1351179	3/12/97	8.20	2.00		pCi/g	8.15	2.01	-	pCi/g	
A1P1ST-1	R	Uranium-238	A1P1ST1-5C-R	NONE	482761	1351024	3/11/97	1.10	0.70	U	pCi/g	1.10	0.70	J	pCi/g	
A1P1ST-1	R	Uranium-238	A1P1ST1-6C-R	NONE	482739	1351045	3/11/97	0.86	0.74	U	pCi/g	1.20		U	pCi/g	
A1P1ST-1	R	Uranium-238	A1P1ST1-7C-R	NONE	482751	1351117	3/11/97	0.58	0.62	U	pCi/g	1.00		U	pCi/g	
A1P1ST-1	R	Uranium-238	A1P1ST1-8C-R	NONE	482747	1351130	3/11/97	0.21	0.69	U	pCi/g	1.20		U	pCi/g	
A1P1ST-1	R	Uranium-238	A1P1ST1-9C-R	NONE	482770	1351023	3/12/97	0.83	1.30	U	pCi/g	0.95		U	pCi/g	
N19	M	Arsenic	N19-00C-1-M	NONE	483019	1349467	2/27/97	8.20			mg/kg	8.20		-	mg/kg	
N19	M	Arsenic	N19-00C-11-M	NONE	483728.45	1349586	2/27/97	9.90			mg/kg	9.90		-	mg/kg	
N19	M	Arsenic	N19-00C-12-M	NONE	483628.24	1349738	2/27/97	6.70			mg/kg	6.70		-	mg/kg	
N19	M	Arsenic	N19-00C-12-M-D	NONE	483628.24	1349738	2/27/97	7.90			mg/kg	7.90		J	mg/kg	N19-00C-12-M
N19	M	Arsenic	N19-00C-14-M	NONE	483885.36	1349693	2/27/97	7.00			mg/kg	7.00		-	mg/kg	
N19	M	Arsenic	N19-00C-15-M	NONE	484014.63	1349584	2/27/97	11.80			mg/kg	11.80		-	mg/kg	
N19	M	Arsenic	N19-00C-3-M	NONE	483130.1	1349481	2/27/97	7.60			mg/kg	7.60		-	mg/kg	
N19	M	Arsenic	N19-00C-5-M	NONE	483317.33	1349575	2/27/97	4.70			mg/kg	4.70		-	mg/kg	
N19	M	Arsenic	N19-00C-8-M	NONE	483461.5	1349668	3/4/97	6.60			mg/kg	6.60		-	mg/kg	
N19	M	Arsenic	N19-00C-9-M	NONE	483497.08	1349568	2/27/97	5.00			mg/kg	5.00		-	mg/kg	
N19	M	Beryllium	N19-00C-1-M	NONE	483019	1349467	2/27/97	0.81			mg/kg	0.81		U	mg/kg	
N19	M	Beryllium	N19-00C-11-M	NONE	483728.45	1349586	2/27/97	0.59		U	mg/kg	0.59		U	mg/kg	
N19	M	Beryllium	N19-00C-12-M	NONE	483628.24	1349738	2/27/97	0.63		B	mg/kg	0.63		U	mg/kg	
N19	M	Beryllium	N19-00C-12-M-D	NONE	483628.24	1349738	2/27/97	0.77		B	mg/kg	0.77		UJ	mg/kg	N19-00C-12-M
N19	M	Beryllium	N19-00C-14-M	NONE	483885.36	1349693	2/27/97	2.00			mg/kg	2.00		U	mg/kg	
N19	M	Beryllium	N19-00C-15-M	NONE	484014.63	1349584	2/27/97	0.66			mg/kg	0.66		U	mg/kg	
N19	M	Beryllium	N19-00C-3-M	NONE	483130.1	1349481	2/27/97	0.67		B	mg/kg	0.67		U	mg/kg	

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								Laboratory Data				Validation Data				
CU Name	CU Type	Parameter	Sample ID	Suffix	Northing	Easting	Sample Date	Lab Result	TPU	Qualifier	Units	Val. Result	TPU	Qualifier	Units	Duplicate of
N19	M	Beryllium	N19-00C-5-M	NONE	483317.33	1349575	2/27/97	0.51		B	mg/kg	0.51		U	mg/kg	
N19	M	Beryllium	N19-00C-8-M	NONE	483461.5	1349668	3/4/97	0.66		B	mg/kg	0.66		U	mg/kg	
N19	M	Beryllium	N19-00C-9-M	NONE	483497.08	1349568	2/27/97	0.47		B	mg/kg	0.47		U	mg/kg	
N19	R	Cesium-137	N19-00C-1-R	NONE	483019.03	1349467	2/27/97	0.64	0.10		pCi/g	0.64	0.10	-	pCi/g	
N19	R	Cesium-137	N19-00C-11-R	NONE	483728.46	1349586	2/27/97	0.65	0.09		pCi/g	0.65	0.09	-	pCi/g	
N19	R	Cesium-137	N19-00C-12-R	NONE	483628.24	1349738	2/27/97	0.50	0.07		pCi/g	0.50	0.07	-	pCi/g	
N19	R	Cesium-137	N19-00C-14-R	NONE	483885.37	1349693	2/27/97	0.69	0.09		pCi/g	0.69	0.09	-	pCi/g	
N19	R	Cesium-137	N19-00C-15-R	NONE	484014.63	1349584	2/27/97	0.68	0.15		pCi/g	0.68	0.11	-	pCi/g	
N19	R	Cesium-137	N19-00C-2-R	NONE	483047.01	1349722	2/27/97	0.55	0.09		pCi/g	0.55	0.09	-	pCi/g	
N19	R	Cesium-137	N19-00C-3-R	NONE	483130.10	1349481	2/27/97	0.96	0.10		pCi/g	0.96	0.10	-	pCi/g	
N19	R	Cesium-137	N19-00C-5-R	NONE	483317.42	1349576	2/27/97	0.66	0.08		pCi/g	0.66	0.09	-	pCi/g	
N19	R	Cesium-137	N19-00C-6-R	NONE	483316.67	1349717	2/27/97	0.57	0.09		pCi/g	0.57	0.09	-	pCi/g	
N19	R	Cesium-137	N19-00C-7-R	NONE	483447.32	1349591	3/4/97	0.56	0.09		pCi/g	0.56	0.10	-	pCi/g	
N19	R	Cesium-137	N19-00C-8-R	NONE	483461.6	1349668	3/4/97	0.59	0.09		pCi/g	0.59	0.09	-	pCi/g	
N19	R	Cesium-137	N19-00C-9-R	NONE	483497.16	1349568	2/27/97	0.54	0.08		pCi/g	0.54	0.08	-	pCi/g	
N19	R	Moisture Content	N19-00C-1-R	NONE	483019.03	1349467	2/27/97	28.20			Percent			NV	Percent	
N19	R	Moisture Content	N19-00C-11-R	NONE	483728.46	1349586	2/27/97	28.20			Percent			NV	Percent	
N19	R	Moisture Content	N19-00C-12-R	NONE	483628.24	1349738	2/27/97	26.60			Percent			NV	Percent	
N19	R	Moisture Content	N19-00C-12-R-D	NONE	483628.24	1349738	2/27/97	28.80			Percent			NV	Percent	N19-00C-12-R
N19	R	Moisture Content	N19-00C-14-R	NONE	483885.37	1349693	2/27/97	29.60			Percent			NV	Percent	
N19	R	Moisture Content	N19-00C-15-R	NONE	484014.63	1349584	2/27/97	27.80			Percent			NV	Percent	
N19	R	Moisture Content	N19-00C-2-R	NONE	483047.01	1349722	2/27/97	23.90			Percent			NV	Percent	
N19	R	Moisture Content	N19-00C-3-R	NONE	483130.10	1349481	2/27/97	27.10			Percent			NV	Percent	
N19	R	Moisture Content	N19-00C-5-R	NONE	483317.42	1349576	2/27/97	27.60			Percent			NV	Percent	
N19	R	Moisture Content	N19-00C-6-R	NONE	483316.67	1349717	2/27/97	25.90			Percent			NV	Percent	
N19	R	Moisture Content	N19-00C-7-R	NONE	483447.32	1349591	3/4/97	29.70			Percent			NV	Percent	
N19	R	Moisture Content	N19-00C-8-R	NONE	483461.6	1349668	3/4/97	30.40			Percent			NV	Percent	
N19	R	Moisture Content	N19-00C-9-R	NONE	483497.16	1349568	2/27/97	29.50			Percent			NV	Percent	
N19	R	Radium-226	N19-00C-1-R	NONE	483019.03	1349467	2/27/97	1.40	0.19		pCi/g	1.38	0.19	-	pCi/g	
N19	R	Radium-226	N19-00C-11-R	NONE	483728.46	1349586	2/27/97	1.40	0.17		pCi/g	1.39	0.17	-	pCi/g	
N19	R	Radium-226	N19-00C-12-R	NONE	483628.24	1349738	2/27/97	1.40	0.16		pCi/g	1.36	0.16	-	pCi/g	
N19	R	Radium-226	N19-00C-12-R-D	NONE	483628.24	1349738	2/27/97	1.30	0.19		pCi/g	1.34	0.19	-	pCi/g	N19-00C-12-R
N19	R	Radium-226	N19-00C-14-R	NONE	483885.37	1349693	2/27/97	1.20	0.16		pCi/g	1.18	0.16	-	pCi/g	
N19	R	Radium-226	N19-00C-15-R	NONE	484014.63	1349584	2/27/97	1.50	0.20		pCi/g	1.48	0.16	-	pCi/g	
N19	R	Radium-226	N19-00C-2-R	NONE	483047.01	1349722	2/27/97	1.50	0.18		pCi/g	1.47	0.18	-	pCi/g	
N19	R	Radium-226	N19-00C-3-R	NONE	483130.10	1349481	2/27/97	1.40	0.18		pCi/g	1.43	0.18	-	pCi/g	
N19	R	Radium-226	N19-00C-5-R	NONE	483317.42	1349576	2/27/97	1.60	0.18		pCi/g	1.65	0.18	-	pCi/g	
N19	R	Radium-226	N19-00C-6-R	NONE	483316.67	1349717	2/27/97	1.40	0.16		pCi/g	1.37	0.16	-	pCi/g	
N19	R	Radium-226	N19-00C-7-R	NONE	483447.32	1349591	3/4/97	1.50	0.16		pCi/g	1.51	0.16	-	pCi/g	
N19	R	Radium-226	N19-00C-8-R	NONE	483461.6	1349668	3/4/97	1.40	0.16		pCi/g	1.40	0.16	-	pCi/g	

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A1P1 CERTIFICATION REPORT - APPENDIX B

								Laboratory Data				Validation Data				
CU Name	CU Type	Parameter	Sample ID	Suffix	Northing	Easting	Sample Date	Lab Result	TPU	Qualifier	Units	Val. Result	TPU	Qualifier	Units	Duplicate of
N19	R	Radium-226	N19-00C-9-R	NONE	483497.16	1349568	2/27/97	1.50	0.17		pCi/g	1.49	0.17	-	pCi/g	
N19	R	Radium-228	N19-00C-1-R	NONE	483019.03	1349467	2/27/97	1.50	0.41		pCi/g	1.47	0.41	-	pCi/g	
N19	R	Radium-228	N19-00C-11-R	NONE	483728.46	1349586	2/27/97	1.30	0.38		pCi/g	1.33	0.38	-	pCi/g	
N19	R	Radium-228	N19-00C-12-R	NONE	483628.24	1349738	2/27/97	1.40	0.37		pCi/g	1.41	0.37	-	pCi/g	
N19	R	Radium-228	N19-00C-12-R-D	NONE	483628.24	1349738	2/27/97	1.30	0.37		pCi/g	1.28	0.37	-	pCi/g	N19-00C-12-R
N19	R	Radium-228	N19-00C-14-R	NONE	483885.37	1349693	2/27/97	1.40	0.40		pCi/g	1.39	0.41	-	pCi/g	
N19	R	Radium-228	N19-00C-15-R	NONE	484014.63	1349584	2/27/97	1.00	0.33		pCi/g	1.06	0.31	-	pCi/g	
N19	R	Radium-228	N19-00C-2-R	NONE	483047.01	1349722	2/27/97	1.10	0.36		pCi/g	1.08	0.36	-	pCi/g	
N19	R	Radium-228	N19-00C-3-R	NONE	483130.10	1349481	2/27/97	1.40	0.40		pCi/g	1.41	0.40	-	pCi/g	
N19	R	Radium-228	N19-00C-5-R	NONE	483317.42	1349576	2/27/97	1.40	0.39		pCi/g	1.43	0.39	-	pCi/g	
N19	R	Radium-228	N19-00C-6-R	NONE	483316.67	1349717	2/27/97	1.40	0.37		pCi/g	1.36	0.37	-	pCi/g	
N19	R	Radium-228	N19-00C-7-R	NONE	483447.32	1349591	3/4/97	1.30	0.34		pCi/g	1.30	0.34	-	pCi/g	
N19	R	Radium-228	N19-00C-8-R	NONE	483461.6	1349668	3/4/97	1.20	0.37		pCi/g	1.24	0.37	-	pCi/g	
N19	R	Radium-228	N19-00C-9-R	NONE	483497.16	1349568	2/27/97	1.20	0.35		pCi/g	1.17	0.35	-	pCi/g	
N19	R	Thorium-228	N19-00C-1-R	NONE	483019.03	1349467	2/27/97	1.60	0.67		pCi/g	1.58	0.67	J	pCi/g	
N19	R	Thorium-228	N19-00C-11-R	NONE	483728.46	1349586	2/27/97	1.30	0.46		pCi/g	1.28	0.46	-	pCi/g	
N19	R	Thorium-228	N19-00C-12-R	NONE	483628.24	1349738	2/27/97	1.60	0.58		pCi/g	1.58	0.58	J	pCi/g	
N19	R	Thorium-228	N19-00C-12-R-D	NONE	483628.24	1349738	2/27/97	1.30	0.45		pCi/g	1.33	0.45	-	pCi/g	N19-00C-12-R
N19	R	Thorium-228	N19-00C-14-R	NONE	483885.37	1349693	2/27/97	2.20	0.80		pCi/g	2.13	0.80	-	pCi/g	
N19	R	Thorium-228	N19-00C-15-R	NONE	484014.63	1349584	2/27/97	1.40	0.51		pCi/g	1.37	0.51	J	pCi/g	
N19	R	Thorium-228	N19-00C-2-R	NONE	483047.01	1349722	2/27/97	1.50	0.64		pCi/g	1.54	0.64	-	pCi/g	
N19	R	Thorium-228	N19-00C-3-R	NONE	483130.10	1349481	2/27/97	1.50	0.59		pCi/g	1.55	0.59	J	pCi/g	
N19	R	Thorium-228	N19-00C-5-R	NONE	483317.42	1349576	2/27/97	1.30	0.52		pCi/g	1.30	0.52	-	pCi/g	
N19	R	Thorium-228	N19-00C-6-R	NONE	483316.67	1349717	2/27/97	1.40	0.65		pCi/g	1.45	0.65	J	pCi/g	
N19	R	Thorium-228	N19-00C-7-R	NONE	483447.32	1349591	3/4/97	1.40	0.52		pCi/g	1.38	0.52	J	pCi/g	
N19	R	Thorium-228	N19-00C-8-R	NONE	483461.6	1349668	3/4/97	1.10	0.46		pCi/g	1.13	0.46	-	pCi/g	
N19	R	Thorium-228	N19-00C-9-R	NONE	483497.16	1349568	2/27/97	1.60	0.61		pCi/g	1.64	0.61	-	pCi/g	
N19	R	Thorium-230	N19-00C-1-R	NONE	483019.03	1349467	2/27/97	1.90	0.80		pCi/g	1.91	0.80	J	pCi/g	
N19	R	Thorium-230	N19-00C-11-R	NONE	483728.46	1349586	2/27/97	1.70	0.61		pCi/g	1.72	0.61	J	pCi/g	
N19	R	Thorium-230	N19-00C-12-R	NONE	483628.24	1349738	2/27/97	1.80	0.66		pCi/g	1.80	0.66	J	pCi/g	
N19	R	Thorium-230	N19-00C-14-R	NONE	483885.37	1349693	2/27/97	1.90	0.71		pCi/g	1.88	0.71	-	pCi/g	
N19	R	Thorium-230	N19-00C-15-R	NONE	484014.63	1349584	2/27/97	1.70	0.63		pCi/g	1.68	0.63	J	pCi/g	
N19	R	Thorium-230	N19-00C-2-R	NONE	483047.01	1349722	2/27/97	2.10	0.85		pCi/g	2.07	0.85	-	pCi/g	
N19	R	Thorium-230	N19-00C-3-R	NONE	483130.10	1349481	2/27/97	2.00	0.75		pCi/g	1.98	0.75	J	pCi/g	
N19	R	Thorium-230	N19-00C-5-R	NONE	483317.42	1349576	2/27/97	1.60	0.62		pCi/g	1.56	0.62	J	pCi/g	
N19	R	Thorium-230	N19-00C-6-R	NONE	483316.67	1349717	2/27/97	1.90	0.84		pCi/g	1.88	0.84	J	pCi/g	
N19	R	Thorium-230	N19-00C-7-R	NONE	483447.32	1349591	3/4/97	1.60	0.59		pCi/g	1.58	0.59	J	pCi/g	
N19	R	Thorium-230	N19-00C-8-R	NONE	483461.6	1349668	3/4/97	1.50	0.60		pCi/g	1.49	0.60	-	pCi/g	
N19	R	Thorium-230	N19-00C-9-R	NONE	483497.16	1349568	2/27/97	1.60	0.60		pCi/g	1.63	0.61	J	pCi/g	
N19	R	Thorium-232	N19-00C-1-R	NONE	483019.03	1349467	2/27/97	1.30	0.55		pCi/g	1.30	0.55	J	pCi/g	

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								Laboratory Data				Validation Data				
CU Name	CU Type	Parameter	Sample ID	Suffix	Northing	Easting	Sample Date	Lab Result	TPU	Qualifier	Units	Val. Result	TPU	Qualifier	Units	Duplicate of
N19	R	Thorium-232	N19-00C-11-R	NONE	483728.46	1349586	2/27/97	1.10	0.39		pCi/g	1.07	0.39	-	pCi/g	
N19	R	Thorium-232	N19-00C-12-R	NONE	483628.24	1349738	2/27/97	1.20	0.46		pCi/g	1.22	0.46	J	pCi/g	
N19	R	Thorium-232	N19-00C-12-R-D	NONE	483628.24	1349738	2/27/97	1.20	0.42		pCi/g	1.25	0.42	-	pCi/g	N19-00C-12-R
N19	R	Thorium-232	N19-00C-14-R	NONE	483885.37	1349693	2/27/97	1.70	0.64		pCi/g	1.71	0.64	-	pCi/g	
N19	R	Thorium-232	N19-00C-15-R	NONE	484014.63	1349584	2/27/97	1.20	0.44		pCi/g	1.16	0.44	J	pCi/g	
N19	R	Thorium-232	N19-00C-2-R	NONE	483047.01	1349722	2/27/97	1.20	0.51		pCi/g	1.22	0.51	-	pCi/g	
N19	R	Thorium-232	N19-00C-3-R	NONE	483130.10	1349481	2/27/97	1.40	0.52		pCi/g	1.35	0.52	J	pCi/g	
N19	R	Thorium-232	N19-00C-5-R	NONE	483317.42	1349576	2/27/97	1.10	0.44		pCi/g	1.09	0.44	-	pCi/g	
N19	R	Thorium-232	N19-00C-6-R	NONE	483316.67	1349717	2/27/97	1.20	0.54		pCi/g	1.20	0.54	J	pCi/g	
N19	R	Thorium-232	N19-00C-7-R	NONE	483447.32	1349591	3/4/97	1.00	0.39		pCi/g	1.01	0.39	J	pCi/g	
N19	R	Thorium-232	N19-00C-8-R	NONE	483461.6	1349668	3/4/97	1.00	0.42		pCi/g	1.04	0.42	-	pCi/g	
N19	R	Thorium-232	N19-00C-9-R	NONE	483497.16	1349568	2/27/97	1.00	0.40		pCi/g	1.06	0.40	-	pCi/g	
N19	R	Uranium, Total	N19-00C-1-R	NONE	483019.03	1349467	2/27/97				ug/g	14.51	2.99	-	ug/g	
N19	R	Uranium, Total	N19-00C-11-R	NONE	483728.46	1349586	2/27/97				ug/g	13.18	2.87	-	ug/g	
N19	R	Uranium, Total	N19-00C-12-R	NONE	483628.24	1349738	2/27/97				ug/g	11.46	2.70	-	ug/g	
N19	R	Uranium, Total	N19-00C-12-R-D	NONE	483628.24	1349738	2/27/97				ug/g	11.26	2.46	-	ug/g	N19-00C-12-R
N19	R	Uranium, Total	N19-00C-14-R	NONE	483885.37	1349693	2/27/97				ug/g	16.90	3.14	-	ug/g	
N19	R	Uranium, Total	N19-00C-15-R	NONE	484014.63	1349584	2/27/97				ug/g	5.22	1.52	-	ug/g	
N19	R	Uranium, Total	N19-00C-2-R	NONE	483047.01	1349722	2/27/97				ug/g	19.09	3.86	-	ug/g	
N19	R	Uranium, Total	N19-00C-3-R	NONE	483130.10	1349481	2/27/97				ug/g	23.81	3.80	-	ug/g	
N19	R	Uranium, Total	N19-00C-5-R	NONE	483317.42	1349576	2/27/97				ug/g	8.09	1.70	-	ug/g	
N19	R	Uranium, Total	N19-00C-6-R	NONE	483316.67	1349717	2/27/97				ug/g	13.32	3.04	-	ug/g	
N19	R	Uranium, Total	N19-00C-7-R	NONE	483447.32	1349591	3/4/97				ug/g	7.37	1.65	-	ug/g	
N19	R	Uranium, Total	N19-00C-8-R	NONE	483461.6	1349668	3/4/97				ug/g	12.71	2.56	-	ug/g	
N19	R	Uranium, Total	N19-00C-9-R	NONE	483497.16	1349568	2/27/97				ug/g	9.63	2.64	-	ug/g	
N19	R	Uranium-238	N19-00C-1-R	NONE	483019.03	1349467	2/27/97	4.80	1.00		pCi/g	4.84	1.00	-	pCi/g	
N19	R	Uranium-238	N19-00C-11-R	NONE	483728.46	1349586	2/27/97	4.40	0.96		pCi/g	4.40	0.96	-	pCi/g	
N19	R	Uranium-238	N19-00C-12-R	NONE	483628.24	1349738	2/27/97	3.80	0.90		pCi/g	3.82	0.90	-	pCi/g	
N19	R	Uranium-238	N19-00C-12-R-D	NONE	483628.24	1349738	2/27/97	3.80	0.82		pCi/g	3.76	0.82	-	pCi/g	N19-00C-12-R
N19	R	Uranium-238	N19-00C-14-R	NONE	483885.37	1349693	2/27/97	5.60	1.00		pCi/g	5.64	1.05	-	pCi/g	
N19	R	Uranium-238	N19-00C-15-R	NONE	484014.63	1349584	2/27/97	1.70	0.77		pCi/g	1.74	0.51	-	pCi/g	
N19	R	Uranium-238	N19-00C-2-R	NONE	483047.01	1349722	2/27/97	6.40	1.30		pCi/g	6.37	1.29	-	pCi/g	
N19	R	Uranium-238	N19-00C-3-R	NONE	483130.10	1349481	2/27/97	7.90	1.30		pCi/g	7.94	1.27	-	pCi/g	
N19	R	Uranium-238	N19-00C-5-R	NONE	483317.42	1349576	2/27/97	2.70	0.57		pCi/g	2.70	0.57	-	pCi/g	
N19	R	Uranium-238	N19-00C-6-R	NONE	483316.67	1349717	2/27/97	4.40	1.00		pCi/g	4.44	1.01	-	pCi/g	
N19	R	Uranium-238	N19-00C-7-R	NONE	483447.32	1349591	3/4/97	0.24	0.55	U	pCi/g	2.46	0.55	-	pCi/g	
N19	R	Uranium-238	N19-00C-8-R	NONE	483461.6	1349668	3/4/97	4.20	0.85		pCi/g	4.24	0.85	-	pCi/g	
N19	R	Uranium-238	N19-00C-9-R	NONE	483497.16	1349568	2/27/97	3.20	0.88		pCi/g	3.21	0.88	-	pCi/g	
NAR-1	M	Aroclor-1260	NAR-1-10C-MP	NONE	482365.40	1350915	3/10/97	40.00		U	ug/kg	40.00		U	ug/kg	

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							Laboratory Data				Validation Data				
CU Name	CU Type	Parameter	Sample ID	Suffix	Northing	Easting	Sample Date	Lab Result	TPU	Qualifier	Units	Val. Result	TPU	Qualifier	Units	Duplicate of
NAR-1	M	Aroclor-1260	NAR-1-11C-MP	NONE	482445.45	1350914	3/9/97	41.00		U	ug/kg	41.00		Z	ug/kg	
NAR-1	M	Aroclor-1260	NAR-1-11C-MP	RE	482445.45	1350914	3/9/97	41.00		U	ug/kg	41.00		UJ	ug/kg	
NAR-1	M	Aroclor-1260	NAR-1-12C-MP	NONE	482465.37	1350918	3/9/97	42.00		U	ug/kg	42.00		Z	ug/kg	
NAR-1	M	Aroclor-1260	NAR-1-12C-MP	RE	482465.37	1350918	3/9/97	42.00		U	ug/kg	42.00		UJ	ug/kg	
NAR-1	M	Aroclor-1260	NAR-1-13C-MP	NONE	482537.99	1350907	3/8/97	42.00		U	ug/kg	42.00		U	ug/kg	
NAR-1	M	Aroclor-1260	NAR-1-14C-MP	NONE	482571.56	1350911	3/8/97	44.00		U	ug/kg	44.00		U	ug/kg	
NAR-1	M	Aroclor-1260	NAR-1-15C-MP	NONE	482628.05	1350911	3/8/97	42.00		U	ug/kg	42.00		U	ug/kg	
NAR-1	M	Aroclor-1260	NAR-1-16C-MP	NONE	482683.78	1350932	3/11/97	42.00		U	ug/kg	42.00		U	ug/kg	
NAR-1	M	Aroclor-1260	NAR-1-16C-MP-D	NONE	482571.56	1350911	3/11/97	41.00		U	ug/kg	41.00		UJ	ug/kg	NAR-1-16C-MP
NAR-1	M	Aroclor-1260	NAR-1-1C-MP	NONE	481949.60	1350902	3/8/97	41.00		U	ug/kg	41.00		U	ug/kg	
NAR-1	M	Aroclor-1260	NAR-1-2C-MP	NONE	481957.72	1350897	3/8/97	39.00		U	ug/kg	39.00		U	ug/kg	
NAR-1	M	Aroclor-1260	NAR-1-3C-MP	RE	482035.7	1350899	3/8/97	39.00		U	ug/kg	39.00		UJ	ug/kg	
NAR-1	M	Aroclor-1260	NAR-1-3C-MP	NONE	482035.7	1350899	3/8/97	39.00		U	ug/kg	39.00		Z	ug/kg	
NAR-1	M	Aroclor-1260	NAR-1-4C-MP	NONE	482060.54	1350906	3/10/97	41.00		U	ug/kg	41.00		U	ug/kg	
NAR-1	M	Aroclor-1260	NAR-1-5C-MP	NONE	482142.79	1350897	3/8/97	41.00		U	ug/kg	41.00		U	ug/kg	
NAR-1	M	Aroclor-1260	NAR-1-6C-MP	NONE	482154.78	1350897	3/8/97	41.00		U	ug/kg	41.00		U	ug/kg	
NAR-1	M	Aroclor-1260	NAR-1-7C-MP	NONE	482221.81	1350897	3/8/97	43.00		U	ug/kg	43.00		U	ug/kg	
NAR-1	M	Aroclor-1260	NAR-1-8C-MP	NONE	482264.55	1350908	3/25/97	38.00		U	ug/kg	38.00		U	ug/kg	
NAR-1	M	Aroclor-1260	NAR-1-9C-MP	NONE	482343.56	1350909	3/9/97	42.00		U	ug/kg	42.00		U	ug/kg	
NAR-1	M	Arsenic	NAR-1-10C-MP	NONE	482365.40	1350915	3/10/97	8.80		N	mg/kg	8.80		J	mg/kg	
NAR-1	M	Arsenic	NAR-1-11C-MP	NONE	482445.45	1350914	3/9/97	7.50		N	mg/kg	7.50		J	mg/kg	
NAR-1	M	Arsenic	NAR-1-12C-MP	NONE	482465.37	1350918	3/9/97	12.60		N	mg/kg	12.60		J	mg/kg	
NAR-1	M	Arsenic	NAR-1-13C-MP	NONE	482537.99	1350907	3/8/97	15.50			mg/kg	15.50		-	mg/kg	
NAR-1	M	Arsenic	NAR-1-14C-MP	NONE	482571.56	1350911	3/8/97	11.50			mg/kg	11.50		-	mg/kg	
NAR-1	M	Arsenic	NAR-1-15C-MP	NONE	482628.05	1350911	3/8/97	10.40			mg/kg	10.40		-	mg/kg	
NAR-1	M	Arsenic	NAR-1-16C-MP	NONE	482683.78	1350932	3/11/97	12.80		N	mg/kg	12.80		J	mg/kg	
NAR-1	M	Arsenic	NAR-1-16C-MP-D	NONE	482571.56	1350911	3/11/97	14.80		N	mg/kg	14.80		J	mg/kg	NAR-1-16C-MP
NAR-1	M	Arsenic	NAR-1-1C-MP	NONE	481949.60	1350902	3/8/97	12.50		N	mg/kg	12.50		J	mg/kg	
NAR-1	M	Arsenic	NAR-1-2C-MP	NONE	481957.72	1350897	3/8/97	6.00		N	mg/kg	6.00		J	mg/kg	
NAR-1	M	Arsenic	NAR-1-3C-MP	NONE	482035.7	1350899	3/8/97	7.50		N	mg/kg	7.50		J	mg/kg	
NAR-1	M	Arsenic	NAR-1-4C-MP	NONE	482060.54	1350906	3/10/97	11.00		N	mg/kg	11.00		J	mg/kg	
NAR-1	M	Arsenic	NAR-1-5C-MP	NONE	482142.79	1350897	3/8/97	9.90			mg/kg	9.90		-	mg/kg	
NAR-1	M	Arsenic	NAR-1-6C-MP	NONE	482154.78	1350897	3/8/97	10.20			mg/kg	10.20		-	mg/kg	
NAR-1	M	Arsenic	NAR-1-7C-MP	NONE	482221.81	1350897	3/8/97	15.50			mg/kg	15.50		-	mg/kg	
NAR-1	M	Arsenic	NAR-1-8C-MP	NONE	482264.55	1350908	3/25/97	6.80			mg/kg	6.80		-	mg/kg	
NAR-1	M	Arsenic	NAR-1-9C-MP	NONE	482343.56	1350909	3/9/97	14.00		N	mg/kg	14.00		J	mg/kg	
NAR-1	M	Beryllium	NAR-1-10C-MP	NONE	482365.40	1350915	3/10/97	1.20			mg/kg	1.20		-	mg/kg	
NAR-1	M	Beryllium	NAR-1-11C-MP	NONE	482445.45	1350914	3/9/97	0.67			mg/kg	0.67		-	mg/kg	
NAR-1	M	Beryllium	NAR-1-12C-MP	NONE	482465.37	1350918	3/9/97	1.10			mg/kg	1.10		-	mg/kg	
NAR-1	M	Beryllium	NAR-1-13C-MP	NONE	482537.99	1350907	3/8/97	1.50			mg/kg	1.50		-	mg/kg	

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								Laboratory Data				Validation Data				
CU Name	CU Type	Parameter	Sample ID	Suffix	Northing	Easting	Sample Date	Lab Result	TPU	Qualifier	Units	Val. Result	TPU	Qualifier	Units	Duplicate of
NAR-1	M	Beryllium	NAR-1-14C-MP	NONE	482571.56	1350911	3/8/97	1.20			mg/kg	1.20		-	mg/kg	
NAR-1	M	Beryllium	NAR-1-15C-MP	NONE	482628.05	1350911	3/8/97	1.80			mg/kg	1.80		-	mg/kg	
NAR-1	M	Beryllium	NAR-1-16C-MP	NONE	482683.78	1350932	3/11/97	0.99			mg/kg	0.99		-	mg/kg	
NAR-1	M	Beryllium	NAR-1-16C-MP-D	NONE	482571.56	1350911	3/11/97	0.83			mg/kg	0.83		-	mg/kg	NAR-1-16C-MP
NAR-1	M	Beryllium	NAR-1-1C-MP	NONE	481949.60	1350902	3/8/97	0.77			mg/kg	0.77		-	mg/kg	
NAR-1	M	Beryllium	NAR-1-2C-MP	NONE	481957.72	1350897	3/8/97	0.59			mg/kg	0.59		-	mg/kg	
NAR-1	M	Beryllium	NAR-1-3C-MP	NONE	482035.7	1350899	3/8/97	0.62			mg/kg	0.62		-	mg/kg	
NAR-1	M	Beryllium	NAR-1-4C-MP	NONE	482060.54	1350906	3/10/97	0.95			mg/kg	0.95		-	mg/kg	
NAR-1	M	Beryllium	NAR-1-5C-MP	NONE	482142.79	1350897	3/8/97	0.51		B	mg/kg	0.51		-	mg/kg	
NAR-1	M	Beryllium	NAR-1-6C-MP	NONE	482154.78	1350897	3/8/97	0.56		B	mg/kg	0.56		-	mg/kg	
NAR-1	M	Beryllium	NAR-1-7C-MP	NONE	482221.81	1350897	3/8/97	1.30			mg/kg	1.30		-	mg/kg	
NAR-1	M	Beryllium	NAR-1-8C-MP	NONE	482264.55	1350908	3/25/97	0.75			mg/kg	0.75		U	mg/kg	
NAR-1	M	Beryllium	NAR-1-9C-MP	NONE	482343.56	1350909	3/9/97	1.50			mg/kg	1.50		-	mg/kg	
NAR-1	R	Moisture Content	NAR-1-10C-R	NONE	482365.40	1350915	3/10/97	18.04			Percent			NV	Percent	
NAR-1	R	Moisture Content	NAR-1-11C-R	NONE	482445.45	1350914	3/9/97	16.00			Percent			NV	Percent	
NAR-1	R	Moisture Content	NAR-1-12C-R	NONE	482465.37	1350918	3/9/97	20.80			Percent			NV	Percent	
NAR-1	R	Moisture Content	NAR-1-13C-R	NONE	482537.99	1350907	3/8/97	20.34			Percent			NV	Percent	
NAR-1	R	Moisture Content	NAR-1-14C-R	NONE	482571.56	1350911	3/8/97	23.25			Percent			NV	Percent	
NAR-1	R	Moisture Content	NAR-1-15C-R	NONE	482628.05	1350911	3/8/97	19.86			Percent			NV	Percent	
NAR-1	R	Moisture Content	NAR-1-16C-R	NONE	482683.78	1350932	3/11/97	19.47			Percent			NV	Percent	
NAR-1	R	Moisture Content	NAR-1-16C-R-D	NONE	482571.56	1350911	3/11/97	19.14			Percent			NV	Percent	NAR-1-16C-R
NAR-1	R	Moisture Content	NAR-1-1C-R	NONE	481949.60	1350902	3/8/97	14.20			Percent			NV	Percent	
NAR-1	R	Moisture Content	NAR-1-2C-R	NONE	481957.72	1350897	3/8/97	18.10			Percent			NV	Percent	
NAR-1	R	Moisture Content	NAR-1-3C-R	NONE	482035.7	1350899	3/8/97	14.70			Percent			NV	Percent	
NAR-1	R	Moisture Content	NAR-1-4C-R	NONE	482060.54	1350906	3/10/97	15.00			Percent			NV	Percent	
NAR-1	R	Moisture Content	NAR-1-5C-R	NONE	482142.79	1350897	3/8/97	19.70			Percent			NV	Percent	
NAR-1	R	Moisture Content	NAR-1-6C-R	NONE	482154.78	1350897	3/8/97	19.27			Percent			NV	Percent	
NAR-1	R	Moisture Content	NAR-1-7C-R	NONE	482221.81	1350897	3/8/97	21.63			Percent			NV	Percent	
NAR-1	R	Moisture Content	NAR-1-8C-R	NONE	482264.55	1350908	3/25/97	13.40			Percent			NV	Percent	
NAR-1	R	Moisture Content	NAR-1-9C-R	NONE	482343.56	1350909	3/9/97	19.40			Percent			NV	Percent	
NAR-1	R	Radium-226	NAR-1-10C-R	NONE	482365.40	1350915	3/10/97	1.50	0.21		pCi/g	1.48	0.21	-	pCi/g	
NAR-1	R	Radium-226	NAR-1-11C-R	NONE	482445.45	1350914	3/9/97	1.30	0.14		pCi/g	1.28	0.14	-	pCi/g	
NAR-1	R	Radium-226	NAR-1-12C-R	NONE	482465.37	1350918	3/9/97	1.60	0.16		pCi/g	1.60	0.16	-	pCi/g	
NAR-1	R	Radium-226	NAR-1-13C-R	NONE	482537.99	1350907	3/8/97	1.50	0.24		pCi/g	1.53	0.24	-	pCi/g	
NAR-1	R	Radium-226	NAR-1-14C-R	NONE	482571.56	1350911	3/8/97	1.30	0.20		pCi/g	1.31	0.20	-	pCi/g	
NAR-1	R	Radium-226	NAR-1-15C-R	NONE	482628.05	1350911	3/8/97	1.30	0.19		pCi/g	1.34	0.19	-	pCi/g	
NAR-1	R	Radium-226	NAR-1-16C-R	NONE	482683.78	1350932	3/11/97	1.20	0.20		pCi/g	1.22	0.20	-	pCi/g	
NAR-1	R	Radium-226	NAR-1-16C-R-D	NONE	482571.56	1350911	3/11/97	1.30	0.20		pCi/g	1.33	0.20	-	pCi/g	NAR-1-16C-R
NAR-1	R	Radium-226	NAR-1-1C-R	NONE	481949.60	1350902	3/8/97	0.98	0.12		pCi/g	0.98	0.12	-	pCi/g	
NAR-1	R	Radium-226	NAR-1-2C-R	NONE	481957.72	1350897	3/8/97	1.00	0.12		pCi/g	1.00	0.12	-	pCi/g	

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							Laboratory Data				Validation Data				
CU Name	CU Type	Parameter	Sample ID	Suffix	Northing	Easting	Sample Date	Lab Result	TPU	Qualifier	Units	Val. Result	TPU	Qualifier	Units	Duplicate of
NAR-1	R	Radium-226	NAR-1-3C-R	NONE	482035.7	1350899	3/8/97	1.00	0.14		pCi/g	1.00	0.14	-	pCi/g	
NAR-1	R	Radium-226	NAR-1-4C-R	NONE	482060.54	1350906	3/10/97	1.30	0.16		pCi/g	1.30	0.16	-	pCi/g	
NAR-1	R	Radium-226	NAR-1-5C-R	NONE	482142.79	1350897	3/8/97	1.20	0.24		pCi/g	1.25	0.24	-	pCi/g	
NAR-1	R	Radium-226	NAR-1-6C-R	NONE	482154.78	1350897	3/8/97	1.10	0.18		pCi/g	1.14	0.18	-	pCi/g	
NAR-1	R	Radium-226	NAR-1-7C-R	NONE	482221.81	1350897	3/8/97	1.30	0.20		pCi/g	1.27	0.20	-	pCi/g	
NAR-1	R	Radium-226	NAR-1-8C-R	NONE	482264.55	1350908	3/25/97	1.00	0.15		pCi/g	1.03	0.15	-	pCi/g	
NAR-1	R	Radium-226	NAR-1-9C-R	NONE	482343.56	1350909	3/9/97	1.30	0.14		pCi/g	1.31	0.14	-	pCi/g	
NAR-1	R	Radium-228	NAR-1-10C-R	NONE	482365.40	1350915	3/10/97	1.20	0.26		pCi/g	1.23	0.26	-	pCi/g	
NAR-1	R	Radium-228	NAR-1-11C-R	NONE	482445.45	1350914	3/9/97	1.20	0.30		pCi/g	1.19	0.30	-	pCi/g	
NAR-1	R	Radium-228	NAR-1-12C-R	NONE	482465.37	1350918	3/9/97	1.40	0.37		pCi/g	1.43	0.37	-	pCi/g	
NAR-1	R	Radium-228	NAR-1-13C-R	NONE	482537.99	1350907	3/8/97	1.30	0.28		pCi/g	1.26	0.28	-	pCi/g	
NAR-1	R	Radium-228	NAR-1-14C-R	NONE	482571.56	1350911	3/8/97	1.40	0.30		pCi/g	1.38	0.30	-	pCi/g	
NAR-1	R	Radium-228	NAR-1-15C-R	NONE	482628.05	1350911	3/8/97	1.20	0.28		pCi/g	1.23	0.28	-	pCi/g	
NAR-1	R	Radium-228	NAR-1-16C-R	NONE	482683.78	1350932	3/11/97	1.50	0.28		pCi/g	1.45	0.28	-	pCi/g	
NAR-1	R	Radium-228	NAR-1-16C-R-D	NONE	482571.56	1350911	3/11/97	1.20	0.28		pCi/g	1.23	0.28	-	pCi/g	NAR-1-16C-R
NAR-1	R	Radium-228	NAR-1-1C-R	NONE	481949.60	1350902	3/8/97	1.00	0.32		pCi/g	1.01	0.32	-	pCi/g	
NAR-1	R	Radium-228	NAR-1-2C-R	NONE	481957.72	1350897	3/8/97	1.10	0.33		pCi/g	1.15	0.33	-	pCi/g	
NAR-1	R	Radium-228	NAR-1-3C-R	NONE	482035.7	1350899	3/8/97	0.84	0.26		pCi/g	0.84	0.26	-	pCi/g	
NAR-1	R	Radium-228	NAR-1-4C-R	NONE	482060.54	1350906	3/10/97	1.10	0.30		pCi/g	1.11	0.30	-	pCi/g	
NAR-1	R	Radium-228	NAR-1-5C-R	NONE	482142.79	1350897	3/8/97	1.30	0.27		pCi/g	1.32	0.27	-	pCi/g	
NAR-1	R	Radium-228	NAR-1-6C-R	NONE	482154.78	1350897	3/8/97	1.30	0.27		pCi/g	1.31	0.27	-	pCi/g	
NAR-1	R	Radium-228	NAR-1-7C-R	NONE	482221.81	1350897	3/8/97	1.10	0.28		pCi/g	1.15	0.28	-	pCi/g	
NAR-1	R	Radium-228	NAR-1-8C-R	NONE	482264.55	1350908	3/25/97	1.00	0.32		pCi/g	1.01	0.32	-	pCi/g	
NAR-1	R	Radium-228	NAR-1-9C-R	NONE	482343.56	1350909	3/9/97	1.20	0.32		pCi/g	1.21	0.32	-	pCi/g	
NAR-1	R	Thorium-228	NAR-1-10C-R	NONE	482365.40	1350915	3/10/97	1.40	0.31		pCi/g	1.36	0.29	-	pCi/g	
NAR-1	R	Thorium-228	NAR-1-11C-R	NONE	482445.45	1350914	3/9/97	1.30	0.50		pCi/g	1.34	0.50	J	pCi/g	
NAR-1	R	Thorium-228	NAR-1-12C-R	NONE	482465.37	1350918	3/9/97	1.60	0.66		pCi/g	1.55	0.66	J	pCi/g	
NAR-1	R	Thorium-228	NAR-1-13C-R	NONE	482537.99	1350907	3/8/97	1.30	0.28		pCi/g	1.29	0.26	-	pCi/g	
NAR-1	R	Thorium-228	NAR-1-14C-R	NONE	482571.56	1350911	3/8/97	1.30	0.28		pCi/g	1.30	0.26	-	pCi/g	
NAR-1	R	Thorium-228	NAR-1-15C-R	NONE	482628.05	1350911	3/8/97	1.30	0.27		pCi/g	1.32	0.25	J	pCi/g	
NAR-1	R	Thorium-228	NAR-1-16C-R	NONE	482683.78	1350932	3/11/97	1.40	0.31		pCi/g	1.47	0.29	-	pCi/g	
NAR-1	R	Thorium-228	NAR-1-16C-R-D	NONE	482571.56	1350911	3/11/97	1.40	0.29		pCi/g	1.38	0.27	-	pCi/g	NAR-1-16C-R
NAR-1	R	Thorium-228	NAR-1-1C-R	NONE	481949.60	1350902	3/8/97	1.20	0.45		pCi/g	1.20	0.45	J	pCi/g	
NAR-1	R	Thorium-228	NAR-1-2C-R	NONE	481957.72	1350897	3/8/97	1.30	0.42		pCi/g	1.25	0.42	J	pCi/g	
NAR-1	R	Thorium-228	NAR-1-3C-R	NONE	482035.7	1350899	3/8/97	1.30	0.47		pCi/g	1.28	0.47	J	pCi/g	
NAR-1	R	Thorium-228	NAR-1-4C-R	NONE	482060.54	1350906	3/10/97	1.10	0.40		pCi/g	1.06	0.40	J	pCi/g	
NAR-1	R	Thorium-228	NAR-1-5C-R	NONE	482142.79	1350897	3/8/97	1.10	0.26		pCi/g	1.07	0.24	-	pCi/g	
NAR-1	R	Thorium-228	NAR-1-6C-R	NONE	482154.78	1350897	3/8/97	1.10	0.26		pCi/g	1.07	0.23	J	pCi/g	
NAR-1	R	Thorium-228	NAR-1-7C-R	NONE	482221.81	1350897	3/8/97	1.20	0.26		pCi/g	1.15	0.24	J	pCi/g	
NAR-1	R	Thorium-228	NAR-1-8C-R	NONE	482264.55	1350908	3/25/97	0.98	0.37		pCi/g	0.98	0.37	-	pCi/g	

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A1P1 CERTIFICATION REPORT - APPENDIX B

							Laboratory Data				Validation Data				
CU Name	CU Type	Parameter	Sample ID	Suffix	Northing	Easting	Sample Date	Lab Result	TPU	Qualifier	Units	Val. Result	TPU	Qualifier	Units	Duplicate of
NAR-1	R	Thorium-228	NAR-1-9C-R	NONE	482343.56	1350909	3/9/97	1.30	0.49		pCi/g	1.32	0.49	J	pCi/g	
NAR-1	R	Thorium-232	NAR-1-10C-R	NONE	482365.40	1350915	3/10/97	1.30	0.25		pCi/g	1.27	0.25	-	pCi/g	
NAR-1	R	Thorium-232	NAR-1-11C-R	NONE	482445.45	1350914	3/9/97	1.20	0.46		pCi/g	1.22	0.46	J	pCi/g	
NAR-1	R	Thorium-232	NAR-1-12C-R	NONE	482465.37	1350918	3/9/97	1.20	0.52		pCi/g	1.21	0.52	J	pCi/g	
NAR-1	R	Thorium-232	NAR-1-13C-R	NONE	482537.99	1350907	3/8/97	1.00	0.21		pCi/g	1.04	0.21	-	pCi/g	
NAR-1	R	Thorium-232	NAR-1-14C-R	NONE	482571.56	1350911	3/8/97	1.20	0.24		pCi/g	1.24	0.23	-	pCi/g	
NAR-1	R	Thorium-232	NAR-1-15C-R	NONE	482628.05	1350911	3/8/97	1.20	0.22		pCi/g	1.21	0.22	J	pCi/g	
NAR-1	R	Thorium-232	NAR-1-16C-R	NONE	482683.78	1350932	3/11/97	1.10	0.22		pCi/g	1.08	0.22	-	pCi/g	
NAR-1	R	Thorium-232	NAR-1-16C-R-D	NONE	482571.56	1350911	3/11/97	1.10	0.22		pCi/g	1.09	0.22	-	pCi/g	NAR-1-16C-R
NAR-1	R	Thorium-232	NAR-1-1C-R	NONE	481949.60	1350902	3/8/97	0.93	0.35		pCi/g	0.93	0.35	J	pCi/g	
NAR-1	R	Thorium-232	NAR-1-2C-R	NONE	481957.72	1350897	3/8/97	1.00	0.35		pCi/g	1.04	0.35	J	pCi/g	
NAR-1	R	Thorium-232	NAR-1-3C-R	NONE	482035.7	1350899	3/8/97	0.93	0.34		pCi/g	0.93	0.34	J	pCi/g	
NAR-1	R	Thorium-232	NAR-1-4C-R	NONE	482060.54	1350906	3/10/97	0.93	0.35		pCi/g	0.93	0.35	J	pCi/g	
NAR-1	R	Thorium-232	NAR-1-5C-R	NONE	482142.79	1350897	3/8/97	1.20	0.23		pCi/g	1.18	0.23	-	pCi/g	
NAR-1	R	Thorium-232	NAR-1-6C-R	NONE	482154.78	1350897	3/8/97	1.00	0.21		pCi/g	1.05	0.21	J	pCi/g	
NAR-1	R	Thorium-232	NAR-1-7C-R	NONE	482221.81	1350897	3/8/97	1.10	0.21		pCi/g	1.06	0.21	J	pCi/g	
NAR-1	R	Thorium-232	NAR-1-8C-R	NONE	482264.55	1350908	3/25/97	0.76	0.29		pCi/g	0.76	0.29	-	pCi/g	
NAR-1	R	Thorium-232	NAR-1-9C-R	NONE	482343.56	1350909	3/9/97	1.20	0.44		pCi/g	1.19	0.44	J	pCi/g	
NAR-1	R	Uranium, Total	NAR-1-10C-R	NONE	482365.40	1350915	3/10/97				ug/g	5.19	4.20	J	ug/g	
NAR-1	R	Uranium, Total	NAR-1-11C-R	NONE	482445.45	1350914	3/9/97				ug/g	2.57	0.92	-	ug/g	
NAR-1	R	Uranium, Total	NAR-1-12C-R	NONE	482465.37	1350918	3/9/97				ug/g	2.63		U	ug/g	
NAR-1	R	Uranium, Total	NAR-1-13C-R	NONE	482537.99	1350907	3/8/97				ug/g	5.84	4.86	J	ug/g	
NAR-1	R	Uranium, Total	NAR-1-14C-R	NONE	482571.56	1350911	3/8/97				ug/g	6.82	4.71	J	ug/g	
NAR-1	R	Uranium, Total	NAR-1-15C-R	NONE	482628.05	1350911	3/8/97				ug/g	9.96	4.57	J	ug/g	
NAR-1	R	Uranium, Total	NAR-1-16C-R	NONE	482683.78	1350932	3/11/97				ug/g	10.67	5.22	-	ug/g	
NAR-1	R	Uranium, Total	NAR-1-16C-R-D	NONE	482571.56	1350911	3/11/97				ug/g	5.31	4.98	J	ug/g	NAR-1-16C-R
NAR-1	R	Uranium, Total	NAR-1-1C-R	NONE	481949.60	1350902	3/8/97				ug/g	3.09		U	ug/g	
NAR-1	R	Uranium, Total	NAR-1-2C-R	NONE	481957.72	1350897	3/8/97				ug/g	2.26	0.74	-	ug/g	
NAR-1	R	Uranium, Total	NAR-1-3C-R	NONE	482035.7	1350899	3/8/97				ug/g	3.24		U	ug/g	
NAR-1	R	Uranium, Total	NAR-1-4C-R	NONE	482060.54	1350906	3/10/97				ug/g	3.01		U	ug/g	
NAR-1	R	Uranium, Total	NAR-1-5C-R	NONE	482142.79	1350897	3/8/97				ug/g	7.57	4.87	J	ug/g	
NAR-1	R	Uranium, Total	NAR-1-6C-R	NONE	482154.78	1350897	3/8/97				ug/g	5.48	3.73	J	ug/g	
NAR-1	R	Uranium, Total	NAR-1-7C-R	NONE	482221.81	1350897	3/8/97				ug/g	7.33	4.47	J	ug/g	
NAR-1	R	Uranium, Total	NAR-1-8C-R	NONE	482264.55	1350908	3/25/97				ug/g	3.38		U	ug/g	
NAR-1	R	Uranium, Total	NAR-1-9C-R	NONE	482343.56	1350909	3/9/97				ug/g	3.62	1.13	-	ug/g	
NAR-1	R	Uranium-238	NAR-1-10C-R	NONE	482365.40	1350915	3/10/97	1.70	1.40		pCi/g	1.73	1.40	J	pCi/g	
NAR-1	R	Uranium-238	NAR-1-11C-R	NONE	482445.45	1350914	3/9/97	0.86	0.31		pCi/g	0.86	0.31	-	pCi/g	
NAR-1	R	Uranium-238	NAR-1-12C-R	NONE	482465.37	1350918	3/9/97	0.49	0.53	U	pCi/g	0.88		U	pCi/g	
NAR-1	R	Uranium-238	NAR-1-13C-R	NONE	482537.99	1350907	3/8/97	1.90	1.60		pCi/g	1.95	1.62	J	pCi/g	
NAR-1	R	Uranium-238	NAR-1-14C-R	NONE	482571.56	1350911	3/8/97	2.30	1.60		pCi/g	2.27	1.57	J	pCi/g	

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A1P1 CERTIFICATION REPORT - APPENDIX B

								Laboratory Data				Validation Data					
CU Name	CU Type	Parameter	Sample ID	Suffix	Northing	Easting	Sample Date	Lab Result	TPU	Qualifier	Units	Val. Result	TPU	Qualifier	Units	Duplicate of
NAR-1	R	Uranium-238	NAR-1-15C-R	NONE	482628.05	1350911	3/8/97	3.30	1.50		pCi/g	3.32	1.53	J	pCi/g	
NAR-1	R	Uranium-238	NAR-1-16C-R	NONE	482683.78	1350932	3/11/97	3.60	1.70		pCi/g	3.56	1.74	-	pCi/g	
NAR-1	R	Uranium-238	NAR-1-16C-R-D	NONE	482571.56	1350911	3/11/97	1.80	1.70		pCi/g	1.77	1.66	J	pCi/g	NAR-1-16C-R
NAR-1	R	Uranium-238	NAR-1-1C-R	NONE	481949.60	1350902	3/8/97	0.16	0.61	U	pCi/g	1.03		U	pCi/g	
NAR-1	R	Uranium-238	NAR-1-2C-R	NONE	481957.72	1350897	3/8/97	0.75	0.25		pCi/g	0.75	0.25	-	pCi/g	
NAR-1	R	Uranium-238	NAR-1-3C-R	NONE	482035.7	1350899	3/8/97	0.93	0.66	U	pCi/g	1.08		U	pCi/g	
NAR-1	R	Uranium-238	NAR-1-4C-R	NONE	482060.54	1350906	3/10/97	0.76	0.61	U	pCi/g	1.00		U	pCi/g	
NAR-1	R	Uranium-238	NAR-1-5C-R	NONE	482142.79	1350897	3/8/97	2.50	1.60		pCi/g	2.53	1.62	J	pCi/g	
NAR-1	R	Uranium-238	NAR-1-6C-R	NONE	482154.78	1350897	3/8/97	1.80	1.20		pCi/g	1.83	1.24	J	pCi/g	
NAR-1	R	Uranium-238	NAR-1-7C-R	NONE	482221.81	1350897	3/8/97	2.40	1.50		pCi/g	2.44	1.49	J	pCi/g	
NAR-1	R	Uranium-238	NAR-1-8C-R	NONE	482264.55	1350908	3/25/97	1.00	1.10	U	pCi/g	1.13		U	pCi/g	
NAR-1	R	Uranium-238	NAR-1-9C-R	NONE	482343.56	1350909	3/9/97	1.20	0.38		pCi/g	1.21	0.38	-	pCi/g	
NAR-2	M	Arsenic	NAR-2-10C-M	NONE	483799.56	1351553	3/11/97	9.30		N	mg/kg	9.30		J	mg/kg	
NAR-2	M	Arsenic	NAR-2-11C-M	NONE	483938.19	1351639	3/12/97	17.20		N	mg/kg	17.20		J	mg/kg	
NAR-2	M	Arsenic	NAR-2-12C-M	NONE	484123.23	1351774	3/12/97	8.90		N	mg/kg	8.90		J	mg/kg	
NAR-2	M	Arsenic	NAR-2-13C-M	NONE	484215.39	1351829	3/12/97	12.80		N	mg/kg	12.80		J	mg/kg	
NAR-2	M	Arsenic	NAR-2-14C-M	NONE	484369.79	1351926	3/8/97	5.80			mg/kg	5.80		-	mg/kg	
NAR-2	M	Arsenic	NAR-2-15C-M	NONE	484408.77	1351959	3/8/97	12.60			mg/kg	12.60		-	mg/kg	
NAR-2	M	Arsenic	NAR-2-16C-M	NONE	484539.33	1352052	3/8/97	8.60			mg/kg	8.60		-	mg/kg	
NAR-2	M	Arsenic	NAR-2-1C-M	NONE	482786.46	1350954	3/11/97	10.40		N	mg/kg	10.40		J	mg/kg	
NAR-2	M	Arsenic	NAR-2-2C-M	NONE	482960.44	1351018	3/10/97	14.70		N	mg/kg	14.70		J	mg/kg	
NAR-2	M	Arsenic	NAR-2-3C-M	NONE	483053.93	1351061	3/10/97	7.00		N	mg/kg	7.00		J	mg/kg	
NAR-2	M	Arsenic	NAR-2-4C-M	NONE	483202.49	1351148	3/10/97	7.00		N	mg/kg	7.00		J	mg/kg	
NAR-2	M	Arsenic	NAR-2-5C-M	NONE	483266.47	1351190	3/11/97	7.30		N	mg/kg	7.30		J	mg/kg	
NAR-2	M	Arsenic	NAR-2-5C-M-D	NONE	483266.47	1351190	3/11/97	9.00		N	mg/kg	9.00		J	mg/kg	NAR-2-5C-M
NAR-2	M	Arsenic	NAR-2-6C-M	NONE	483414.75	1351292	3/11/97	5.70		N	mg/kg	5.70		J	mg/kg	
NAR-2	M	Arsenic	NAR-2-7C-M	NONE	483494.4	1351350	3/11/97	6.00		N	mg/kg	6.00		J	mg/kg	
NAR-2	M	Arsenic	NAR-2-8C-M	NONE	483611.14	1351434	3/11/97	10.10		N	mg/kg	10.10		J	mg/kg	
NAR-2	M	Arsenic	NAR-2-9C-M	NONE	483748.36	1351524	3/11/97	13.60		N	mg/kg	13.60		J	mg/kg	
NAR-2	M	Beryllium	NAR-2-10C-M	NONE	483799.56	1351553	3/11/97	1.20			mg/kg	1.20		-	mg/kg	
NAR-2	M	Beryllium	NAR-2-11C-M	NONE	483938.19	1351639	3/12/97	1.30			mg/kg	1.30		-	mg/kg	
NAR-2	M	Beryllium	NAR-2-12C-M	NONE	484123.23	1351774	3/12/97	0.74			mg/kg	0.74		-	mg/kg	
NAR-2	M	Beryllium	NAR-2-13C-M	NONE	484215.39	1351829	3/12/97	1.30			mg/kg	1.30		-	mg/kg	
NAR-2	M	Beryllium	NAR-2-14C-M	NONE	484369.79	1351926	3/8/97	1.20			mg/kg	1.20		-	mg/kg	
NAR-2	M	Beryllium	NAR-2-15C-M	NONE	484408.77	1351959	3/8/97	1.30			mg/kg	1.30		-	mg/kg	
NAR-2	M	Beryllium	NAR-2-16C-M	NONE	484539.33	1352052	3/8/97	1.00			mg/kg	1.00		-	mg/kg	
NAR-2	M	Beryllium	NAR-2-1C-M	NONE	482786.46	1350954	3/11/97	1.50			mg/kg	1.50		-	mg/kg	
NAR-2	M	Beryllium	NAR-2-2C-M	NONE	482960.44	1351018	3/10/97	0.69			mg/kg	0.69		-	mg/kg	
NAR-2	M	Beryllium	NAR-2-3C-M	NONE	483053.93	1351061	3/10/97	0.54		B	mg/kg	0.54		-	mg/kg	

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A1P1 CERTIFICATION REPORT - APPENDIX B

								Laboratory Data				Validation Data				
CU Name	CU Type	Parameter	Sample ID	Suffix	Northing	Easting	Sample Date	Lab Result	TPU	Qualifier	Units	Val. Result	TPU	Qualifier	Units	Duplicate of
NAR-2	M	Beryllium	NAR-2-4C-M	NONE	483202.49	1351148	3/10/97	0.65			mg/kg	0.65		-	mg/kg	
NAR-2	M	Beryllium	NAR-2-5C-M	NONE	483266.47	1351190	3/11/97	0.74			mg/kg	0.74		-	mg/kg	
NAR-2	M	Beryllium	NAR-2-5C-M-D	NONE	483266.47	1351190	3/11/97	0.88			mg/kg	0.88		-	mg/kg	NAR-2-5C-M
NAR-2	M	Beryllium	NAR-2-6C-M	NONE	483414.75	1351292	3/11/97	0.52		B	mg/kg	0.52		-	mg/kg	
NAR-2	M	Beryllium	NAR-2-7C-M	NONE	483494.4	1351350	3/11/97	0.63			mg/kg	0.63		-	mg/kg	
NAR-2	M	Beryllium	NAR-2-8C-M	NONE	483611.14	1351434	3/11/97	0.88			mg/kg	0.88		-	mg/kg	
NAR-2	M	Beryllium	NAR-2-9C-M	NONE	483748.36	1351524	3/11/97	1.10			mg/kg	1.10		-	mg/kg	
NAR-2	R	Moisture Content	NAR-2-10C-R	NONE	483799.56	1351553	3/11/97	21.43			Percent			NV	Percent	
NAR-2	R	Moisture Content	NAR-2-11C-R	NONE	483938.19	1351639	3/12/97	20.82			Percent			NV	Percent	
NAR-2	R	Moisture Content	NAR-2-12C-R	NONE	484123.23	1351774	3/12/97	16.22			Percent			NV	Percent	
NAR-2	R	Moisture Content	NAR-2-13C-R	NONE	484215.39	1351829	3/12/97	20.55			Percent			NV	Percent	
NAR-2	R	Moisture Content	NAR-2-14C-R	NONE	484369.79	1351926	3/8/97	20.59			Percent			NV	Percent	
NAR-2	R	Moisture Content	NAR-2-15C-R	NONE	484408.77	1351959	3/8/97	18.28			Percent			NV	Percent	
NAR-2	R	Moisture Content	NAR-2-16C-R	NONE	484539.33	1352052	3/8/97	17.11			Percent			NV	Percent	
NAR-2	R	Moisture Content	NAR-2-1C-R	NONE	482786.46	1350954	3/11/97	20.40			Percent			NV	Percent	
NAR-2	R	Moisture Content	NAR-2-2C-R	NONE	482960.44	1351018	3/10/97	17.75			Percent			NV	Percent	
NAR-2	R	Moisture Content	NAR-2-3C-R	NONE	483053.93	1351061	3/10/97	11.19			Percent			NV	Percent	
NAR-2	R	Moisture Content	NAR-2-4C-R	NONE	483202.49	1351148	3/10/97	13.36			Percent			NV	Percent	
NAR-2	R	Moisture Content	NAR-2-5C-R	NONE	483266.47	1351190	3/11/97	13.60			Percent			NV	Percent	
NAR-2	R	Moisture Content	NAR-2-5C-R-D	NONE	483266.47	1351190	3/11/97	13.17			Percent			NV	Percent	NAR-2-5C-R
NAR-2	R	Moisture Content	NAR-2-6C-R	NONE	483414.75	1351292	3/11/97	12.73			Percent			NV	Percent	
NAR-2	R	Moisture Content	NAR-2-7C-R	NONE	483494.4	1351350	3/11/97	11.27			Percent			NV	Percent	
NAR-2	R	Moisture Content	NAR-2-8C-R	NONE	483611.14	1351434	3/11/97	13.78			Percent			NV	Percent	
NAR-2	R	Moisture Content	NAR-2-9C-R	NONE	483748.36	1351524	3/11/97	21.01			Percent			NV	Percent	
NAR-2	R	Radium-226	NAR-2-10C-R	NONE	483799.56	1351553	3/11/97	1.50	0.22		pCi/g	1.46	0.22	-	pCi/g	
NAR-2	R	Radium-226	NAR-2-11C-R	NONE	483938.19	1351639	3/12/97	1.30	0.19		pCi/g	1.29	0.19	-	pCi/g	
NAR-2	R	Radium-226	NAR-2-12C-R	NONE	484123.23	1351774	3/12/97	0.99	0.16		pCi/g	0.99	0.16	-	pCi/g	
NAR-2	R	Radium-226	NAR-2-13C-R	NONE	484215.39	1351829	3/12/97	1.20	0.19		pCi/g	1.22	0.19	-	pCi/g	
NAR-2	R	Radium-226	NAR-2-14C-R	NONE	484369.79	1351926	3/8/97	1.10	0.19		pCi/g	1.09	0.19	-	pCi/g	
NAR-2	R	Radium-226	NAR-2-15C-R	NONE	484408.77	1351959	3/8/97	1.20	0.18		pCi/g	1.24	0.18	-	pCi/g	
NAR-2	R	Radium-226	NAR-2-16C-R	NONE	484539.33	1352052	3/8/97	1.30	0.25		pCi/g	1.26	0.25	-	pCi/g	
NAR-2	R	Radium-226	NAR-2-1C-R	NONE	482786.46	1350954	3/11/97	1.60	0.24		pCi/g	1.60	0.24	-	pCi/g	
NAR-2	R	Radium-226	NAR-2-2C-R	NONE	482960.44	1351018	3/10/97	1.40	0.22		pCi/g	1.44	0.22	-	pCi/g	
NAR-2	R	Radium-226	NAR-2-3C-R	NONE	483053.93	1351061	3/10/97	0.76	0.14		pCi/g	0.76	0.14	-	pCi/g	
NAR-2	R	Radium-226	NAR-2-4C-R	NONE	483202.49	1351148	3/10/97	0.85	0.14		pCi/g	0.85	0.14	-	pCi/g	
NAR-2	R	Radium-226	NAR-2-5C-R	NONE	483266.47	1351190	3/11/97	0.87	0.15		pCi/g	0.87	0.15	-	pCi/g	
NAR-2	R	Radium-226	NAR-2-5C-R-D	NONE	483266.47	1351190	3/11/97	0.86	0.15		pCi/g	0.86	0.15	-	pCi/g	NAR-2-5C-R
NAR-2	R	Radium-226	NAR-2-6C-R	NONE	483414.75	1351292	3/11/97	0.82	0.14		pCi/g	0.82	0.14	-	pCi/g	
NAR-2	R	Radium-226	NAR-2-7C-R	NONE	483494.4	1351350	3/11/97	0.85	0.23		pCi/g	0.85	0.23	-	pCi/g	
NAR-2	R	Radium-226	NAR-2-8C-R	NONE	483611.14	1351434	3/11/97	1.00	0.17		pCi/g	1.03	0.17	-	pCi/g	

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A1P1 CERTIFICATION REPORT - APPENDIX B

							Laboratory Data				Validation Data				
CU Name	CU Type	Parameter	Sample ID	Suffix	Northing	Easting	Sample Date	Lab Result	TPU	Qualifier	Units	Val. Result	TPU	Qualifier	Units	Duplicate of
NAR-2	R	Radium-226	NAR-2-9C-R	NONE	483748.36	1351524	3/11/97	1.50	0.22		pCi/g	1.45	0.22	-	pCi/g	
NAR-2	R	Radium-228	NAR-2-10C-R	NONE	483799.56	1351553	3/11/97	1.20	0.28		pCi/g	1.23	0.28	-	pCi/g	
NAR-2	R	Radium-228	NAR-2-11C-R	NONE	483938.19	1351639	3/12/97	1.40	0.28		pCi/g	1.39	0.28	-	pCi/g	
NAR-2	R	Radium-228	NAR-2-12C-R	NONE	484123.23	1351774	3/12/97	0.93	0.20		pCi/g	0.93	0.20	-	pCi/g	
NAR-2	R	Radium-228	NAR-2-13C-R	NONE	484215.39	1351829	3/12/97	1.50	0.31		pCi/g	1.46	0.31	-	pCi/g	
NAR-2	R	Radium-228	NAR-2-14C-R	NONE	484369.79	1351926	3/8/97	1.30	0.31		pCi/g	1.32	0.31	-	pCi/g	
NAR-2	R	Radium-228	NAR-2-15C-R	NONE	484408.77	1351959	3/8/97	1.30	0.25		pCi/g	1.33	0.25	-	pCi/g	
NAR-2	R	Radium-228	NAR-2-16C-R	NONE	484539.33	1352052	3/8/97	1.40	0.28		pCi/g	1.38	0.28	-	pCi/g	
NAR-2	R	Radium-228	NAR-2-1C-R	NONE	482786.46	1350954	3/11/97	1.30	0.27		pCi/g	1.29	0.27	-	pCi/g	
NAR-2	R	Radium-228	NAR-2-2C-R	NONE	482960.44	1351018	3/10/97	1.40	0.29		pCi/g	1.43	0.29	-	pCi/g	
NAR-2	R	Radium-228	NAR-2-3C-R	NONE	483053.93	1351061	3/10/97	0.63	0.19		pCi/g	0.63	0.19	-	pCi/g	
NAR-2	R	Radium-228	NAR-2-4C-R	NONE	483202.49	1351148	3/10/97	0.82	0.20		pCi/g	0.82	0.20	-	pCi/g	
NAR-2	R	Radium-228	NAR-2-5C-R	NONE	483266.47	1351190	3/11/97	0.77	0.19		pCi/g	0.77	0.19	-	pCi/g	
NAR-2	R	Radium-228	NAR-2-5C-R-D	NONE	483266.47	1351190	3/11/97	0.83	0.20		pCi/g	0.83	0.20	-	pCi/g	NAR-2-5C-R
NAR-2	R	Radium-228	NAR-2-6C-R	NONE	483414.75	1351292	3/11/97	0.84	0.21		pCi/g	0.84	0.21	-	pCi/g	
NAR-2	R	Radium-228	NAR-2-7C-R	NONE	483494.4	1351350	3/11/97	0.45	0.27		pCi/g	0.45	0.27	J	pCi/g	
NAR-2	R	Radium-228	NAR-2-8C-R	NONE	483611.14	1351434	3/11/97	0.77	0.22		pCi/g	0.77	0.22	-	pCi/g	
NAR-2	R	Radium-228	NAR-2-9C-R	NONE	483748.36	1351524	3/11/97	1.50	0.29		pCi/g	1.46	0.29	-	pCi/g	
NAR-2	R	Thorium-228	NAR-2-10C-R	NONE	483799.56	1351553	3/11/97	1.10	0.25		pCi/g	1.10	0.24	-	pCi/g	
NAR-2	R	Thorium-228	NAR-2-11C-R	NONE	483938.19	1351639	3/12/97	1.10	0.24		pCi/g	1.11	0.23	-	pCi/g	
NAR-2	R	Thorium-228	NAR-2-12C-R	NONE	484123.23	1351774	3/12/97	0.95	0.23		pCi/g	0.95	0.21	-	pCi/g	
NAR-2	R	Thorium-228	NAR-2-13C-R	NONE	484215.39	1351829	3/12/97	1.10	0.23		pCi/g	1.05	0.22	-	pCi/g	
NAR-2	R	Thorium-228	NAR-2-14C-R	NONE	484369.79	1351926	3/8/97	1.20	0.28		pCi/g	1.17	0.26	-	pCi/g	
NAR-2	R	Thorium-228	NAR-2-15C-R	NONE	484408.77	1351959	3/8/97	0.94	0.26		pCi/g	0.94	0.25	-	pCi/g	
NAR-2	R	Thorium-228	NAR-2-16C-R	NONE	484539.33	1352052	3/8/97	1.10	0.26		pCi/g	1.08	0.25	-	pCi/g	
NAR-2	R	Thorium-228	NAR-2-1C-R	NONE	482786.46	1350954	3/11/97	1.40	0.30		pCi/g	1.45	0.29	-	pCi/g	
NAR-2	R	Thorium-228	NAR-2-2C-R	NONE	482960.44	1351018	3/10/97	1.40	0.31		pCi/g	1.40	0.29	-	pCi/g	
NAR-2	R	Thorium-228	NAR-2-3C-R	NONE	483053.93	1351061	3/10/97	0.75	0.24		pCi/g	0.75	0.21	-	pCi/g	
NAR-2	R	Thorium-228	NAR-2-4C-R	NONE	483202.49	1351148	3/10/97	0.70	0.24		pCi/g	0.70	0.21	-	pCi/g	
NAR-2	R	Thorium-228	NAR-2-5C-R	NONE	483266.47	1351190	3/11/97	0.82	0.22		pCi/g	0.86	0.20	-	pCi/g	
NAR-2	R	Thorium-228	NAR-2-5C-R-D	NONE	483266.47	1351190	3/11/97	0.83	0.22		pCi/g	0.83	0.19	J	pCi/g	NAR-2-5C-R
NAR-2	R	Thorium-228	NAR-2-6C-R	NONE	483414.75	1351292	3/11/97	0.94	0.27		pCi/g	0.99	0.25	-	pCi/g	
NAR-2	R	Thorium-228	NAR-2-7C-R	NONE	483494.4	1351350	3/11/97	0.73	0.19		pCi/g	0.77	0.17	-	pCi/g	
NAR-2	R	Thorium-228	NAR-2-8C-R	NONE	483611.14	1351434	3/11/97	0.79	0.26		pCi/g	0.83	0.25	-	pCi/g	
NAR-2	R	Thorium-228	NAR-2-9C-R	NONE	483748.36	1351524	3/11/97	1.20	0.28		pCi/g	1.28	0.27	-	pCi/g	
NAR-2	R	Thorium-232	NAR-2-10C-R	NONE	483799.56	1351553	3/11/97	1.10	0.23		pCi/g	1.12	0.23	-	pCi/g	
NAR-2	R	Thorium-232	NAR-2-11C-R	NONE	483938.19	1351639	3/12/97	1.10	0.23		pCi/g	1.17	0.23	-	pCi/g	
NAR-2	R	Thorium-232	NAR-2-12C-R	NONE	484123.23	1351774	3/12/97	1.10	0.22		pCi/g	1.08	0.22	-	pCi/g	
NAR-2	R	Thorium-232	NAR-2-13C-R	NONE	484215.39	1351829	3/12/97	1.10	0.22		pCi/g	1.12	0.22	-	pCi/g	
NAR-2	R	Thorium-232	NAR-2-14C-R	NONE	484369.79	1351926	3/8/97	1.00	0.21		pCi/g	1.03	0.21	-	pCi/g	

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A1P1 CERTIFICATION REPORT - APPENDIX B

								Laboratory Data				Validation Data				
CU Name	CU Type	Parameter	Sample ID	Suffix	Northing	Easting	Sample Date	Lab Result	TPU	Qualifier	Units	Val. Result	TPU	Qualifier	Units	Duplicate of
NAR-2	R	Thorium-232	NAR-2-15C-R	NONE	484408.77	1351959	3/8/97	1.10	0.23		pCi/g	1.05	0.23	-	pCi/g	
NAR-2	R	Thorium-232	NAR-2-16C-R	NONE	484539.33	1352052	3/8/97	1.20	0.24		pCi/g	1.18	0.24	-	pCi/g	
NAR-2	R	Thorium-232	NAR-2-1C-R	NONE	482786.46	1350954	3/11/97	1.10	0.22		pCi/g	1.07	0.21	-	pCi/g	
NAR-2	R	Thorium-232	NAR-2-2C-R	NONE	482960.44	1351018	3/10/97	1.20	0.24		pCi/g	1.17	0.24	-	pCi/g	
NAR-2	R	Thorium-232	NAR-2-3C-R	NONE	483053.93	1351061	3/10/97	0.56	0.14		pCi/g	0.57	0.14	-	pCi/g	
NAR-2	R	Thorium-232	NAR-2-4C-R	NONE	483202.49	1351148	3/10/97	0.88	0.20		pCi/g	0.16	0.19	J	pCi/g	
NAR-2	R	Thorium-232	NAR-2-5C-R	NONE	483266.47	1351190	3/11/97	0.77	0.17		pCi/g	0.77	0.17	-	pCi/g	
NAR-2	R	Thorium-232	NAR-2-5C-R-D	NONE	483266.47	1351190	3/11/97	0.65	0.16		pCi/g	0.65	0.15	J	pCi/g	NAR-2-5C-R
NAR-2	R	Thorium-232	NAR-2-6C-R	NONE	483414.75	1351292	3/11/97	0.91	0.22		pCi/g	0.92	0.22	-	pCi/g	
NAR-2	R	Thorium-232	NAR-2-7C-R	NONE	483494.4	1351350	3/11/97	0.77	0.17		pCi/g	0.78	0.17	-	pCi/g	
NAR-2	R	Thorium-232	NAR-2-8C-R	NONE	483611.14	1351434	3/11/97	0.72	0.22		pCi/g	0.73	0.22	-	pCi/g	
NAR-2	R	Thorium-232	NAR-2-9C-R	NONE	483748.36	1351524	3/11/97	1.20	0.24		pCi/g	1.18	0.24	-	pCi/g	
NAR-2	R	Uranium, Total	NAR-2-10C-R	NONE	483799.56	1351553	3/11/97				ug/g	3.51	4.38	J	ug/g	
NAR-2	R	Uranium, Total	NAR-2-11C-R	NONE	483938.19	1351639	3/12/97				ug/g	4.41	4.63	J	ug/g	
NAR-2	R	Uranium, Total	NAR-2-12C-R	NONE	484123.23	1351774	3/12/97				ug/g	3.98	2.66	J	ug/g	
NAR-2	R	Uranium, Total	NAR-2-13C-R	NONE	484215.39	1351829	3/12/97				ug/g	7.39	5.05	J	ug/g	
NAR-2	R	Uranium, Total	NAR-2-14C-R	NONE	484369.79	1351926	3/8/97				ug/g	10.74	5.81	J	ug/g	
NAR-2	R	Uranium, Total	NAR-2-15C-R	NONE	484408.77	1351959	3/8/97				ug/g	7.51	4.95	J	ug/g	
NAR-2	R	Uranium, Total	NAR-2-16C-R	NONE	484539.33	1352052	3/8/97				ug/g	9.03	4.47	-	ug/g	
NAR-2	R	Uranium, Total	NAR-2-1C-R	NONE	482786.46	1350954	3/11/97				ug/g	5.48	4.29	J	ug/g	
NAR-2	R	Uranium, Total	NAR-2-2C-R	NONE	482960.44	1351018	3/10/97				ug/g	8.13	5.33	J	ug/g	
NAR-2	R	Uranium, Total	NAR-2-3C-R	NONE	483053.93	1351061	3/10/97				ug/g	3.50	3.42	J	ug/g	
NAR-2	R	Uranium, Total	NAR-2-4C-R	NONE	483202.49	1351148	3/10/97				ug/g	2.71		U	ug/g	
NAR-2	R	Uranium, Total	NAR-2-5C-R	NONE	483266.47	1351190	3/11/97				ug/g	3.80	3.76	J	ug/g	
NAR-2	R	Uranium, Total	NAR-2-5C-R-D	NONE	483266.47	1351190	3/11/97				ug/g	3.55	3.61	J	ug/g	NAR-2-5C-R
NAR-2	R	Uranium, Total	NAR-2-6C-R	NONE	483414.75	1351292	3/11/97				ug/g	4.72	3.81	J	ug/g	
NAR-2	R	Uranium, Total	NAR-2-7C-R	NONE	483494.4	1351350	3/11/97				ug/g	7.99	6.86	J	ug/g	
NAR-2	R	Uranium, Total	NAR-2-8C-R	NONE	483611.14	1351434	3/11/97				ug/g	5.09	4.51	J	ug/g	
NAR-2	R	Uranium, Total	NAR-2-9C-R	NONE	483748.36	1351524	3/11/97				ug/g	5.33	5.04	J	ug/g	
NAR-2	R	Uranium-238	NAR-2-10C-R	NONE	483799.56	1351553	3/11/97	1.20	1.50		pCi/g	1.17	1.46	J	pCi/g	
NAR-2	R	Uranium-238	NAR-2-11C-R	NONE	483938.19	1351639	3/12/97	1.50	1.50		pCi/g	1.47	1.55	J	pCi/g	
NAR-2	R	Uranium-238	NAR-2-12C-R	NONE	484123.23	1351774	3/12/97	1.30	0.89		pCi/g	1.33	0.89	J	pCi/g	
NAR-2	R	Uranium-238	NAR-2-13C-R	NONE	484215.39	1351829	3/12/97	2.50	1.70		pCi/g	2.47	1.68	J	pCi/g	
NAR-2	R	Uranium-238	NAR-2-14C-R	NONE	484369.79	1351926	3/8/97	3.60	1.90		pCi/g	3.58	1.94	J	pCi/g	
NAR-2	R	Uranium-238	NAR-2-15C-R	NONE	484408.77	1351959	3/8/97	2.50	1.70		pCi/g	2.51	1.65	J	pCi/g	
NAR-2	R	Uranium-238	NAR-2-16C-R	NONE	484539.33	1352052	3/8/97	3.00	1.50		pCi/g	3.01	1.49	-	pCi/g	
NAR-2	R	Uranium-238	NAR-2-1C-R	NONE	482786.46	1350954	3/11/97	1.80	1.40		pCi/g	1.83	1.43	J	pCi/g	
NAR-2	R	Uranium-238	NAR-2-2C-R	NONE	482960.44	1351018	3/10/97	2.70	1.80		pCi/g	2.71	1.78	J	pCi/g	
NAR-2	R	Uranium-238	NAR-2-3C-R	NONE	483053.93	1351061	3/10/97	1.20	1.10		pCi/g	1.17	1.14	J	pCi/g	
NAR-2	R	Uranium-238	NAR-2-4C-R	NONE	483202.49	1351148	3/10/97	0.47	1.30	U	pCi/g	0.90		U	pCi/g	

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							Laboratory Data					Validation Data				
CU Name	CU Type	Parameter	Sample ID	Suffix	Northing	Easting	Sample Date	Lab Result	TPU	Qualifier	Units	Val. Result	TPU	Qualifier	Units	Duplicate of
NAR-2	R	Uranium-238	NAR-2-5C-R	NONE	483266.47	1351190	3/11/97	1.30	1.30		pCi/g	1.27	1.25	J	pCi/g	
NAR-2	R	Uranium-238	NAR-2-5C-R-D	NONE	483266.47	1351190	3/11/97	1.20	1.20		pCi/g	1.19	1.20	J	pCi/g	NAR-2-5C-R
NAR-2	R	Uranium-238	NAR-2-6C-R	NONE	483414.75	1351292	3/11/97	1.60	1.30		pCi/g	1.58	1.27	J	pCi/g	
NAR-2	R	Uranium-238	NAR-2-7C-R	NONE	483494.4	1351350	3/11/97	2.70	2.30		pCi/g	2.66	2.29	J	pCi/g	
NAR-2	R	Uranium-238	NAR-2-8C-R	NONE	483611.14	1351434	3/11/97	1.70	1.50		pCi/g	1.70	1.51	J	pCi/g	
NAR-2	R	Uranium-238	NAR-2-9C-R	NONE	483748.36	1351524	3/11/97	1.80	1.70		pCi/g	1.78	1.68	J	pCi/g	
NAR-3	M	Arsenic	NAR-3-10C-M	NONE	482394.95	1350934	3/9/97	12.90		N	mg/kg	12.90		J	mg/kg	
NAR-3	M	Arsenic	NAR-3-11C-M	NONE	482424.89	1350937	3/9/97	7.80		N	mg/kg	7.80		J	mg/kg	
NAR-3	M	Arsenic	NAR-3-12C-M	NONE	482499.19	1350925	3/11/97	8.00		N	mg/kg	8.00		J	mg/kg	
NAR-3	M	Arsenic	NAR-3-13C-M	NONE	482542.69	1350941	3/11/97	9.50		N	mg/kg	9.50		J	mg/kg	
NAR-3	M	Arsenic	NAR-3-14C-M	NONE	482597.05	1350935	3/11/97	7.80		N	mg/kg	7.80		J	mg/kg	
NAR-3	M	Arsenic	NAR-3-15C-M	NONE	482629.60	1350950	3/13/97	10.70			mg/kg	10.70		-	mg/kg	
NAR-3	M	Arsenic	NAR-3-16C-M	NONE	482677.38	1350946	3/11/97	11.60		N	mg/kg	11.60		J	mg/kg	
NAR-3	M	Arsenic	NAR-3-1C-M	NONE	481901.50	1350911	3/8/97	6.40		N	mg/kg	6.40		J	mg/kg	
NAR-3	M	Arsenic	NAR-3-2C-M	NONE	481998.34	1350913	3/8/97	5.30		N	mg/kg	5.30		UJ	mg/kg	
NAR-3	M	Arsenic	NAR-3-3C-M	NONE	482018.06	1350925	3/11/97	7.80			mg/kg	7.80		-	mg/kg	
NAR-3	M	Arsenic	NAR-3-3C-M-D	NONE	482018.06	1350925	3/11/97	8.90			mg/kg	8.90		-	mg/kg	NAR-3-3C-M
NAR-3	M	Arsenic	NAR-3-4C-M	NONE	482083	1350928	3/8/97	6.60		N	mg/kg	6.60		J	mg/kg	
NAR-3	M	Arsenic	NAR-3-5C-M	NONE	482129.01	1350928	3/8/97	10.50		N	mg/kg	10.50		J	mg/kg	
NAR-3	M	Arsenic	NAR-3-6C-M	NONE	482194.31	1350930	3/8/97	12.30		N	mg/kg	12.30		J	mg/kg	
NAR-3	M	Arsenic	NAR-3-7C-M	NONE	482208.96	1350931	3/8/97	6.90		N	mg/kg	6.90		J	mg/kg	
NAR-3	M	Arsenic	NAR-3-8C-M	NONE	482283.13	1350925	3/8/97	5.60		N	mg/kg	5.60		UJ	mg/kg	
NAR-3	M	Arsenic	NAR-3-9C-M	NONE	482303.08	1350928	3/9/97	12.90		N	mg/kg	12.90		J	mg/kg	
NAR-3	M	Beryllium	NAR-3-10C-M	NONE	482394.95	1350934	3/9/97	1.30			mg/kg	1.30		-	mg/kg	
NAR-3	M	Beryllium	NAR-3-11C-M	NONE	482424.89	1350937	3/9/97	0.84			mg/kg	0.84		-	mg/kg	
NAR-3	M	Beryllium	NAR-3-12C-M	NONE	482499.19	1350925	3/11/97	0.67			mg/kg	0.67		-	mg/kg	
NAR-3	M	Beryllium	NAR-3-13C-M	NONE	482542.69	1350941	3/11/97	0.99			mg/kg	0.99		-	mg/kg	
NAR-3	M	Beryllium	NAR-3-14C-M	NONE	482597.05	1350935	3/11/97	0.72			mg/kg	0.72		-	mg/kg	
NAR-3	M	Beryllium	NAR-3-15C-M	NONE	482629.60	1350950	3/13/97	1.70			mg/kg	1.70		-	mg/kg	
NAR-3	M	Beryllium	NAR-3-16C-M	NONE	482677.38	1350946	3/11/97	1.00			mg/kg	1.00		-	mg/kg	
NAR-3	M	Beryllium	NAR-3-1C-M	NONE	481901.50	1350911	3/8/97	0.72			mg/kg	0.72		-	mg/kg	
NAR-3	M	Beryllium	NAR-3-2C-M	NONE	481998.34	1350913	3/8/97	1.30			mg/kg	1.30		-	mg/kg	
NAR-3	M	Beryllium	NAR-3-3C-M	NONE	482018.06	1350925	3/11/97	0.98			mg/kg	0.98		-	mg/kg	
NAR-3	M	Beryllium	NAR-3-3C-M-D	NONE	482018.06	1350925	3/11/97	1.10			mg/kg	1.10		-	mg/kg	NAR-3-3C-M
NAR-3	M	Beryllium	NAR-3-4C-M	NONE	482083	1350928	3/8/97	0.51		B	mg/kg	0.51		-	mg/kg	
NAR-3	M	Beryllium	NAR-3-5C-M	NONE	482129.01	1350928	3/8/97	0.76			mg/kg	0.76		-	mg/kg	
NAR-3	M	Beryllium	NAR-3-6C-M	NONE	482194.31	1350930	3/8/97	1.60			mg/kg	1.60		-	mg/kg	
NAR-3	M	Beryllium	NAR-3-7C-M	NONE	482208.96	1350931	3/8/97	0.64			mg/kg	0.64		-	mg/kg	
NAR-3	M	Beryllium	NAR-3-8C-M	NONE	482283.13	1350925	3/8/97	0.68			mg/kg	0.68		-	mg/kg	

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							Laboratory Data				Validation Data				
CU Name	CU Type	Parameter	Sample ID	Suffix	Northing	Easting	Sample Date	Lab Result	TPU	Qualifier	Units	Val. Result	TPU	Qualifier	Units	Duplicate of
NAR-3	M	Beryllium	NAR-3-9C-M	NONE	482303.08	1350928	3/9/97	0.69			mg/kg	0.69		-	mg/kg	
NAR-3	R	Moisture Content	NAR-3-10C-R	NONE	482394.95	1350934	3/9/97	17.00			Percent			NV	Percent	
NAR-3	R	Moisture Content	NAR-3-11C-R	NONE	482424.89	1350937	3/9/97	16.80			Percent			NV	Percent	
NAR-3	R	Moisture Content	NAR-3-12C-R	NONE	482499.19	1350925	3/11/97	16.25			Percent			NV	Percent	
NAR-3	R	Moisture Content	NAR-3-13C-R	NONE	482542.69	1350941	3/11/97	18.95			Percent			NV	Percent	
NAR-3	R	Moisture Content	NAR-3-14C-R	NONE	482597.05	1350935	3/11/97	13.15			Percent			NV	Percent	
NAR-3	R	Moisture Content	NAR-3-15C-R	NONE	482629.60	1350950	3/13/97	19.70			Percent			NV	Percent	
NAR-3	R	Moisture Content	NAR-3-16C-R	NONE	482677.38	1350946	3/11/97	20.89			Percent			NV	Percent	
NAR-3	R	Moisture Content	NAR-3-1C-R	NONE	481901.50	1350911	3/8/97	12.00			Percent			NV	Percent	
NAR-3	R	Moisture Content	NAR-3-2C-R	NONE	481998.34	1350913	3/8/97	16.30			Percent			NV	Percent	
NAR-3	R	Moisture Content	NAR-3-3C-R	NONE	482018.06	1350925	3/11/97	15.53			Percent			NV	Percent	
NAR-3	R	Moisture Content	NAR-3-3C-R-D	NONE	482018.06	1350925	3/11/97	15.62			Percent			NV	Percent	NAR-3-3C-R
NAR-3	R	Moisture Content	NAR-3-4C-R	NONE	482083	1350928	3/8/97	16.40			Percent			NV	Percent	
NAR-3	R	Moisture Content	NAR-3-5C-R	NONE	482129.01	1350928	3/8/97	14.30			Percent			NV	Percent	
NAR-3	R	Moisture Content	NAR-3-6C-R	NONE	482194.31	1350930	3/8/97	13.40			Percent			NV	Percent	
NAR-3	R	Moisture Content	NAR-3-7C-R	NONE	482208.96	1350931	3/8/97	16.40			Percent			NV	Percent	
NAR-3	R	Moisture Content	NAR-3-8C-R	NONE	482283.13	1350925	3/8/97	20.60			Percent			NV	Percent	
NAR-3	R	Moisture Content	NAR-3-9C-R	NONE	482303.08	1350928	3/9/97	21.20			Percent			NV	Percent	
NAR-3	R	Radium-226	NAR-3-10C-R	NONE	482394.95	1350934	3/9/97	1.40	0.15		pCi/g	1.38	0.15	J	pCi/g	
NAR-3	R	Radium-226	NAR-3-11C-R	NONE	482424.89	1350937	3/9/97	1.40	0.15		pCi/g	1.37	0.15	J	pCi/g	
NAR-3	R	Radium-226	NAR-3-12C-R	NONE	482499.19	1350925	3/11/97	1.10	0.19		pCi/g	1.13	0.19	-	pCi/g	
NAR-3	R	Radium-226	NAR-3-13C-R	NONE	482542.69	1350941	3/11/97	1.50	0.28		pCi/g	1.48	0.28	-	pCi/g	
NAR-3	R	Radium-226	NAR-3-14C-R	NONE	482597.05	1350935	3/11/97	0.94	0.15		pCi/g	0.94	0.15	-	pCi/g	
NAR-3	R	Radium-226	NAR-3-15C-R	NONE	482629.60	1350950	3/13/97	1.40	0.20		pCi/g	1.35	0.20	-	pCi/g	
NAR-3	R	Radium-226	NAR-3-16C-R	NONE	482677.38	1350946	3/11/97	1.30	0.19		pCi/g	1.29	0.19	-	pCi/g	
NAR-3	R	Radium-226	NAR-3-1C-R	NONE	481901.50	1350911	3/8/97	0.87	0.13		pCi/g	0.87	0.13	-	pCi/g	
NAR-3	R	Radium-226	NAR-3-2C-R	NONE	481998.34	1350913	3/8/97	1.00	0.13		pCi/g	1.00	0.13	-	pCi/g	
NAR-3	R	Radium-226	NAR-3-3C-R	NONE	482018.06	1350925	3/11/97	1.30	0.18		pCi/g	1.28	0.18	R	pCi/g	
NAR-3	R	Radium-226	NAR-3-3C-R-D	NONE	482018.06	1350925	3/11/97	1.10	0.19		pCi/g	1.14	0.19	R	pCi/g	NAR-3-3C-R
NAR-3	R	Radium-226	NAR-3-4C-R	NONE	482083	1350928	3/8/97	1.30	0.14		pCi/g	1.32	0.14	J	pCi/g	
NAR-3	R	Radium-226	NAR-3-5C-R	NONE	482129.01	1350928	3/8/97	1.30	0.16		pCi/g	1.32	0.16	J	pCi/g	
NAR-3	R	Radium-226	NAR-3-6C-R	NONE	482194.31	1350930	3/8/97	0.99	0.12		pCi/g	0.99	0.12	J	pCi/g	
NAR-3	R	Radium-226	NAR-3-7C-R	NONE	482208.96	1350931	3/8/97	1.20	0.13		pCi/g	1.19	0.13	J	pCi/g	
NAR-3	R	Radium-226	NAR-3-8C-R	NONE	482283.13	1350925	3/8/97	1.50	0.17		pCi/g	1.53	0.17	J	pCi/g	
NAR-3	R	Radium-226	NAR-3-9C-R	NONE	482303.08	1350928	3/9/97	1.60	0.17		pCi/g	1.60	0.17	J	pCi/g	
NAR-3	R	Radium-228	NAR-3-10C-R	NONE	482394.95	1350934	3/9/97	1.50	0.37		pCi/g	1.46	0.37	-	pCi/g	
NAR-3	R	Radium-228	NAR-3-11C-R	NONE	482424.89	1350937	3/9/97	1.50	0.37		pCi/g	1.50	0.37	-	pCi/g	
NAR-3	R	Radium-228	NAR-3-12C-R	NONE	482499.19	1350925	3/11/97	1.10	0.25		pCi/g	1.10	0.25	-	pCi/g	
NAR-3	R	Radium-228	NAR-3-13C-R	NONE	482542.69	1350941	3/11/97	1.20	0.26		pCi/g	1.16	0.26	-	pCi/g	
NAR-3	R	Radium-228	NAR-3-14C-R	NONE	482597.05	1350935	3/11/97	0.73	0.21		pCi/g	0.73	0.21	-	pCi/g	

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CU Name	CU Type	Parameter	Sample ID	Suffix	Northing	Easting	Laboratory Data					Validation Data				
							Sample Date	Lab Result	TPU	Qualifier	Units	Val. Result	TPU	Qualifier	Units	Duplicate of
NAR-3	R	Radium-228	NAR-3-15C-R	NONE	482629.60	1350950	3/13/97	1.40	0.27		pCi/g	1.36	0.27	-	pCi/g	
NAR-3	R	Radium-228	NAR-3-16C-R	NONE	482677.38	1350946	3/11/97	1.40	0.26		pCi/g	1.41	0.26	-	pCi/g	
NAR-3	R	Radium-228	NAR-3-1C-R	NONE	481901.50	1350911	3/8/97	0.83	0.23		pCi/g	0.83	0.23	-	pCi/g	
NAR-3	R	Radium-228	NAR-3-2C-R	NONE	481998.34	1350913	3/8/97	0.84	0.26		pCi/g	0.84	0.26	-	pCi/g	
NAR-3	R	Radium-228	NAR-3-3C-R	NONE	482018.06	1350925	3/11/97	1.00	0.27		pCi/g	1.05	0.27	R	pCi/g	
NAR-3	R	Radium-228	NAR-3-3C-R-D	NONE	482018.06	1350925	3/11/97	1.20	0.27		pCi/g	1.16	0.27	R	pCi/g	NAR-3-3C-R
NAR-3	R	Radium-228	NAR-3-4C-R	NONE	482083	1350928	3/8/97	1.10	0.32		pCi/g	1.12	0.32	-	pCi/g	
NAR-3	R	Radium-228	NAR-3-5C-R	NONE	482129.01	1350928	3/8/97	1.10	0.37		pCi/g	1.10	0.37	-	pCi/g	
NAR-3	R	Radium-228	NAR-3-6C-R	NONE	482194.31	1350930	3/8/97	1.10	0.27		pCi/g	1.06	0.27	-	pCi/g	
NAR-3	R	Radium-228	NAR-3-7C-R	NONE	482208.96	1350931	3/8/97	0.89	0.26		pCi/g	0.89	0.26	-	pCi/g	
NAR-3	R	Radium-228	NAR-3-8C-R	NONE	482283.13	1350925	3/8/97	1.40	0.34		pCi/g	1.40	0.34	-	pCi/g	
NAR-3	R	Radium-228	NAR-3-9C-R	NONE	482303.08	1350928	3/9/97	1.60	0.43		pCi/g	1.64	0.43	-	pCi/g	
NAR-3	R	Thorium-228	NAR-3-10C-R	NONE	482394.95	1350934	3/9/97	1.50	0.65		pCi/g	1.52	0.65	J	pCi/g	
NAR-3	R	Thorium-228	NAR-3-11C-R	NONE	482424.89	1350937	3/9/97	1.80	0.74		pCi/g	1.77	0.74	J	pCi/g	
NAR-3	R	Thorium-228	NAR-3-12C-R	NONE	482499.19	1350925	3/11/97	0.98	0.25		pCi/g	0.98	0.22	J	pCi/g	
NAR-3	R	Thorium-228	NAR-3-13C-R	NONE	482542.69	1350941	3/11/97	1.10	0.27		pCi/g	1.11	0.25	-	pCi/g	
NAR-3	R	Thorium-228	NAR-3-14C-R	NONE	482597.05	1350935	3/11/97	0.85	0.23		pCi/g	0.85	0.21	-	pCi/g	
NAR-3	R	Thorium-228	NAR-3-15C-R	NONE	482629.60	1350950	3/13/97	1.10	0.24		pCi/g	1.17	0.23	-	pCi/g	
NAR-3	R	Thorium-228	NAR-3-16C-R	NONE	482677.38	1350946	3/11/97	1.10	0.28		pCi/g	1.14	0.26	-	pCi/g	
NAR-3	R	Thorium-228	NAR-3-1C-R	NONE	481901.50	1350911	3/8/97	1.10	0.45		pCi/g	1.08	0.45	J	pCi/g	
NAR-3	R	Thorium-228	NAR-3-2C-R	NONE	481998.34	1350913	3/8/97	0.95	0.44		pCi/g	0.95	0.44	J	pCi/g	
NAR-3	R	Thorium-228	NAR-3-3C-R	NONE	482018.06	1350925	3/11/97	1.00	0.28		pCi/g	1.01	0.25	R	pCi/g	
NAR-3	R	Thorium-228	NAR-3-3C-R-D	NONE	482018.06	1350925	3/11/97	1.10	0.28		pCi/g	1.13	0.26	R	pCi/g	NAR-3-3C-R
NAR-3	R	Thorium-228	NAR-3-4C-R	NONE	482083	1350928	3/8/97	1.30	0.50		pCi/g	1.31	0.50	J	pCi/g	
NAR-3	R	Thorium-228	NAR-3-5C-R	NONE	482129.01	1350928	3/8/97	1.10	0.43		pCi/g	1.14	0.43	J	pCi/g	
NAR-3	R	Thorium-228	NAR-3-6C-R	NONE	482194.31	1350930	3/8/97	1.30	0.49		pCi/g	1.30	0.49	J	pCi/g	
NAR-3	R	Thorium-228	NAR-3-7C-R	NONE	482208.96	1350931	3/8/97	1.10	0.39		pCi/g	1.06	0.39	J	pCi/g	
NAR-3	R	Thorium-228	NAR-3-8C-R	NONE	482283.13	1350925	3/8/97	1.60	0.55		pCi/g	1.62	0.55	-	pCi/g	
NAR-3	R	Thorium-228	NAR-3-9C-R	NONE	482303.08	1350928	3/9/97	1.60	0.55		pCi/g	1.55	0.55	J	pCi/g	
NAR-3	R	Thorium-232	NAR-3-10C-R	NONE	482394.95	1350934	3/9/97	1.30	0.55		pCi/g	1.29	0.55	J	pCi/g	
NAR-3	R	Thorium-232	NAR-3-11C-R	NONE	482424.89	1350937	3/9/97	1.40	0.59		pCi/g	1.42	0.59	J	pCi/g	
NAR-3	R	Thorium-232	NAR-3-12C-R	NONE	482499.19	1350925	3/11/97	1.10	0.22		pCi/g	1.10	0.22	J	pCi/g	
NAR-3	R	Thorium-232	NAR-3-13C-R	NONE	482542.69	1350941	3/11/97	0.94	0.21		pCi/g	0.95	0.21	-	pCi/g	
NAR-3	R	Thorium-232	NAR-3-14C-R	NONE	482597.05	1350935	3/11/97	0.91	0.19		pCi/g	0.92	0.19	-	pCi/g	
NAR-3	R	Thorium-232	NAR-3-15C-R	NONE	482629.60	1350950	3/13/97	1.30	0.25		pCi/g	1.35	0.25	-	pCi/g	
NAR-3	R	Thorium-232	NAR-3-16C-R	NONE	482677.38	1350946	3/11/97	1.10	0.23		pCi/g	1.06	0.23	-	pCi/g	
NAR-3	R	Thorium-232	NAR-3-1C-R	NONE	481901.50	1350911	3/8/97	0.82	0.35		pCi/g	0.82	0.35	J	pCi/g	
NAR-3	R	Thorium-232	NAR-3-2C-R	NONE	481998.34	1350913	3/8/97	0.70	0.33		pCi/g	0.70	0.33	J	pCi/g	
NAR-3	R	Thorium-232	NAR-3-3C-R	NONE	482018.06	1350925	3/11/97	0.99	0.22		pCi/g	1.00	0.22	R	pCi/g	
NAR-3	R	Thorium-232	NAR-3-3C-R-D	NONE	482018.06	1350925	3/11/97	1.00	0.21		pCi/g	1.00	0.21	R	pCi/g	NAR-3-3C-R

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							Laboratory Data				Validation Data				
CU Name	CU Type	Parameter	Sample ID	Suffix	Northing	Easting	Sample Date	Lab Result	TPU	Qualifier	Units	Val. Result	TPU	Qualifier	Units	Duplicate of
NAR-3	R	Thorium-232	NAR-3-4C-R	NONE	482083	1350928	3/8/97	1.00	0.40		pCi/g	1.03	0.40	J	pCi/g	
NAR-3	R	Thorium-232	NAR-3-5C-R	NONE	482129.01	1350928	3/8/97	1.10	0.40		pCi/g	1.06	0.40	J	pCi/g	
NAR-3	R	Thorium-232	NAR-3-6C-R	NONE	482194.31	1350930	3/8/97	0.94	0.36		pCi/g	0.94	0.36	J	pCi/g	
NAR-3	R	Thorium-232	NAR-3-7C-R	NONE	482208.96	1350931	3/8/97	0.91	0.34		pCi/g	0.91	0.34	J	pCi/g	
NAR-3	R	Thorium-232	NAR-3-8C-R	NONE	482283.13	1350925	3/8/97	1.50	0.50		pCi/g	1.48	0.50	-	pCi/g	
NAR-3	R	Thorium-232	NAR-3-9C-R	NONE	482303.08	1350928	3/9/97	1.40	0.48		pCi/g	1.35	0.48	J	pCi/g	
NAR-3	R	Uranium, Total	NAR-3-10C-R	NONE	482394.95	1350934	3/9/97				ug/g	1.81		U	ug/g	
NAR-3	R	Uranium, Total	NAR-3-11C-R	NONE	482424.89	1350937	3/9/97				ug/g	1.66	0.82	-	ug/g	
NAR-3	R	Uranium, Total	NAR-3-12C-R	NONE	482499.19	1350925	3/11/97				ug/g	6.54	4.12	J	ug/g	
NAR-3	R	Uranium, Total	NAR-3-13C-R	NONE	482542.69	1350941	3/11/97				ug/g	2.79		U	ug/g	
NAR-3	R	Uranium, Total	NAR-3-14C-R	NONE	482597.05	1350935	3/11/97				ug/g	2.15		U	ug/g	
NAR-3	R	Uranium, Total	NAR-3-15C-R	NONE	482629.60	1350950	3/13/97				ug/g	3.59	4.76	J	ug/g	
NAR-3	R	Uranium, Total	NAR-3-16C-R	NONE	482677.38	1350946	3/11/97				ug/g	1.81		U	ug/g	
NAR-3	R	Uranium, Total	NAR-3-1C-R	NONE	481901.50	1350911	3/8/97				ug/g	1.17		U	ug/g	
NAR-3	R	Uranium, Total	NAR-3-2C-R	NONE	481998.34	1350913	3/8/97				ug/g	2.68		U	ug/g	
NAR-3	R	Uranium, Total	NAR-3-3C-R	NONE	482018.06	1350925	3/11/97				ug/g	2.77	4.47	R	ug/g	
NAR-3	R	Uranium, Total	NAR-3-3C-R-D	NONE	482018.06	1350925	3/11/97				ug/g	6.28	3.66	R	ug/g	NAR-3-3C-R
NAR-3	R	Uranium, Total	NAR-3-4C-R	NONE	482083	1350928	3/8/97				ug/g	3.43		U	ug/g	
NAR-3	R	Uranium, Total	NAR-3-5C-R	NONE	482129.01	1350928	3/8/97				ug/g	3.38		U	ug/g	
NAR-3	R	Uranium, Total	NAR-3-6C-R	NONE	482194.31	1350930	3/8/97				ug/g	2.47	1.02	-	ug/g	
NAR-3	R	Uranium, Total	NAR-3-7C-R	NONE	482208.96	1350931	3/8/97				ug/g	3.44		U	ug/g	
NAR-3	R	Uranium, Total	NAR-3-8C-R	NONE	482283.13	1350925	3/8/97				ug/g	1.21		U	ug/g	
NAR-3	R	Uranium, Total	NAR-3-9C-R	NONE	482303.08	1350928	3/9/97				ug/g	3.75		U	ug/g	
NAR-3	R	Uranium-238	NAR-3-10C-R	NONE	482394.95	1350934	3/9/97	0.43	0.36	U	pCi/g	0.60		U	pCi/g	
NAR-3	R	Uranium-238	NAR-3-11C-R	NONE	482424.89	1350937	3/9/97	0.55	0.27		pCi/g	0.55	0.27	-	pCi/g	
NAR-3	R	Uranium-238	NAR-3-12C-R	NONE	482499.19	1350925	3/11/97	2.20	1.40		pCi/g	2.18	1.38	J	pCi/g	
NAR-3	R	Uranium-238	NAR-3-13C-R	NONE	482542.69	1350941	3/11/97	0.69	1.30	U	pCi/g	0.93		U	pCi/g	
NAR-3	R	Uranium-238	NAR-3-14C-R	NONE	482597.05	1350935	3/11/97	0.50	1.10	U	pCi/g	0.72		U	pCi/g	
NAR-3	R	Uranium-238	NAR-3-15C-R	NONE	482629.60	1350950	3/13/97	1.20	1.60		pCi/g	1.20	1.59	J	pCi/g	
NAR-3	R	Uranium-238	NAR-3-16C-R	NONE	482677.38	1350946	3/11/97	0.34	0.98	U	pCi/g	0.60		U	pCi/g	
NAR-3	R	Uranium-238	NAR-3-1C-R	NONE	481901.50	1350911	3/8/97	0.23	0.23	U	pCi/g	0.39		U	pCi/g	
NAR-3	R	Uranium-238	NAR-3-2C-R	NONE	481998.34	1350913	3/8/97	-0.37	0.52	U	pCi/g	0.89		U	pCi/g	
NAR-3	R	Uranium-238	NAR-3-3C-R	NONE	482018.06	1350925	3/11/97	0.92	1.50	U	pCi/g	0.92	1.49	R	pCi/g	
NAR-3	R	Uranium-238	NAR-3-3C-R-D	NONE	482018.06	1350925	3/11/97	2.10	1.20		pCi/g	2.09	1.22	R	pCi/g	NAR-3-3C-R
NAR-3	R	Uranium-238	NAR-3-4C-R	NONE	482083	1350928	3/8/97	0.16	0.68	U	pCi/g	1.15		U	pCi/g	
NAR-3	R	Uranium-238	NAR-3-5C-R	NONE	482129.01	1350928	3/8/97	-0.02	0.66	U	pCi/g	1.13		U	pCi/g	
NAR-3	R	Uranium-238	NAR-3-6C-R	NONE	482194.31	1350930	3/8/97	0.83	0.34		pCi/g	0.83	0.34	-	pCi/g	
NAR-3	R	Uranium-238	NAR-3-7C-R	NONE	482208.96	1350931	3/8/97	-0.14	0.68	U	pCi/g	1.15		U	pCi/g	
NAR-3	R	Uranium-238	NAR-3-8C-R	NONE	482283.13	1350925	3/8/97	0.23	0.24	U	pCi/g	0.40		U	pCi/g	
NAR-3	R	Uranium-238	NAR-3-9C-R	NONE	482303.08	1350928	3/9/97	0.73	0.75	U	pCi/g	1.25		U	pCi/g	

0003320

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A1P1 CERTIFICATION REPORT - APPENDIX B

								Laboratory Data				Validation Data				
CU Name	CU Type	Parameter	Sample ID	Suffix	Northing	Easting	Sample Date	Lab Result	TPU	Qualifier	Units	Val. Result	TPU	Qualifier	Units	Duplicate of
NAR-4	M	Arsenic	NAR-4-10C-M	NONE	483888.04	1351626	3/11/97	4.80			mg/kg	4.80		U	mg/kg	
NAR-4	M	Arsenic	NAR-4-10C2-M	NONE	483888.04	1351626	3/11/97	8.30			mg/kg	8.30		-	mg/kg	
NAR-4	M	Arsenic	NAR-4-11C-M	NONE	484001.41	1351719	3/12/97	19.10			mg/kg	19.10		-	mg/kg	
NAR-4	M	Arsenic	NAR-4-11C2-M	NONE	484001.41	1351719	3/12/97	7.50			mg/kg	7.50		-	mg/kg	
NAR-4	M	Arsenic	NAR-4-12C-M	NONE	484033.83	1351726	3/12/97	8.60			mg/kg	8.60		-	mg/kg	
NAR-4	M	Arsenic	NAR-4-12C2-M	NONE	484033.83	1351726	3/12/97	6.80			mg/kg	6.80		-	mg/kg	
NAR-4	M	Arsenic	NAR-4-12C3-M	NONE	484033.83	1351726	3/12/97	8.30			mg/kg	8.30		-	mg/kg	
NAR-4	M	Arsenic	NAR-4-13C-M	NONE	484251.01	1351871	3/12/97	8.40			mg/kg	8.40		-	mg/kg	
NAR-4	M	Arsenic	NAR-4-13C2-M	NONE	484251.01	1351871	3/12/97	7.20			mg/kg	7.20		-	mg/kg	
NAR-4	M	Arsenic	NAR-4-13C3-M	NONE	484251.01	1351871	3/20/97	6.00			mg/kg	6.00		-	mg/kg	
NAR-4	M	Arsenic	NAR-4-14C-M	NONE	484364.10	1351963	3/12/97	14.10			mg/kg	14.10		-	mg/kg	
NAR-4	M	Arsenic	NAR-4-14C2-M	NONE	484364.10	1351963	3/12/97	9.70			mg/kg	9.70		-	mg/kg	
NAR-4	M	Arsenic	NAR-4-14C3-M	NONE	484364.1	1351963	3/20/97	5.10		*	mg/kg	5.10		J	mg/kg	
NAR-4	M	Arsenic	NAR-4-14C3-M-D	NONE	484364.1	1351963	3/20/97	8.80		*	mg/kg	8.80		J	mg/kg	NAR-4-14C3-M
NAR-4	M	Arsenic	NAR-4-14C4-M	NONE	484364.1	1351963	3/20/97	6.60		*	mg/kg	6.60		-	mg/kg	
NAR-4	M	Arsenic	NAR-4-14C5-M	NONE	484364.1	1351963	3/20/97	6.10		*	mg/kg	6.10		-	mg/kg	
NAR-4	M	Arsenic	NAR-4-14C6-M	NONE	484364.1	1351963	3/20/97	7.30		*	mg/kg	7.30		-	mg/kg	
NAR-4	M	Arsenic	NAR-4-14C7-M	NONE	484364.1	1351963	3/20/97	8.40		*	mg/kg	8.40		-	mg/kg	
NAR-4	M	Arsenic	NAR-4-14C8-M	NONE	484364.1	1351963	3/20/97	11.60		*	mg/kg	11.60		-	mg/kg	
NAR-4	M	Arsenic	NAR-4-15C-M	NONE	484455.12	1352023	3/12/97	9.70			mg/kg	9.70		-	mg/kg	
NAR-4	M	Arsenic	NAR-4-15C10-M	NONE	484455.12	1352023	3/20/97	5.50		*	mg/kg	5.50		-	mg/kg	
NAR-4	M	Arsenic	NAR-4-15C11-M	NONE	484455.12	1352023	3/20/97	3.70		*	mg/kg	3.70		-	mg/kg	
NAR-4	M	Arsenic	NAR-4-15C2-M	NONE	484455.12	1352023	3/12/97	6.30			mg/kg	6.30		-	mg/kg	
NAR-4	M	Arsenic	NAR-4-15C3-M	NONE	484455.12	1352023	3/20/97	4.30		*	mg/kg	4.30		-	mg/kg	
NAR-4	M	Arsenic	NAR-4-15C4-M	NONE	484455.12	1352023	3/20/97	3.90		*	mg/kg	3.90		-	mg/kg	
NAR-4	M	Arsenic	NAR-4-15C5-M	NONE	484455.12	1352023	3/20/97	3.70		*	mg/kg	3.70		-	mg/kg	
NAR-4	M	Arsenic	NAR-4-15C6-M	NONE	484455.12	1352023	3/20/97	3.30		*	mg/kg	3.30		-	mg/kg	
NAR-4	M	Arsenic	NAR-4-15C7-M	NONE	484455.12	1352023	3/20/97	2.40		*	mg/kg	2.40		-	mg/kg	
NAR-4	M	Arsenic	NAR-4-15C8-M	NONE	484455.12	1352023	3/20/97	4.20		*	mg/kg	4.20		-	mg/kg	
NAR-4	M	Arsenic	NAR-4-15C9-M	NONE	484455.12	1352023	3/20/97	3.80		*	mg/kg	3.80		-	mg/kg	
NAR-4	M	Arsenic	NAR-4-16C-M	NONE	484528.99	1352072	3/12/97	7.00			mg/kg	7.00		-	mg/kg	
NAR-4	M	Arsenic	NAR-4-16C10-M	NONE	484528.99	1352072	3/20/97	9.00			mg/kg	9.00		-	mg/kg	
NAR-4	M	Arsenic	NAR-4-16C11-M	NONE	484528.99	1352072	3/20/97	7.40			mg/kg	7.40		-	mg/kg	
NAR-4	M	Arsenic	NAR-4-16C2-M	NONE	484528.99	1352072	3/12/97	7.80			mg/kg	7.80		-	mg/kg	
NAR-4	M	Arsenic	NAR-4-16C3-M	NONE	484528.99	1352072	3/20/97	9.00			mg/kg	9.00		-	mg/kg	
NAR-4	M	Arsenic	NAR-4-16C4-M	NONE	484528.99	1352072	3/20/97	8.90			mg/kg	8.90		-	mg/kg	
NAR-4	M	Arsenic	NAR-4-16C5-M	NONE	484528.99	1352072	3/20/97	10.10			mg/kg	10.10		-	mg/kg	
NAR-4	M	Arsenic	NAR-4-16C6-M	NONE	484528.99	1352072	3/20/97	9.00			mg/kg	9.00		-	mg/kg	
NAR-4	M	Arsenic	NAR-4-16C7-M	NONE	484528.99	1352072	3/20/97	5.60			mg/kg	5.60		-	mg/kg	

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A1P1 CERTIFICATION REPORT - APPENDIX B

							Laboratory Data				Validation Data				
CU Name	CU Type	Parameter	Sample ID	Suffix	Northing	Easting	Sample Date	Lab Result	TPU	Qualifier	Units	Val. Result	TPU	Qualifier	Units	Duplicate of
NAR-4	M	Arsenic	NAR-4-16C8-M	NONE	484528.99	1352072	3/20/97	8.60			mg/kg	8.60		-	mg/kg	
NAR-4	M	Arsenic	NAR-4-16C9-M	NONE	484528.99	1352072	3/20/97	7.50			mg/kg	7.50		-	mg/kg	
NAR-4	M	Arsenic	NAR-4-1C-M	NONE	482790.51	1350967	3/11/97	12.10			mg/kg	12.10		-	mg/kg	
NAR-4	M	Arsenic	NAR-4-2C-M	NONE	482863.19	1351002	3/12/97	8.90			mg/kg	8.90		-	mg/kg	
NAR-4	M	Arsenic	NAR-4-3C-M	NONE	483002.36	1351049	3/12/97	9.20			mg/kg	9.20		-	mg/kg	
NAR-4	M	Arsenic	NAR-4-4C-M	NONE	483181.3	1351160	3/13/97	5.50			mg/kg	5.50		-	mg/kg	
NAR-4	M	Arsenic	NAR-4-5C-M	NONE	483244.77	1351205	3/13/97	6.90			mg/kg	6.90		-	mg/kg	
NAR-4	M	Arsenic	NAR-4-6C-M	NONE	483392.56	1351293	3/11/97	5.50			mg/kg	5.50		-	mg/kg	
NAR-4	M	Arsenic	NAR-4-7C-M	NONE	483454.22	1351343	3/13/97	5.10			mg/kg	5.10		-	mg/kg	
NAR-4	M	Arsenic	NAR-4-8C-M	NONE	483599.50	1351430	3/11/97	4.60			mg/kg	4.60		-	mg/kg	
NAR-4	M	Arsenic	NAR-4-8C2-M	NONE	483599.50	1351430	3/11/97	8.10			mg/kg	8.10		-	mg/kg	
NAR-4	M	Arsenic	NAR-4-9C-M	NONE	483704.32	1351515	3/12/97	12.00			mg/kg	12.00		-	mg/kg	
NAR-4	M	Arsenic	NAR-4-9C-M-D	NONE	483704.32	1351515	3/12/97	9.70			mg/kg	9.70		-	mg/kg	NAR-4-9C-M
NAR-4	M	Arsenic	NAR-4-9C2-M	NONE	483704.32	1351515	3/12/97	11.40			mg/kg	11.40		-	mg/kg	
NAR-4	M	Beryllium	NAR-4-10C-M	NONE	483888.04	1351626	3/11/97	0.92			mg/kg	0.92		-	mg/kg	
NAR-4	M	Beryllium	NAR-4-10C2-M	NONE	483888.04	1351626	3/11/97	0.61			mg/kg	0.61		-	mg/kg	
NAR-4	M	Beryllium	NAR-4-11C-M	NONE	484001.41	1351719	3/12/97	1.30			mg/kg	1.30		-	mg/kg	
NAR-4	M	Beryllium	NAR-4-11C2-M	NONE	484001.41	1351719	3/12/97	1.00			mg/kg	1.00		-	mg/kg	
NAR-4	M	Beryllium	NAR-4-12C-M	NONE	484033.83	1351726	3/12/97	0.77			mg/kg	0.77		-	mg/kg	
NAR-4	M	Beryllium	NAR-4-12C2-M	NONE	484033.83	1351726	3/12/97	0.68			mg/kg	0.68		-	mg/kg	
NAR-4	M	Beryllium	NAR-4-12C3-M	NONE	484033.83	1351726	3/12/97	0.86			mg/kg	0.86		U	mg/kg	
NAR-4	M	Beryllium	NAR-4-13C-M	NONE	484251.01	1351871	3/12/97	1.20			mg/kg	1.20		-	mg/kg	
NAR-4	M	Beryllium	NAR-4-13C2-M	NONE	484251.01	1351871	3/12/97	0.64			mg/kg	0.64		-	mg/kg	
NAR-4	M	Beryllium	NAR-4-13C3-M	NONE	484251.01	1351871	3/20/97	0.78			mg/kg	0.78		U	mg/kg	
NAR-4	M	Beryllium	NAR-4-14C-M	NONE	484364.10	1351963	3/12/97	1.60			mg/kg	1.60		-	mg/kg	
NAR-4	M	Beryllium	NAR-4-14C2-M	NONE	484364.10	1351963	3/12/97	1.10			mg/kg	1.10		-	mg/kg	
NAR-4	M	Beryllium	NAR-4-14C3-M	NONE	484364.1	1351963	3/20/97	1.70		•	mg/kg	1.70		-	mg/kg	
NAR-4	M	Beryllium	NAR-4-14C3-M-D	NONE	484364.1	1351963	3/20/97	1.10		•	mg/kg	1.10		-	mg/kg	NAR-4-14C3-M
NAR-4	M	Beryllium	NAR-4-14C4-M	NONE	484364.1	1351963	3/20/97	0.79		•	mg/kg	0.79		-	mg/kg	
NAR-4	M	Beryllium	NAR-4-14C5-M	NONE	484364.1	1351963	3/20/97	0.84		•	mg/kg	0.84		-	mg/kg	
NAR-4	M	Beryllium	NAR-4-14C6-M	NONE	484364.1	1351963	3/20/97	1.70		•	mg/kg	1.70		-	mg/kg	
NAR-4	M	Beryllium	NAR-4-14C7-M	NONE	484364.1	1351963	3/20/97	1.30		•	mg/kg	1.30		-	mg/kg	
NAR-4	M	Beryllium	NAR-4-14C8-M	NONE	484364.1	1351963	3/20/97	1.40		•	mg/kg	1.40		-	mg/kg	
NAR-4	M	Beryllium	NAR-4-15C-M	NONE	484455.12	1352023	3/12/97	1.20			mg/kg	1.20		-	mg/kg	
NAR-4	M	Beryllium	NAR-4-15C10-M	NONE	484455.12	1352023	3/20/97	1.00		•	mg/kg	1.00		-	mg/kg	
NAR-4	M	Beryllium	NAR-4-15C11-M	NONE	484455.12	1352023	3/20/97	1.40		•	mg/kg	1.40		-	mg/kg	
NAR-4	M	Beryllium	NAR-4-15C2-M	NONE	484455.12	1352023	3/12/97	0.80			mg/kg	0.80		-	mg/kg	
NAR-4	M	Beryllium	NAR-4-15C3-M	NONE	484455.12	1352023	3/20/97	0.86		•	mg/kg	0.86		-	mg/kg	
NAR-4	M	Beryllium	NAR-4-15C4-M	NONE	484455.12	1352023	3/20/97	0.89		•	mg/kg	0.89		-	mg/kg	
NAR-4	M	Beryllium	NAR-4-15C5-M	NONE	484455.12	1352023	3/20/97	1.10		•	mg/kg	1.10		-	mg/kg	

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							Laboratory Data				Validation Data				
CU Name	CU Type	Parameter	Sample ID	Suffix	Northing	Easting	Sample Date	Lab Result	TPU	Qualifier	Units	Val. Result	TPU	Qualifier	Units	Duplicate of
NAR-4	M	Beryllium	NAR-4-15C6-M	NONE	484455.12	1352023	3/20/97	0.76		*	mg/kg	0.76		-	mg/kg	
NAR-4	M	Beryllium	NAR-4-15C7-M	NONE	484455.12	1352023	3/20/97	0.84		*	mg/kg	0.84		-	mg/kg	
NAR-4	M	Beryllium	NAR-4-15C8-M	NONE	484455.12	1352023	3/20/97	1.20		*	mg/kg	1.20		-	mg/kg	
NAR-4	M	Beryllium	NAR-4-15C9-M	NONE	484455.12	1352023	3/20/97	0.89		*	mg/kg	0.89		-	mg/kg	
NAR-4	M	Beryllium	NAR-4-16C-M	NONE	484528.99	1352072	3/12/97	0.60			mg/kg	0.60		-	mg/kg	
NAR-4	M	Beryllium	NAR-4-16C10-M	NONE	484528.99	1352072	3/20/97	0.88			mg/kg	0.88		U	mg/kg	
NAR-4	M	Beryllium	NAR-4-16C11-M	NONE	484528.99	1352072	3/20/97	0.96			mg/kg	0.96		U	mg/kg	
NAR-4	M	Beryllium	NAR-4-16C2-M	NONE	484528.99	1352072	3/12/97	0.83			mg/kg	0.83		-	mg/kg	
NAR-4	M	Beryllium	NAR-4-16C3-M	NONE	484528.99	1352072	3/20/97	1.10			mg/kg	1.10		U	mg/kg	
NAR-4	M	Beryllium	NAR-4-16C4-M	NONE	484528.99	1352072	3/20/97	0.98			mg/kg	0.98		U	mg/kg	
NAR-4	M	Beryllium	NAR-4-16C5-M	NONE	484528.99	1352072	3/20/97	0.80			mg/kg	0.80		U	mg/kg	
NAR-4	M	Beryllium	NAR-4-16C6-M	NONE	484528.99	1352072	3/20/97	0.89			mg/kg	0.89		U	mg/kg	
NAR-4	M	Beryllium	NAR-4-16C7-M	NONE	484528.99	1352072	3/20/97	0.61			mg/kg	0.61		U	mg/kg	
NAR-4	M	Beryllium	NAR-4-16C8-M	NONE	484528.99	1352072	3/20/97	0.79			mg/kg	0.79		U	mg/kg	
NAR-4	M	Beryllium	NAR-4-16C9-M	NONE	484528.99	1352072	3/20/97	0.78			mg/kg	0.78		U	mg/kg	
NAR-4	M	Beryllium	NAR-4-1C-M	NONE	482790.51	1350967	3/11/97	0.92			mg/kg	0.92		-	mg/kg	
NAR-4	M	Beryllium	NAR-4-2C-M	NONE	482863.19	1351002	3/12/97	2.10			mg/kg	2.10		-	mg/kg	
NAR-4	M	Beryllium	NAR-4-3C-M	NONE	483002.36	1351049	3/12/97	1.30			mg/kg	1.30		-	mg/kg	
NAR-4	M	Beryllium	NAR-4-4C-M	NONE	483181.3	1351160	3/13/97	0.76			mg/kg	0.76		-	mg/kg	
NAR-4	M	Beryllium	NAR-4-5C-M	NONE	483244.77	1351205	3/13/97	0.82			mg/kg	0.82		-	mg/kg	
NAR-4	M	Beryllium	NAR-4-6C-M	NONE	483392.56	1351293	3/11/97	0.68			mg/kg	0.68		-	mg/kg	
NAR-4	M	Beryllium	NAR-4-7C-M	NONE	483454.22	1351343	3/13/97	0.83			mg/kg	0.83		-	mg/kg	
NAR-4	M	Beryllium	NAR-4-8C-M	NONE	483599.50	1351430	3/11/97	0.38		B	mg/kg	0.38		-	mg/kg	
NAR-4	M	Beryllium	NAR-4-8C2-M	NONE	483599.50	1351430	3/11/97	1.10			mg/kg	1.10		-	mg/kg	
NAR-4	M	Beryllium	NAR-4-9C-M	NONE	483704.32	1351515	3/12/97	1.30			mg/kg	1.30		-	mg/kg	
NAR-4	M	Beryllium	NAR-4-9C-M-D	NONE	483704.32	1351515	3/12/97	1.40			mg/kg	1.40		-	mg/kg	NAR-4-9C-M
NAR-4	M	Beryllium	NAR-4-9C2-M	NONE	483704.32	1351515	3/12/97	1.60			mg/kg	1.60		-	mg/kg	
NAR-4	R	Moisture Content	NAR-4-10C-R	NONE	483888.04	1351626	3/12/97	16.10			Percent			NV	Percent	
NAR-4	R	Moisture Content	NAR-4-10C2-R	NONE	483888.04	1351626	3/11/97	13.20			Percent			NV	Percent	
NAR-4	R	Moisture Content	NAR-4-11C-R	NONE	484001.41	1351719	3/12/97	19.00			Percent			NV	Percent	
NAR-4	R	Moisture Content	NAR-4-11C2-R	NONE	484001.41	1351719	3/12/97	13.40			Percent			NV	Percent	
NAR-4	R	Moisture Content	NAR-4-12C-R	NONE	484033.83	1351726	3/12/97	17.20			Percent			NV	Percent	
NAR-4	R	Moisture Content	NAR-4-12C2-R	NONE	484033.83	1351726	3/12/97	12.50			Percent			NV	Percent	
NAR-4	R	Moisture Content	NAR-4-12C3-R	NONE	484033.83	1351726	3/12/97	16.50			Percent	16.50		NV	Percent	
NAR-4	R	Moisture Content	NAR-4-13C-R	NONE	484251.01	1351871	3/12/97	19.80			Percent			NV	Percent	
NAR-4	R	Moisture Content	NAR-4-13C2-R	NONE	484251.01	1351871	3/12/97	16.80			Percent			NV	Percent	
NAR-4	R	Moisture Content	NAR-4-13C3-R	NONE	484251.01	1351871	3/12/97	14.30			Percent	14.30		NV	Percent	
NAR-4	R	Moisture Content	NAR-4-14C-R	NONE	484364.10	1351963	3/12/97	19.80			Percent			NV	Percent	
NAR-4	R	Moisture Content	NAR-4-14C2-R	NONE	484364.10	1351963	3/12/97	12.00			Percent			NV	Percent	
NAR-4	R	Moisture Content	NAR-4-14C3-R	NONE	484364.1	1351963	3/20/97	12.80			Percent			NV	Percent	

A1P1 CERTIFICATION REPORT - APPENDIX B

								Laboratory Data				Validation Data				
CU Name	CU Type	Parameter	Sample ID	Suffix	Northing	Easting	Sample Date	Lab Result	TPU	Qualifier	Units	Val. Result	TPU	Qualifier	Units	Duplicate of
NAR-4	R	Moisture Content	NAR-4-14C3-R-D	NONE	484364.1	1351963	3/20/97	13.40			Percent			NV	Percent	NAR-4-14C3-R
NAR-4	R	Moisture Content	NAR-4-14C4-R	NONE	484364.1	1351963	3/20/97	14.00			Percent			NV	Percent	
NAR-4	R	Moisture Content	NAR-4-14C5-R	NONE	484364.1	1351963	3/20/97	14.20			Percent			NV	Percent	
NAR-4	R	Moisture Content	NAR-4-14C6-R	NONE	484364.1	1351963	3/20/97	16.40			Percent			NV	Percent	
NAR-4	R	Moisture Content	NAR-4-14C7-R	NONE	484364.1	1351963	3/20/97	17.50			Percent			NV	Percent	
NAR-4	R	Moisture Content	NAR-4-14C8-R	NONE	484364.1	1351963	3/20/97	17.60			Percent			NV	Percent	
NAR-4	R	Moisture Content	NAR-4-15C-R	NONE	484455.12	1352023	3/12/97	18.50			Percent			NV	Percent	
NAR-4	R	Moisture Content	NAR-4-15C10-R	NONE	484455.12	1352023	3/20/97	17.00			Percent			NV	Percent	
NAR-4	R	Moisture Content	NAR-4-15C11-R	NONE	484455.12	1352023	3/20/97	16.10			Percent			NV	Percent	
NAR-4	R	Moisture Content	NAR-4-15C2-R	NONE	484455.12	1352023	3/12/97	11.80			Percent			NV	Percent	
NAR-4	R	Moisture Content	NAR-4-15C3-R	NONE	484455.12	1352023	3/20/97	15.50			Percent			NV	Percent	
NAR-4	R	Moisture Content	NAR-4-15C4-R	NONE	484455.12	1352023	3/20/97	14.00			Percent			NV	Percent	
NAR-4	R	Moisture Content	NAR-4-15C5-R	NONE	484455.12	1352023	3/20/97	12.00			Percent			NV	Percent	
NAR-4	R	Moisture Content	NAR-4-15C6-R	NONE	484455.12	1352023	3/20/97	12.80			Percent			NV	Percent	
NAR-4	R	Moisture Content	NAR-4-15C7-R	NONE	484455.12	1352023	3/20/97	13.30			Percent			NV	Percent	
NAR-4	R	Moisture Content	NAR-4-15C8-R	NONE	484455.12	1352023	3/20/97	12.60			Percent			NV	Percent	
NAR-4	R	Moisture Content	NAR-4-15C9-R	NONE	484455.12	1352023	3/20/97	14.30			Percent			NV	Percent	
NAR-4	R	Moisture Content	NAR-4-16C-R	NONE	484528.99	1352072	3/12/97	14.90			Percent			NV	Percent	
NAR-4	R	Moisture Content	NAR-4-16C10-R	NONE	484528.99	1352072	3/20/97	11.93			Percent	11.93		NV	Percent	
NAR-4	R	Moisture Content	NAR-4-16C11-R	NONE	484528.99	1352072	3/20/97	16.17			Percent	16.17		NV	Percent	
NAR-4	R	Moisture Content	NAR-4-16C2-R	NONE	484528.99	1352072	3/12/97	13.00			Percent			NV	Percent	
NAR-4	R	Moisture Content	NAR-4-16C3-R	NONE	484528.99	1352072	3/20/97	15.06			Percent	15.06		NV	Percent	
NAR-4	R	Moisture Content	NAR-4-16C4-R	NONE	484528.99	1352072	3/20/97	14.48			Percent	14.48		NV	Percent	
NAR-4	R	Moisture Content	NAR-4-16C5-R	NONE	484528.99	1352072	3/20/97	14.35			Percent	14.35		NV	Percent	
NAR-4	R	Moisture Content	NAR-4-16C6-R	NONE	484528.99	1352072	3/20/97	13.82			Percent	13.82		NV	Percent	
NAR-4	R	Moisture Content	NAR-4-16C7-R	NONE	484528.99	1352072	3/20/97	13.87			Percent	13.87		NV	Percent	
NAR-4	R	Moisture Content	NAR-4-16C8-R	NONE	484528.99	1352072	3/20/97	11.86			Percent	11.86		NV	Percent	
NAR-4	R	Moisture Content	NAR-4-16C9-R	NONE	484528.99	1352072	3/20/97	10.91			Percent	10.91		NV	Percent	
NAR-4	R	Moisture Content	NAR-4-1C-R	NONE	482790.51	1350967	3/11/97	17.22			Percent			NV	Percent	
NAR-4	R	Moisture Content	NAR-4-2C-R	NONE	482863.19	1351002	3/12/97	21.14			Percent			NV	Percent	
NAR-4	R	Moisture Content	NAR-4-3C-R	NONE	483002.36	1351049	3/12/97	18.42			Percent			NV	Percent	
NAR-4	R	Moisture Content	NAR-4-4C-R	NONE	483181.3	1351160	3/13/97	12.95			Percent			NV	Percent	
NAR-4	R	Moisture Content	NAR-4-5C-R	NONE	483244.77	1351205	3/13/97	13.01			Percent			NV	Percent	
NAR-4	R	Moisture Content	NAR-4-6C-R	NONE	483392.56	1351293	3/11/97	12.98			Percent			NV	Percent	
NAR-4	R	Moisture Content	NAR-4-7C-R	NONE	483454.22	1351343	3/13/97	10.98			Percent			NV	Percent	
NAR-4	R	Moisture Content	NAR-4-8C-R	NONE	483599.50	1351430	3/11/97	14.10			Percent			NV	Percent	
NAR-4	R	Moisture Content	NAR-4-8C2-R	NONE	483599.50	1351430	3/11/97	12.40			Percent			NV	Percent	
NAR-4	R	Moisture Content	NAR-4-9C-R	NONE	483704.32	1351515	3/12/97	18.70			Percent			NV	Percent	
NAR-4	R	Moisture Content	NAR-4-9C-R-D	NONE	483704.32	1351515	3/12/97	18.70			Percent			NV	Percent	NAR-4-9C-R
NAR-4	R	Moisture Content	NAR-4-9C2-R	NONE	483704.32	1351515	3/12/97	17.40			Percent			NV	Percent	

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A1P1 CERTIFICATION REPORT - APPENDIX B

								Laboratory Data				Validation Data					
CU Name	CU Type	Parameter	Sample ID	Suffix	Northing	Easting	Sample Date	Lab Result	TPU	Qualifier	Units	Val. Result	TPU	Qualifier	Units	Duplicate of
NAR-4	R	Radium-226	NAR-4-10C-R	NONE	483888.04	1351626	3/12/97	1.10	0.16		pCi/g	1.12	0.16	J	pCi/g	
NAR-4	R	Radium-226	NAR-4-10C2-R	NONE	483888.04	1351626	3/11/97	1.30	0.17		pCi/g	1.31	0.17	J	pCi/g	
NAR-4	R	Radium-226	NAR-4-11C-R	NONE	484001.41	1351719	3/12/97	1.50	0.19		pCi/g	1.49	0.19	J	pCi/g	
NAR-4	R	Radium-226	NAR-4-11C2-R	NONE	484001.41	1351719	3/12/97	1.20	0.14		pCi/g	1.21	0.14	J	pCi/g	
NAR-4	R	Radium-226	NAR-4-12C-R	NONE	484033.83	1351726	3/12/97	1.30	0.16		pCi/g	1.25	0.16	J	pCi/g	
NAR-4	R	Radium-226	NAR-4-12C2-R	NONE	484033.83	1351726	3/12/97	1.20	0.14		pCi/g	1.19	0.14	R	pCi/g	
NAR-4	R	Radium-226	NAR-4-12C2-R	RE	484033.83	1351726	3/12/97	0.10	0.12	U	pCi/g	1.00	0.12	J	pCi/g	
NAR-4	R	Radium-226	NAR-4-12C3-R	NONE	484033.83	1351726	3/12/97	1.10	0.17		pCi/g	1.10	0.17	-	pCi/g	
NAR-4	R	Radium-226	NAR-4-13C-R	NONE	484251.01	1351871	3/12/97	1.30	0.16		pCi/g	1.41	0.16	J	pCi/g	
NAR-4	R	Radium-226	NAR-4-13C2-R	NONE	484251.01	1351871	3/12/97	1.30	0.15		pCi/g	1.32	0.15	J	pCi/g	
NAR-4	R	Radium-226	NAR-4-13C3-R	NONE	484251.01	1351871	3/12/97	0.91	0.16		pCi/g	0.92	0.16	-	pCi/g	
NAR-4	R	Radium-226	NAR-4-14C-R	NONE	484364.10	1351963	3/12/97	1.40	0.16		pCi/g	1.39	0.16	J	pCi/g	
NAR-4	R	Radium-226	NAR-4-14C2-R	NONE	484364.10	1351963	3/12/97	0.91	0.13		pCi/g	0.91	0.13	J	pCi/g	
NAR-4	R	Radium-226	NAR-4-14C3-R	NONE	484364.1	1351963	3/20/97	1.20	0.18		pCi/g	1.25	0.18	J	pCi/g	
NAR-4	R	Radium-226	NAR-4-14C3-R-D	NONE	484364.1	1351963	3/20/97	0.81	0.12		pCi/g	0.81	0.12	J	pCi/g	NAR-4-14C3-R
NAR-4	R	Radium-226	NAR-4-14C4-R	NONE	484364.1	1351963	3/20/97	1.20	0.14		pCi/g	1.15	0.14	-	pCi/g	
NAR-4	R	Radium-226	NAR-4-14C5-R	NONE	484364.1	1351963	3/20/97	0.95	0.15		pCi/g	0.95	0.15	-	pCi/g	
NAR-4	R	Radium-226	NAR-4-14C6-R	NONE	484364.1	1351963	3/20/97	1.40	0.16		pCi/g	1.45	0.16	-	pCi/g	
NAR-4	R	Radium-226	NAR-4-14C7-R	NONE	484364.1	1351963	3/20/97	1.30	0.14		pCi/g	1.26	0.14	-	pCi/g	
NAR-4	R	Radium-226	NAR-4-14C8-R	NONE	484364.1	1351963	3/20/97	1.30	0.17		pCi/g	1.29	0.17	-	pCi/g	
NAR-4	R	Radium-226	NAR-4-15C-R	NONE	484455.12	1352023	3/12/97	1.40	0.19		pCi/g	1.37	0.19	J	pCi/g	
NAR-4	R	Radium-226	NAR-4-15C10-R	NONE	484455.12	1352023	3/20/97	1.10	0.13		pCi/g	1.08	0.13	-	pCi/g	
NAR-4	R	Radium-226	NAR-4-15C11-R	NONE	484455.12	1352023	3/20/97	1.40	0.18		pCi/g	1.40	0.18	-	pCi/g	
NAR-4	R	Radium-226	NAR-4-15C2-R	NONE	484455.12	1352023	3/12/97	1.10	0.12		pCi/g	1.09	0.12	J	pCi/g	
NAR-4	R	Radium-226	NAR-4-15C3-R	NONE	484455.12	1352023	3/20/97	1.50	0.19		pCi/g	1.46	0.19	-	pCi/g	
NAR-4	R	Radium-226	NAR-4-15C4-R	NONE	484455.12	1352023	3/20/97	1.20	0.14		pCi/g	1.16	0.14	-	pCi/g	
NAR-4	R	Radium-226	NAR-4-15C5-R	NONE	484455.12	1352023	3/20/97	0.97	0.14		pCi/g	0.97	0.14	-	pCi/g	
NAR-4	R	Radium-226	NAR-4-15C6-R	NONE	484455.12	1352023	3/20/97	1.00	0.14		pCi/g	1.03	0.14	-	pCi/g	
NAR-4	R	Radium-226	NAR-4-15C7-R	NONE	484455.12	1352023	3/20/97	1.00	0.13		pCi/g	1.02	0.13	-	pCi/g	
NAR-4	R	Radium-226	NAR-4-15C8-R	NONE	484455.12	1352023	3/20/97	0.88	0.16		pCi/g	0.88	0.16	-	pCi/g	
NAR-4	R	Radium-226	NAR-4-15C9-R	NONE	484455.12	1352023	3/20/97	1.00	0.17		pCi/g	1.03	0.17	-	pCi/g	
NAR-4	R	Radium-226	NAR-4-16C-R	NONE	484528.99	1352072	3/12/97	1.30	0.17		pCi/g	1.34	0.17	J	pCi/g	
NAR-4	R	Radium-226	NAR-4-16C10-R	NONE	484528.99	1352072	3/20/97	1.20	0.20		pCi/g	1.18	0.20	-	pCi/g	
NAR-4	R	Radium-226	NAR-4-16C11-R	NONE	484528.99	1352072	3/20/97	1.10	0.19		pCi/g	1.12	0.19	-	pCi/g	
NAR-4	R	Radium-226	NAR-4-16C2-R	NONE	484528.99	1352072	3/12/97	1.30	0.15		pCi/g	1.29	0.15	J	pCi/g	
NAR-4	R	Radium-226	NAR-4-16C3-R	NONE	484528.99	1352072	3/20/97	1.00	0.16		pCi/g	1.03	0.16	-	pCi/g	
NAR-4	R	Radium-226	NAR-4-16C4-R	NONE	484528.99	1352072	3/20/97	1.40	0.21		pCi/g	1.40	0.21	-	pCi/g	
NAR-4	R	Radium-226	NAR-4-16C5-R	NONE	484528.99	1352072	3/20/97	1.00	0.16		pCi/g	1.00	0.16	-	pCi/g	
NAR-4	R	Radium-226	NAR-4-16C6-R	NONE	484528.99	1352072	3/20/97	0.94	0.16		pCi/g	0.94	0.16	-	pCi/g	
NAR-4	R	Radium-226	NAR-4-16C7-R	NONE	484528.99	1352072	3/20/97	1.00	0.16		pCi/g	1.01	0.16	-	pCi/g	

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								Laboratory Data				Validation Data				
CU Name	CU Type	Parameter	Sample ID	Suffix	Northing	Easting	Sample Date	Lab Result	TPU	Qualifier	Units	Val. Result	TPU	Qualifier	Units	Duplicate of
NAR-4	R	Radium-226	NAR-4-16C8-R	NONE	484528.99	1352072	3/20/97	0.98	0.21		pCi/g	0.98	0.21	-	pCi/g	
NAR-4	R	Radium-226	NAR-4-16C9-R	NONE	484528.99	1352072	3/20/97	0.83	0.13		pCi/g	0.83	0.13	-	pCi/g	
NAR-4	R	Radium-226	NAR-4-1C-R	NONE	482790.51	1350967	3/11/97	1.40	0.21		pCi/g	1.38	0.21	-	pCi/g	
NAR-4	R	Radium-226	NAR-4-2C-R	NONE	482863.19	1351002	3/12/97	1.50	0.23		pCi/g	1.55	0.23	-	pCi/g	
NAR-4	R	Radium-226	NAR-4-3C-R	NONE	483002.36	1351049	3/12/97	1.30	0.20		pCi/g	1.30	0.20	-	pCi/g	
NAR-4	R	Radium-226	NAR-4-4C-R	NONE	483181.3	1351160	3/13/97	0.97	0.15		pCi/g	0.98	0.15	-	pCi/g	
NAR-4	R	Radium-226	NAR-4-5C-R	NONE	483244.77	1351205	3/13/97	0.86	0.15		pCi/g	0.86	0.15	-	pCi/g	
NAR-4	R	Radium-226	NAR-4-6C-R	NONE	483392.56	1351293	3/11/97	0.83	0.17		pCi/g	0.83	0.17	-	pCi/g	
NAR-4	R	Radium-226	NAR-4-7C-R	NONE	483454.22	1351343	3/13/97	0.76	0.13		pCi/g	0.76	0.13	-	pCi/g	
NAR-4	R	Radium-226	NAR-4-8C-R	NONE	483599.50	1351430	3/11/97	1.30	0.16		pCi/g	1.27	0.16	J	pCi/g	
NAR-4	R	Radium-226	NAR-4-8C2-R	NONE	483599.50	1351430	3/11/97	1.20	0.14		pCi/g	1.22	0.14	J	pCi/g	
NAR-4	R	Radium-226	NAR-4-9C-R	NONE	483704.32	1351515	3/12/97	1.40	0.18		pCi/g	1.41	0.18	J	pCi/g	
NAR-4	R	Radium-226	NAR-4-9C-R-D	NONE	483704.32	1351515	3/12/97	1.50	0.18		pCi/g	1.49	0.18	J	pCi/g	NAR-4-9C-R
NAR-4	R	Radium-226	NAR-4-9C2-R	NONE	483704.32	1351515	3/12/97	1.50	0.15		pCi/g	1.49	0.15	J	pCi/g	
NAR-4	R	Radium-228	NAR-4-10C-R	NONE	483888.04	1351626	3/12/97	0.88	0.32		pCi/g	0.88	0.32	-	pCi/g	
NAR-4	R	Radium-228	NAR-4-10C2-R	NONE	483888.04	1351626	3/11/97	0.97	0.28		pCi/g	0.97	0.28	-	pCi/g	
NAR-4	R	Radium-228	NAR-4-11C-R	NONE	484001.41	1351719	3/12/97	1.20	0.32		pCi/g	1.22	0.32	-	pCi/g	
NAR-4	R	Radium-228	NAR-4-11C2-R	NONE	484001.41	1351719	3/12/97	1.00	0.29		pCi/g	1.02	0.29	-	pCi/g	
NAR-4	R	Radium-228	NAR-4-12C-R	NONE	484033.83	1351726	3/12/97	1.30	0.39		pCi/g	1.27	0.39	-	pCi/g	
NAR-4	R	Radium-228	NAR-4-12C2-R	NONE	484033.83	1351726	3/12/97	1.20	0.34		pCi/g	1.21	0.21	R	pCi/g	
NAR-4	R	Radium-228	NAR-4-12C2-R	RE	484033.83	1351726	3/12/97	1.00	0.28		pCi/g	1.01	0.28	-	pCi/g	
NAR-4	R	Radium-228	NAR-4-12C3-R	NONE	484033.83	1351726	3/12/97	0.97	0.25		pCi/g	0.97	0.25	-	pCi/g	
NAR-4	R	Radium-228	NAR-4-13C-R	NONE	484251.01	1351871	3/12/97	1.20	0.35		pCi/g	1.25	0.36	-	pCi/g	
NAR-4	R	Radium-228	NAR-4-13C2-R	NONE	484251.01	1351871	3/12/97	1.00	0.29		pCi/g	1.00	0.29	-	pCi/g	
NAR-4	R	Radium-228	NAR-4-13C3-R	NONE	484251.01	1351871	3/12/97	1.00	0.23		pCi/g	1.04	0.23	-	pCi/g	
NAR-4	R	Radium-228	NAR-4-14C-R	NONE	484364.10	1351963	3/12/97	1.30	0.34		pCi/g	1.33	0.34	-	pCi/g	
NAR-4	R	Radium-228	NAR-4-14C2-R	NONE	484364.10	1351963	3/12/97	0.84	0.23		pCi/g	0.84	0.23	-	pCi/g	
NAR-4	R	Radium-228	NAR-4-14C3-R	NONE	484364.1	1351963	3/20/97	1.10	0.33		pCi/g	1.06	0.33	-	pCi/g	
NAR-4	R	Radium-228	NAR-4-14C3-R-D	NONE	484364.1	1351963	3/20/97	0.74	0.23		pCi/g	0.74	0.23	-	pCi/g	NAR-4-14C3-R
NAR-4	R	Radium-228	NAR-4-14C4-R	NONE	484364.1	1351963	3/20/97	1.10	0.29		pCi/g	1.11	0.29	-	pCi/g	
NAR-4	R	Radium-228	NAR-4-14C5-R	NONE	484364.1	1351963	3/20/97	0.80	0.27		pCi/g	0.80	0.27	-	pCi/g	
NAR-4	R	Radium-228	NAR-4-14C6-R	NONE	484364.1	1351963	3/20/97	1.40	0.38		pCi/g	1.36	0.38	-	pCi/g	
NAR-4	R	Radium-228	NAR-4-14C7-R	NONE	484364.1	1351963	3/20/97	1.30	0.33		pCi/g	1.34	0.33	-	pCi/g	
NAR-4	R	Radium-228	NAR-4-14C8-R	NONE	484364.1	1351963	3/20/97	1.20	0.34		pCi/g	1.18	0.34	-	pCi/g	
NAR-4	R	Radium-228	NAR-4-15C-R	NONE	484455.12	1352023	3/12/97	1.40	0.37		pCi/g	1.37	0.37	-	pCi/g	
NAR-4	R	Radium-228	NAR-4-15C10-R	NONE	484455.12	1352023	3/20/97	1.10	0.29		pCi/g	1.10	0.29	-	pCi/g	
NAR-4	R	Radium-228	NAR-4-15C11-R	NONE	484455.12	1352023	3/20/97	1.10	0.35		pCi/g	1.13	0.36	-	pCi/g	
NAR-4	R	Radium-228	NAR-4-15C2-R	NONE	484455.12	1352023	3/12/97	0.95	0.27		pCi/g	0.96	0.27	-	pCi/g	
NAR-4	R	Radium-228	NAR-4-15C3-R	NONE	484455.12	1352023	3/20/97	1.30	0.35		pCi/g	1.29	0.35	-	pCi/g	
NAR-4	R	Radium-228	NAR-4-15C4-R	NONE	484455.12	1352023	3/20/97	0.92	0.25		pCi/g	0.92	0.25	-	pCi/g	

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								Laboratory Data				Validation Data				
CU Name	CU Type	Parameter	Sample ID	Suffix	Northing	Easting	Sample Date	Lab Result	TPU	Qualifier	Units	Val. Result	TPU	Qualifier	Units	Duplicate of
NAR-4	R	Radium-228	NAR-4-15C5-R	NONE	484455.12	1352023	3/20/97	0.66	0.25		pCi/g	0.66	0.25	-	pCi/g	
NAR-4	R	Radium-228	NAR-4-15C6-R	NONE	484455.12	1352023	3/20/97	0.94	0.27		pCi/g	0.95	0.27	-	pCi/g	
NAR-4	R	Radium-228	NAR-4-15C7-R	NONE	484455.12	1352023	3/20/97	1.00	0.27		pCi/g	1.02	0.27	-	pCi/g	
NAR-4	R	Radium-228	NAR-4-15C8-R	NONE	484455.12	1352023	3/20/97	0.81	0.31		pCi/g	0.81	0.31	-	pCi/g	
NAR-4	R	Radium-228	NAR-4-15C9-R	NONE	484455.12	1352023	3/20/97	1.10	0.30		pCi/g	1.06	0.30	-	pCi/g	
NAR-4	R	Radium-228	NAR-4-16C-R	NONE	484528.99	1352072	3/12/97	1.20	0.33		pCi/g	1.23	0.33	-	pCi/g	
NAR-4	R	Radium-228	NAR-4-16C10-R	NONE	484528.99	1352072	3/20/97	1.00	0.26		pCi/g	1.05	0.26	-	pCi/g	
NAR-4	R	Radium-228	NAR-4-16C11-R	NONE	484528.99	1352072	3/20/97	0.97	0.26		pCi/g	0.97	0.26	-	pCi/g	
NAR-4	R	Radium-228	NAR-4-16C2-R	NONE	484528.99	1352072	3/12/97	1.00	0.33		pCi/g	1.05	0.33	-	pCi/g	
NAR-4	R	Radium-228	NAR-4-16C3-R	NONE	484528.99	1352072	3/20/97	0.97	0.20		pCi/g	0.97	0.20	-	pCi/g	
NAR-4	R	Radium-228	NAR-4-16C4-R	NONE	484528.99	1352072	3/20/97	1.00	0.29		pCi/g	1.04	0.29	-	pCi/g	
NAR-4	R	Radium-228	NAR-4-16C5-R	NONE	484528.99	1352072	3/20/97	1.30	0.28		pCi/g	1.31	0.28	-	pCi/g	
NAR-4	R	Radium-228	NAR-4-16C6-R	NONE	484528.99	1352072	3/20/97	1.00	0.23		pCi/g	1.01	0.23	-	pCi/g	
NAR-4	R	Radium-228	NAR-4-16C7-R	NONE	484528.99	1352072	3/20/97	0.95	0.23		pCi/g	0.95	0.23	-	pCi/g	
NAR-4	R	Radium-228	NAR-4-16C8-R	NONE	484528.99	1352072	3/20/97	0.99	0.23		pCi/g	0.99	0.23	-	pCi/g	
NAR-4	R	Radium-228	NAR-4-16C9-R	NONE	484528.99	1352072	3/20/97	0.69	0.18		pCi/g	0.69	0.18	-	pCi/g	
NAR-4	R	Radium-228	NAR-4-1C-R	NONE	482790.51	1350967	3/11/97	1.50	0.31		pCi/g	1.49	0.31	-	pCi/g	
NAR-4	R	Radium-228	NAR-4-2C-R	NONE	482863.19	1351002	3/12/97	1.20	0.25		pCi/g	1.20	0.25	-	pCi/g	
NAR-4	R	Radium-228	NAR-4-3C-R	NONE	483002.36	1351049	3/12/97	1.20	0.27		pCi/g	1.24	0.27	-	pCi/g	
NAR-4	R	Radium-228	NAR-4-4C-R	NONE	483181.3	1351160	3/13/97	0.90	0.25		pCi/g	0.90	0.25	-	pCi/g	
NAR-4	R	Radium-228	NAR-4-5C-R	NONE	483244.77	1351205	3/13/97	0.61	0.19		pCi/g	0.61	0.19	-	pCi/g	
NAR-4	R	Radium-228	NAR-4-6C-R	NONE	483392.56	1351293	3/11/97	1.00	0.23		pCi/g	1.02	0.23	-	pCi/g	
NAR-4	R	Radium-228	NAR-4-7C-R	NONE	483454.22	1351343	3/13/97	0.85	0.17		pCi/g	0.85	0.17	-	pCi/g	
NAR-4	R	Radium-228	NAR-4-8C-R	NONE	483599.50	1351430	3/11/97	0.89	0.29		pCi/g	0.89	0.29	-	pCi/g	
NAR-4	R	Radium-228	NAR-4-8C2-R	NONE	483599.50	1351430	3/11/97	0.88	0.26		pCi/g	0.88	0.26	-	pCi/g	
NAR-4	R	Radium-228	NAR-4-9C-R	NONE	483704.32	1351515	3/12/97	1.20	0.35		pCi/g	1.18	0.35	-	pCi/g	
NAR-4	R	Radium-228	NAR-4-9C-R-D	NONE	483704.32	1351515	3/12/97	1.30	0.32		pCi/g	1.28	0.32	-	pCi/g	NAR-4-9C-R
NAR-4	R	Radium-228	NAR-4-9C2-R	NONE	483704.32	1351515	3/12/97	1.30	0.34		pCi/g	1.33	0.35	-	pCi/g	
NAR-4	R	Thorium-228	NAR-4-10C-R	NONE	483888.04	1351626	3/12/97	1.20	0.47		pCi/g	1.24	0.47	J	pCi/g	
NAR-4	R	Thorium-228	NAR-4-10C2-R	NONE	483888.04	1351626	3/11/97	0.85	0.35		pCi/g	0.85	0.35	-	pCi/g	
NAR-4	R	Thorium-228	NAR-4-11C-R	NONE	484001.41	1351719	3/12/97	1.50	0.56		pCi/g	1.50	0.56	-	pCi/g	
NAR-4	R	Thorium-228	NAR-4-11C2-R	NONE	484001.41	1351719	3/12/97	1.40	0.52		pCi/g	1.40	0.52	J	pCi/g	
NAR-4	R	Thorium-228	NAR-4-12C-R	NONE	484033.83	1351726	3/12/97	1.40	0.55		pCi/g	1.42	0.55	J	pCi/g	
NAR-4	R	Thorium-228	NAR-4-12C2-R	NONE	484033.83	1351726	3/12/97	1.20	0.40		pCi/g	1.20	0.40	-	pCi/g	
NAR-4	R	Thorium-228	NAR-4-12C3-R	NONE	484033.83	1351726	3/12/97	0.92	0.25		pCi/g	0.92	0.22	J	pCi/g	
NAR-4	R	Thorium-228	NAR-4-13C-R	NONE	484251.01	1351871	3/12/97	1.40	0.51		pCi/g	1.35	0.51	J	pCi/g	
NAR-4	R	Thorium-228	NAR-4-13C2-R	NONE	484251.01	1351871	3/12/97	1.30	0.45		pCi/g	1.26	0.45	-	pCi/g	
NAR-4	R	Thorium-228	NAR-4-13C3-R	NONE	484251.01	1351871	3/12/97	0.85	0.25		pCi/g	0.85	0.22	J	pCi/g	
NAR-4	R	Thorium-228	NAR-4-14C-R	NONE	484364.10	1351963	3/12/97	1.50	0.57		pCi/g	1.51	0.57	J	pCi/g	
NAR-4	R	Thorium-228	NAR-4-14C2-R	NONE	484364.10	1351963	3/12/97	0.93	0.36		pCi/g	0.93	0.36	J	pCi/g	

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								Laboratory Data				Validation Data				
CU Name	CU Type	Parameter	Sample ID	Suffix	Northing	Easting	Sample Date	Lab Result	TPU	Qualifier	Units	Val. Result	TPU	Qualifier	Units	Duplicate of
NAR-4	R	Thorium-228	NAR-4-14C3-R	NONE	484364.1	1351963	3/20/97	1.20	0.51		pCi/g	1.25	0.51	-	pCi/g	
NAR-4	R	Thorium-228	NAR-4-14C3-R-D	NONE	484364.1	1351963	3/20/97	1.10	0.49		pCi/g	1.13	0.49	-	pCi/g	NAR-4-14C3-R
NAR-4	R	Thorium-228	NAR-4-14C4-R	NONE	484364.1	1351963	3/20/97	1.20	0.45		pCi/g	1.22	0.45	J	pCi/g	
NAR-4	R	Thorium-228	NAR-4-14C5-R	NONE	484364.1	1351963	3/20/97	1.20	0.40		pCi/g	1.16	0.39	-	pCi/g	
NAR-4	R	Thorium-228	NAR-4-14C6-R	NONE	484364.1	1351963	3/20/97	1.30	0.46		pCi/g	1.28	0.46	-	pCi/g	
NAR-4	R	Thorium-228	NAR-4-14C7-R	NONE	484364.1	1351963	3/20/97	1.30	0.49		pCi/g	1.32	0.49	J	pCi/g	
NAR-4	R	Thorium-228	NAR-4-14C8-R	NONE	484364.1	1351963	3/20/97	1.40	0.53		pCi/g	1.41	0.53	-	pCi/g	
NAR-4	R	Thorium-228	NAR-4-15C-R	NONE	484455.12	1352023	3/12/97	1.50	0.56		pCi/g	1.52	0.56	J	pCi/g	
NAR-4	R	Thorium-228	NAR-4-15C10-R	NONE	484455.12	1352023	3/20/97	1.20	0.43		pCi/g	1.20	0.43	-	pCi/g	
NAR-4	R	Thorium-228	NAR-4-15C11-R	NONE	484455.12	1352023	3/20/97	1.70	0.62		pCi/g	1.66	0.62	-	pCi/g	
NAR-4	R	Thorium-228	NAR-4-15C2-R	NONE	484455.12	1352023	3/12/97	0.98	0.37		pCi/g	0.98	0.37	J	pCi/g	
NAR-4	R	Thorium-228	NAR-4-15C3-R	NONE	484455.12	1352023	3/20/97	1.30	0.56		pCi/g	1.30	0.56	-	pCi/g	
NAR-4	R	Thorium-228	NAR-4-15C4-R	NONE	484455.12	1352023	3/20/97	1.20	0.50		pCi/g	1.21	0.51	J	pCi/g	
NAR-4	R	Thorium-228	NAR-4-15C5-R	NONE	484455.12	1352023	3/20/97	1.20	0.52		pCi/g	1.16	0.52	J	pCi/g	
NAR-4	R	Thorium-228	NAR-4-15C6-R	NONE	484455.12	1352023	3/20/97	1.30	0.49		pCi/g	1.28	0.49	-	pCi/g	
NAR-4	R	Thorium-228	NAR-4-15C7-R	NONE	484455.12	1352023	3/20/97	1.20	0.46		pCi/g	1.21	0.46	-	pCi/g	
NAR-4	R	Thorium-228	NAR-4-15C8-R	NONE	484455.12	1352023	3/20/97	0.97	0.36		pCi/g	0.97	0.36	J	pCi/g	
NAR-4	R	Thorium-228	NAR-4-15C9-R	NONE	484455.12	1352023	3/20/97	1.20	0.41		pCi/g	1.20	0.41	-	pCi/g	
NAR-4	R	Thorium-228	NAR-4-16C-R	NONE	484528.99	1352072	3/12/97	1.50	0.49		pCi/g	1.46	0.49	-	pCi/g	
NAR-4	R	Thorium-228	NAR-4-16C10-R	NONE	484528.99	1352072	3/20/97	0.71	0.20		pCi/g	0.71	0.18	J	pCi/g	
NAR-4	R	Thorium-228	NAR-4-16C11-R	NONE	484528.99	1352072	3/20/97	1.10	0.25		pCi/g	1.07	0.22	J	pCi/g	
NAR-4	R	Thorium-228	NAR-4-16C2-R	NONE	484528.99	1352072	3/12/97	1.10	0.49		pCi/g	1.15	0.49	J	pCi/g	
NAR-4	R	Thorium-228	NAR-4-16C3-R	NONE	484528.99	1352072	3/20/97	1.20	0.26		pCi/g	1.17	0.24	J	pCi/g	
NAR-4	R	Thorium-228	NAR-4-16C4-R	NONE	484528.99	1352072	3/20/97	0.92	0.29		pCi/g	0.92	0.27	J	pCi/g	
NAR-4	R	Thorium-228	NAR-4-16C5-R	NONE	484528.99	1352072	3/20/97	0.89	0.25		pCi/g	0.89	0.22	J	pCi/g	
NAR-4	R	Thorium-228	NAR-4-16C6-R	NONE	484528.99	1352072	3/20/97	0.83	0.24		pCi/g	0.83	0.21	J	pCi/g	
NAR-4	R	Thorium-228	NAR-4-16C7-R	NONE	484528.99	1352072	3/20/97	0.82	0.24		pCi/g	0.82	0.22	J	pCi/g	
NAR-4	R	Thorium-228	NAR-4-16C8-R	NONE	484528.99	1352072	3/20/97	0.88	0.27		pCi/g	0.88	0.24	J	pCi/g	
NAR-4	R	Thorium-228	NAR-4-16C9-R	NONE	484528.99	1352072	3/20/97	0.90	0.23		pCi/g	0.90	0.20	J	pCi/g	
NAR-4	R	Thorium-228	NAR-4-1C-R	NONE	482790.51	1350967	3/11/97	1.20	0.24		pCi/g	1.24	0.23	J	pCi/g	
NAR-4	R	Thorium-228	NAR-4-2C-R	NONE	482863.19	1351002	3/12/97	1.40	0.30		pCi/g	1.43	0.29	-	pCi/g	
NAR-4	R	Thorium-228	NAR-4-3C-R	NONE	483002.36	1351049	3/12/97	1.00	0.25		pCi/g	1.07	0.24	-	pCi/g	
NAR-4	R	Thorium-228	NAR-4-4C-R	NONE	483181.3	1351160	3/13/97	0.77	0.21		pCi/g	0.81	0.20	-	pCi/g	
NAR-4	R	Thorium-228	NAR-4-5C-R	NONE	483244.77	1351205	3/13/97	0.90	0.20		pCi/g	0.92	0.19	-	pCi/g	
NAR-4	R	Thorium-228	NAR-4-6C-R	NONE	483392.56	1351293	3/11/97	1.40	0.27		pCi/g	1.38	0.26	-	pCi/g	
NAR-4	R	Thorium-228	NAR-4-7C-R	NONE	483454.22	1351343	3/13/97	0.90	0.22		pCi/g	0.93	0.21	-	pCi/g	
NAR-4	R	Thorium-228	NAR-4-8C-R	NONE	483599.50	1351430	3/11/97	0.93	0.36		pCi/g	0.93	0.36	J	pCi/g	
NAR-4	R	Thorium-228	NAR-4-8C2-R	NONE	483599.50	1351430	3/11/97	0.88	0.38		pCi/g	0.88	0.38	-	pCi/g	
NAR-4	R	Thorium-228	NAR-4-9C-R	NONE	483704.32	1351515	3/12/97	1.50	0.56		pCi/g	1.51	0.56	J	pCi/g	
NAR-4	R	Thorium-228	NAR-4-9C-R-D	NONE	483704.32	1351515	3/12/97	1.60	0.62		pCi/g	1.60	0.62	-	pCi/g	NAR-4-9C-R

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								Laboratory Data				Validation Data				
CU Name	CU Type	Parameter	Sample ID	Suffix	Northing	Easting	Sample Date	Lab Result	TPU	Qualifier	Units	Val. Result	TPU	Qualifier	Units	Duplicate of
NAR-4	R	Thorium-228	NAR-4-9C2-R	NONE	483704.32	1351515	3/12/97	1.40	0.58		pCi/g	1.39	0.58	J	pCi/g	
NAR-4	R	Thorium-232	NAR-4-10C-R	NONE	483888.04	1351626	3/12/97	1.10	0.42		pCi/g	1.09	0.42	J	pCi/g	
NAR-4	R	Thorium-232	NAR-4-10C2-R	NONE	483888.04	1351626	3/11/97	0.84	0.35		pCi/g	0.84	0.35	-	pCi/g	
NAR-4	R	Thorium-232	NAR-4-11C-R	NONE	484001.41	1351719	3/12/97	1.20	0.46		pCi/g	1.21	0.46	-	pCi/g	
NAR-4	R	Thorium-232	NAR-4-11C2-R	NONE	484001.41	1351719	3/12/97	1.00	0.39		pCi/g	1.00	0.39	J	pCi/g	
NAR-4	R	Thorium-232	NAR-4-12C-R	NONE	484033.83	1351726	3/12/97	1.10	0.44		pCi/g	1.13	0.44	J	pCi/g	
NAR-4	R	Thorium-232	NAR-4-12C2-R	NONE	484033.83	1351726	3/12/97	0.92	0.32		pCi/g	0.92	0.32	-	pCi/g	
NAR-4	R	Thorium-232	NAR-4-12C3-R	NONE	484033.83	1351726	3/12/97	1.00	0.23		pCi/g	1.07	0.23	J	pCi/g	
NAR-4	R	Thorium-232	NAR-4-13C-R	NONE	484251.01	1351871	3/12/97	1.20	0.44		pCi/g	1.16	0.44	J	pCi/g	
NAR-4	R	Thorium-232	NAR-4-13C2-R	NONE	484251.01	1351871	3/12/97	1.20	0.44		pCi/g	1.20	0.44	-	pCi/g	
NAR-4	R	Thorium-232	NAR-4-13C3-R	NONE	484251.01	1351871	3/12/97	0.85	0.20		pCi/g	0.89	0.20	J	pCi/g	
NAR-4	R	Thorium-232	NAR-4-14C-R	NONE	484364.10	1351963	3/12/97	1.20	0.46		pCi/g	1.22	0.46	J	pCi/g	
NAR-4	R	Thorium-232	NAR-4-14C2-R	NONE	484364.10	1351963	3/12/97	0.69	0.27		pCi/g	0.69	0.27	J	pCi/g	
NAR-4	R	Thorium-232	NAR-4-14C3-R	NONE	484364.1	1351963	3/20/97	1.20	0.48		pCi/g	1.16	0.48	-	pCi/g	
NAR-4	R	Thorium-232	NAR-4-14C3-R-D	NONE	484364.1	1351963	3/20/97	0.94	0.41		pCi/g	0.94	0.41	-	pCi/g	NAR-4-14C3-R
NAR-4	R	Thorium-232	NAR-4-14C4-R	NONE	484364.1	1351963	3/20/97	1.00	0.39		pCi/g	1.03	0.39	J	pCi/g	
NAR-4	R	Thorium-232	NAR-4-14C5-R	NONE	484364.1	1351963	3/20/97	0.95	0.32		pCi/g	0.95	0.32	-	pCi/g	
NAR-4	R	Thorium-232	NAR-4-14C6-R	NONE	484364.1	1351963	3/20/97	1.10	0.40		pCi/g	1.11	0.40	-	pCi/g	
NAR-4	R	Thorium-232	NAR-4-14C7-R	NONE	484364.1	1351963	3/20/97	1.20	0.45		pCi/g	1.21	0.45	J	pCi/g	
NAR-4	R	Thorium-232	NAR-4-14C8-R	NONE	484364.1	1351963	3/20/97	1.20	0.45		pCi/g	1.19	0.45	-	pCi/g	
NAR-4	R	Thorium-232	NAR-4-15C-R	NONE	484455.12	1352023	3/12/97	1.20	0.45		pCi/g	1.22	0.45	J	pCi/g	
NAR-4	R	Thorium-232	NAR-4-15C10-R	NONE	484455.12	1352023	3/20/97	1.10	0.38		pCi/g	1.06	0.39	-	pCi/g	
NAR-4	R	Thorium-232	NAR-4-15C11-R	NONE	484455.12	1352023	3/20/97	1.20	0.45		pCi/g	1.19	0.45	-	pCi/g	
NAR-4	R	Thorium-232	NAR-4-15C2-R	NONE	484455.12	1352023	3/12/97	0.86	0.33		pCi/g	0.86	0.33	J	pCi/g	
NAR-4	R	Thorium-232	NAR-4-15C3-R	NONE	484455.12	1352023	3/20/97	1.20	0.50		pCi/g	1.18	0.51	-	pCi/g	
NAR-4	R	Thorium-232	NAR-4-15C4-R	NONE	484455.12	1352023	3/20/97	1.00	0.42		pCi/g	1.00	0.42	J	pCi/g	
NAR-4	R	Thorium-232	NAR-4-15C5-R	NONE	484455.12	1352023	3/20/97	0.76	0.35		pCi/g	0.76	0.35	J	pCi/g	
NAR-4	R	Thorium-232	NAR-4-15C6-R	NONE	484455.12	1352023	3/20/97	1.00	0.40		pCi/g	1.03	0.40	-	pCi/g	
NAR-4	R	Thorium-232	NAR-4-15C7-R	NONE	484455.12	1352023	3/20/97	1.00	0.39		pCi/g	1.01	0.39	-	pCi/g	
NAR-4	R	Thorium-232	NAR-4-15C8-R	NONE	484455.12	1352023	3/20/97	0.84	0.32		pCi/g	0.84	0.32	J	pCi/g	
NAR-4	R	Thorium-232	NAR-4-15C9-R	NONE	484455.12	1352023	3/20/97	0.97	0.33		pCi/g	0.97	0.33	-	pCi/g	
NAR-4	R	Thorium-232	NAR-4-16C-R	NONE	484528.99	1352072	3/12/97	1.20	0.42		pCi/g	1.23	0.42	-	pCi/g	
NAR-4	R	Thorium-232	NAR-4-16C10-R	NONE	484528.99	1352072	3/20/97	0.85	0.19		pCi/g	0.88	0.19	J	pCi/g	
NAR-4	R	Thorium-232	NAR-4-16C11-R	NONE	484528.99	1352072	3/20/97	0.95	0.21		pCi/g	0.99	0.20	J	pCi/g	
NAR-4	R	Thorium-232	NAR-4-16C2-R	NONE	484528.99	1352072	3/12/97	0.90	0.39		pCi/g	0.90	0.39	J	pCi/g	
NAR-4	R	Thorium-232	NAR-4-16C3-R	NONE	484528.99	1352072	3/20/97	0.90	0.20		pCi/g	0.93	0.20	J	pCi/g	
NAR-4	R	Thorium-232	NAR-4-16C4-R	NONE	484528.99	1352072	3/20/97	0.94	0.24		pCi/g	0.97	0.24	J	pCi/g	
NAR-4	R	Thorium-232	NAR-4-16C5-R	NONE	484528.99	1352072	3/20/97	0.86	0.20		pCi/g	0.90	0.20	J	pCi/g	
NAR-4	R	Thorium-232	NAR-4-16C6-R	NONE	484528.99	1352072	3/20/97	0.67	0.17		pCi/g	0.70	0.17	J	pCi/g	
NAR-4	R	Thorium-232	NAR-4-16C7-R	NONE	484528.99	1352072	3/20/97	0.82	0.19		pCi/g	0.84	0.19	J	pCi/g	

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								Laboratory Data				Validation Data				
CU Name	CU Type	Parameter	Sample ID	Suffix	Northing	Easting	Sample Date	Lab Result	TPU	Qualifier	Units	Val. Result	TPU	Qualifier	Units	Duplicate of
NAR-4	R	Thorium-232	NAR-4-16C8-R	NONE	484528.99	1352072	3/20/97	0.84	0.21		pCi/g	0.88	0.21	J	pCi/g	
NAR-4	R	Thorium-232	NAR-4-16C9-R	NONE	484528.99	1352072	3/20/97	0.70	0.16		pCi/g	0.74	0.16	J	pCi/g	
NAR-4	R	Thorium-232	NAR-4-1C-R	NONE	482790.51	1350967	3/11/97	1.10	0.21		pCi/g	1.12	0.21	J	pCi/g	
NAR-4	R	Thorium-232	NAR-4-2C-R	NONE	482863.19	1351002	3/12/97	1.20	0.24		pCi/g	1.21	0.24	-	pCi/g	
NAR-4	R	Thorium-232	NAR-4-3C-R	NONE	483002.36	1351049	3/12/97	1.10	0.22		pCi/g	1.13	0.22	-	pCi/g	
NAR-4	R	Thorium-232	NAR-4-4C-R	NONE	483181.3	1351160	3/13/97	0.81	0.19		pCi/g	0.81	0.18	-	pCi/g	
NAR-4	R	Thorium-232	NAR-4-5C-R	NONE	483244.77	1351205	3/13/97	0.90	0.18		pCi/g	0.91	0.18	-	pCi/g	
NAR-4	R	Thorium-232	NAR-4-6C-R	NONE	483392.56	1351293	3/11/97	1.20	0.23		pCi/g	1.19	0.23	-	pCi/g	
NAR-4	R	Thorium-232	NAR-4-7C-R	NONE	483454.22	1351343	3/13/97	0.77	0.18		pCi/g	0.78	0.17	-	pCi/g	
NAR-4	R	Thorium-232	NAR-4-8C-R	NONE	483599.50	1351430	3/11/97	0.82	0.32		pCi/g	0.82	0.32	J	pCi/g	
NAR-4	R	Thorium-232	NAR-4-8C2-R	NONE	483599.50	1351430	3/11/97	0.83	0.36		pCi/g	0.83	0.36	-	pCi/g	
NAR-4	R	Thorium-232	NAR-4-9C-R	NONE	483704.32	1351515	3/12/97	1.30	0.48		pCi/g	1.27	0.48	J	pCi/g	
NAR-4	R	Thorium-232	NAR-4-9C-R-D	NONE	483704.32	1351515	3/12/97	1.30	0.51		pCi/g	1.32	0.51	-	pCi/g	NAR-4-9C-R
NAR-4	R	Thorium-232	NAR-4-9C2-R	NONE	483704.32	1351515	3/12/97	1.30	0.56		pCi/g	1.35	0.56	-	pCi/g	
NAR-4	R	Uranium, Total	NAR-4-10C-R	NONE	483888.04	1351626	3/12/97				ug/g	3.65		U	ug/g	
NAR-4	R	Uranium, Total	NAR-4-10C2-R	NONE	483888.04	1351626	3/11/97				ug/g	3.30		U	ug/g	
NAR-4	R	Uranium, Total	NAR-4-11C-R	NONE	484001.41	1351719	3/12/97				ug/g	1.62	0.93	J	ug/g	
NAR-4	R	Uranium, Total	NAR-4-11C2-R	NONE	484001.41	1351719	3/12/97				ug/g	1.44	0.63	-	ug/g	
NAR-4	R	Uranium, Total	NAR-4-12C-R	NONE	484033.83	1351726	3/12/97				ug/g	3.60		U	ug/g	
NAR-4	R	Uranium, Total	NAR-4-12C2-R	NONE	484033.83	1351726	3/12/97				ug/g	1.74	2.25	R	ug/g	
NAR-4	R	Uranium, Total	NAR-4-12C2-R	RE	484033.83	1351726	3/12/97				ug/g	0.95		U	ug/g	
NAR-4	R	Uranium, Total	NAR-4-12C3-R	NONE	484033.83	1351726	3/12/97				ug/g	2.74		U	ug/g	
NAR-4	R	Uranium, Total	NAR-4-13C-R	NONE	484251.01	1351871	3/12/97				ug/g	3.60		U	ug/g	
NAR-4	R	Uranium, Total	NAR-4-13C2-R	NONE	484251.01	1351871	3/12/97				ug/g	3.60		U	ug/g	
NAR-4	R	Uranium, Total	NAR-4-13C3-R	NONE	484251.01	1351871	3/12/97				ug/g	3.18		U	ug/g	
NAR-4	R	Uranium, Total	NAR-4-14C-R	NONE	484364.10	1351963	3/12/97				ug/g	1.65		U	ug/g	
NAR-4	R	Uranium, Total	NAR-4-14C2-R	NONE	484364.10	1351963	3/12/97				ug/g	1.26	0.69	J	ug/g	
NAR-4	R	Uranium, Total	NAR-4-14C3-R	NONE	484364.1	1351963	3/20/97				ug/g	2.92		U	ug/g	
NAR-4	R	Uranium, Total	NAR-4-14C3-R-D	NONE	484364.1	1351963	3/20/97				ug/g	0.98	0.52	J	ug/g	NAR-4-14C3-R
NAR-4	R	Uranium, Total	NAR-4-14C4-R	NONE	484364.1	1351963	3/20/97				ug/g	1.53		U	ug/g	
NAR-4	R	Uranium, Total	NAR-4-14C5-R	NONE	484364.1	1351963	3/20/97				ug/g	4.07		U	ug/g	
NAR-4	R	Uranium, Total	NAR-4-14C6-R	NONE	484364.1	1351963	3/20/97				ug/g	3.23		U	ug/g	
NAR-4	R	Uranium, Total	NAR-4-14C7-R	NONE	484364.1	1351963	3/20/97				ug/g	1.98	0.76	-	ug/g	
NAR-4	R	Uranium, Total	NAR-4-14C8-R	NONE	484364.1	1351963	3/20/97				ug/g	3.81	2.10	J	ug/g	
NAR-4	R	Uranium, Total	NAR-4-15C-R	NONE	484455.12	1352023	3/12/97				ug/g	3.30	1.80	J	ug/g	
NAR-4	R	Uranium, Total	NAR-4-15C10-R	NONE	484455.12	1352023	3/20/97				ug/g	2.88	1.03	-	ug/g	
NAR-4	R	Uranium, Total	NAR-4-15C11-R	NONE	484455.12	1352023	3/20/97				ug/g	3.43		U	ug/g	
NAR-4	R	Uranium, Total	NAR-4-15C2-R	NONE	484455.12	1352023	3/12/97				ug/g	2.10	0.87	-	ug/g	
NAR-4	R	Uranium, Total	NAR-4-15C3-R	NONE	484455.12	1352023	3/20/97				ug/g	2.92		U	ug/g	
NAR-4	R	Uranium, Total	NAR-4-15C4-R	NONE	484455.12	1352023	3/20/97				ug/g	1.16		U	ug/g	

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								Laboratory Data				Validation Data				
CU Name	CU Type	Parameter	Sample ID	Suffix	Northing	Easting	Sample Date	Lab Result	TPU	Qualifier	Units	Val. Result	TPU	Qualifier	Units	Duplicate of
NAR-4	R	Uranium, Total	NAR-4-15C5-R	NONE	484455.12	1352023	3/20/97				ug/g	3.91	1.84	-	ug/g	
NAR-4	R	Uranium, Total	NAR-4-15C6-R	NONE	484455.12	1352023	3/20/97				ug/g	2.21		U	ug/g	
NAR-4	R	Uranium, Total	NAR-4-15C7-R	NONE	484455.12	1352023	3/20/97				ug/g	1.65	0.82	-	ug/g	
NAR-4	R	Uranium, Total	NAR-4-15C8-R	NONE	484455.12	1352023	3/20/97				ug/g	3.06		U	ug/g	
NAR-4	R	Uranium, Total	NAR-4-15C9-R	NONE	484455.12	1352023	3/20/97				ug/g	2.18		U	ug/g	
NAR-4	R	Uranium, Total	NAR-4-16C-R	NONE	484528.99	1352072	3/12/97				ug/g	3.30		U	ug/g	
NAR-4	R	Uranium, Total	NAR-4-16C10-R	NONE	484528.99	1352072	3/20/97				ug/g	3.39		U	ug/g	
NAR-4	R	Uranium, Total	NAR-4-16C11-R	NONE	484528.99	1352072	3/20/97				ug/g	4.60	4.20	J	ug/g	
NAR-4	R	Uranium, Total	NAR-4-16C2-R	NONE	484528.99	1352072	3/12/97				ug/g	2.67		U	ug/g	
NAR-4	R	Uranium, Total	NAR-4-16C3-R	NONE	484528.99	1352072	3/20/97				ug/g	1.72		U	ug/g	
NAR-4	R	Uranium, Total	NAR-4-16C4-R	NONE	484528.99	1352072	3/20/97				ug/g	3.35	4.33	J	ug/g	
NAR-4	R	Uranium, Total	NAR-4-16C5-R	NONE	484528.99	1352072	3/20/97				ug/g	3.58		U	ug/g	
NAR-4	R	Uranium, Total	NAR-4-16C6-R	NONE	484528.99	1352072	3/20/97				ug/g	3.46		U	ug/g	
NAR-4	R	Uranium, Total	NAR-4-16C7-R	NONE	484528.99	1352072	3/20/97				ug/g	2.54		U	ug/g	
NAR-4	R	Uranium, Total	NAR-4-16C8-R	NONE	484528.99	1352072	3/20/97				ug/g	2.58		U	ug/g	
NAR-4	R	Uranium, Total	NAR-4-16C9-R	NONE	484528.99	1352072	3/20/97				ug/g	2.70	3.33	J	ug/g	
NAR-4	R	Uranium, Total	NAR-4-1C-R	NONE	482790.51	1350967	3/11/97				ug/g	2.76		U	ug/g	
NAR-4	R	Uranium, Total	NAR-4-2C-R	NONE	482863.19	1351002	3/12/97				ug/g	2.64		U	ug/g	
NAR-4	R	Uranium, Total	NAR-4-3C-R	NONE	483002.36	1351049	3/12/97				ug/g	6.28	4.65	J	ug/g	
NAR-4	R	Uranium, Total	NAR-4-4C-R	NONE	483181.3	1351160	3/13/97				ug/g	5.10	3.77	J	ug/g	
NAR-4	R	Uranium, Total	NAR-4-5C-R	NONE	483244.77	1351205	3/13/97				ug/g	6.46	4.35	J	ug/g	
NAR-4	R	Uranium, Total	NAR-4-6C-R	NONE	483392.56	1351293	3/11/97				ug/g	5.22	5.16	J	ug/g	
NAR-4	R	Uranium, Total	NAR-4-7C-R	NONE	483454.22	1351343	3/13/97				ug/g	3.95	2.23	J	ug/g	
NAR-4	R	Uranium, Total	NAR-4-8C-R	NONE	483599.50	1351430	3/11/97				ug/g	3.90		U	ug/g	
NAR-4	R	Uranium, Total	NAR-4-8C2-R	NONE	483599.50	1351430	3/11/97				ug/g	3.00		U	ug/g	
NAR-4	R	Uranium, Total	NAR-4-9C-R	NONE	483704.32	1351515	3/12/97				ug/g	3.90		U	ug/g	
NAR-4	R	Uranium, Total	NAR-4-9C-R-D	NONE	483704.32	1351515	3/12/97				ug/g	1.38	0.60	-	ug/g	NAR-4-9C-R
NAR-4	R	Uranium, Total	NAR-4-9C2-R	NONE	483704.32	1351515	3/12/97				ug/g	1.12	0.56	-	ug/g	
NAR-4	R	Uranium-238	NAR-4-10C-R	NONE	483888.04	1351626	3/12/97	1.20	0.76		pCi/g	1.22		U	pCi/g	
NAR-4	R	Uranium-238	NAR-4-10C2-R	NONE	483888.04	1351626	3/11/97	0.40	0.64	U	pCi/g	1.07		U	pCi/g	
NAR-4	R	Uranium-238	NAR-4-11C-R	NONE	484001.41	1351719	3/12/97	0.54	0.31		pCi/g	0.54	0.31	J	pCi/g	
NAR-4	R	Uranium-238	NAR-4-11C2-R	NONE	484001.41	1351719	3/12/97	0.48	0.21		pCi/g	0.48	0.21	-	pCi/g	
NAR-4	R	Uranium-238	NAR-4-12C-R	NONE	484033.83	1351726	3/12/97	1.10	0.72	U	pCi/g	1.16		U	pCi/g	
NAR-4	R	Uranium-238	NAR-4-12C2-R	NONE	484033.83	1351726	3/12/97	0.58	0.75	U	pCi/g	0.58	0.75	R	pCi/g	
NAR-4	R	Uranium-238	NAR-4-12C2-R	RE	484033.83	1351726	3/12/97	0.01	0.19	U	pCi/g	0.32		U	pCi/g	
NAR-4	R	Uranium-238	NAR-4-12C3-R	NONE	484033.83	1351726	3/12/97	0.40	1.20	U	pCi/g	0.91		U	pCi/g	
NAR-4	R	Uranium-238	NAR-4-13C-R	NONE	484251.01	1351871	3/12/97	0.95	0.75	U	pCi/g	1.23		U	pCi/g	
NAR-4	R	Uranium-238	NAR-4-13C2-R	NONE	484251.01	1351871	3/12/97	0.00	0.69	U	pCi/g	1.17		U	pCi/g	
NAR-4	R	Uranium-238	NAR-4-13C3-R	NONE	484251.01	1351871	3/12/97	0.71	1.50	U	pCi/g	1.06		U	pCi/g	
NAR-4	R	Uranium-238	NAR-4-14C-R	NONE	484364.10	1351963	3/12/97	0.52	0.33	U	pCi/g	0.55		U	pCi/g	

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								Laboratory Data				Validation Data					
CU Name	CU Type	Parameter	Sample ID	Suffix	Northing	Easting	Sample Date	Lab Result	TPU	Qualifier	Units	Val. Result	TPU	Qualifier	Units	Duplicate of
NAR-4	R	Uranium-238	NAR-4-14C2-R	NONE	484364.10	1351963	3/12/97	0.42	0.23		pCi/g	0.42	0.23	J	pCi/g	
NAR-4	R	Uranium-238	NAR-4-14C3-R	NONE	484364.1	1351963	3/20/97	0.67	0.59	U	pCi/g	0.97		U	pCi/g	
NAR-4	R	Uranium-238	NAR-4-14C3-R-D	NONE	484364.1	1351963	3/20/97	0.33	0.17		pCi/g	0.33	0.18	J	pCi/g	NAR-4-14C3-R
NAR-4	R	Uranium-238	NAR-4-14C4-R	NONE	484364.1	1351963	3/20/97	0.35	0.31	U	pCi/g	0.51		U	pCi/g	
NAR-4	R	Uranium-238	NAR-4-14C5-R	NONE	484364.1	1351963	3/20/97	1.10	0.83		pCi/g	1.36		U	pCi/g	
NAR-4	R	Uranium-238	NAR-4-14C6-R	NONE	484364.1	1351963	3/20/97	0.86	0.66	U	pCi/g	1.08		U	pCi/g	
NAR-4	R	Uranium-238	NAR-4-14C7-R	NONE	484364.1	1351963	3/20/97	0.66	0.25	U	pCi/g	0.66	0.25	-	pCi/g	
NAR-4	R	Uranium-238	NAR-4-14C8-R	NONE	484364.1	1351963	3/20/97	1.30	0.70		pCi/g	1.27	0.70	J	pCi/g	
NAR-4	R	Uranium-238	NAR-4-15C-R	NONE	484455.12	1352023	3/12/97	1.10	0.60		pCi/g	1.10	0.60	J	pCi/g	
NAR-4	R	Uranium-238	NAR-4-15C10-R	NONE	484455.12	1352023	3/20/97	0.96	0.34		pCi/g	0.96	0.34	-	pCi/g	
NAR-4	R	Uranium-238	NAR-4-15C11-R	NONE	484455.12	1352023	3/20/97	0.09	1.10	U	pCi/g	1.15		U	pCi/g	
NAR-4	R	Uranium-238	NAR-4-15C2-R	NONE	484455.12	1352023	3/12/97	0.70	0.29		pCi/g	0.70	0.29	-	pCi/g	
NAR-4	R	Uranium-238	NAR-4-15C3-R	NONE	484455.12	1352023	3/20/97	0.74	0.59	U	pCi/g	0.98		U	pCi/g	
NAR-4	R	Uranium-238	NAR-4-15C4-R	NONE	484455.12	1352023	3/20/97	0.03	0.36	U	pCi/g	0.39		U	pCi/g	
NAR-4	R	Uranium-238	NAR-4-15C5-R	NONE	484455.12	1352023	3/20/97	1.30	0.61		pCi/g	1.30	0.61	-	pCi/g	
NAR-4	R	Uranium-238	NAR-4-15C6-R	NONE	484455.12	1352023	3/20/97	0.50	0.45	U	pCi/g	0.74		U	pCi/g	
NAR-4	R	Uranium-238	NAR-4-15C7-R	NONE	484455.12	1352023	3/20/97	0.55	0.27		pCi/g	0.55	0.28	-	pCi/g	
NAR-4	R	Uranium-238	NAR-4-15C8-R	NONE	484455.12	1352023	3/20/97	0.75	0.62		pCi/g	1.02		U	pCi/g	
NAR-4	R	Uranium-238	NAR-4-15C9-R	NONE	484455.12	1352023	3/20/97	0.21	0.43		pCi/g	0.73		U	pCi/g	
NAR-4	R	Uranium-238	NAR-4-16C-R	NONE	484528.99	1352072	3/12/97	0.83	0.69	U	pCi/g	1.14		U	pCi/g	
NAR-4	R	Uranium-238	NAR-4-16C10-R	NONE	484528.99	1352072	3/20/97	0.46	1.40	U	pCi/g	1.13		U	pCi/g	
NAR-4	R	Uranium-238	NAR-4-16C11-R	NONE	484528.99	1352072	3/20/97	1.50	1.40		pCi/g	1.53	1.40	J	pCi/g	
NAR-4	R	Uranium-238	NAR-4-16C2-R	NONE	484528.99	1352072	3/12/97	-0.04	0.52	U	pCi/g	0.89		U	pCi/g	
NAR-4	R	Uranium-238	NAR-4-16C3-R	NONE	484528.99	1352072	3/20/97	0.51	0.91	U	pCi/g	0.57		U	pCi/g	
NAR-4	R	Uranium-238	NAR-4-16C4-R	NONE	484528.99	1352072	3/20/97	1.10	1.40	U	pCi/g	1.12	1.44	J	pCi/g	
NAR-4	R	Uranium-238	NAR-4-16C5-R	NONE	484528.99	1352072	3/20/97	0.43	1.50	U	pCi/g	1.19		U	pCi/g	
NAR-4	R	Uranium-238	NAR-4-16C6-R	NONE	484528.99	1352072	3/20/97	0.06	1.40	U	pCi/g	1.16		U	pCi/g	
NAR-4	R	Uranium-238	NAR-4-16C7-R	NONE	484528.99	1352072	3/20/97	0.59	0.96	U	pCi/g	0.85		U	pCi/g	
NAR-4	R	Uranium-238	NAR-4-16C8-R	NONE	484528.99	1352072	3/20/97	0.72	1.20	U	pCi/g	0.86		U	pCi/g	
NAR-4	R	Uranium-238	NAR-4-16C9-R	NONE	484528.99	1352072	3/20/97	0.90	1.10		pCi/g	0.90	1.11	J	pCi/g	
NAR-4	R	Uranium-238	NAR-4-1C-R	NONE	482790.51	1350967	3/11/97	0.33	1.20	U	pCi/g	0.92		U	pCi/g	
NAR-4	R	Uranium-238	NAR-4-2C-R	NONE	482863.19	1351002	3/12/97	0.76	1.30	U	pCi/g	0.88		U	pCi/g	
NAR-4	R	Uranium-238	NAR-4-3C-R	NONE	483002.36	1351049	3/12/97	2.10	1.60		pCi/g	2.09	1.55	J	pCi/g	
NAR-4	R	Uranium-238	NAR-4-4C-R	NONE	483181.3	1351160	3/13/97	1.70	1.30		pCi/g	1.70	1.26	J	pCi/g	
NAR-4	R	Uranium-238	NAR-4-5C-R	NONE	483244.77	1351205	3/13/97	2.20	1.50		pCi/g	2.16	1.45	J	pCi/g	
NAR-4	R	Uranium-238	NAR-4-6C-R	NONE	483392.56	1351293	3/11/97	1.70	1.70		pCi/g	1.74	1.72	J	pCi/g	
NAR-4	R	Uranium-238	NAR-4-7C-R	NONE	483454.22	1351343	3/13/97	1.30	0.74		pCi/g	1.32	0.74	J	pCi/g	
NAR-4	R	Uranium-238	NAR-4-8C-R	NONE	483599.50	1351430	3/11/97	0.89	0.77	U	pCi/g	1.27		U	pCi/g	
NAR-4	R	Uranium-238	NAR-4-8C2-R	NONE	483599.50	1351430	3/11/97	0.08	0.60	U	pCi/g	1.01		U	pCi/g	
NAR-4	R	Uranium-238	NAR-4-9C-R	NONE	483704.32	1351515	3/12/97	1.10	1.20	U	pCi/g	1.25		U	pCi/g	

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								Laboratory Data				Validation Data				
CU Name	CU Type	Parameter	Sample ID	Suffix	Northing	Easting	Sample Date	Lab Result	TPU	Qualifier	Units	Val. Result	TPU	Qualifier	Units	Duplicate of
NAR-4	R	Uranium-238	NAR-4-9C-R-D	NONE	483704.32	1351515	3/12/97	0.46	0.20		pCi/g	0.46	0.20	-	pCi/g	NAR-4-9C-R
NAR-4	R	Uranium-238	NAR-4-9C2-R	NONE	483704.32	1351515	3/12/97	0.37	0.19		pCi/g	0.38	0.19	-	pCi/g	
NAR-5	M	Arsenic	NAR-5-10C-M	NONE	482398.36	1350958	3/17/97	14.70			mg/kg	14.70		-	mg/kg	
NAR-5	M	Arsenic	NAR-5-11C-M	NONE	482410.58	1350949	3/17/97	12.80			mg/kg	12.80		-	mg/kg	
NAR-5	M	Arsenic	NAR-5-12C-M	NONE	482492.45	1350955	3/17/97	11.90			mg/kg	11.90		-	mg/kg	
NAR-5	M	Arsenic	NAR-5-13C-M	NONE	482512.45	1350956	3/17/97	12.90			mg/kg	12.90		-	mg/kg	
NAR-5	M	Arsenic	NAR-5-14C-M	NONE	482557.55	1350959	3/17/97	7.20			mg/kg	7.20		-	mg/kg	
NAR-5	M	Arsenic	NAR-5-15C-M	NONE	482627.45	1350968	3/13/97	10.40		N	mg/kg	10.40		J	mg/kg	
NAR-5	M	Arsenic	NAR-5-16C-M	NONE	482664.30	1350966	3/19/97	8.30			mg/kg	8.30		-	mg/kg	
NAR-5	M	Arsenic	NAR-5-1C-M	NONE	481905.56	1350944	3/19/97	4.80			mg/kg	4.80		J	mg/kg	
NAR-5	M	Arsenic	NAR-5-1C-M-D	NONE	481905.56	1350944	3/19/97	8.00			mg/kg	8.00		J	mg/kg	NAR-5-1C-M
NAR-5	M	Arsenic	NAR-5-2C-M	NONE	481949.77	1350936	3/19/97	12.20			mg/kg	12.20		-	mg/kg	
NAR-5	M	Arsenic	NAR-5-3C-M	NONE	482019.62	1350943	3/19/97	9.90			mg/kg	9.90		-	mg/kg	
NAR-5	M	Arsenic	NAR-5-4C-M	NONE	482096.55	1350946	3/19/97	6.20			mg/kg	6.20		-	mg/kg	
NAR-5	M	Arsenic	NAR-5-5C-M	NONE	482108.52	1350948	3/19/97	8.20			mg/kg	8.20		-	mg/kg	
NAR-5	M	Arsenic	NAR-5-6C-M	NONE	482194.81	1350937	3/19/97	13.60			mg/kg	13.60		-	mg/kg	
NAR-5	M	Arsenic	NAR-5-7C-M	NONE	482211.49	1350950	3/19/97	11.80			mg/kg	11.80		-	mg/kg	
NAR-5	M	Arsenic	NAR-5-8C-M	NONE	482258.57	1350947	3/19/97	11.90			mg/kg	11.90		-	mg/kg	
NAR-5	M	Arsenic	NAR-5-9C-M	NONE	482337.55	1350949	3/17/97	9.30			mg/kg	9.30		-	mg/kg	
NAR-5	M	Beryllium	NAR-5-10C-M	NONE	482398.36	1350958	3/17/97	1.20			mg/kg	1.20		-	mg/kg	
NAR-5	M	Beryllium	NAR-5-11C-M	NONE	482410.58	1350949	3/17/97	1.20			mg/kg	1.20		-	mg/kg	
NAR-5	M	Beryllium	NAR-5-12C-M	NONE	482492.45	1350955	3/17/97	1.60			mg/kg	1.60		-	mg/kg	
NAR-5	M	Beryllium	NAR-5-13C-M	NONE	482512.45	1350956	3/17/97	1.10			mg/kg	1.10		-	mg/kg	
NAR-5	M	Beryllium	NAR-5-14C-M	NONE	482557.55	1350959	3/17/97	0.71			mg/kg	0.71		-	mg/kg	
NAR-5	M	Beryllium	NAR-5-15C-M	NONE	482627.45	1350968	3/13/97	1.30			mg/kg	1.30		-	mg/kg	
NAR-5	M	Beryllium	NAR-5-16C-M	NONE	482664.30	1350966	3/19/97	0.60		B	mg/kg	0.60		-	mg/kg	
NAR-5	M	Beryllium	NAR-5-1C-M	NONE	481905.56	1350944	3/19/97	0.76			mg/kg	0.76		-	mg/kg	
NAR-5	M	Beryllium	NAR-5-1C-M-D	NONE	481905.56	1350944	3/19/97	0.76			mg/kg	0.76		-	mg/kg	NAR-5-1C-M
NAR-5	M	Beryllium	NAR-5-2C-M	NONE	481949.77	1350936	3/19/97	1.40			mg/kg	1.40		-	mg/kg	
NAR-5	M	Beryllium	NAR-5-3C-M	NONE	482019.62	1350943	3/19/97	1.20			mg/kg	1.20		-	mg/kg	
NAR-5	M	Beryllium	NAR-5-4C-M	NONE	482096.55	1350946	3/19/97	0.59			mg/kg	0.59		-	mg/kg	
NAR-5	M	Beryllium	NAR-5-5C-M	NONE	482108.52	1350948	3/19/97	1.00			mg/kg	1.00		-	mg/kg	
NAR-5	M	Beryllium	NAR-5-6C-M	NONE	482194.81	1350937	3/19/97	0.86			mg/kg	0.86		-	mg/kg	
NAR-5	M	Beryllium	NAR-5-7C-M	NONE	482211.49	1350950	3/19/97	1.20			mg/kg	1.20		-	mg/kg	
NAR-5	M	Beryllium	NAR-5-8C-M	NONE	482258.57	1350947	3/19/97	0.87			mg/kg	0.87		-	mg/kg	
NAR-5	M	Beryllium	NAR-5-9C-M	NONE	482337.55	1350949	3/17/97	0.90			mg/kg	0.90		-	mg/kg	
NAR-5	R	Moisture Content	NAR-5-10C-R	NONE	482398.36	1350958	3/17/97	17.70			Percent			NV	Percent	
NAR-5	R	Moisture Content	NAR-5-11C-R	NONE	482410.58	1350949	3/17/97	18.90			Percent			NV	Percent	
NAR-5	R	Moisture Content	NAR-5-12C-R	NONE	482492.45	1350955	3/17/97	19.70			Percent			NV	Percent	

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								Laboratory Data				Validation Data				
CU Name	CU Type	Parameter	Sample ID	Suffix	Northing	Easting	Sample Date	Lab Result	TPU	Qualifier	Units	Val. Result	TPU	Qualifier	Units	Duplicate of
NAR-5	R	Moisture Content	NAR-5-13C-R	NONE	482512.45	1350956	3/17/97	21.10			Percent			NV	Percent	
NAR-5	R	Moisture Content	NAR-5-14C-R	NONE	482557.55	1350959	3/17/97	17.10			Percent			NV	Percent	
NAR-5	R	Moisture Content	NAR-5-15C-R	NONE	482627.45	1350968	3/13/97	18.84			Percent			NV	Percent	
NAR-5	R	Moisture Content	NAR-5-16C-R	NONE	482664.30	1350966	3/19/97	19.07			Percent	19.07		NV	Percent	
NAR-5	R	Moisture Content	NAR-5-1C-R	NONE	481905.56	1350944	3/19/97	14.95			Percent	14.95		NV	Percent	
NAR-5	R	Moisture Content	NAR-5-1C-R-D	NONE	481905.56	1350944	3/19/97	13.92			Percent	13.92		NV	Percent	NAR-5-1C-R
NAR-5	R	Moisture Content	NAR-5-2C-R	NONE	481949.77	1350936	3/19/97	20.21			Percent	20.21		NV	Percent	
NAR-5	R	Moisture Content	NAR-5-3C-R	NONE	482019.62	1350943	3/19/97	14.31			Percent	14.31		NV	Percent	
NAR-5	R	Moisture Content	NAR-5-4C-R	NONE	482096.55	1350946	3/19/97	12.59			Percent	12.59		NV	Percent	
NAR-5	R	Moisture Content	NAR-5-5C-R	NONE	482108.52	1350948	3/19/97	18.62			Percent	18.62		NV	Percent	
NAR-5	R	Moisture Content	NAR-5-6C-R	NONE	482194.81	1350937	3/19/97	18.03			Percent	18.03		NV	Percent	
NAR-5	R	Moisture Content	NAR-5-7C-R	NONE	482211.49	1350950	3/19/97	19.25			Percent	19.25		NV	Percent	
NAR-5	R	Moisture Content	NAR-5-8C-R	NONE	482258.57	1350947	3/19/97	19.72			Percent	19.72		NV	Percent	
NAR-5	R	Moisture Content	NAR-5-9C-R	NONE	482337.55	1350949	3/17/97	16.10			Percent			NV	Percent	
NAR-5	R	Radium-226	NAR-5-10C-R	NONE	482398.36	1350958	3/17/97	1.60	0.21		pCi/g	1.63	0.21	-	pCi/g	
NAR-5	R	Radium-226	NAR-5-11C-R	NONE	482410.58	1350949	3/17/97	1.50	0.17		pCi/g	1.52	0.17	-	pCi/g	
NAR-5	R	Radium-226	NAR-5-12C-R	NONE	482492.45	1350955	3/17/97	1.70	0.16		pCi/g	1.72	0.16	-	pCi/g	
NAR-5	R	Radium-226	NAR-5-13C-R	NONE	482512.45	1350956	3/17/97	1.60	0.16		pCi/g	1.61	0.16	-	pCi/g	
NAR-5	R	Radium-226	NAR-5-14C-R	NONE	482557.55	1350959	3/17/97	1.40	0.15		pCi/g	1.44	0.15	-	pCi/g	
NAR-5	R	Radium-226	NAR-5-15C-R	NONE	482627.45	1350968	3/13/97	1.40	0.23		pCi/g	1.43	0.23	-	pCi/g	
NAR-5	R	Radium-226	NAR-5-16C-R	NONE	482664.30	1350966	3/19/97	1.30	0.21		pCi/g	1.34	0.21	-	pCi/g	
NAR-5	R	Radium-226	NAR-5-1C-R	NONE	481905.56	1350944	3/19/97	0.85	0.14		pCi/g	0.85	0.14	-	pCi/g	
NAR-5	R	Radium-226	NAR-5-1C-R-D	NONE	481905.56	1350944	3/19/97	0.80	0.15		pCi/g	0.80	0.15	-	pCi/g	NAR-5-1C-R
NAR-5	R	Radium-226	NAR-5-2C-R	NONE	481949.77	1350936	3/19/97	1.50	0.20		pCi/g	1.47	0.20	-	pCi/g	
NAR-5	R	Radium-226	NAR-5-3C-R	NONE	482019.62	1350943	3/19/97	0.95	0.16		pCi/g	0.95	0.16	-	pCi/g	
NAR-5	R	Radium-226	NAR-5-4C-R	NONE	482096.55	1350946	3/19/97	0.86	0.14		pCi/g	0.86	0.14	-	pCi/g	
NAR-5	R	Radium-226	NAR-5-5C-R	NONE	482108.52	1350948	3/19/97	1.20	0.18		pCi/g	1.21	0.18	-	pCi/g	
NAR-5	R	Radium-226	NAR-5-6C-R	NONE	482194.81	1350937	3/19/97	1.40	0.20		pCi/g	1.40	0.20	-	pCi/g	
NAR-5	R	Radium-226	NAR-5-7C-R	NONE	482211.49	1350950	3/19/97	1.30	0.20		pCi/g	1.33	0.20	-	pCi/g	
NAR-5	R	Radium-226	NAR-5-8C-R	NONE	482258.57	1350947	3/19/97	1.50	0.28		pCi/g	1.48	0.28	-	pCi/g	
NAR-5	R	Radium-226	NAR-5-9C-R	NONE	482337.55	1350949	3/17/97	1.20	0.14		pCi/g	1.17	0.14	-	pCi/g	
NAR-5	R	Radium-228	NAR-5-10C-R	NONE	482398.36	1350958	3/17/97	1.50	0.42		pCi/g	1.53	0.42	-	pCi/g	
NAR-5	R	Radium-228	NAR-5-11C-R	NONE	482410.58	1350949	3/17/97	1.40	0.35		pCi/g	1.36	0.35	-	pCi/g	
NAR-5	R	Radium-228	NAR-5-12C-R	NONE	482492.45	1350955	3/17/97	1.30	0.35		pCi/g	1.32	0.35	-	pCi/g	
NAR-5	R	Radium-228	NAR-5-13C-R	NONE	482512.45	1350956	3/17/97	1.50	0.36		pCi/g	1.49	0.36	-	pCi/g	
NAR-5	R	Radium-228	NAR-5-14C-R	NONE	482557.55	1350959	3/17/97	1.40	0.35		pCi/g	1.40	0.35	-	pCi/g	
NAR-5	R	Radium-228	NAR-5-15C-R	NONE	482627.45	1350968	3/13/97	1.40	0.29		pCi/g	1.40	0.29	-	pCi/g	
NAR-5	R	Radium-228	NAR-5-16C-R	NONE	482664.30	1350966	3/19/97	1.30	0.28		pCi/g	1.33	0.28	-	pCi/g	
NAR-5	R	Radium-228	NAR-5-1C-R	NONE	481905.56	1350944	3/19/97	0.88	0.23		pCi/g	0.88	0.23	-	pCi/g	
NAR-5	R	Radium-228	NAR-5-1C-R-D	NONE	481905.56	1350944	3/19/97	0.90	0.22		pCi/g	0.90	0.22	-	pCi/g	NAR-5-1C-R

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								Laboratory Data				Validation Data				
CU Name	CU Type	Parameter	Sample ID	Suffix	Northing	Easting	Sample Date	Lab Result	TPU	Qualifier	Units	Val. Result	TPU	Qualifier	Units	Duplicate of
NAR-5	R	Radium-228	NAR-5-2C-R	NONE	481949.77	1350936	3/19/97	1.20	0.25		pCi/g	1.20	0.25	-	pCi/g	
NAR-5	R	Radium-228	NAR-5-3C-R	NONE	482019.62	1350943	3/19/97	0.81	0.21		pCi/g	0.81	0.21	-	pCi/g	
NAR-5	R	Radium-228	NAR-5-4C-R	NONE	482096.55	1350946	3/19/97	0.88	0.23		pCi/g	0.88	0.23	-	pCi/g	
NAR-5	R	Radium-228	NAR-5-5C-R	NONE	482108.52	1350948	3/19/97	1.10	0.24		pCi/g	1.05	0.24	-	pCi/g	
NAR-5	R	Radium-228	NAR-5-6C-R	NONE	482194.81	1350937	3/19/97	1.20	0.25		pCi/g	1.25	0.25	-	pCi/g	
NAR-5	R	Radium-228	NAR-5-7C-R	NONE	482211.49	1350950	3/19/97	1.30	0.29		pCi/g	1.34	0.29	-	pCi/g	
NAR-5	R	Radium-228	NAR-5-8C-R	NONE	482258.57	1350947	3/19/97	1.30	0.33		pCi/g	1.28	0.33	-	pCi/g	
NAR-5	R	Radium-228	NAR-5-9C-R	NONE	482337.55	1350949	3/17/97	1.20	0.31		pCi/g	1.19	0.31	-	pCi/g	
NAR-5	R	Thorium-228	NAR-5-10C-R	NONE	482398.36	1350958	3/17/97	1.30	0.47		pCi/g	1.25	0.47	J	pCi/g	
NAR-5	R	Thorium-228	NAR-5-11C-R	NONE	482410.58	1350949	3/17/97	1.40	0.54		pCi/g	1.40	0.54	J	pCi/g	
NAR-5	R	Thorium-228	NAR-5-12C-R	NONE	482492.45	1350955	3/17/97	1.40	0.52		pCi/g	1.39	0.52	J	pCi/g	
NAR-5	R	Thorium-228	NAR-5-13C-R	NONE	482512.45	1350956	3/17/97	1.60	0.66		pCi/g	1.56	0.66	J	pCi/g	
NAR-5	R	Thorium-228	NAR-5-14C-R	NONE	482557.55	1350959	3/17/97	1.40	0.52		pCi/g	1.40	0.52	-	pCi/g	
NAR-5	R	Thorium-228	NAR-5-15C-R	NONE	482627.45	1350968	3/13/97	1.30	0.24		pCi/g	1.28	0.23	-	pCi/g	
NAR-5	R	Thorium-228	NAR-5-16C-R	NONE	482664.30	1350966	3/19/97	1.40	0.32		pCi/g	1.45	0.31	-	pCi/g	
NAR-5	R	Thorium-228	NAR-5-1C-R	NONE	481905.56	1350944	3/19/97	0.78	0.23		pCi/g	0.79	0.21	-	pCi/g	
NAR-5	R	Thorium-228	NAR-5-1C-R-D	NONE	481905.56	1350944	3/19/97	0.77	0.23		pCi/g	0.78	0.21	-	pCi/g	NAR-5-1C-R
NAR-5	R	Thorium-228	NAR-5-2C-R	NONE	481949.77	1350936	3/19/97	1.10	0.25		pCi/g	1.09	0.23	-	pCi/g	
NAR-5	R	Thorium-228	NAR-5-3C-R	NONE	482019.62	1350943	3/19/97	0.85	0.22		pCi/g	0.85	0.20	J	pCi/g	
NAR-5	R	Thorium-228	NAR-5-4C-R	NONE	482096.55	1350946	3/19/97	0.87	0.23		pCi/g	0.87	0.21	-	pCi/g	
NAR-5	R	Thorium-228	NAR-5-5C-R	NONE	482108.52	1350948	3/19/97	1.20	0.27		pCi/g	1.24	0.26	-	pCi/g	
NAR-5	R	Thorium-228	NAR-5-6C-R	NONE	482194.81	1350937	3/19/97	1.20	0.28		pCi/g	1.20	0.27	-	pCi/g	
NAR-5	R	Thorium-228	NAR-5-7C-R	NONE	482211.49	1350950	3/19/97	1.30	0.29		pCi/g	1.28	0.27	-	pCi/g	
NAR-5	R	Thorium-228	NAR-5-8C-R	NONE	482258.57	1350947	3/19/97	1.20	0.29		pCi/g	1.20	0.27	-	pCi/g	
NAR-5	R	Thorium-228	NAR-5-9C-R	NONE	482337.55	1350949	3/17/97	1.30	0.49		pCi/g	1.30	0.49	J	pCi/g	
NAR-5	R	Thorium-232	NAR-5-10C-R	NONE	482398.36	1350958	3/17/97	1.00	0.39		pCi/g	1.04	0.39	J	pCi/g	
NAR-5	R	Thorium-232	NAR-5-11C-R	NONE	482410.58	1350949	3/17/97	1.20	0.45		pCi/g	1.17	0.45	J	pCi/g	
NAR-5	R	Thorium-232	NAR-5-12C-R	NONE	482492.45	1350955	3/17/97	1.10	0.43		pCi/g	1.14	0.43	J	pCi/g	
NAR-5	R	Thorium-232	NAR-5-13C-R	NONE	482512.45	1350956	3/17/97	1.30	0.55		pCi/g	1.31	0.55	J	pCi/g	
NAR-5	R	Thorium-232	NAR-5-14C-R	NONE	482557.55	1350959	3/17/97	1.30	0.48		pCi/g	1.28	0.48	-	pCi/g	
NAR-5	R	Thorium-232	NAR-5-15C-R	NONE	482627.45	1350968	3/13/97	1.20	0.22		pCi/g	1.20	0.22	-	pCi/g	
NAR-5	R	Thorium-232	NAR-5-16C-R	NONE	482664.30	1350966	3/19/97	1.30	0.26		pCi/g	1.25	0.26	-	pCi/g	
NAR-5	R	Thorium-232	NAR-5-1C-R	NONE	481905.56	1350944	3/19/97	0.67	0.17		pCi/g	0.67	0.17	-	pCi/g	
NAR-5	R	Thorium-232	NAR-5-1C-R-D	NONE	481905.56	1350944	3/19/97	0.75	0.18		pCi/g	0.75	0.18	-	pCi/g	NAR-5-1C-R
NAR-5	R	Thorium-232	NAR-5-2C-R	NONE	481949.77	1350936	3/19/97	0.99	0.21		pCi/g	0.99	0.21	-	pCi/g	
NAR-5	R	Thorium-232	NAR-5-3C-R	NONE	482019.62	1350943	3/19/97	0.79	0.17		pCi/g	0.79	0.17	J	pCi/g	
NAR-5	R	Thorium-232	NAR-5-4C-R	NONE	482096.55	1350946	3/19/97	0.89	0.20		pCi/g	0.89	0.20	-	pCi/g	
NAR-5	R	Thorium-232	NAR-5-5C-R	NONE	482108.52	1350948	3/19/97	1.10	0.23		pCi/g	1.09	0.22	-	pCi/g	
NAR-5	R	Thorium-232	NAR-5-6C-R	NONE	482194.81	1350937	3/19/97	1.10	0.24		pCi/g	1.09	0.24	-	pCi/g	
NAR-5	R	Thorium-232	NAR-5-7C-R	NONE	482211.49	1350950	3/19/97	0.94	0.21		pCi/g	0.94	0.21	-	pCi/g	

								Laboratory Data				Validation Data				
CU Name	CU Type	Parameter	Sample ID	Suffix	Northing	Easting	Sample Date	Lab Result	TPU	Qualifier	Units	Val. Result	TPU	Qualifier	Units	Duplicate of
NAR-5	R	Thorium-232	NAR-5-8C-R	NONE	482258.57	1350947	3/19/97	1.10	0.23		pCi/g	1.07	0.23	-	pCi/g	
NAR-5	R	Thorium-232	NAR-5-9C-R	NONE	482337.55	1350949	3/17/97	0.97	0.37		pCi/g	0.97	0.37	J	pCi/g	
NAR-5	R	Uranium, Total	NAR-5-10C-R	NONE	482398.36	1350958	3/17/97				ug/g	6.01	2.38	-	ug/g	
NAR-5	R	Uranium, Total	NAR-5-11C-R	NONE	482410.58	1350949	3/17/97				ug/g	1.45		U	ug/g	
NAR-5	R	Uranium, Total	NAR-5-12C-R	NONE	482492.45	1350955	3/17/97				ug/g	3.33	2.05	J	ug/g	
NAR-5	R	Uranium, Total	NAR-5-13C-R	NONE	482512.45	1350956	3/17/97				ug/g	2.33	1.04	-	ug/g	
NAR-5	R	Uranium, Total	NAR-5-14C-R	NONE	482557.55	1350959	3/17/97				ug/g	3.08	1.19	-	ug/g	
NAR-5	R	Uranium, Total	NAR-5-15C-R	NONE	482627.45	1350968	3/13/97				ug/g	6.35	4.99	J	ug/g	
NAR-5	R	Uranium, Total	NAR-5-16C-R	NONE	482664.30	1350966	3/19/97				ug/g	6.92	4.82	J	ug/g	
NAR-5	R	Uranium, Total	NAR-5-1C-R	NONE	481905.56	1350944	3/19/97				ug/g	4.32	3.87	J	ug/g	
NAR-5	R	Uranium, Total	NAR-5-1C-R-D	NONE	481905.56	1350944	3/19/97				ug/g	4.03	4.91	J	ug/g	NAR-5-1C-R
NAR-5	R	Uranium, Total	NAR-5-2C-R	NONE	481949.77	1350936	3/19/97				ug/g	3.87	4.00	J	ug/g	
NAR-5	R	Uranium, Total	NAR-5-3C-R	NONE	482019.62	1350943	3/19/97				ug/g	2.90	3.30	J	ug/g	
NAR-5	R	Uranium, Total	NAR-5-4C-R	NONE	482096.55	1350946	3/19/97				ug/g	2.71		U	ug/g	
NAR-5	R	Uranium, Total	NAR-5-5C-R	NONE	482108.52	1350948	3/19/97				ug/g	5.35	3.67	J	ug/g	
NAR-5	R	Uranium, Total	NAR-5-6C-R	NONE	482194.81	1350937	3/19/97				ug/g	16.65	6.41	J	ug/g	
NAR-5	R	Uranium, Total	NAR-5-7C-R	NONE	482211.49	1350950	3/19/97				ug/g	7.19	5.90	J	ug/g	
NAR-5	R	Uranium, Total	NAR-5-8C-R	NONE	482258.57	1350947	3/19/97				ug/g	11.53	7.81	J	ug/g	
NAR-5	R	Uranium, Total	NAR-5-9C-R	NONE	482337.55	1350949	3/17/97				ug/g	2.72	0.86	-	ug/g	
NAR-5	R	Uranium-238	NAR-5-10C-R	NONE	482398.36	1350958	3/17/97	2.00	0.79		pCi/g	2.01	0.79	-	pCi/g	
NAR-5	R	Uranium-238	NAR-5-11C-R	NONE	482410.58	1350949	3/17/97	0.45	0.30	U	pCi/g	0.49		U	pCi/g	
NAR-5	R	Uranium-238	NAR-5-12C-R	NONE	482492.45	1350955	3/17/97	1.10	0.68	U	pCi/g	1.11	0.68	J	pCi/g	
NAR-5	R	Uranium-238	NAR-5-13C-R	NONE	482512.45	1350956	3/17/97	0.78	0.35		pCi/g	0.78	0.35	-	pCi/g	
NAR-5	R	Uranium-238	NAR-5-14C-R	NONE	482557.55	1350959	3/17/97	1.00	0.40		pCi/g	1.03	0.40	-	pCi/g	
NAR-5	R	Uranium-238	NAR-5-15C-R	NONE	482627.45	1350968	3/13/97	2.10	1.70		pCi/g	2.12	1.67	J	pCi/g	
NAR-5	R	Uranium-238	NAR-5-16C-R	NONE	482664.30	1350966	3/19/97	2.30	1.60		pCi/g	2.31	1.61	J	pCi/g	
NAR-5	R	Uranium-238	NAR-5-1C-R	NONE	481905.56	1350944	3/19/97	1.40	1.30		pCi/g	1.44	1.29	J	pCi/g	
NAR-5	R	Uranium-238	NAR-5-1C-R-D	NONE	481905.56	1350944	3/19/97	1.30	1.60		pCi/g	1.34	1.64	J	pCi/g	NAR-5-1C-R
NAR-5	R	Uranium-238	NAR-5-2C-R	NONE	481949.77	1350936	3/19/97	1.30	1.30		pCi/g	1.29	1.34	J	pCi/g	
NAR-5	R	Uranium-238	NAR-5-3C-R	NONE	482019.62	1350943	3/19/97	0.97	1.10		pCi/g	0.97	1.10	J	pCi/g	
NAR-5	R	Uranium-238	NAR-5-4C-R	NONE	482096.55	1350946	3/19/97	0.75	1.20	U	pCi/g	0.90		U	pCi/g	
NAR-5	R	Uranium-238	NAR-5-5C-R	NONE	482108.52	1350948	3/19/97	1.80	1.20		pCi/g	1.78	1.22	J	pCi/g	
NAR-5	R	Uranium-238	NAR-5-6C-R	NONE	482194.81	1350937	3/19/97	5.60	2.10		pCi/g	5.55	2.14	J	pCi/g	
NAR-5	R	Uranium-238	NAR-5-7C-R	NONE	482211.49	1350950	3/19/97	2.40	2.00		pCi/g	2.40	1.97	J	pCi/g	
NAR-5	R	Uranium-238	NAR-5-8C-R	NONE	482258.57	1350947	3/19/97	3.80	2.60		pCi/g	3.84	2.61	J	pCi/g	
NAR-5	R	Uranium-238	NAR-5-9C-R	NONE	482337.55	1350949	3/17/97	0.91	0.29		pCi/g	0.91	0.29	-	pCi/g	
NAR-6	M	Arsenic	NAR-6-10C-M	NONE	483859.70	1351639	3/25/97	9.50			mg/kg	9.50		-	mg/kg	
NAR-6	M	Arsenic	NAR-6-11C-M	NONE	483949.37	1351692	3/12/97	8.30		N	mg/kg	8.30		J	mg/kg	
NAR-6	M	Arsenic	NAR-6-12C-M	NONE	484086.81	1351798	3/12/97	11.30		N	mg/kg	11.30		J	mg/kg	

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A1P1 CERTIFICATION REPORT - APPENDIX B

							Laboratory Data				Validation Data				
CU Name	CU Type	Parameter	Sample ID	Suffix	Northing	Easting	Sample Date	Lab Result	TPU	Qualifier	Units	Val. Result	TPU	Qualifier	Units	Duplicate of
NAR-6	M	Arsenic	NAR-6-13C-M	NONE	484216.88	1351873	3/12/97	10.00		N	mg/kg	10.00		J	mg/kg	
NAR-6	M	Arsenic	NAR-6-14C-M	NONE	484359.62	1351973	3/12/97	12.20		N	mg/kg	12.20		J	mg/kg	
NAR-6	M	Arsenic	NAR-6-15C-M	NONE	484487.4	1352070	3/20/97	10.20			mg/kg	10.20		-	mg/kg	
NAR-6	M	Arsenic	NAR-6-16C-M	NONE	484508.16	1352080	3/20/97	9.20			mg/kg	9.20		-	mg/kg	
NAR-6	M	Arsenic	NAR-6-16C-M-D	NONE	484508.16	1352080	3/20/97	9.30			mg/kg	9.30		-	mg/kg	NAR-6-16C-M
NAR-6	M	Arsenic	NAR-6-1C-M	NONE	482702.33	1350980	3/19/97	2.70		*	mg/kg	2.70		-	mg/kg	
NAR-6	M	Arsenic	NAR-6-2C-M	NONE	482893.38	1351029	3/13/97	12.60		N	mg/kg	12.60		J	mg/kg	
NAR-6	M	Arsenic	NAR-6-3C-M	NONE	483013.78	1351075	3/13/97	4.20		N	mg/kg	4.20		UJ	mg/kg	
NAR-6	M	Arsenic	NAR-6-4C-M	NONE	483122.71	1351144	3/17/97	6.10			mg/kg	6.10		-	mg/kg	
NAR-6	M	Arsenic	NAR-6-5C-M	NONE	483294.77	1351261	3/17/97	5.50			mg/kg	5.50		-	mg/kg	
NAR-6	M	Arsenic	NAR-6-6C-M	NONE	483337.96	1351283	3/13/97	5.40		N	mg/kg	5.40		UJ	mg/kg	
NAR-6	M	Arsenic	NAR-6-7C-M	NONE	483465.2	1351373	3/17/97	6.00			mg/kg	6.00		-	mg/kg	
NAR-6	M	Arsenic	NAR-6-8C-M	NONE	483606.32	1351461	3/12/97	6.70		N	mg/kg	6.70		J	mg/kg	
NAR-6	M	Arsenic	NAR-6-9C-M	NONE	483695.95	1351521	3/13/97	11.60		N	mg/kg	11.60		J	mg/kg	
NAR-6	M	Beryllium	NAR-6-10C-M	NONE	483859.70	1351639	3/25/97	1.30			mg/kg	1.30		U	mg/kg	
NAR-6	M	Beryllium	NAR-6-11C-M	NONE	483949.37	1351692	3/12/97	1.10			mg/kg	1.10		-	mg/kg	
NAR-6	M	Beryllium	NAR-6-12C-M	NONE	484086.81	1351798	3/12/97	1.20			mg/kg	1.20		-	mg/kg	
NAR-6	M	Beryllium	NAR-6-13C-M	NONE	484216.88	1351873	3/12/97	1.10			mg/kg	1.10		-	mg/kg	
NAR-6	M	Beryllium	NAR-6-14C-M	NONE	484359.62	1351973	3/12/97	1.50			mg/kg	1.50		-	mg/kg	
NAR-6	M	Beryllium	NAR-6-15C-M	NONE	484487.4	1352070	3/20/97	0.82			mg/kg	0.82		U	mg/kg	
NAR-6	M	Beryllium	NAR-6-16C-M	NONE	484508.16	1352080	3/20/97	1.10			mg/kg	1.10		U	mg/kg	
NAR-6	M	Beryllium	NAR-6-16C-M-D	NONE	484508.16	1352080	3/20/97	0.96			mg/kg	0.96		U	mg/kg	NAR-6-16C-M
NAR-6	M	Beryllium	NAR-6-1C-M	NONE	482702.33	1350980	3/19/97	0.97		*	mg/kg	0.97		-	mg/kg	
NAR-6	M	Beryllium	NAR-6-2C-M	NONE	482893.38	1351029	3/13/97	1.50			mg/kg	1.50		-	mg/kg	
NAR-6	M	Beryllium	NAR-6-3C-M	NONE	483013.78	1351075	3/13/97	0.62			mg/kg	0.62		-	mg/kg	
NAR-6	M	Beryllium	NAR-6-4C-M	NONE	483122.71	1351144	3/17/97	0.65			mg/kg	0.65		-	mg/kg	
NAR-6	M	Beryllium	NAR-6-5C-M	NONE	483294.77	1351261	3/17/97	0.61			mg/kg	0.61		-	mg/kg	
NAR-6	M	Beryllium	NAR-6-6C-M	NONE	483337.96	1351283	3/13/97	0.64			mg/kg	0.64		-	mg/kg	
NAR-6	M	Beryllium	NAR-6-7C-M	NONE	483465.2	1351373	3/17/97	0.76			mg/kg	0.76		-	mg/kg	
NAR-6	M	Beryllium	NAR-6-8C-M	NONE	483606.32	1351461	3/12/97	0.73			mg/kg	0.73		-	mg/kg	
NAR-6	M	Beryllium	NAR-6-9C-M	NONE	483695.95	1351521	3/13/97	1.50			mg/kg	1.50		-	mg/kg	
NAR-6	R	Moisture Content	NAR-6-10C-R	NONE	483859.70	1351639	3/25/97	23.90			Percent			NV	Percent	
NAR-6	R	Moisture Content	NAR-6-11C-R	NONE	483949.37	1351692	3/12/97	19.02			Percent			NV	Percent	
NAR-6	R	Moisture Content	NAR-6-12C-R	NONE	484086.81	1351798	3/12/97	17.41			Percent			NV	Percent	
NAR-6	R	Moisture Content	NAR-6-13C-R	NONE	484216.88	1351873	3/12/97	18.48			Percent			NV	Percent	
NAR-6	R	Moisture Content	NAR-6-14C-R	NONE	484359.62	1351973	3/12/97	14.89			Percent			NV	Percent	
NAR-6	R	Moisture Content	NAR-6-15C-R	NONE	484487.4	1352070	3/20/97	16.51			Percent	16.51		NV	Percent	
NAR-6	R	Moisture Content	NAR-6-16C-R	NONE	484508.16	1352080	3/20/97	16.37			Percent	16.37		NV	Percent	
NAR-6	R	Moisture Content	NAR-6-16C-R-D	NONE	484508.16	1352080	3/20/97	16.59			Percent	16.59		NV	Percent	NAR-6-16C-R
NAR-6	R	Moisture Content	NAR-6-1C-R	NONE	482702.33	1350980	3/19/97	23.20			Percent			NV	Percent	

								Laboratory Data				Validation Data				
CU Name	CU Type	Parameter	Sample ID	Suffix	Northing	Easting	Sample Date	Lab Result	TPU	Qualifier	Units	Val. Result	TPU	Qualifier	Units	Duplicate of
NAR-6	R	Moisture Content	NAR-6-2C-R	NONE	482893.38	1351029	3/13/97	14.27			Percent			NV	Percent	
NAR-6	R	Moisture Content	NAR-6-3C-R	NONE	483013.78	1351075	3/13/97	12.56			Percent			NV	Percent	
NAR-6	R	Moisture Content	NAR-6-4C-R	NONE	483122.71	1351144	3/17/97	12.13			Percent	12.13		NV	Percent	
NAR-6	R	Moisture Content	NAR-6-5C-R	NONE	483294.77	1351261	3/17/97	14.47			Percent	14.47		NV	Percent	
NAR-6	R	Moisture Content	NAR-6-6C-R	NONE	483337.96	1351283	3/13/97	12.96			Percent			NV	Percent	
NAR-6	R	Moisture Content	NAR-6-7C-R	NONE	483465.2	1351373	3/17/97	13.68			Percent	13.68		NV	Percent	
NAR-6	R	Moisture Content	NAR-6-8C-R	NONE	483606.32	1351461	3/12/97	13.33			Percent			NV	Percent	
NAR-6	R	Moisture Content	NAR-6-9C-R	NONE	483695.95	1351521	3/13/97	14.85			Percent			NV	Percent	
NAR-6	R	Radium-226	NAR-6-10C-R	NONE	483859.70	1351639	3/25/97	1.20	0.17		pCi/g	1.22	0.17	-	pCi/g	
NAR-6	R	Radium-226	NAR-6-11C-R	NONE	483949.37	1351692	3/12/97	1.30	0.21		pCi/g	1.31	0.21	-	pCi/g	
NAR-6	R	Radium-226	NAR-6-12C-R	NONE	484086.81	1351798	3/12/97	1.20	0.18		pCi/g	1.17	0.18	-	pCi/g	
NAR-6	R	Radium-226	NAR-6-13C-R	NONE	484216.88	1351873	3/12/97	1.20	0.18		pCi/g	1.19	0.18	-	pCi/g	
NAR-6	R	Radium-226	NAR-6-14C-R	NONE	484359.62	1351973	3/12/97	0.80	0.17		pCi/g	0.80	0.17	-	pCi/g	
NAR-6	R	Radium-226	NAR-6-15C-R	NONE	484487.4	1352070	3/20/97	1.40	0.21		pCi/g	1.36	2.09	J	pCi/g	
NAR-6	R	Radium-226	NAR-6-16C-R	NONE	484508.16	1352080	3/20/97	1.00	0.17		pCi/g	1.01	0.17	-	pCi/g	
NAR-6	R	Radium-226	NAR-6-16C-R-D	NONE	484508.16	1352080	3/20/97	1.10	0.16		pCi/g	1.06	0.16	-	pCi/g	NAR-6-16C-R
NAR-6	R	Radium-226	NAR-6-1C-R	NONE	482702.33	1350980	3/19/97	1.50	0.18		pCi/g	1.51	0.18	J	pCi/g	
NAR-6	R	Radium-226	NAR-6-2C-R	NONE	482893.38	1351029	3/13/97	0.89	0.14		pCi/g	0.89	0.14	-	pCi/g	
NAR-6	R	Radium-226	NAR-6-3C-R	NONE	483013.78	1351075	3/13/97	0.79	0.13		pCi/g	0.79	0.13	-	pCi/g	
NAR-6	R	Radium-226	NAR-6-4C-R	NONE	483122.71	1351144	3/17/97	0.86	0.15		pCi/g	0.86	0.15	-	pCi/g	
NAR-6	R	Radium-226	NAR-6-5C-R	NONE	483294.77	1351261	3/17/97	0.74	0.14		pCi/g	0.74	0.14	-	pCi/g	
NAR-6	R	Radium-226	NAR-6-6C-R	NONE	483337.96	1351283	3/13/97	0.71	0.15		pCi/g	0.72	0.15	-	pCi/g	
NAR-6	R	Radium-226	NAR-6-7C-R	NONE	483465.2	1351373	3/17/97	0.87	0.15		pCi/g	0.87	0.15	-	pCi/g	
NAR-6	R	Radium-226	NAR-6-8C-R	NONE	483606.32	1351461	3/12/97	0.79	0.16		pCi/g	0.79	0.16	-	pCi/g	
NAR-6	R	Radium-226	NAR-6-9C-R	NONE	483695.95	1351521	3/13/97	0.99	0.16		pCi/g	0.99	0.16	-	pCi/g	
NAR-6	R	Radium-228	NAR-6-10C-R	NONE	483859.70	1351639	3/25/97	1.20	0.33		pCi/g	1.19	0.33	-	pCi/g	
NAR-6	R	Radium-228	NAR-6-11C-R	NONE	483949.37	1351692	3/12/97	1.20	0.28		pCi/g	1.25	0.28	-	pCi/g	
NAR-6	R	Radium-228	NAR-6-12C-R	NONE	484086.81	1351798	3/12/97	1.30	0.30		pCi/g	1.32	0.30	-	pCi/g	
NAR-6	R	Radium-228	NAR-6-13C-R	NONE	484216.88	1351873	3/12/97	1.20	0.26		pCi/g	1.20	0.26	-	pCi/g	
NAR-6	R	Radium-228	NAR-6-14C-R	NONE	484359.62	1351973	3/12/97	0.90	0.24		pCi/g	0.90	0.24	-	pCi/g	
NAR-6	R	Radium-228	NAR-6-15C-R	NONE	484487.4	1352070	3/20/97	1.20	0.29		pCi/g	1.25	0.29	-	pCi/g	
NAR-6	R	Radium-228	NAR-6-16C-R	NONE	484508.16	1352080	3/20/97	0.96	0.23		pCi/g	0.96	0.23	-	pCi/g	
NAR-6	R	Radium-228	NAR-6-16C-R-D	NONE	484508.16	1352080	3/20/97	0.98	0.20		pCi/g	0.98	0.20	-	pCi/g	NAR-6-16C-R
NAR-6	R	Radium-228	NAR-6-1C-R	NONE	482702.33	1350980	3/19/97	1.40	0.37		pCi/g	1.36	0.37	J	pCi/g	
NAR-6	R	Radium-228	NAR-6-2C-R	NONE	482893.38	1351029	3/13/97	1.00	0.20		pCi/g	1.02	0.20	-	pCi/g	
NAR-6	R	Radium-228	NAR-6-3C-R	NONE	483013.78	1351075	3/13/97	0.72	0.22		pCi/g	0.72	0.22	-	pCi/g	
NAR-6	R	Radium-228	NAR-6-4C-R	NONE	483122.71	1351144	3/17/97	0.89	0.25		pCi/g	0.89	0.25	-	pCi/g	
NAR-6	R	Radium-228	NAR-6-5C-R	NONE	483294.77	1351261	3/17/97	0.81	0.20		pCi/g	0.81	0.20	-	pCi/g	
NAR-6	R	Radium-228	NAR-6-6C-R	NONE	483337.96	1351283	3/13/97	0.86	0.21		pCi/g	0.86	0.21	-	pCi/g	
NAR-6	R	Radium-228	NAR-6-7C-R	NONE	483465.2	1351373	3/17/97	0.89	0.26		pCi/g	0.89	0.26	-	pCi/g	

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							Laboratory Data				Validation Data				
CU Name	CU Type	Parameter	Sample ID	Suffix	Northing	Easting	Sample Date	Lab Result	TPU	Qualifier	Units	Val. Result	TPU	Qualifier	Units	Duplicate of
NAR-6	R	Radium-228	NAR-6-8C-R	NONE	483606.32	1351461	3/12/97	0.83	0.20		pCi/g	0.83	0.20	-	pCi/g	
NAR-6	R	Radium-228	NAR-6-9C-R	NONE	483695.95	1351521	3/13/97	0.94	0.21		pCi/g	0.94	0.21	-	pCi/g	
NAR-6	R	Thorium-228	NAR-6-10C-R	NONE	483859.70	1351639	3/25/97	1.40	0.53		pCi/g	1.38	0.53	J	pCi/g	
NAR-6	R	Thorium-228	NAR-6-11C-R	NONE	483949.37	1351692	3/12/97	1.20	0.25		pCi/g	1.15	0.23	-	pCi/g	
NAR-6	R	Thorium-228	NAR-6-12C-R	NONE	484086.81	1351798	3/12/97	1.10	0.25		pCi/g	1.14	0.23	-	pCi/g	
NAR-6	R	Thorium-228	NAR-6-13C-R	NONE	484216.88	1351873	3/12/97	1.40	0.27		pCi/g	1.37	0.26	-	pCi/g	
NAR-6	R	Thorium-228	NAR-6-14C-R	NONE	484359.62	1351973	3/12/97	0.67	0.18		pCi/g	0.67	0.16	-	pCi/g	
NAR-6	R	Thorium-228	NAR-6-15C-R	NONE	484487.4	1352070	3/20/97	1.10	0.28		pCi/g	1.06	0.25	J	pCi/g	
NAR-6	R	Thorium-228	NAR-6-16C-R	NONE	484508.16	1352080	3/20/97	0.96	0.23		pCi/g	0.96	0.20	J	pCi/g	
NAR-6	R	Thorium-228	NAR-6-16C-R-D	NONE	484508.16	1352080	3/20/97	1.10	0.25		pCi/g	1.05	0.22	J	pCi/g	NAR-6-16C-R
NAR-6	R	Thorium-228	NAR-6-1C-R	NONE	482702.33	1350980	3/19/97	1.60	0.65		pCi/g	1.56	0.65	-	pCi/g	
NAR-6	R	Thorium-228	NAR-6-2C-R	NONE	482893.38	1351029	3/13/97	0.74	0.20		pCi/g	0.74	0.18	-	pCi/g	
NAR-6	R	Thorium-228	NAR-6-3C-R	NONE	483013.78	1351075	3/13/97	0.82	0.21		pCi/g	0.82	0.19	-	pCi/g	
NAR-6	R	Thorium-228	NAR-6-4C-R	NONE	483122.71	1351144	3/17/97	0.63	0.18		pCi/g	0.63	0.16	J	pCi/g	
NAR-6	R	Thorium-228	NAR-6-5C-R	NONE	483294.77	1351261	3/17/97	0.85	0.24		pCi/g	0.85	0.22	-	pCi/g	
NAR-6	R	Thorium-228	NAR-6-6C-R	NONE	483337.96	1351283	3/13/97	0.64	0.20		pCi/g	0.64	0.18	-	pCi/g	
NAR-6	R	Thorium-228	NAR-6-7C-R	NONE	483465.2	1351373	3/17/97	0.84	0.23		pCi/g	0.85	0.21	-	pCi/g	
NAR-6	R	Thorium-228	NAR-6-8C-R	NONE	483606.32	1351461	3/12/97	0.85	0.23		pCi/g	0.85	0.20	-	pCi/g	
NAR-6	R	Thorium-228	NAR-6-9C-R	NONE	483695.95	1351521	3/13/97	0.93	0.23		pCi/g	0.93	0.22	-	pCi/g	
NAR-6	R	Thorium-232	NAR-6-10C-R	NONE	483859.70	1351639	3/25/97	1.10	0.42		pCi/g	1.10	0.42	J	pCi/g	
NAR-6	R	Thorium-232	NAR-6-11C-R	NONE	483949.37	1351692	3/12/97	0.99	0.21		pCi/g	1.02	0.21	-	pCi/g	
NAR-6	R	Thorium-232	NAR-6-12C-R	NONE	484086.81	1351798	3/12/97	0.91	0.20		pCi/g	0.94	0.19	-	pCi/g	
NAR-6	R	Thorium-232	NAR-6-13C-R	NONE	484216.88	1351873	3/12/97	1.10	0.22		pCi/g	1.16	0.22	-	pCi/g	
NAR-6	R	Thorium-232	NAR-6-14C-R	NONE	484359.62	1351973	3/12/97	0.81	0.17		pCi/g	0.84	0.17	-	pCi/g	
NAR-6	R	Thorium-232	NAR-6-15C-R	NONE	484487.4	1352070	3/20/97	0.81	0.20		pCi/g	0.85	0.20	J	pCi/g	
NAR-6	R	Thorium-232	NAR-6-16C-R	NONE	484508.16	1352080	3/20/97	0.84	0.18		pCi/g	0.88	0.18	J	pCi/g	
NAR-6	R	Thorium-232	NAR-6-16C-R-D	NONE	484508.16	1352080	3/20/97	0.98	0.21		pCi/g	1.01	0.21	J	pCi/g	NAR-6-16C-R
NAR-6	R	Thorium-232	NAR-6-1C-R	NONE	482702.33	1350980	3/19/97	1.20	0.52		pCi/g	1.23	0.52	-	pCi/g	
NAR-6	R	Thorium-232	NAR-6-2C-R	NONE	482893.38	1351029	3/13/97	0.85	0.19		pCi/g	0.88	0.18	-	pCi/g	
NAR-6	R	Thorium-232	NAR-6-3C-R	NONE	483013.78	1351075	3/13/97	0.67	0.16		pCi/g	0.70	0.15	-	pCi/g	
NAR-6	R	Thorium-232	NAR-6-4C-R	NONE	483122.71	1351144	3/17/97	0.68	0.15		pCi/g	0.68	0.15	J	pCi/g	
NAR-6	R	Thorium-232	NAR-6-5C-R	NONE	483294.77	1351261	3/17/97	0.66	0.17		pCi/g	0.66	0.17	-	pCi/g	
NAR-6	R	Thorium-232	NAR-6-6C-R	NONE	483337.96	1351283	3/13/97	0.84	0.18		pCi/g	0.87	0.18	-	pCi/g	
NAR-6	R	Thorium-232	NAR-6-7C-R	NONE	483465.2	1351373	3/17/97	0.95	0.21		pCi/g	0.95	0.21	-	pCi/g	
NAR-6	R	Thorium-232	NAR-6-8C-R	NONE	483606.32	1351461	3/12/97	0.79	0.18		pCi/g	0.79	0.18	-	pCi/g	
NAR-6	R	Thorium-232	NAR-6-9C-R	NONE	483695.95	1351521	3/13/97	0.70	0.17		pCi/g	0.74	0.16	-	pCi/g	
NAR-6	R	Uranium, Total	NAR-6-10C-R	NONE	483859.70	1351639	3/25/97				ug/g	5.02	2.24	-	ug/g	
NAR-6	R	Uranium, Total	NAR-6-11C-R	NONE	483949.37	1351692	3/12/97				ug/g	3.71		U	ug/g	
NAR-6	R	Uranium, Total	NAR-6-12C-R	NONE	484086.81	1351798	3/12/97				ug/g	4.68	4.51	J	ug/g	
NAR-6	R	Uranium, Total	NAR-6-13C-R	NONE	484216.88	1351873	3/12/97				ug/g	3.47	4.09	J	ug/g	

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							Laboratory Data				Validation Data				
CU Name	CU Type	Parameter	Sample ID	Suffix	Northing	Easting	Sample Date	Lab Result	TPU	Qualifier	Units	Val. Result	TPU	Qualifier	Units	Duplicate of
NAR-6	R	Uranium, Total	NAR-6-14C-R	NONE	484359.62	1351973	3/12/97				ug/g	3.45		U	ug/g	
NAR-6	R	Uranium, Total	NAR-6-15C-R	NONE	484487.4	1352070	3/20/97				ug/g	8.15	6.47	J	ug/g	
NAR-6	R	Uranium, Total	NAR-6-16C-R	NONE	484508.16	1352080	3/20/97				ug/g	5.25	3.44	J	ug/g	
NAR-6	R	Uranium, Total	NAR-6-16C-R-D	NONE	484508.16	1352080	3/20/97				ug/g	3.60	2.62	J	ug/g	NAR-6-16C-R
NAR-6	R	Uranium, Total	NAR-6-1C-R	NONE	482702.33	1350980	3/19/97				ug/g	7.26	2.40	J	ug/g	
NAR-6	R	Uranium, Total	NAR-6-2C-R	NONE	482893.38	1351029	3/13/97				ug/g	3.81	2.09	J	ug/g	
NAR-6	R	Uranium, Total	NAR-6-3C-R	NONE	483013.78	1351075	3/13/97				ug/g	3.09	3.50	J	ug/g	
NAR-6	R	Uranium, Total	NAR-6-4C-R	NONE	483122.71	1351144	3/17/97				ug/g	5.14	4.08	J	ug/g	
NAR-6	R	Uranium, Total	NAR-6-5C-R	NONE	483294.77	1351261	3/17/97				ug/g	4.11	4.60	J	ug/g	
NAR-6	R	Uranium, Total	NAR-6-6C-R	NONE	483337.96	1351283	3/13/97				ug/g	2.94	3.22	J	ug/g	
NAR-6	R	Uranium, Total	NAR-6-7C-R	NONE	483465.2	1351373	3/17/97				ug/g	3.22		U	ug/g	
NAR-6	R	Uranium, Total	NAR-6-8C-R	NONE	483606.32	1351461	3/12/97				ug/g	5.78	5.23	J	ug/g	
NAR-6	R	Uranium, Total	NAR-6-9C-R	NONE	483695.95	1351521	3/13/97				ug/g	2.72		U	ug/g	
NAR-6	R	Uranium-238	NAR-6-10C-R	NONE	483859.70	1351639	3/25/97	1.70	0.75		pCi/g	1.68	0.75	-	pCi/g	
NAR-6	R	Uranium-238	NAR-6-11C-R	NONE	483949.37	1351692	3/12/97	0.00	0.98	U	pCi/g	1.24		U	pCi/g	
NAR-6	R	Uranium-238	NAR-6-12C-R	NONE	484086.81	1351798	3/12/97	1.60	1.50		pCi/g	1.56	1.50	J	pCi/g	
NAR-6	R	Uranium-238	NAR-6-13C-R	NONE	484216.88	1351873	3/12/97	1.20	1.40		pCi/g	1.16	1.36	J	pCi/g	
NAR-6	R	Uranium-238	NAR-6-14C-R	NONE	484359.62	1351973	3/12/97	0.83	1.60	U	pCi/g	1.15		U	pCi/g	
NAR-6	R	Uranium-238	NAR-6-15C-R	NONE	484487.4	1352070	3/20/97	2.70	2.20		pCi/g	2.72	2.16	J	pCi/g	
NAR-6	R	Uranium-238	NAR-6-16C-R	NONE	484508.16	1352080	3/20/97	1.80	1.20		pCi/g	1.75	1.15	J	pCi/g	
NAR-6	R	Uranium-238	NAR-6-16C-R-D	NONE	484508.16	1352080	3/20/97	1.20	0.88		pCi/g	1.20	0.88	J	pCi/g	NAR-6-16C-R
NAR-6	R	Uranium-238	NAR-6-1C-R	NONE	482702.33	1350980	3/19/97	2.40	0.80		pCi/g	2.42	0.80	J	pCi/g	
NAR-6	R	Uranium-238	NAR-6-2C-R	NONE	482893.38	1351029	3/13/97	1.30	0.70		pCi/g	1.27	0.70	J	pCi/g	
NAR-6	R	Uranium-238	NAR-6-3C-R	NONE	483013.78	1351075	3/13/97	1.00	1.20		pCi/g	1.03	1.17	J	pCi/g	
NAR-6	R	Uranium-238	NAR-6-4C-R	NONE	483122.71	1351144	3/17/97	1.70	1.40		pCi/g	1.71	1.36	J	pCi/g	
NAR-6	R	Uranium-238	NAR-6-5C-R	NONE	483294.77	1351261	3/17/97	1.40	1.50		pCi/g	1.37	1.53	J	pCi/g	
NAR-6	R	Uranium-238	NAR-6-6C-R	NONE	483337.96	1351283	3/13/97	0.98	1.10		pCi/g	0.98	1.07	J	pCi/g	
NAR-6	R	Uranium-238	NAR-6-7C-R	NONE	483465.2	1351373	3/17/97	0.17	1.30	U	pCi/g	1.07		U	pCi/g	
NAR-6	R	Uranium-238	NAR-6-8C-R	NONE	483606.32	1351461	3/12/97	1.90	1.70		pCi/g	1.93	1.75	J	pCi/g	
NAR-6	R	Uranium-238	NAR-6-9C-R	NONE	483695.95	1351521	3/13/97	0.30	1.30	U	pCi/g	0.91		U	pCi/g	
O18	M	Aroclor-1260	O18-00C-10-MP	NONE	482948	1349963	2/20/97	61.00		U	ug/kg	61.00		U	ug/kg	
O18	M	Aroclor-1260	O18-00C-11-MP	NONE	482909	1350046	2/20/97	62.00		U	ug/kg	62.00		U	ug/kg	
O18	M	Aroclor-1260	O18-00C-14-MP	NONE	482947	1350477	2/20/97	58.00		U	ug/kg	58.00		U	ug/kg	
O18	M	Aroclor-1260	O18-00C-15-MP	NONE	482880	1349523	2/19/97	55.00		U	ug/kg	55.00		U	ug/kg	
O18	M	Aroclor-1260	O18-00C-16-MP	NONE	482988	1349538	2/19/97	58.00		U	ug/kg	58.00		U	ug/kg	
O18	M	Aroclor-1260	O18-00C-5-MP	NONE	482783	1350299	2/20/97	64.00		U	ug/kg	64.00		U	ug/kg	
O18	M	Aroclor-1260	O18-00C-6-MP	NONE	482797	1350360	2/20/97	57.00		U	ug/kg	57.00		U	ug/kg	
O18	M	Aroclor-1260	O18-00C-7-MP	NONE	482754	1350531	2/20/97	58.00		U	ug/kg	58.00		U	ug/kg	
O18	M	Aroclor-1260	O18-00C-9-MP	NONE	482969	1349782	2/19/97	61.00		U	ug/kg	61.00		U	ug/kg	

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A1P1 CERTIFICATION REPORT - APPENDIX B

							Laboratory Data				Validation Data				
CU Name	CU Type	Parameter	Sample ID	Suffix	Northing	Easting	Sample Date	Lab Result	TPU	Qualifier	Units	Val. Result	TPU	Qualifier	Units	Duplicate of
O18	M	Arsenic	O18-00C-10-MP	NONE	482948	1349963	2/20/97	7.80			mg/kg	7.80		-	mg/kg	
O18	M	Arsenic	O18-00C-11-MP	NONE	482909	1350046	2/20/97	9.10			mg/kg	9.10		-	mg/kg	
O18	M	Arsenic	O18-00C-14-MP	NONE	482947	1350477	2/20/97	5.80			mg/kg	5.80		-	mg/kg	
O18	M	Arsenic	O18-00C-15-MP	NONE	482880	1349523	2/19/97	7.30			mg/kg	7.30		-	mg/kg	
O18	M	Arsenic	O18-00C-16-MP	NONE	482988	1349538	2/19/97	7.80			mg/kg	7.80		-	mg/kg	
O18	M	Arsenic	O18-00C-5-MP	NONE	482783	1350299	2/20/97	7.50			mg/kg	7.50		-	mg/kg	
O18	M	Arsenic	O18-00C-6-MP	NONE	482797	1350360	2/20/97	7.90			mg/kg	7.90		-	mg/kg	
O18	M	Arsenic	O18-00C-7-MP	NONE	482754	1350531	2/20/97	8.50			mg/kg	8.50		-	mg/kg	
O18	M	Arsenic	O18-00C-9-MP	NONE	482969	1349782	2/19/97	5.90			mg/kg	5.90		-	mg/kg	
O18	M	Arsenic	P18-31C-601785	NONE	482785.22	1350601	12/31/96	5.30		•	mg/kg	5.30		-	mg/kg	
O18	M	Beryllium	O18-00C-10-MP	NONE	482948	1349963	2/20/97	0.69		B	mg/kg	0.69		U	mg/kg	
O18	M	Beryllium	O18-00C-11-MP	NONE	482909	1350046	2/20/97	0.77		B	mg/kg	0.77		U	mg/kg	
O18	M	Beryllium	O18-00C-14-MP	NONE	482947	1350477	2/20/97	0.36		B	mg/kg	0.36		U	mg/kg	
O18	M	Beryllium	O18-00C-15-MP	NONE	482880	1349523	2/19/97	0.77			mg/kg	0.77		U	mg/kg	
O18	M	Beryllium	O18-00C-16-MP	NONE	482988	1349538	2/19/97	0.66		B	mg/kg	0.66		U	mg/kg	
O18	M	Beryllium	O18-00C-5-MP	NONE	482783	1350299	2/20/97	0.68		B	mg/kg	0.68		U	mg/kg	
O18	M	Beryllium	O18-00C-6-MP	NONE	482797	1350360	2/20/97	0.72		B	mg/kg	0.72		U	mg/kg	
O18	M	Beryllium	O18-00C-7-MP	NONE	482754	1350531	2/20/97	0.81			mg/kg	0.81		U	mg/kg	
O18	M	Beryllium	O18-00C-9-MP	NONE	482969	1349782	2/19/97	0.73		B	mg/kg	0.73		U	mg/kg	
O18	M	Beryllium	P18-31C-601785	NONE	482785.22	1350601	12/31/96	0.38		B	mg/kg	0.38		U	mg/kg	
O18	R	Moisture Content	O18-00C-1-R	NONE	482792	1349643	2/19/97	23.36			Percent	23.36		NV	Percent	
O18	R	Moisture Content	O18-00C-10-R	NONE	482948	1349963	2/20/97	27.35			Percent	27.35		NV	Percent	
O18	R	Moisture Content	O18-00C-11-R	NONE	482909	1350046	2/20/97	26.75			Percent	26.75		NV	Percent	
O18	R	Moisture Content	O18-00C-14-R	NONE	482947	1350477	2/20/97	25.98			Percent	25.98		NV	Percent	
O18	R	Moisture Content	O18-00C-15-R	NONE	482880	1349523	2/19/97	24.19			Percent	24.19		NV	Percent	
O18	R	Moisture Content	O18-00C-16-R	NONE	482988	1349538	2/19/97	24.02			Percent	24.02		NV	Percent	
O18	R	Moisture Content	O18-00C-3-R	NONE	482772	1350022	2/19/97	22.78			Percent	22.78		NV	Percent	
O18	R	Moisture Content	O18-00C-5-R	NONE	482783	1350299	2/20/97	22.72			Percent	22.72		NV	Percent	
O18	R	Moisture Content	O18-00C-6-R	NONE	482797	1350360	2/20/97	21.25			Percent	21.25		NV	Percent	
O18	R	Moisture Content	O18-00C-7-R	NONE	482754	1350531	2/20/97	25.40			Percent	25.40		NV	Percent	
O18	R	Moisture Content	O18-00C-7-R-D	NONE	482754	1350531	2/20/97	26.00			Percent	26.00		NV	Percent	O18-00C-7-R
O18	R	Moisture Content	O18-00C-8-R	NONE	482977	1349628	2/19/97	22.79			Percent	22.79		NV	Percent	
O18	R	Moisture Content	O18-00C-9-R	NONE	482969	1349782	2/19/97	25.84			Percent	25.84		NV	Percent	
O18	R	Radium-226	O18-00C-1-R	NONE	482792	1349643	2/19/97	1.00	0.22		pCi/g	1.00	0.22	-	pCi/g	
O18	R	Radium-226	O18-00C-10-R	NONE	482948	1349963	2/20/97	1.10	0.17		pCi/g	1.10	0.17	-	pCi/g	
O18	R	Radium-226	O18-00C-11-R	NONE	482909	1350046	2/20/97	1.10	0.19		pCi/g	1.10	0.19	-	pCi/g	
O18	R	Radium-226	O18-00C-14-R	NONE	482947	1350477	2/20/97	1.00	0.21		pCi/g	1.00	0.21	-	pCi/g	
O18	R	Radium-226	O18-00C-15-R	NONE	482880	1349523	2/19/97	1.10	0.19		pCi/g	1.10	0.19	-	pCi/g	
O18	R	Radium-226	O18-00C-16-R	NONE	482988	1349538	2/19/97	1.10	0.18		pCi/g	1.10	0.18	-	pCi/g	
O18	R	Radium-226	O18-00C-3-R	NONE	482772	1350022	2/19/97	1.20	0.19		pCi/g	1.20	0.19	-	pCi/g	

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A1P1 CERTIFICATION REPORT - APPENDIX B

								Laboratory Data				Validation Data				
CU Name	CU Type	Parameter	Sample ID	Suffix	Northing	Easting	Sample Date	Lab Result	TPU	Qualifier	Units	Val. Result	TPU	Qualifier	Units	Duplicate of
O18	R	Radium-226	O18-00C-5-R	NONE	482783	1350299	2/20/97	1.10	0.18		pCi/g	1.10	0.18	-	pCi/g	
O18	R	Radium-226	O18-00C-6-R	NONE	482797	1350360	2/20/97	1.10	0.18		pCi/g	1.10	0.18	-	pCi/g	
O18	R	Radium-226	O18-00C-7-R	NONE	482754	1350531	2/20/97	1.20	0.19		pCi/g	1.20	0.19	-	pCi/g	
O18	R	Radium-226	O18-00C-7-R-D	NONE	482754	1350531	2/20/97	1.10	0.18		pCi/g	1.10	0.18	-	pCi/g	O18-00C-7-R
O18	R	Radium-226	O18-00C-8-R	NONE	482977	1349628	2/19/97	1.00	0.17		pCi/g	1.00	0.17	-	pCi/g	
O18	R	Radium-226	O18-00C-9-R	NONE	482969	1349782	2/19/97	1.10	0.18		pCi/g	1.10	0.18	-	pCi/g	
O18	R	Radium-228	O18-00C-1-R	NONE	482792	1349643	2/19/97	1.30	0.29		pCi/g	1.30	0.29	-	pCi/g	
O18	R	Radium-228	O18-00C-10-R	NONE	482948	1349963	2/20/97	1.30	0.28		pCi/g	1.30	0.28	-	pCi/g	
O18	R	Radium-228	O18-00C-11-R	NONE	482909	1350046	2/20/97	1.50	0.30		pCi/g	1.50	0.30	-	pCi/g	
O18	R	Radium-228	O18-00C-14-R	NONE	482947	1350477	2/20/97	1.20	0.24		pCi/g	1.20	0.24	-	pCi/g	
O18	R	Radium-228	O18-00C-15-R	NONE	482880	1349523	2/19/97	1.20	0.25		pCi/g	1.20	0.25	-	pCi/g	
O18	R	Radium-228	O18-00C-16-R	NONE	482988	1349538	2/19/97	1.30	0.25		pCi/g	1.30	0.25	-	pCi/g	
O18	R	Radium-228	O18-00C-3-R	NONE	482772	1350022	2/19/97	1.30	0.27		pCi/g	1.30	0.27	-	pCi/g	
O18	R	Radium-228	O18-00C-5-R	NONE	482783	1350299	2/20/97	1.10	0.26		pCi/g	1.10	0.26	-	pCi/g	
O18	R	Radium-228	O18-00C-6-R	NONE	482797	1350360	2/20/97	1.10	0.25		pCi/g	1.10	0.25	-	pCi/g	
O18	R	Radium-228	O18-00C-7-R	NONE	482754	1350531	2/20/97	1.20	0.29		pCi/g	1.20	0.29	-	pCi/g	
O18	R	Radium-228	O18-00C-7-R-D	NONE	482754	1350531	2/20/97	1.10	0.26		pCi/g	1.10	0.26	-	pCi/g	O18-00C-7-R
O18	R	Radium-228	O18-00C-8-R	NONE	482977	1349628	2/19/97	1.30	0.29		pCi/g	1.30	0.29	-	pCi/g	
O18	R	Radium-228	O18-00C-9-R	NONE	482969	1349782	2/19/97	1.10	0.25		pCi/g	1.10	0.25	-	pCi/g	
O18	R	Thorium-228	O18-00C-1-R	NONE	482792	1349643	2/19/97	0.95	0.25		pCi/g	1.09	0.25	-	pCi/g	
O18	R	Thorium-228	O18-00C-10-R	NONE	482948	1349963	2/20/97	1.20	0.32		pCi/g	1.27	0.28	-	pCi/g	
O18	R	Thorium-228	O18-00C-11-R	NONE	482909	1350046	2/20/97	1.40	0.32		pCi/g	1.44	0.28	-	pCi/g	
O18	R	Thorium-228	O18-00C-14-R	NONE	482947	1350477	2/20/97	0.91	0.28		pCi/g	0.94	0.23	-	pCi/g	
O18	R	Thorium-228	O18-00C-15-R	NONE	482880	1349523	2/19/97	0.86	0.26		pCi/g	1.00	0.25	-	pCi/g	
O18	R	Thorium-228	O18-00C-16-R	NONE	482988	1349538	2/19/97	0.85	0.26		pCi/g	0.99	0.25	J	pCi/g	
O18	R	Thorium-228	O18-00C-3-R	NONE	482772	1350022	2/19/97	1.40	0.33		pCi/g	1.38	0.30	-	pCi/g	
O18	R	Thorium-228	O18-00C-5-R	NONE	482783	1350299	2/20/97	1.00	0.29		pCi/g	1.05	0.25	-	pCi/g	
O18	R	Thorium-228	O18-00C-6-R	NONE	482797	1350360	2/20/97	1.20	0.31		pCi/g	1.22	0.27	-	pCi/g	
O18	R	Thorium-228	O18-00C-7-R	NONE	482754	1350531	2/20/97	1.50	0.31		pCi/g	1.47	0.28	-	pCi/g	
O18	R	Thorium-228	O18-00C-7-R-D	NONE	482754	1350531	2/20/97	1.20	0.30		pCi/g	1.22	0.27	-	pCi/g	O18-00C-7-R
O18	R	Thorium-228	O18-00C-8-R	NONE	482977	1349628	2/19/97	1.20	0.34		pCi/g	1.36	0.33	-	pCi/g	
O18	R	Thorium-228	O18-00C-9-R	NONE	482969	1349782	2/19/97	1.10	0.29		pCi/g	1.08	0.25	-	pCi/g	
O18	R	Thorium-232	O18-00C-1-R	NONE	482792	1349643	2/19/97	1.10	0.23		pCi/g	1.09	0.23	-	pCi/g	
O18	R	Thorium-232	O18-00C-10-R	NONE	482948	1349963	2/20/97	1.30	0.27		pCi/g	1.34	0.27	-	pCi/g	
O18	R	Thorium-232	O18-00C-11-R	NONE	482909	1350046	2/20/97	1.20	0.24		pCi/g	1.20	0.24	-	pCi/g	
O18	R	Thorium-232	O18-00C-14-R	NONE	482947	1350477	2/20/97	1.10	0.24		pCi/g	1.10	0.24	-	pCi/g	
O18	R	Thorium-232	O18-00C-15-R	NONE	482880	1349523	2/19/97	1.00	0.22		pCi/g	1.03	0.22	-	pCi/g	
O18	R	Thorium-232	O18-00C-16-R	NONE	482988	1349538	2/19/97	0.94	0.21		pCi/g	0.96	0.21	J	pCi/g	
O18	R	Thorium-232	O18-00C-3-R	NONE	482772	1350022	2/19/97	1.10	0.26		pCi/g	1.14	0.26	-	pCi/g	
O18	R	Thorium-232	O18-00C-5-R	NONE	482783	1350299	2/20/97	0.95	0.22		pCi/g	1.00	0.22	-	pCi/g	

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A1P1 CERTIFICATION REPORT - APPENDIX B

CU Name	CU Type	Parameter	Sample ID	Suffix	Northing	Easting	Laboratory Data				Validation Data				
							Sample Date	Lab Result	TPU	Qualifier	Units	Val. Result	TPU	Qualifier	Units	Duplicate of
O18	R	Thorium-232	O18-00C-6-R	NONE	482797	1350360	2/20/97	1.20	0.26		pCi/g	1.21	0.26	-	pCi/g	
O18	R	Thorium-232	O18-00C-7-R	NONE	482754	1350531	2/20/97	1.40	0.26		pCi/g	1.43	0.26	-	pCi/g	
O18	R	Thorium-232	O18-00C-7-R-D	NONE	482754	1350531	2/20/97	1.20	0.26		pCi/g	1.25	0.26	-	pCi/g	O18-00C-7-R
O18	R	Thorium-232	O18-00C-8-R	NONE	482977	1349628	2/19/97	1.20	0.26		pCi/g	1.18	0.26	-	pCi/g	
O18	R	Thorium-232	O18-00C-9-R	NONE	482969	1349782	2/19/97	1.10	0.25		pCi/g	1.18	0.25	-	pCi/g	
O18	R	Uranium, Total	O18-00C-1-R	NONE	482792	1349643	2/19/97				ug/g	29.99	8.70	-	ug/g	
O18	R	Uranium, Total	O18-00C-10-R	NONE	482948	1349963	2/20/97				ug/g	32.98	7.20	-	ug/g	
O18	R	Uranium, Total	O18-00C-11-R	NONE	482909	1350046	2/20/97				ug/g	32.98	9.90	-	ug/g	
O18	R	Uranium, Total	O18-00C-14-R	NONE	482947	1350477	2/20/97				ug/g	27.59	7.20	-	ug/g	
O18	R	Uranium, Total	O18-00C-15-R	NONE	482880	1349523	2/19/97				ug/g	26.69	7.20	-	ug/g	
O18	R	Uranium, Total	O18-00C-16-R	NONE	482988	1349538	2/19/97				ug/g	24.89	6.00	-	ug/g	
O18	R	Uranium, Total	O18-00C-3-R	NONE	482772	1350022	2/19/97				ug/g	25.79	7.80	-	ug/g	
O18	R	Uranium, Total	O18-00C-5-R	NONE	482783	1350299	2/20/97				ug/g	24.89	7.20	-	ug/g	
O18	R	Uranium, Total	O18-00C-6-R	NONE	482797	1350360	2/20/97				ug/g	20.99	7.20	-	ug/g	
O18	R	Uranium, Total	O18-00C-7-R	NONE	482754	1350531	2/20/97				ug/g	41.98	10.20	-	ug/g	
O18	R	Uranium, Total	O18-00C-7-R-D	NONE	482754	1350531	2/20/97				ug/g	38.98	9.60	-	ug/g	O18-00C-7-R
O18	R	Uranium, Total	O18-00C-8-R	NONE	482977	1349628	2/19/97				ug/g	35.98	9.60	-	ug/g	
O18	R	Uranium, Total	O18-00C-9-R	NONE	482969	1349782	2/19/97				ug/g	35.98	8.10	-	ug/g	
O18	R	Uranium-238	O18-00C-1-R	NONE	482792	1349643	2/19/97	10.00	2.90		pCi/g	10.00	2.90	-	pCi/g	
O18	R	Uranium-238	O18-00C-10-R	NONE	482948	1349963	2/20/97	11.00	2.40		pCi/g	11.00	2.40	-	pCi/g	
O18	R	Uranium-238	O18-00C-11-R	NONE	482909	1350046	2/20/97	11.00	3.30		pCi/g	11.00	3.30	-	pCi/g	
O18	R	Uranium-238	O18-00C-14-R	NONE	482947	1350477	2/20/97	9.20	2.40		pCi/g	9.20	2.40	-	pCi/g	
O18	R	Uranium-238	O18-00C-15-R	NONE	482880	1349523	2/19/97	8.90	2.40		pCi/g	8.90	2.40	-	pCi/g	
O18	R	Uranium-238	O18-00C-16-R	NONE	482988	1349538	2/19/97	8.30	2.00		pCi/g	8.30	2.00	-	pCi/g	
O18	R	Uranium-238	O18-00C-3-R	NONE	482772	1350022	2/19/97	8.60	2.60		pCi/g	8.60	2.60	-	pCi/g	
O18	R	Uranium-238	O18-00C-5-R	NONE	482783	1350299	2/20/97	8.30	2.40		pCi/g	8.30	2.40	-	pCi/g	
O18	R	Uranium-238	O18-00C-6-R	NONE	482797	1350360	2/20/97	7.00	2.40		pCi/g	7.00	2.40	-	pCi/g	
O18	R	Uranium-238	O18-00C-7-R	NONE	482754	1350531	2/20/97	14.00	3.40		pCi/g	14.00	3.40	-	pCi/g	
O18	R	Uranium-238	O18-00C-7-R-D	NONE	482754	1350531	2/20/97	13.00	3.20		pCi/g	13.00	3.20	-	pCi/g	O18-00C-7-R
O18	R	Uranium-238	O18-00C-8-R	NONE	482977	1349628	2/19/97	12.00	3.20		pCi/g	12.00	3.20	-	pCi/g	
O18	R	Uranium-238	O18-00C-9-R	NONE	482969	1349782	2/19/97	12.00	2.70		pCi/g	12.00	2.70	-	pCi/g	
O19	M	Arsenic	O19-00C-10-M	NONE	483546	1350022	1/23/97	6.10			mg/kg	6.10		-	mg/kg	
O19	M	Arsenic	O19-00C-14-M	NONE	483742	1350195	1/28/97	7.00			mg/kg	7.00		-	mg/kg	
O19	M	Arsenic	O19-00C-15-M	NONE	483740	1350271	1/28/97	7.30			mg/kg	7.30		-	mg/kg	
O19	M	Arsenic	O19-00C-16-M	NONE	483779	1350548	1/23/97	7.10			mg/kg	7.10		-	mg/kg	
O19	M	Arsenic	O19-00C-4-M	NONE	483046	1350563	1/20/97	5.00			mg/kg	5.00		-	mg/kg	
O19	M	Arsenic	O19-00C-6-M	NONE	483289	1350026	1/20/97	7.10			mg/kg	7.10		-	mg/kg	
O19	M	Arsenic	O19-00C-7-M	NONE	483282	1350240	1/20/97	5.80			mg/kg	5.80		-	mg/kg	
O19	M	Arsenic	O19-00C-8-M	NONE	483207	1350471	1/20/97	4.90			mg/kg	4.90		-	mg/kg	

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A1P1 CERTIFICATION REPORT - APPENDIX B

								Laboratory Data				Validation Data				
CU Name	CU Type	Parameter	Sample ID	Suffix	Northing	Easting	Sample Date	Lab Result	TPU	Qualifier	Units	Val. Result	TPU	Qualifier	Units	Duplicate of
O19	M	Arsenic	O19-00C-9-M	NONE	483485	1349966	1/23/97	6.20			mg/kg	6.20		-	mg/kg	
O19	M	Beryllium	O19-00C-10-M	NONE	483546	1350022	1/23/97	0.74		B	mg/kg	0.74		U	mg/kg	
O19	M	Beryllium	O19-00C-14-M	NONE	483742	1350195	1/28/97	0.64		B	mg/kg	0.64		U	mg/kg	
O19	M	Beryllium	O19-00C-15-M	NONE	483740	1350271	1/28/97	0.97			mg/kg	0.97		U	mg/kg	
O19	M	Beryllium	O19-00C-16-M	NONE	483779	1350548	1/23/97	0.83		B	mg/kg	0.83		U	mg/kg	
O19	M	Beryllium	O19-00C-4-M	NONE	483046	1350563	1/20/97	0.61		B	mg/kg	0.61		U	mg/kg	
O19	M	Beryllium	O19-00C-6-M	NONE	483289	1350026	1/20/97	0.77			mg/kg	0.77		U	mg/kg	
O19	M	Beryllium	O19-00C-7-M	NONE	483282	1350240	1/20/97	0.75			mg/kg	0.75		U	mg/kg	
O19	M	Beryllium	O19-00C-8-M	NONE	483207	1350471	1/20/97	0.65		B	mg/kg	0.65		U	mg/kg	
O19	M	Beryllium	O19-00C-9-M	NONE	483485	1349966	1/23/97	0.78			mg/kg	0.78		U	mg/kg	
O19	R	Moisture Content	O19-00C-1-R	NONE	483003	1349951	1/20/97	19.80			Percent	19.80		NV	Percent	
O19	R	Moisture Content	O19-00C-10-R	NONE	483483	1350025	1/23/97	26.00			Percent	26.00		NV	Percent	
O19	R	Moisture Content	O19-00C-11-R	NONE	483575	1350329	1/23/97	28.10			Percent	28.10		NV	Percent	
O19	R	Moisture Content	O19-00C-14-R	NONE	483655	1350024	1/23/97	35.50			Percent	35.50		NV	Percent	
O19	R	Moisture Content	O19-00C-15-R	NONE	483782	1350317	1/28/97	29.00			Percent			NV	Percent	
O19	R	Moisture Content	O19-00C-16-R	NONE	483722	1350431	1/28/97	25.90			Percent			NV	Percent	
O19	R	Moisture Content	O19-00C-4-R	NONE	483155	1350463	1/20/97	29.80			Percent	29.80		NV	Percent	
O19	R	Moisture Content	O19-00C-5-R	NONE	483205	1349940	1/20/97	24.60			Percent	24.60		NV	Percent	
O19	R	Moisture Content	O19-00C-6-R	NONE	483263	1350015	1/23/97	23.90			Percent	23.90		NV	Percent	
O19	R	Moisture Content	O19-00C-7-R	NONE	483367	1350228	1/20/97	32.80			Percent	32.80		NV	Percent	
O19	R	Moisture Content	O19-00C-8-R	NONE	483348	1350452	1/20/97	23.70			Percent	23.70		NV	Percent	
O19	R	Moisture Content	O19-00C-9-R	NONE	483436	1349945	1/23/97	28.00			Percent	28.00		NV	Percent	
O19	R	Radium-226	O19-00C-1-R	NONE	483003	1349951	1/20/97	1.02	0.30		pCi/g	1.02	0.30	-	pCi/g	
O19	R	Radium-226	O19-00C-10-R	NONE	483483	1350025	1/23/97	0.83	0.21		pCi/g	0.83	0.21	-	pCi/g	
O19	R	Radium-226	O19-00C-11-R	NONE	483575	1350329	1/23/97	1.32	0.30		pCi/g	1.32	0.30	-	pCi/g	
O19	R	Radium-226	O19-00C-14-R	NONE	483655	1350024	1/23/97	1.42	0.33		pCi/g	1.42	0.33	-	pCi/g	
O19	R	Radium-226	O19-00C-15-R	NONE	483782	1350317	1/28/97	1.29	0.35		pCi/g	1.29	0.35	-	pCi/g	
O19	R	Radium-226	O19-00C-16-R	NONE	483722	1350431	1/28/97	1.37	0.34		pCi/g	1.37	0.34	-	pCi/g	
O19	R	Radium-226	O19-00C-4-R	NONE	483155	1350463	1/20/97	1.08	0.28		pCi/g	1.08	0.28	-	pCi/g	
O19	R	Radium-226	O19-00C-5-R	NONE	483205	1349940	1/20/97	1.09	0.35		pCi/g	1.09	0.35	-	pCi/g	
O19	R	Radium-226	O19-00C-6-R	NONE	483263	1350015	1/23/97	1.15	0.29		pCi/g	1.15	0.29	-	pCi/g	
O19	R	Radium-226	O19-00C-7-R	NONE	483367	1350228	1/20/97	0.95	0.28		pCi/g	0.95	0.28	-	pCi/g	
O19	R	Radium-226	O19-00C-8-R	NONE	483348	1350452	1/20/97	1.04	0.25		pCi/g	1.04	0.25	-	pCi/g	
O19	R	Radium-226	O19-00C-9-R	NONE	483436	1349945	1/23/97	1.27	0.28		pCi/g	1.27	0.28	-	pCi/g	
O19	R	Radium-228	O19-00C-1-R	NONE	483003	1349951	1/20/97	2.05	0.63		pCi/g	2.05	0.63	-	pCi/g	
O19	R	Radium-228	O19-00C-10-R	NONE	483483	1350025	1/23/97	0.88	0.48		pCi/g	0.88	0.48	J	pCi/g	
O19	R	Radium-228	O19-00C-11-R	NONE	483575	1350329	1/23/97	1.51	0.47		pCi/g	1.51	0.47	-	pCi/g	
O19	R	Radium-228	O19-00C-14-R	NONE	483655	1350024	1/23/97	1.00	0.64		pCi/g	1.00	0.64	J	pCi/g	
O19	R	Radium-228	O19-00C-15-R	NONE	483782	1350317	1/28/97	1.65	0.61		pCi/g	1.65	0.61	-	pCi/g	
O19	R	Radium-228	O19-00C-16-R	NONE	483722	1350431	1/28/97	1.50	0.61		pCi/g	1.50	0.61	-	pCi/g	

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A1P1 CERTIFICATION REPORT - APPENDIX B

							Laboratory Data				Validation Data				
CU Name	CU Type	Parameter	Sample ID	Suffix	Northing	Easting	Sample Date	Lab Result	TPU	Qualifier	Units	Val. Result	TPU	Qualifier	Units	Duplicate of
O19	R	Radium-228	O19-00C-4-R	NONE	483155	1350463	1/20/97	1.28	0.56		pCi/g	1.28	0.56	-	pCi/g	
O19	R	Radium-228	O19-00C-5-R	NONE	483205	1349940	1/20/97	1.08	0.59		pCi/g	1.08	0.59	J	pCi/g	
O19	R	Radium-228	O19-00C-6-R	NONE	483263	1350015	1/23/97	1.08	0.63		pCi/g	1.08	0.63	J	pCi/g	
O19	R	Radium-228	O19-00C-7-R	NONE	483367	1350228	1/20/97	1.46	0.60		pCi/g	1.46	0.60	-	pCi/g	
O19	R	Radium-228	O19-00C-8-R	NONE	483348	1350452	1/20/97	1.33	0.59		pCi/g	1.33	0.59	-	pCi/g	
O19	R	Radium-228	O19-00C-9-R	NONE	483436	1349945	1/23/97	1.51	0.53		pCi/g	1.15	0.53	-	pCi/g	
O19	R	Thorium-228	O19-00C-1-R	NONE	483003	1349951	1/20/97	1.35	0.11		pCi/g	1.35	0.11	-	pCi/g	
O19	R	Thorium-228	O19-00C-10-R	NONE	483483	1350025	1/23/97	1.22	0.10		pCi/g	1.22	0.10	-	pCi/g	
O19	R	Thorium-228	O19-00C-11-R	NONE	483575	1350329	1/23/97	1.42	0.11		pCi/g	1.42	0.11	-	pCi/g	
O19	R	Thorium-228	O19-00C-14-R	NONE	483655	1350024	1/23/97	1.47	0.11		pCi/g	1.47	0.11	-	pCi/g	
O19	R	Thorium-228	O19-00C-15-R	RE	483782	1350317	1/28/97	1.21	0.09		pCi/g	1.21	0.09	-	pCi/g	
O19	R	Thorium-228	O19-00C-16-R	RE	483722	1350431	1/28/97	1.18	0.10		pCi/g	1.18	0.10	-	pCi/g	
O19	R	Thorium-228	O19-00C-4-R	NONE	483155	1350463	1/20/97	1.26	0.11		pCi/g	1.26	0.11	-	pCi/g	
O19	R	Thorium-228	O19-00C-5-R	NONE	483205	1349940	1/20/97	1.16	0.10		pCi/g	1.16	0.10	-	pCi/g	
O19	R	Thorium-228	O19-00C-6-R	NONE	483263	1350015	1/23/97	1.34	0.10		pCi/g	1.34	0.10	-	pCi/g	
O19	R	Thorium-228	O19-00C-7-R	NONE	483367	1350228	1/20/97	1.37	0.10		pCi/g	1.37	0.10	-	pCi/g	
O19	R	Thorium-228	O19-00C-8-R	NONE	483348	1350452	1/20/97	1.36	0.10		pCi/g	1.36	0.10	-	pCi/g	
O19	R	Thorium-228	O19-00C-9-R	NONE	483436	1349945	1/23/97	1.25	0.10		pCi/g	1.25	0.10	-	pCi/g	
O19	R	Thorium-232	O19-00C-1-R	NONE	483003	1349951	1/20/97	1.27	0.10		pCi/g	1.27	0.10	-	pCi/g	
O19	R	Thorium-232	O19-00C-10-R	NONE	483483	1350025	1/23/97	1.15	0.09		pCi/g	1.15	0.09	-	pCi/g	
O19	R	Thorium-232	O19-00C-11-R	NONE	483575	1350329	1/23/97	1.17	0.10		pCi/g	1.17	0.10	-	pCi/g	
O19	R	Thorium-232	O19-00C-14-R	NONE	483655	1350024	1/23/97	1.32	0.10		pCi/g	1.32	0.10	-	pCi/g	
O19	R	Thorium-232	O19-00C-15-R	RE	483782	1350317	1/28/97	1.19	0.09		pCi/g	1.19	0.09	J	pCi/g	
O19	R	Thorium-232	O19-00C-16-R	RE	483722	1350431	1/28/97	1.11	0.09		pCi/g	1.11	0.09	J	pCi/g	
O19	R	Thorium-232	O19-00C-4-R	NONE	483155	1350463	1/20/97	1.17	0.10		pCi/g	1.17	0.10	-	pCi/g	
O19	R	Thorium-232	O19-00C-5-R	NONE	483205	1349940	1/20/97	1.08	0.10		pCi/g	1.08	0.10	-	pCi/g	
O19	R	Thorium-232	O19-00C-6-R	NONE	483263	1350015	1/23/97	1.18	0.09		pCi/g	1.18	0.09	-	pCi/g	
O19	R	Thorium-232	O19-00C-7-R	NONE	483367	1350228	1/20/97	1.18	0.09		pCi/g	1.18	0.09	-	pCi/g	
O19	R	Thorium-232	O19-00C-8-R	NONE	483348	1350452	1/20/97	1.25	0.10		pCi/g	1.25	0.10	-	pCi/g	
O19	R	Thorium-232	O19-00C-9-R	NONE	483436	1349945	1/23/97	1.11	0.09		pCi/g	1.11	0.09	-	pCi/g	
O19	R	Uranium, Total	O19-00C-1-R	NONE	483003	1349951	1/20/97				ug/g	33.28	17.09	J	ug/g	
O19	R	Uranium, Total	O19-00C-10-R	NONE	483483	1350025	1/23/97				ug/g	21.62	9.60	-	ug/g	
O19	R	Uranium, Total	O19-00C-11-R	NONE	483575	1350329	1/23/97				ug/g	35.98	12.89	-	ug/g	
O19	R	Uranium, Total	O19-00C-14-R	NONE	483655	1350024	1/23/97				ug/g	20.09		U	ug/g	
O19	R	Uranium, Total	O19-00C-15-R	NONE	483782	1350317	1/28/97				ug/g	17.69		U	ug/g	
O19	R	Uranium, Total	O19-00C-16-R	NONE	483722	1350431	1/28/97				ug/g	28.26	11.99	-	ug/g	
O19	R	Uranium, Total	O19-00C-4-R	NONE	483155	1350463	1/20/97				ug/g	30.89	10.80	-	ug/g	
O19	R	Uranium, Total	O19-00C-5-R	NONE	483205	1349940	1/20/97				ug/g	24.77	10.80	-	ug/g	
O19	R	Uranium, Total	O19-00C-6-R	NONE	483263	1350015	1/23/97				ug/g	17.93	10.80	J	ug/g	
O19	R	Uranium, Total	O19-00C-7-R	NONE	483367	1350228	1/20/97				ug/g	26.90	9.60	-	ug/g	

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								Laboratory Data				Validation Data				
CU Name	CU Type	Parameter	Sample ID	Suffix	Northing	Easting	Sample Date	Lab Result	TPU	Qualifier	Units	Val. Result	TPU	Qualifier	Units	Duplicate of
O19	R	Uranium, Total	O19-00C-8-R	NONE	483348	1350452	1/20/97				ug/g	24.26	10.20	-	ug/g	
O19	R	Uranium, Total	O19-00C-9-R	NONE	483436	1349945	1/23/97				ug/g	20.69	8.40	-	ug/g	
O19	R	Uranium-238	O19-00C-1-R	NONE	483003	1349951	1/20/97	11.10	5.70		pCi/g	11.10	5.70	J	pCi/g	
O19	R	Uranium-238	O19-00C-10-R	NONE	483483	1350025	1/23/97	7.21	3.20		pCi/g	7.21	3.20	-	pCi/g	
O19	R	Uranium-238	O19-00C-11-R	NONE	483575	1350329	1/23/97	12.00	4.30		pCi/g	12.00	4.30	-	pCi/g	
O19	R	Uranium-238	O19-00C-14-R	NONE	483655	1350024	1/23/97	6.34	4.30	U	pCi/g	6.70		U	pCi/g	
O19	R	Uranium-238	O19-00C-15-R	NONE	483782	1350317	1/28/97	5.89	3.80	U	pCi/g	5.90		U	pCi/g	
O19	R	Uranium-238	O19-00C-16-R	NONE	483722	1350431	1/28/97	9.43	4.00		pCi/g	9.43	4.00	-	pCi/g	
O19	R	Uranium-238	O19-00C-4-R	NONE	483155	1350463	1/20/97	10.30	3.60		pCi/g	10.30	3.60	-	pCi/g	
O19	R	Uranium-238	O19-00C-5-R	NONE	483205	1349940	1/20/97	8.26	3.60		pCi/g	8.26	3.60	-	pCi/g	
O19	R	Uranium-238	O19-00C-6-R	NONE	483263	1350015	1/23/97	5.98	3.60		pCi/g	5.98	3.60	J	pCi/g	
O19	R	Uranium-238	O19-00C-7-R	NONE	483367	1350228	1/20/97	8.97	3.20		pCi/g	8.97	3.20	-	pCi/g	
O19	R	Uranium-238	O19-00C-8-R	NONE	483348	1350452	1/20/97	8.09	3.40		pCi/g	8.09	3.40	-	pCi/g	
O19	R	Uranium-238	O19-00C-9-R	NONE	483436	1349945	1/23/97	6.90	2.80		pCi/g	6.90	2.80	-	pCi/g	
O20	M	Arsenic	O20-00C-1-M	NONE	483831	1349992	1/27/97	7.90			mg/kg	7.90		-	mg/kg	
O20	M	Arsenic	O20-00C-10-M	NONE	484013	1350165	1/27/97	7.30			mg/kg	7.30		-	mg/kg	
O20	M	Arsenic	O20-00C-2-M	NONE	483840	1350189	1/27/97	8.50			mg/kg	8.50		-	mg/kg	
O20	M	Arsenic	O20-00C-4-M	NONE	483822	1350582	1/23/97	5.90			mg/kg	5.90		-	mg/kg	
O20	M	Arsenic	O20-00C-4-M-D	NONE	483822	1350582	1/23/97	6.00			mg/kg	6.00		-	mg/kg	O20-00C-4-M
O20	M	Arsenic	O20-00C-5-M	NONE	483914	1349827	1/27/97	7.10			mg/kg	7.10		-	mg/kg	
O20	M	Arsenic	O20-00C-6-M	NONE	483970	1350144	1/27/97	8.20			mg/kg	8.20		-	mg/kg	
O20	M	Arsenic	O20-00C-7-M	NONE	483934	1350362	1/27/97	8.80			mg/kg	8.80		-	mg/kg	
O20	M	Arsenic	O20-00C-8A-M	NONE	483943	1350559	1/27/97	12.00			mg/kg	12.00		-	mg/kg	
O20	M	Arsenic	O20-00C-8A-M-D	NONE	483943	1350559	1/27/97	12.10			mg/kg	12.10		-	mg/kg	O20-00C-8A-M
O20	M	Arsenic	O20-00C-8B-M	NONE	483974	1350487	1/27/97	6.90			mg/kg	6.90		-	mg/kg	
O20	M	Beryllium	O20-00C-1-M	NONE	483831	1349992	1/27/97	1.40			mg/kg	1.40		-	mg/kg	
O20	M	Beryllium	O20-00C-10-M	NONE	484013	1350165	1/27/97	0.86			mg/kg	0.86		U	mg/kg	
O20	M	Beryllium	O20-00C-2-M	NONE	483840	1350189	1/27/97	1.20			mg/kg	1.20		-	mg/kg	
O20	M	Beryllium	O20-00C-4-M	NONE	483822	1350582	1/23/97	1.00			mg/kg	1.00		U	mg/kg	
O20	M	Beryllium	O20-00C-4-M-D	NONE	483822	1350582	1/23/97	0.94			mg/kg	0.94		U	mg/kg	O20-00C-4-M
O20	M	Beryllium	O20-00C-5-M	NONE	483914	1349827	1/27/97	0.58		B	mg/kg	0.58		U	mg/kg	
O20	M	Beryllium	O20-00C-6-M	NONE	483970	1350144	1/27/97	0.86			mg/kg	0.86		U	mg/kg	
O20	M	Beryllium	O20-00C-7-M	NONE	483934	1350362	1/27/97	1.10			mg/kg	1.10		U	mg/kg	
O20	M	Beryllium	O20-00C-8A-M	NONE	483943	1350559	1/27/97	1.20			mg/kg	1.20		-	mg/kg	
O20	M	Beryllium	O20-00C-8A-M-D	NONE	483943	1350559	1/27/97	1.20			mg/kg	1.20		-	mg/kg	O20-00C-8A-M
O20	M	Beryllium	O20-00C-8B-M	NONE	483974	1350487	1/27/97	0.91			mg/kg	0.91		U	mg/kg	
O20	R	Moisture Content	O20-00C-1-R	NONE	483998	1349867	2/21/97	27.73			Percent	27.73		NV	Percent	
O20	R	Moisture Content	O20-00C-10-R	NONE	484006	1350453	1/27/97	31.80			Percent	31.80		NV	Percent	
O20	R	Moisture Content	O20-00C-12A-R	NONE	484089	1350947	1/27/97	27.10			Percent	27.10		NV	Percent	

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							Laboratory Data				Validation Data				
CU Name	CU Type	Parameter	Sample ID	Suffix	Northing	Easting	Sample Date	Lab Result	TPU	Qualifier	Units	Val. Result	TPU	Qualifier	Units	Duplicate of
O20	R	Moisture Content	O20-00C-12B-R	NONE	484068	1350812	1/27/97	25.70			Percent	25.70		NV	Percent	
O20	R	Moisture Content	O20-00C-13-R	NONE	483889.5	1349817	5/23/97	26.10			Percent			NV	Percent	
O20	R	Moisture Content	O20-00C-14-R	NONE	484023.7	1350045	5/23/97	27.90			Percent			NV	Percent	
O20	R	Moisture Content	O20-00C-15-R	NONE	483821.1	1349966	5/23/97	26.30			Percent			NV	Percent	
O20	R	Moisture Content	O20-00C-16-R	NONE	483865.97	1350154	5/23/97	22.60			Percent			NV	Percent	
O20	R	Moisture Content	O20-00C-17-R	NONE	483816.1	1350266	5/23/97	29.20			Percent			NV	Percent	
O20	R	Moisture Content	O20-00C-18-R	NONE	483849.58	1350659	5/23/97	25.40			Percent			NV	Percent	
O20	R	Moisture Content	O20-00C-19-R	NONE	483913.2	1350801	5/23/97	26.20			Percent			NV	Percent	
O20	R	Moisture Content	O20-00C-2-R	NONE	483925	1350171	1/27/97	29.80			Percent			NV	Percent	
O20	R	Moisture Content	O20-00C-3-R	NONE	483953	1350267	1/27/97	32.00			Percent	32.00		NV	Percent	
O20	R	Moisture Content	O20-00C-4-R	NONE	483817	1350537	1/23/97	26.60			Percent	26.60		NV	Percent	
O20	R	Moisture Content	O20-00C-5-R	NONE	483985	1350674	1/27/97	26.60			Percent	26.60		NV	Percent	
O20	R	Moisture Content	O20-00C-6-R	NONE	483878	1350916	1/23/97	34.00			Percent	34.00		NV	Percent	
O20	R	Moisture Content	O20-00C-6-R-D	NONE	483878	1350916	1/23/97	35.30			Percent	35.30		NV	Percent	O20-00C-6-R
O20	R	Moisture Content	O20-00C-7A-R	NONE	484007	1349837	1/27/97	34.50			Percent	34.50		NV	Percent	
O20	R	Moisture Content	O20-00C-7B-R	NONE	484091	1349880	1/27/97	39.80			Percent	39.80		NV	Percent	
O20	R	Moisture Content	O20-00C-9-R	NONE	484029	1350321	1/27/97	23.00			Percent	23.00		NV	Percent	
O20	R	Moisture Content	O20HS-1-R-13-D	NONE	484092.7	1349877	4/9/97	19.40			Percent	19.40		NV	Percent	O20HS-1-R-13
O20	R	Radium-226	O20-00C-1-R	NONE	483998	1349867	2/21/97	0.99	0.18		pCi/g	0.99	0.18	-	pCi/g	
O20	R	Radium-226	O20-00C-10-R	NONE	484006	1350453	1/27/97	0.76	0.38		pCi/g	0.76	0.38	J	pCi/g	
O20	R	Radium-226	O20-00C-12A-R	NONE	484089	1350947	1/27/97	1.37	0.38		pCi/g	1.37	0.38	J	pCi/g	
O20	R	Radium-226	O20-00C-12B-R	NONE	484068	1350812	1/27/97	0.84	0.38		pCi/g	0.84	0.38	J	pCi/g	
O20	R	Radium-226	O20-00C-2-R	NONE	483925	1350171	1/27/97	1.09	0.34		pCi/g	1.09	0.34	J	pCi/g	
O20	R	Radium-226	O20-00C-3-R	NONE	483953	1350267	1/27/97	0.89	0.35		pCi/g	0.89	0.35	J	pCi/g	
O20	R	Radium-226	O20-00C-4-R	NONE	483817	1350537	1/23/97	1.33	0.38		pCi/g	1.33	0.38	-	pCi/g	
O20	R	Radium-226	O20-00C-5-R	NONE	483985	1350674	1/27/97	1.05	0.46		pCi/g	1.05	0.46	J	pCi/g	
O20	R	Radium-226	O20-00C-6-R	NONE	483878	1350916	1/23/97	1.28	0.31		pCi/g	1.28	0.31	-	pCi/g	
O20	R	Radium-226	O20-00C-6-R-D	NONE	483878	1350916	1/23/97	1.39	0.31		pCi/g	1.39	0.31	-	pCi/g	O20-00C-6-R
O20	R	Radium-226	O20-00C-7A-R	NONE	484007	1349837	1/27/97	1.16	0.29		pCi/g	1.16	0.29	J	pCi/g	
O20	R	Radium-226	O20-00C-7B-R	NONE	484091	1349880	1/27/97	1.38	0.32		pCi/g	1.38	0.32	J	pCi/g	
O20	R	Radium-226	O20-00C-9-R	NONE	484029	1350321	1/27/97	0.59	0.22		pCi/g	0.59	0.22	J	pCi/g	
O20	R	Radium-228	O20-00C-1-R	NONE	483998	1349867	2/21/97	1.30	0.27		pCi/g	1.27	0.27	-	pCi/g	
O20	R	Radium-228	O20-00C-10-R	NONE	484006	1350453	1/27/97	1.95	0.88		pCi/g	1.95	0.88	J	pCi/g	
O20	R	Radium-228	O20-00C-12A-R	NONE	484089	1350947	1/27/97	1.70	0.68		pCi/g	1.70	0.68	J	pCi/g	
O20	R	Radium-228	O20-00C-12B-R	NONE	484068	1350812	1/27/97	1.70	0.84		pCi/g	1.70	0.84	J	pCi/g	
O20	R	Radium-228	O20-00C-13-R	NONE	483889.5	1349817	5/23/97	1.61	0.13		pCi/g	1.61	0.13	J	pCi/g	
O20	R	Radium-228	O20-00C-14-R	NONE	484023.7	1350045	5/23/97	1.15	0.10		pCi/g	1.15	0.10	J	pCi/g	
O20	R	Radium-228	O20-00C-15-R	NONE	483821.1	1349966	5/23/97	1.51	0.12		pCi/g	1.51	0.12	J	pCi/g	
O20	R	Radium-228	O20-00C-16-R	NONE	483865.97	1350154	5/23/97	1.49	0.12		pCi/g	1.49	0.12	J	pCi/g	
O20	R	Radium-228	O20-00C-17-R	NONE	483816.1	1350266	5/23/97	1.49	0.12		pCi/g	1.49	0.12	J	pCi/g	

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								Laboratory Data				Validation Data				
CU Name	CU Type	Parameter	Sample ID	Suffix	Northing	Easting	Sample Date	Lab Result	TPU	Qualifier	Units	Val. Result	TPU	Qualifier	Units	Duplicate of
O20	R	Radium-228	O20-00C-18-R	NONE	483849.58	1350659	5/23/97	1.40	0.12		pCi/g	1.40	0.12	J	pCi/g	
O20	R	Radium-228	O20-00C-19-R	NONE	483913.2	1350801	5/23/97	1.35	0.12		pCi/g	1.35	0.12	J	pCi/g	
O20	R	Radium-228	O20-00C-2-R	NONE	483925	1350171	1/27/97	2.46	0.85		pCi/g	2.46	0.85	J	pCi/g	
O20	R	Radium-228	O20-00C-3-R	NONE	483953	1350267	1/27/97	1.60	0.90		pCi/g	1.60	0.90	J	pCi/g	
O20	R	Radium-228	O20-00C-4-R	NONE	483817	1350537	1/23/97	1.51	0.62		pCi/g	1.51	0.62	-	pCi/g	
O20	R	Radium-228	O20-00C-5-R	NONE	483985	1350674	1/27/97	1.99	0.89		pCi/g	1.99	0.89	J	pCi/g	
O20	R	Radium-228	O20-00C-6-R	NONE	483878	1350916	1/23/97	1.89	0.71		pCi/g	1.89	0.71	-	pCi/g	
O20	R	Radium-228	O20-00C-6-R-D	NONE	483878	1350916	1/23/97	1.85	0.61		pCi/g	1.85	0.61	-	pCi/g	O20-00C-6-R
O20	R	Radium-228	O20-00C-7A-R	NONE	484007	1349837	1/27/97	1.65	0.56		pCi/g	1.65	0.56	J	pCi/g	
O20	R	Radium-228	O20-00C-7B-R	NONE	484091	1349880	1/27/97	1.24	0.65		pCi/g	1.24	0.65	J	pCi/g	
O20	R	Radium-228	O20-00C-9-R	NONE	484029	1350321	1/27/97	0.84	0.52		pCi/g	0.84	0.52	J	pCi/g	
O20	R	Thorium-228	O20-00C-1-R	NONE	483998	1349867	2/21/97	0.77	0.33		pCi/g	0.80	0.30	-	pCi/g	
O20	R	Thorium-228	O20-00C-10-R	NONE	484006	1350453	1/27/97	1.47	0.11		pCi/g	1.47	0.11	J	pCi/g	
O20	R	Thorium-228	O20-00C-12A-R	NONE	484089	1350947	1/27/97	1.39	0.11		pCi/g	1.39	0.11	J	pCi/g	
O20	R	Thorium-228	O20-00C-12B-R	NONE	484068	1350812	1/27/97	1.45	0.11		pCi/g	1.45	0.11	J	pCi/g	
O20	R	Thorium-228	O20-00C-2-R	NONE	483925	1350171	1/27/97	1.66	0.12		pCi/g	1.66	0.12	J	pCi/g	
O20	R	Thorium-228	O20-00C-3-R	NONE	483953	1350267	1/27/97	1.45	0.11		pCi/g	1.45	0.11	J	pCi/g	
O20	R	Thorium-228	O20-00C-4-R	NONE	483817	1350537	1/23/97	1.45	0.11		pCi/g	1.45	0.11	-	pCi/g	
O20	R	Thorium-228	O20-00C-5-R	NONE	483985	1350674	1/27/97	1.34	0.11		pCi/g	1.34	0.11	J	pCi/g	
O20	R	Thorium-228	O20-00C-6-R	NONE	483878	1350916	1/23/97	1.37	0.11		pCi/g	1.37	0.11	-	pCi/g	
O20	R	Thorium-228	O20-00C-6-R-D	NONE	483878	1350916	1/23/97	1.47	0.11		pCi/g	1.47	0.11	-	pCi/g	O20-00C-6-R
O20	R	Thorium-228	O20-00C-7A-R	NONE	484007	1349837	1/27/97	1.20	0.10		pCi/g	1.20	0.10	J	pCi/g	
O20	R	Thorium-228	O20-00C-7B-R	RE	484091	1349880	1/27/97	1.08	0.09		pCi/g	1.08	0.09	J	pCi/g	
O20	R	Thorium-228	O20-00C-9-R	NONE	484029	1350321	1/27/97	1.16	0.10		pCi/g	1.16	0.10	J	pCi/g	
O20	R	Thorium-232	O20-00C-1-R	NONE	483998	1349867	2/21/97	0.94	0.28		pCi/g	0.98	0.28	-	pCi/g	
O20	R	Thorium-232	O20-00C-10-R	NONE	484006	1350453	1/27/97	1.45	0.11		pCi/g	1.45	0.11	J	pCi/g	
O20	R	Thorium-232	O20-00C-12A-R	NONE	484089	1350947	1/27/97	1.40	0.11		pCi/g	1.40	0.11	J	pCi/g	
O20	R	Thorium-232	O20-00C-12B-R	NONE	484068	1350812	1/27/97	1.15	0.09		pCi/g	1.15	0.09	J	pCi/g	
O20	R	Thorium-232	O20-00C-2-R	NONE	483925	1350171	1/27/97	1.61	0.12		pCi/g	1.61	0.12	J	pCi/g	
O20	R	Thorium-232	O20-00C-3-R	NONE	483953	1350267	1/27/97	1.39	0.11		pCi/g	1.39	0.11	J	pCi/g	
O20	R	Thorium-232	O20-00C-4-R	NONE	483817	1350537	1/23/97	1.33	0.11		pCi/g	1.33	0.11	-	pCi/g	
O20	R	Thorium-232	O20-00C-5-R	NONE	483985	1350674	1/27/97	1.34	0.10		pCi/g	1.34	0.10	J	pCi/g	
O20	R	Thorium-232	O20-00C-6-R	NONE	483878	1350916	1/23/97	1.32	0.10		pCi/g	1.32	0.10	-	pCi/g	
O20	R	Thorium-232	O20-00C-6-R-D	NONE	483878	1350916	1/23/97	1.22	0.09		pCi/g	1.22	0.09	-	pCi/g	O20-00C-6-R
O20	R	Thorium-232	O20-00C-7A-R	NONE	484007	1349837	1/27/97	1.11	0.09		pCi/g	1.11	0.09	J	pCi/g	
O20	R	Thorium-232	O20-00C-7B-R	RE	484091	1349880	1/27/97	1.04	0.09		pCi/g	1.04	0.09	J	pCi/g	
O20	R	Thorium-232	O20-00C-9-R	NONE	484029	1350321	1/27/97	1.22	0.10		pCi/g	1.22	0.10	J	pCi/g	
O20	R	Uranium, Total	O20-00C-1-R	NONE	483998	1349867	2/21/97				ug/g	21.98	7.34	-	ug/g	
O20	R	Uranium, Total	O20-00C-10-R	NONE	484006	1350453	1/27/97				ug/g	38.38	13.79	J	ug/g	
O20	R	Uranium, Total	O20-00C-12A-R	NONE	484089	1350947	1/27/97				ug/g	21.29		UJ	ug/g	

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								Laboratory Data				Validation Data				
CU Name	CU Type	Parameter	Sample ID	Suffix	Northing	Easting	Sample Date	Lab Result	TPU	Qualifier	Units	Val. Result	TPU	Qualifier	Units	Duplicate of
O20	R	Uranium, Total	O20-00C-12B-R	NONE	484068	1350812	1/27/97				ug/g	22.79		UJ	ug/g	
O20	R	Uranium, Total	O20-00C-2-R	NONE	483925	1350171	1/27/97				ug/g	52.77	17.99	J	ug/g	
O20	R	Uranium, Total	O20-00C-3-R	NONE	483953	1350267	1/27/97				ug/g	47.38	14.69	J	ug/g	
O20	R	Uranium, Total	O20-00C-4-R	NONE	483817	1350537	1/23/97				ug/g	13.79		U	ug/g	
O20	R	Uranium, Total	O20-00C-5-R	NONE	483985	1350674	1/27/97				ug/g	32.38	14.99	J	ug/g	
O20	R	Uranium, Total	O20-00C-6-R	NONE	483878	1350916	1/23/97				ug/g	29.60	11.99	-	ug/g	
O20	R	Uranium, Total	O20-00C-6-R-D	NONE	483878	1350916	1/23/97				ug/g	28.25	13.79	-	ug/g	O20-00C-6-R
O20	R	Uranium, Total	O20-00C-7A-R	NONE	484007	1349837	1/27/97				ug/g	17.09		UJ	ug/g	
O20	R	Uranium, Total	O20-00C-9-R	NONE	484029	1350321	1/27/97				ug/g	12.29		UJ	ug/g	
O20	R	Uranium, Total	O20HS-1-R-13-D	NONE	484092.7	1349877	4/9/97				ug/g	12.81	2.01	-	ug/g	O20HS-1-R-13
O20	R	Uranium-238	O20-00C-1-R	NONE	483998	1349867	2/21/97	7.30	2.50		pCi/g	7.33	2.45	-	pCi/g	
O20	R	Uranium-238	O20-00C-10-R	NONE	484006	1350453	1/27/97	12.80	4.60		pCi/g	12.80	4.60	J	pCi/g	
O20	R	Uranium-238	O20-00C-12A-R	NONE	484089	1350947	1/27/97	4.57	4.50		pCi/g	7.10		UJ	pCi/g	
O20	R	Uranium-238	O20-00C-12B-R	NONE	484068	1350812	1/27/97	3.12	4.80	U	pCi/g	7.60		UJ	pCi/g	
O20	R	Uranium-238	O20-00C-2-R	NONE	483925	1350171	1/27/97	17.60	6.00		pCi/g	17.60	6.00	J	pCi/g	
O20	R	Uranium-238	O20-00C-3-R	NONE	483953	1350267	1/27/97	15.80	4.90		pCi/g	15.80	4.90	J	pCi/g	
O20	R	Uranium-238	O20-00C-4-R	NONE	483817	1350537	1/23/97	3.04	3.00	U	pCi/g	4.60		U	pCi/g	
O20	R	Uranium-238	O20-00C-5-R	NONE	483985	1350674	1/27/97	10.80	5.00		pCi/g	10.80	5.00	J	pCi/g	
O20	R	Uranium-238	O20-00C-6-R	NONE	483878	1350916	1/23/97	9.87	4.00		pCi/g	9.87	4.00	-	pCi/g	
O20	R	Uranium-238	O20-00C-6-R-D	NONE	483878	1350916	1/23/97	9.42	4.60		pCi/g	9.42	4.60	-	pCi/g	O20-00C-6-R
O20	R	Uranium-238	O20-00C-7A-R	NONE	484007	1349837	1/27/97	5.40	3.70	U	pCi/g	5.70		UJ	pCi/g	
O20	R	Uranium-238	O20-00C-7B-R	NONE	484091	1349880	1/27/97	68.50	7.80		pCi/g	68.50	7.80	J	pCi/g	
O20	R	Uranium-238	O20-00C-9-R	NONE	484029	1350321	1/27/97	1.17	2.60	U	pCi/g	4.10		UJ	pCi/g	
OSB-1	M	Aroclor-1260	OSB-1C-1-MP	NONE	480414	1350605	4/15/97	37.00		U	ug/kg	37.00		U	ug/kg	
OSB-1	M	Aroclor-1260	OSB-1C-10-MP	NONE	480624	1350624	4/15/97	38.00		U	ug/kg	38.00		U	ug/kg	
OSB-1	M	Aroclor-1260	OSB-1C-11-MP	NONE	480641	1350679	4/15/97	42.00		U	ug/kg	42.00		U	ug/kg	
OSB-1	M	Aroclor-1260	OSB-1C-12-MP	NONE	480596	1350699	4/15/97	41.00		U	ug/kg	41.00		U	ug/kg	
OSB-1	M	Aroclor-1260	OSB-1C-13-MP	NONE	480684	1350598	4/15/97	38.00		U	ug/kg	38.00		U	ug/kg	
OSB-1	M	Aroclor-1260	OSB-1C-14-MP	NONE	480675	1350635	4/15/97	38.00		U	ug/kg	38.00		U	ug/kg	
OSB-1	M	Aroclor-1260	OSB-1C-15-MP	NONE	480671	1350680	4/15/97	42.00		U	ug/kg	42.00		U	ug/kg	
OSB-1	M	Aroclor-1260	OSB-1C-16-MP	NONE	480689	1350697	4/15/97	42.00		U	ug/kg	42.00		U	ug/kg	
OSB-1	M	Aroclor-1260	OSB-1C-2-MP	NONE	480424	1350636	4/15/97	42.00		U	ug/kg	42.00		U	ug/kg	
OSB-1	M	Aroclor-1260	OSB-1C-3-MP	NONE	480451	1350595	4/15/97	37.00		U	ug/kg	37.00		U	ug/kg	
OSB-1	M	Aroclor-1260	OSB-1C-4-MP	NONE	480497	1350644	4/15/97	42.00		U	ug/kg	42.00		U	ug/kg	
OSB-1	M	Aroclor-1260	OSB-1C-5-MP	NONE	480502	1350595	4/15/97	38.00		U	ug/kg	38.00		U	ug/kg	
OSB-1	M	Aroclor-1260	OSB-1C-5-MP-D	NONE	480502	1350595	4/15/97	38.00		U	ug/kg	38.00		U	ug/kg	OSB-1C-5-MP
OSB-1	M	Aroclor-1260	OSB-1C-6-MP	NONE	480527	1350664	4/15/97	40.00		U	ug/kg	40.00		U	ug/kg	
OSB-1	M	Aroclor-1260	OSB-1C-7-MP	NONE	480570	1350601	4/15/97	38.00		U	ug/kg	38.00		U	ug/kg	
OSB-1	M	Aroclor-1260	OSB-1C-8-MP	NONE	480574	1350653	4/15/97	42.00		U	ug/kg	42.00		U	ug/kg	

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								Laboratory Data				Validation Data				
CU Name	CU Type	Parameter	Sample ID	Suffix	Northing	Easting	Sample Date	Lab Result	TPU	Qualifier	Units	Val. Result	TPU	Qualifier	Units	Duplicate of
OSB-1	M	Aroclor-1260	OSB-1C-9-MP	NONE	480626	1350604	4/15/97	36.00		U	ug/kg	36.00		U	ug/kg	
OSB-1	M	Arsenic	OSB-1C-1-MP	NONE	480414	1350605	4/15/97	5.00		*	mg/kg	5.00		-	mg/kg	
OSB-1	M	Arsenic	OSB-1C-10-MP	NONE	480624	1350624	4/15/97	6.30		N	mg/kg	6.30		J	mg/kg	
OSB-1	M	Arsenic	OSB-1C-11-MP	NONE	480641	1350679	4/15/97	14.00		N	mg/kg	14.00		J	mg/kg	
OSB-1	M	Arsenic	OSB-1C-12-MP	NONE	480596	1350699	4/15/97	7.60		N	mg/kg	7.60		J	mg/kg	
OSB-1	M	Arsenic	OSB-1C-13-MP	NONE	480684	1350598	4/15/97	5.50		N	mg/kg	5.50		J	mg/kg	
OSB-1	M	Arsenic	OSB-1C-14-MP	NONE	480675	1350635	4/15/97	3.90		N	mg/kg	3.90		J	mg/kg	
OSB-1	M	Arsenic	OSB-1C-15-MP	NONE	480671	1350680	4/15/97	13.80		N	mg/kg	13.80		J	mg/kg	
OSB-1	M	Arsenic	OSB-1C-16-MP	NONE	480689	1350697	4/15/97	12.40		N	mg/kg	12.40		J	mg/kg	
OSB-1	M	Arsenic	OSB-1C-2-MP	NONE	480424	1350636	4/15/97	11.50		*	mg/kg	11.50		-	mg/kg	
OSB-1	M	Arsenic	OSB-1C-3-MP	NONE	480451	1350595	4/15/97	5.00		*	mg/kg	5.00		-	mg/kg	
OSB-1	M	Arsenic	OSB-1C-4-MP	NONE	480497	1350644	4/15/97	11.80		*	mg/kg	11.80		-	mg/kg	
OSB-1	M	Arsenic	OSB-1C-5-MP	NONE	480502	1350595	4/15/97	5.70		N	mg/kg	5.70		J	mg/kg	
OSB-1	M	Arsenic	OSB-1C-5-MP-D	NONE	480502	1350595	4/15/97	5.40		N	mg/kg	5.40		J	mg/kg	OSB-1C-5-MP
OSB-1	M	Arsenic	OSB-1C-6-MP	NONE	480527	1350664	4/15/97	8.60		N	mg/kg	8.60		J	mg/kg	
OSB-1	M	Arsenic	OSB-1C-7-MP	NONE	480570	1350601	4/15/97	3.00		N	mg/kg	3.00		J	mg/kg	
OSB-1	M	Arsenic	OSB-1C-8-MP	NONE	480574	1350653	4/15/97	12.70		N	mg/kg	12.70		J	mg/kg	
OSB-1	M	Arsenic	OSB-1C-9-MP	NONE	480626	1350604	4/15/97	3.90		N	mg/kg	3.90		J	mg/kg	
OSB-1	M	Beryllium	OSB-1C-1-MP	NONE	480414	1350605	4/15/97	0.36		B	mg/kg	0.36		-	mg/kg	
OSB-1	M	Beryllium	OSB-1C-10-MP	RE	480624	1350624	4/15/97	0.89			mg/kg	0.89		U	mg/kg	
OSB-1	M	Beryllium	OSB-1C-10-MP	NONE	480624	1350624	4/15/97	0.61		N	mg/kg	0.61		Z	mg/kg	
OSB-1	M	Beryllium	OSB-1C-11-MP	NONE	480641	1350679	4/15/97	2.60		N	mg/kg	2.60		J	mg/kg	
OSB-1	M	Beryllium	OSB-1C-12-MP	NONE	480596	1350699	4/15/97	0.79		N	mg/kg	0.79		Z	mg/kg	
OSB-1	M	Beryllium	OSB-1C-12-MP	RE	480596	1350699	4/15/97	0.96			mg/kg	0.96		U	mg/kg	
OSB-1	M	Beryllium	OSB-1C-13-MP	NONE	480684	1350598	4/15/97	0.57		BN	mg/kg	0.57		Z	mg/kg	
OSB-1	M	Beryllium	OSB-1C-13-MP	RE	480684	1350598	4/15/97	0.91			mg/kg	0.91		U	mg/kg	
OSB-1	M	Beryllium	OSB-1C-14-MP	NONE	480675	1350635	4/15/97	0.77		N	mg/kg	0.77		Z	mg/kg	
OSB-1	M	Beryllium	OSB-1C-14-MP	RE	480675	1350635	4/15/97	1.00			mg/kg	1.00		U	mg/kg	
OSB-1	M	Beryllium	OSB-1C-15-MP	NONE	480671	1350680	4/15/97	1.80		N	mg/kg	1.80		UJ	mg/kg	
OSB-1	M	Beryllium	OSB-1C-16-MP	NONE	480689	1350697	4/15/97	1.60		N	mg/kg	1.60		UJ	mg/kg	
OSB-1	M	Beryllium	OSB-1C-2-MP	NONE	480424	1350636	4/15/97	1.30			mg/kg	1.30		-	mg/kg	
OSB-1	M	Beryllium	OSB-1C-3-MP	NONE	480451	1350595	4/15/97	0.34		B	mg/kg	0.34		-	mg/kg	
OSB-1	M	Beryllium	OSB-1C-4-MP	NONE	480497	1350644	4/15/97	0.75			mg/kg	0.75		-	mg/kg	
OSB-1	M	Beryllium	OSB-1C-5-MP	RE	480502	1350595	4/15/97	0.93			mg/kg	0.93		U	mg/kg	
OSB-1	M	Beryllium	OSB-1C-5-MP	NONE	480502	1350595	4/15/97	0.70		N	mg/kg	0.70		Z	mg/kg	
OSB-1	M	Beryllium	OSB-1C-5-MP-D	NONE	480502	1350595	4/15/97	0.73		N	mg/kg	0.73		Z	mg/kg	OSB-1C-5-MP
OSB-1	M	Beryllium	OSB-1C-5-MP-D	RE	480502	1350595	4/15/97	1.00			mg/kg	1.00		U	mg/kg	OSB-1C-5-MP
OSB-1	M	Beryllium	OSB-1C-6-MP	NONE	480527	1350664	4/15/97	0.71		N	mg/kg	0.71		Z	mg/kg	
OSB-1	M	Beryllium	OSB-1C-6-MP	RE	480527	1350664	4/15/97	0.84			mg/kg	0.84		U	mg/kg	
OSB-1	M	Beryllium	OSB-1C-7-MP	NONE	480570	1350601	4/15/97	0.51		BN	mg/kg	0.51		Z	mg/kg	

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							Laboratory Data				Validation Data				
CU Name	CU Type	Parameter	Sample ID	Suffix	Northing	Easting	Sample Date	Lab Result	TPU	Qualifier	Units	Val. Result	TPU	Qualifier	Units	Duplicate of
OSB-1	M	Beryllium	OSB-1C-7-MP	RE	480570	1350601	4/15/97	0.96			mg/kg	0.96		U	mg/kg	
OSB-1	M	Beryllium	OSB-1C-8-MP	NONE	480574	1350653	4/15/97	0.83		N	mg/kg	0.83		Z	mg/kg	
OSB-1	M	Beryllium	OSB-1C-8-MP	RE	480574	1350653	4/15/97	0.98			mg/kg	0.98		U	mg/kg	
OSB-1	M	Beryllium	OSB-1C-9-MP	NONE	480626	1350604	4/15/97	0.33		BN	mg/kg	0.33		Z	mg/kg	
OSB-1	M	Beryllium	OSB-1C-9-MP	RE	480626	1350604	4/15/97	0.62			mg/kg	0.62		U	mg/kg	
OSB-1	R	Moisture Content	OSB-1C-1-R	NONE	480414	1350605	4/15/97	12.20			Percent			NV	Percent	
OSB-1	R	Moisture Content	OSB-1C-10-R	NONE	480624	1350624	4/15/97	12.70			Percent			NV	Percent	
OSB-1	R	Moisture Content	OSB-1C-11-R	NONE	480641	1350679	4/15/97	19.60			Percent			NV	Percent	
OSB-1	R	Moisture Content	OSB-1C-12-R	NONE	480596	1350699	4/15/97	18.10			Percent			NV	Percent	
OSB-1	R	Moisture Content	OSB-1C-13-R	NONE	480684	1350598	4/15/97	12.50			Percent			NV	Percent	
OSB-1	R	Moisture Content	OSB-1C-14-R	NONE	480675	1350635	4/15/97	13.60			Percent			NV	Percent	
OSB-1	R	Moisture Content	OSB-1C-15-R	NONE	480671	1350680	4/15/97	18.30			Percent			NV	Percent	
OSB-1	R	Moisture Content	OSB-1C-16-R	NONE	480689	1350697	4/15/97	19.10			Percent			NV	Percent	
OSB-1	R	Moisture Content	OSB-1C-2-R	NONE	480424	1350636	4/15/97	18.40			Percent			NV	Percent	
OSB-1	R	Moisture Content	OSB-1C-3-R	NONE	480451	1350595	4/15/97	11.70			Percent			NV	Percent	
OSB-1	R	Moisture Content	OSB-1C-4-R	NONE	480497	1350644	4/15/97	18.80			Percent			NV	Percent	
OSB-1	R	Moisture Content	OSB-1C-5-R	NONE	480502	1350595	4/15/97	12.60			Percent			NV	Percent	
OSB-1	R	Moisture Content	OSB-1C-5-R-D	NONE	480502	1350595	4/15/97	12.00			Percent			NV	Percent	OSB-1C-5-R
OSB-1	R	Moisture Content	OSB-1C-6-R	NONE	480527	1350664	4/15/97	17.00			Percent			NV	Percent	
OSB-1	R	Moisture Content	OSB-1C-7-R	NONE	480570	1350601	4/15/97	13.70			Percent			NV	Percent	
OSB-1	R	Moisture Content	OSB-1C-8-R	NONE	480574	1350653	4/15/97	19.70			Percent			NV	Percent	
OSB-1	R	Moisture Content	OSB-1C-9-R	NONE	480626	1350604	4/15/97	9.90			Percent			NV	Percent	
OSB-1	R	Radium-226	OSB-1C-1-R	NONE	480414	1350605	4/15/97	0.90	0.13		pCi/g	0.90	0.14	J	pCi/g	
OSB-1	R	Radium-226	OSB-1C-10-R	NONE	480624	1350624	4/15/97	0.84	0.12		pCi/g	0.84	0.12	-	pCi/g	
OSB-1	R	Radium-226	OSB-1C-11-R	NONE	480641	1350679	4/15/97	1.80	0.18		pCi/g	1.80	0.18	J	pCi/g	
OSB-1	R	Radium-226	OSB-1C-12-R	NONE	480596	1350699	4/15/97	1.20	0.13		pCi/g	1.20	0.13	-	pCi/g	
OSB-1	R	Radium-226	OSB-1C-13-R	NONE	480684	1350598	4/15/97	1.00	0.15		pCi/g	1.00	0.15	J	pCi/g	
OSB-1	R	Radium-226	OSB-1C-14-R	NONE	480675	1350635	4/15/97	0.94	0.14		pCi/g	0.94	0.14	-	pCi/g	
OSB-1	R	Radium-226	OSB-1C-15-R	NONE	480671	1350680	4/15/97	1.50	0.17		pCi/g	1.52	0.17	-	pCi/g	
OSB-1	R	Radium-226	OSB-1C-16-R	NONE	480689	1350697	4/15/97	1.30	0.17		pCi/g	1.34	0.17	-	pCi/g	
OSB-1	R	Radium-226	OSB-1C-2-R	NONE	480424	1350636	4/15/97	1.40	0.18		pCi/g	1.36	0.18	J	pCi/g	
OSB-1	R	Radium-226	OSB-1C-3-R	NONE	480451	1350595	4/15/97	0.89	0.16		pCi/g	0.89	0.16	J	pCi/g	
OSB-1	R	Radium-226	OSB-1C-3-R	RE	480451	1350595	4/15/97	0.82	0.13		pCi/g	0.82	0.13	Z	pCi/g	
OSB-1	R	Radium-226	OSB-1C-4-R	NONE	480497	1350644	4/15/97	1.30	0.14		pCi/g	1.31	0.14	J	pCi/g	
OSB-1	R	Radium-226	OSB-1C-5-R	NONE	480502	1350595	4/15/97	1.00	0.15		pCi/g	1.02	0.15	J	pCi/g	
OSB-1	R	Radium-226	OSB-1C-5-R-D	NONE	480502	1350595	4/15/97	0.92	0.11		pCi/g	0.92	0.11	-	pCi/g	OSB-1C-5-R
OSB-1	R	Radium-226	OSB-1C-6-R	NONE	480527	1350664	4/15/97	1.20	0.16		pCi/g	1.19	0.16	-	pCi/g	
OSB-1	R	Radium-226	OSB-1C-7-R	NONE	480570	1350601	4/15/97	1.00	0.14		pCi/g	1.00	0.14	J	pCi/g	
OSB-1	R	Radium-226	OSB-1C-8-R	NONE	480574	1350653	4/15/97	1.30	0.14		pCi/g	1.30	0.14	-	pCi/g	
OSB-1	R	Radium-226	OSB-1C-9-R	NONE	480626	1350604	4/15/97	0.76	0.13		pCi/g	0.76	0.13	-	pCi/g	

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CU Name	CU Type	Parameter	Sample ID	Suffix	Northing	Easting	Sample Date	Laboratory Data				Validation Data				Duplicate of
								Lab Result	TPU	Qualifier	Units	Val. Result	TPU	Qualifier	Units	
OSB-1	R	Radium-228	OSB-1C-1-R	NONE	480414	1350605	4/15/97	0.54	0.19		pCi/g	0.54	0.19	-	pCi/g	
OSB-1	R	Radium-228	OSB-1C-10-R	NONE	480624	1350624	4/15/97	0.79	0.24		pCi/g	0.79	0.24	-	pCi/g	
OSB-1	R	Radium-228	OSB-1C-11-R	NONE	480641	1350679	4/15/97	1.60	0.42		pCi/g	1.63	0.42	-	pCi/g	
OSB-1	R	Radium-228	OSB-1C-12-R	NONE	480596	1350699	4/15/97	1.00	0.30		pCi/g	1.04	0.30	-	pCi/g	
OSB-1	R	Radium-228	OSB-1C-13-R	NONE	480684	1350598	4/15/97	0.81	0.24		pCi/g	0.81	0.24	-	pCi/g	
OSB-1	R	Radium-228	OSB-1C-14-R	NONE	480675	1350635	4/15/97	0.78	0.25		pCi/g	0.78	0.26	-	pCi/g	
OSB-1	R	Radium-228	OSB-1C-15-R	NONE	480671	1350680	4/15/97	1.50	0.37		pCi/g	1.51	0.37	-	pCi/g	
OSB-1	R	Radium-228	OSB-1C-16-R	NONE	480689	1350697	4/15/97	1.20	0.36		pCi/g	1.23	0.36	-	pCi/g	
OSB-1	R	Radium-228	OSB-1C-2-R	NONE	480424	1350636	4/15/97	1.30	0.37		pCi/g	1.28	0.37	-	pCi/g	
OSB-1	R	Radium-228	OSB-1C-3-R	NONE	480451	1350595	4/15/97	0.57	0.21		pCi/g	0.57	0.21	-	pCi/g	
OSB-1	R	Radium-228	OSB-1C-3-R	RE	480451	1350595	4/15/97	0.53	0.20		pCi/g	0.53	0.20	Z	pCi/g	
OSB-1	R	Radium-228	OSB-1C-4-R	NONE	480497	1350644	4/15/97	1.40	0.35		pCi/g	1.40	0.35	-	pCi/g	
OSB-1	R	Radium-228	OSB-1C-5-R	NONE	480502	1350595	4/15/97	0.84	0.26		pCi/g	0.84	0.26	-	pCi/g	
OSB-1	R	Radium-228	OSB-1C-5-R-D	NONE	480502	1350595	4/15/97	0.81	0.24		pCi/g	0.81	0.24	-	pCi/g	OSB-1C-5-R
OSB-1	R	Radium-228	OSB-1C-6-R	NONE	480527	1350664	4/15/97	1.30	0.35		pCi/g	1.28	0.35	-	pCi/g	
OSB-1	R	Radium-228	OSB-1C-7-R	NONE	480570	1350601	4/15/97	0.68	0.23		pCi/g	0.68	0.23	-	pCi/g	
OSB-1	R	Radium-228	OSB-1C-8-R	NONE	480574	1350653	4/15/97	1.30	0.33		pCi/g	1.30	0.33	-	pCi/g	
OSB-1	R	Radium-228	OSB-1C-9-R	NONE	480626	1350604	4/15/97	0.49	0.21		pCi/g	0.49	0.21	-	pCi/g	
OSB-1	R	Thorium-228	OSB-1C-1-R	NONE	480414	1350605	4/15/97	0.75	0.29		pCi/g	0.75	0.29	J	pCi/g	
OSB-1	R	Thorium-228	OSB-1C-10-R	NONE	480624	1350624	4/15/97	1.00	0.41		pCi/g	1.03	0.41	J	pCi/g	
OSB-1	R	Thorium-228	OSB-1C-11-R	NONE	480641	1350679	4/15/97	1.50	0.55		pCi/g	1.53	0.55	J	pCi/g	
OSB-1	R	Thorium-228	OSB-1C-12-R	NONE	480596	1350699	4/15/97	1.10	0.43		pCi/g	1.14	0.43	J	pCi/g	
OSB-1	R	Thorium-228	OSB-1C-13-R	NONE	480684	1350598	4/15/97	0.83	0.37		pCi/g	0.83	0.37	J	pCi/g	
OSB-1	R	Thorium-228	OSB-1C-14-R	NONE	480675	1350635	4/15/97	1.20	0.44		pCi/g	1.15	0.44	J	pCi/g	
OSB-1	R	Thorium-228	OSB-1C-15-R	NONE	480671	1350680	4/15/97	1.60	0.53		pCi/g	1.58	0.53	J	pCi/g	
OSB-1	R	Thorium-228	OSB-1C-16-R	NONE	480689	1350697	4/15/97	1.60	0.60		pCi/g	1.61	0.60	J	pCi/g	
OSB-1	R	Thorium-228	OSB-1C-2-R	NONE	480424	1350636	4/15/97	1.80	0.78		pCi/g	1.84	0.78	J	pCi/g	
OSB-1	R	Thorium-228	OSB-1C-3-R	NONE	480451	1350595	4/15/97	0.87	0.38		pCi/g	0.87	0.38	J	pCi/g	
OSB-1	R	Thorium-228	OSB-1C-4-R	NONE	480497	1350644	4/15/97	1.30	0.52		pCi/g	1.27	0.52	J	pCi/g	
OSB-1	R	Thorium-228	OSB-1C-5-R	NONE	480502	1350595	4/15/97	0.96	0.37		pCi/g	0.96	0.37	J	pCi/g	
OSB-1	R	Thorium-228	OSB-1C-5-R-D	NONE	480502	1350595	4/15/97	0.96	0.36		pCi/g	0.96	0.36	J	pCi/g	OSB-1C-5-R
OSB-1	R	Thorium-228	OSB-1C-6-R	NONE	480527	1350664	4/15/97	1.50	0.52		pCi/g	1.46	0.52	J	pCi/g	
OSB-1	R	Thorium-228	OSB-1C-7-R	NONE	480570	1350601	4/15/97	0.92	0.35		pCi/g	0.92	0.35	J	pCi/g	
OSB-1	R	Thorium-228	OSB-1C-8-R	NONE	480574	1350653	4/15/97	1.30	0.44		pCi/g	1.29	0.44	J	pCi/g	
OSB-1	R	Thorium-228	OSB-1C-9-R	NONE	480626	1350604	4/15/97	0.60	0.24		pCi/g	0.60	0.24	J	pCi/g	
OSB-1	R	Thorium-232	OSB-1C-1-R	NONE	480414	1350605	4/15/97	0.67	0.26		pCi/g	0.67	0.26	J	pCi/g	
OSB-1	R	Thorium-232	OSB-1C-10-R	NONE	480624	1350624	4/15/97	0.82	0.33		pCi/g	0.82	0.33	J	pCi/g	
OSB-1	R	Thorium-232	OSB-1C-11-R	NONE	480641	1350679	4/15/97	1.50	0.53		pCi/g	1.48	0.53	J	pCi/g	
OSB-1	R	Thorium-232	OSB-1C-12-R	NONE	480596	1350699	4/15/97	1.10	0.41		pCi/g	1.08	0.41	J	pCi/g	
OSB-1	R	Thorium-232	OSB-1C-13-R	NONE	480684	1350598	4/15/97	0.81	0.36		pCi/g	0.81	0.36	J	pCi/g	

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								Laboratory Data				Validation Data					
CU Name	CU Type	Parameter	Sample ID	Suffix	Northing	Easting	Sample Date	Lab Result	TPU	Qualifier	Units	Val. Result	TPU	Qualifier	Units	Duplicate of
OSB-1	R	Thorium-232	OSB-1C-14-R	NONE	480675	1350635	4/15/97	1.10	0.42		pCi/g	1.12	0.42	J	pCi/g	
OSB-1	R	Thorium-232	OSB-1C-15-R	NONE	480671	1350680	4/15/97	1.60	0.53		pCi/g	1.57	0.53	J	pCi/g	
OSB-1	R	Thorium-232	OSB-1C-16-R	NONE	480689	1350697	4/15/97	1.50	0.54		pCi/g	1.47	0.54	J	pCi/g	
OSB-1	R	Thorium-232	OSB-1C-2-R	NONE	480424	1350636	4/15/97	1.50	0.63		pCi/g	1.48	0.63	J	pCi/g	
OSB-1	R	Thorium-232	OSB-1C-3-R	NONE	480451	1350595	4/15/97	0.63	0.28		pCi/g	0.63	0.28	J	pCi/g	
OSB-1	R	Thorium-232	OSB-1C-4-R	NONE	480497	1350644	4/15/97	1.10	0.46		pCi/g	1.13	0.46	J	pCi/g	
OSB-1	R	Thorium-232	OSB-1C-5-R	NONE	480502	1350595	4/15/97	0.75	0.29		pCi/g	0.75	0.29	J	pCi/g	
OSB-1	R	Thorium-232	OSB-1C-5-R-D	NONE	480502	1350595	4/15/97	0.76	0.29		pCi/g	0.76	0.29	J	pCi/g	OSB-1C-5-R
OSB-1	R	Thorium-232	OSB-1C-6-R	NONE	480527	1350664	4/15/97	1.20	0.45		pCi/g	1.25	0.45	J	pCi/g	
OSB-1	R	Thorium-232	OSB-1C-7-R	NONE	480570	1350601	4/15/97	0.84	0.32		pCi/g	0.84	0.32	J	pCi/g	
OSB-1	R	Thorium-232	OSB-1C-8-R	NONE	480574	1350653	4/15/97	1.20	0.42		pCi/g	1.25	0.42	J	pCi/g	
OSB-1	R	Thorium-232	OSB-1C-9-R	NONE	480626	1350604	4/15/97	0.38	0.15		pCi/g	0.38	0.15	J	pCi/g	
OSB-1	R	Uranium, Total	OSB-1C-1-R	NONE	480414	1350605	4/15/97				ug/g	2.93	0.84	-	ug/g	
OSB-1	R	Uranium, Total	OSB-1C-10-R	NONE	480624	1350624	4/15/97				ug/g	2.00	0.68	-	ug/g	
OSB-1	R	Uranium, Total	OSB-1C-11-R	NONE	480641	1350679	4/15/97				ug/g	3.52		U	ug/g	
OSB-1	R	Uranium, Total	OSB-1C-12-R	NONE	480596	1350699	4/15/97				ug/g	1.91	0.74	-	ug/g	
OSB-1	R	Uranium, Total	OSB-1C-13-R	NONE	480684	1350598	4/15/97				ug/g	2.65		U	ug/g	
OSB-1	R	Uranium, Total	OSB-1C-14-R	NONE	480675	1350635	4/15/97				ug/g	3.84	1.86	-	ug/g	
OSB-1	R	Uranium, Total	OSB-1C-15-R	NONE	480671	1350680	4/15/97				ug/g	2.02	1.11	J	ug/g	
OSB-1	R	Uranium, Total	OSB-1C-16-R	NONE	480689	1350697	4/15/97				ug/g	3.17	1.71	J	ug/g	
OSB-1	R	Uranium, Total	OSB-1C-2-R	NONE	480424	1350636	4/15/97				ug/g	5.63	3.48	J	ug/g	
OSB-1	R	Uranium, Total	OSB-1C-3-R	NONE	480451	1350595	4/15/97				ug/g	2.42		U	ug/g	
OSB-1	R	Uranium, Total	OSB-1C-4-R	NONE	480497	1350644	4/15/97				ug/g	7.70	1.50	J	ug/g	
OSB-1	R	Uranium, Total	OSB-1C-5-R	NONE	480502	1350595	4/15/97				ug/g	3.11		U	ug/g	
OSB-1	R	Uranium, Total	OSB-1C-5-R-D	NONE	480502	1350595	4/15/97				ug/g	1.35	0.99	J	ug/g	OSB-1C-5-R
OSB-1	R	Uranium, Total	OSB-1C-6-R	NONE	480527	1350664	4/15/97				ug/g	5.21	1.97	-	ug/g	
OSB-1	R	Uranium, Total	OSB-1C-7-R	NONE	480570	1350601	4/15/97				ug/g	2.96	1.73	J	ug/g	
OSB-1	R	Uranium, Total	OSB-1C-8-R	NONE	480574	1350653	4/15/97				ug/g	5.72	1.33	-	ug/g	
OSB-1	R	Uranium, Total	OSB-1C-9-R	NONE	480626	1350604	4/15/97				ug/g	5.93	1.80	-	ug/g	
OSB-1	R	Uranium-238	OSB-1C-1-R	NONE	480414	1350605	4/15/97	0.98	0.28		pCi/g	0.98	0.28	-	pCi/g	
OSB-1	R	Uranium-238	OSB-1C-10-R	NONE	480624	1350624	4/15/97	0.67	0.23		pCi/g	0.67	0.23	-	pCi/g	
OSB-1	R	Uranium-238	OSB-1C-11-R	NONE	480641	1350679	4/15/97	0.82	0.71	U	pCi/g	1.17		U	pCi/g	
OSB-1	R	Uranium-238	OSB-1C-12-R	NONE	480596	1350699	4/15/97	0.64	0.25		pCi/g	0.64	0.25	-	pCi/g	
OSB-1	R	Uranium-238	OSB-1C-13-R	NONE	480684	1350598	4/15/97	0.27	0.53	U	pCi/g	0.89		U	pCi/g	
OSB-1	R	Uranium-238	OSB-1C-14-R	NONE	480675	1350635	4/15/97	1.30	0.62		pCi/g	1.28	0.62	-	pCi/g	
OSB-1	R	Uranium-238	OSB-1C-15-R	NONE	480671	1350680	4/15/97	0.67	0.37		pCi/g	0.68	0.37	J	pCi/g	
OSB-1	R	Uranium-238	OSB-1C-16-R	NONE	480689	1350697	4/15/97	1.10	0.57		pCi/g	1.06	0.57	J	pCi/g	
OSB-1	R	Uranium-238	OSB-1C-2-R	NONE	480424	1350636	4/15/97	1.90	1.20		pCi/g	1.88	1.16	J	pCi/g	
OSB-1	R	Uranium-238	OSB-1C-3-R	NONE	480451	1350595	4/15/97	0.56	0.49	U	pCi/g	0.81		U	pCi/g	
OSB-1	R	Uranium-238	OSB-1C-3-R	RE	480451	1350595	4/15/97	0.87	0.28		pCi/g	0.87	0.28	Z	pCi/g	

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							Laboratory Data					Validation Data				
CU Name	CU Type	Parameter	Sample ID	Suffix	Northing	Easting	Sample Date	Lab Result	TPU	Qualifier	Units	Val. Result	TPU	Qualifier	Units	Duplicate of
OSB-1	R	Uranium-238	OSB-1C-4-R	NONE	480497	1350644	4/15/97	2.60	0.50		pCi/g	2.57	0.50	J	pCi/g	
OSB-1	R	Uranium-238	OSB-1C-5-R	NONE	480502	1350595	4/15/97	0.56	0.62	U	pCi/g	1.04		U	pCi/g	
OSB-1	R	Uranium-238	OSB-1C-5-R-D	NONE	480502	1350595	4/15/97	0.45	0.33		pCi/g	0.45	0.33	J	pCi/g	OSB-1C-5-R
OSB-1	R	Uranium-238	OSB-1C-6-R	NONE	480527	1350664	4/15/97	1.70	0.66		pCi/g	1.74	0.66	-	pCi/g	
OSB-1	R	Uranium-238	OSB-1C-7-R	NONE	480570	1350601	4/15/97	0.99	0.58		pCi/g	0.99	0.58	J	pCi/g	
OSB-1	R	Uranium-238	OSB-1C-8-R	NONE	480574	1350653	4/15/97	1.90	0.45		pCi/g	1.91	0.45	-	pCi/g	
OSB-1	R	Uranium-238	OSB-1C-9-R	NONE	480626	1350604	4/15/97	2.00	0.60		pCi/g	1.98	0.60	-	pCi/g	
OSB-2	M	Aroclor-1260	OSB-2C-1-MP	NONE	480632	1350751	4/1/97	42.00		U	ug/kg	42.00		U	ug/kg	
OSB-2	M	Aroclor-1260	OSB-2C-10-MP	NONE	480781	1350780	4/2/97	38.00		U	ug/kg	38.00		U	ug/kg	
OSB-2	M	Aroclor-1260	OSB-2C-11-MP	NONE	480750	1350812	4/2/97	38.00		U	ug/kg	38.00		U	ug/kg	
OSB-2	M	Aroclor-1260	OSB-2C-12-MP	NONE	480787	1350831	4/2/97	37.00		U	ug/kg	37.00		U	ug/kg	
OSB-2	M	Aroclor-1260	OSB-2C-13-MP	NONE	480866	1350726	4/17/97	36.00		U	ug/kg	36.00		U	ug/kg	
OSB-2	M	Aroclor-1260	OSB-2C-14-MP	NONE	480815	1350780	4/2/97	37.00		U	ug/kg	37.00		U	ug/kg	
OSB-2	M	Aroclor-1260	OSB-2C-15-MP	NONE	480851	1350791	4/2/97	37.00		U	ug/kg	37.00		U	ug/kg	
OSB-2	M	Aroclor-1260	OSB-2C-16-MP	NONE	480853	1350854	4/2/97	41.00		U	ug/kg	41.00		U	ug/kg	
OSB-2	M	Aroclor-1260	OSB-2C-2-MP	NONE	480649	1350776	4/1/97	41.00		U	ug/kg	41.00		U	ug/kg	
OSB-2	M	Aroclor-1260	OSB-2C-3-MP	NONE	480639	1350792	4/1/97	40.00		U	ug/kg	40.00		U	ug/kg	
OSB-2	M	Aroclor-1260	OSB-2C-4-MP	NONE	480642	1350828	4/1/97	41.00		U	ug/kg	41.00		U	ug/kg	
OSB-2	M	Aroclor-1260	OSB-2C-5-MP	NONE	480700	1350737	4/1/97	42.00		U	ug/kg	42.00		U	ug/kg	
OSB-2	M	Aroclor-1260	OSB-2C-6-MP	NONE	480705	1350779	4/1/97	38.00		U	ug/kg	38.00		U	ug/kg	
OSB-2	M	Aroclor-1260	OSB-2C-7-MP	NONE	480684	1350811	4/1/97	41.00		U	ug/kg	41.00		U	ug/kg	
OSB-2	M	Aroclor-1260	OSB-2C-8-MP	NONE	480702	1350837	4/1/97	39.00		U	ug/kg	39.00		U	ug/kg	
OSB-2	M	Aroclor-1260	OSB-2C-8-MP-D	NONE	480702	1350837	4/1/97	40.00		U	ug/kg	40.00		U	ug/kg	OSB-2C-8-MP
OSB-2	M	Aroclor-1260	OSB-2C-9-MP	NONE	480779	1350737	4/2/97	38.00		U	ug/kg	38.00		U	ug/kg	
OSB-2	M	Arsenic	OSB-2C-1-MP	NONE	480632	1350751	4/1/97	17.20		N	mg/kg	17.20		-	mg/kg	
OSB-2	M	Arsenic	OSB-2C-10-MP	NONE	480781	1350780	4/2/97	7.70		N	mg/kg	7.70		-	mg/kg	
OSB-2	M	Arsenic	OSB-2C-11-MP	NONE	480750	1350812	4/2/97	5.30		N	mg/kg	5.30		-	mg/kg	
OSB-2	M	Arsenic	OSB-2C-12-MP	NONE	480787	1350831	4/2/97	4.00		N	mg/kg	4.00		U	mg/kg	
OSB-2	M	Arsenic	OSB-2C-13-MP	NONE	480866	1350726	4/17/97	5.80			mg/kg	5.80		-	mg/kg	
OSB-2	M	Arsenic	OSB-2C-14-MP	NONE	480815	1350780	4/2/97	5.60		N	mg/kg	5.60		-	mg/kg	
OSB-2	M	Arsenic	OSB-2C-15-MP	NONE	480851	1350791	4/2/97	6.90		N	mg/kg	6.90		-	mg/kg	
OSB-2	M	Arsenic	OSB-2C-16-MP	NONE	480853	1350854	4/2/97	7.00		N	mg/kg	7.00		-	mg/kg	
OSB-2	M	Arsenic	OSB-2C-2-MP	NONE	480649	1350776	4/1/97	15.00		N	mg/kg	15.00		-	mg/kg	
OSB-2	M	Arsenic	OSB-2C-3-MP	NONE	480639	1350792	4/1/97	12.20		N	mg/kg	12.20		-	mg/kg	
OSB-2	M	Arsenic	OSB-2C-4-MP	NONE	480642	1350828	4/1/97	15.50		N	mg/kg	15.50		-	mg/kg	
OSB-2	M	Arsenic	OSB-2C-5-MP	NONE	480700	1350737	4/1/97	14.80		N	mg/kg	14.80		-	mg/kg	
OSB-2	M	Arsenic	OSB-2C-6-MP	NONE	480705	1350779	4/1/97	7.80		N	mg/kg	7.80		-	mg/kg	
OSB-2	M	Arsenic	OSB-2C-7-MP	NONE	480684	1350811	4/1/97	11.20		N	mg/kg	11.20		-	mg/kg	
OSB-2	M	Arsenic	OSB-2C-8-MP	NONE	480702	1350837	4/1/97	6.90		N	mg/kg	6.90		-	mg/kg	

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							Laboratory Data					Validation Data				
CU Name	CU Type	Parameter	Sample ID	Suffix	Northing	Easting	Sample Date	Lab Result	TPU	Qualifier	Units	Val. Result	TPU	Qualifier	Units	Duplicate of
OSB-2	M	Arsenic	OSB-2C-8-MP-D	NONE	480702	1350837	4/1/97	8.70		N	mg/kg	8.70		-	mg/kg	OSB-2C-8-MP
OSB-2	M	Arsenic	OSB-2C-9-MP	NONE	480779	1350737	4/2/97	5.70		N	mg/kg	5.70		-	mg/kg	
OSB-2	M	Beryllium	OSB-2C-1-MP	NONE	480632	1350751	4/1/97	1.50			mg/kg	1.50		U	mg/kg	
OSB-2	M	Beryllium	OSB-2C-10-MP	NONE	480781	1350780	4/2/97	0.96			mg/kg	0.96		U	mg/kg	
OSB-2	M	Beryllium	OSB-2C-11-MP	NONE	480750	1350812	4/2/97	0.63			mg/kg	0.63		U	mg/kg	
OSB-2	M	Beryllium	OSB-2C-12-MP	NONE	480787	1350831	4/2/97	0.67			mg/kg	0.67		U	mg/kg	
OSB-2	M	Beryllium	OSB-2C-13-MP	NONE	480866	1350726	4/17/97	0.58			mg/kg	0.58		-	mg/kg	
OSB-2	M	Beryllium	OSB-2C-14-MP	NONE	480815	1350780	4/2/97	0.77			mg/kg	0.77		U	mg/kg	
OSB-2	M	Beryllium	OSB-2C-15-MP	NONE	480851	1350791	4/2/97	0.88			mg/kg	0.88		U	mg/kg	
OSB-2	M	Beryllium	OSB-2C-16-MP	NONE	480853	1350854	4/2/97	0.79			mg/kg	0.79		U	mg/kg	
OSB-2	M	Beryllium	OSB-2C-2-MP	NONE	480649	1350776	4/1/97	1.10			mg/kg	1.10		U	mg/kg	
OSB-2	M	Beryllium	OSB-2C-3-MP	NONE	480639	1350792	4/1/97	0.90			mg/kg	0.90		U	mg/kg	
OSB-2	M	Beryllium	OSB-2C-4-MP	NONE	480642	1350828	4/1/97	1.70			mg/kg	1.70		U	mg/kg	
OSB-2	M	Beryllium	OSB-2C-5-MP	NONE	480700	1350737	4/1/97	1.80			mg/kg	1.80		-	mg/kg	
OSB-2	M	Beryllium	OSB-2C-6-MP	NONE	480705	1350779	4/1/97	0.83			mg/kg	0.83		U	mg/kg	
OSB-2	M	Beryllium	OSB-2C-7-MP	NONE	480684	1350811	4/1/97	1.20			mg/kg	1.20		U	mg/kg	
OSB-2	M	Beryllium	OSB-2C-8-MP	NONE	480702	1350837	4/1/97	0.79			mg/kg	0.79		U	mg/kg	
OSB-2	M	Beryllium	OSB-2C-8-MP-D	NONE	480702	1350837	4/1/97	0.97			mg/kg	0.97		U	mg/kg	OSB-2C-8-MP
OSB-2	M	Beryllium	OSB-2C-9-MP	NONE	480779	1350737	4/2/97	0.80			mg/kg	0.80		U	mg/kg	
OSB-2	R	Moisture Content	OSB-2C-1-R	NONE	480632	1350751	4/1/97	0.21			Percent			NV	Percent	
OSB-2	R	Moisture Content	OSB-2C-10-R	NONE	480781	1350780	4/2/97	0.13			Percent			NV	Percent	
OSB-2	R	Moisture Content	OSB-2C-11-R	NONE	480750	1350812	4/2/97	0.14			Percent			NV	Percent	
OSB-2	R	Moisture Content	OSB-2C-12-R	NONE	480787	1350831	4/2/97	0.12			Percent			NV	Percent	
OSB-2	R	Moisture Content	OSB-2C-13-R	NONE	480866	1350726	4/17/97	10.60			Percent			NV	Percent	
OSB-2	R	Moisture Content	OSB-2C-14-R	NONE	480815	1350780	4/2/97	0.12			Percent			NV	Percent	
OSB-2	R	Moisture Content	OSB-2C-15-R	NONE	480851	1350791	4/2/97	0.12			Percent			NV	Percent	
OSB-2	R	Moisture Content	OSB-2C-16-R	NONE	480853	1350854	4/2/97	0.19			Percent			NV	Percent	
OSB-2	R	Moisture Content	OSB-2C-2-R	NONE	480649	1350776	4/1/97	0.20			Percent			NV	Percent	
OSB-2	R	Moisture Content	OSB-2C-3-R	NONE	480639	1350792	4/1/97	0.19			Percent			NV	Percent	
OSB-2	R	Moisture Content	OSB-2C-4-R	NONE	480642	1350828	4/1/97	0.21			Percent			NV	Percent	
OSB-2	R	Moisture Content	OSB-2C-5-R	NONE	480700	1350737	4/1/97	0.20			Percent			NV	Percent	
OSB-2	R	Moisture Content	OSB-2C-6-R	NONE	480705	1350779	4/1/97	0.18			Percent			NV	Percent	
OSB-2	R	Moisture Content	OSB-2C-7-R	NONE	480684	1350811	4/1/97	0.19			Percent			NV	Percent	
OSB-2	R	Moisture Content	OSB-2C-8-R	NONE	480702	1350837	4/1/97	0.17			Percent			NV	Percent	
OSB-2	R	Moisture Content	OSB-2C-8-R-D	NONE	480702	1350837	4/1/97	0.17			Percent			NV	Percent	OSB-2C-8-R
OSB-2	R	Moisture Content	OSB-2C-9-R	NONE	480779	1350737	4/2/97	0.10			Percent			NV	Percent	
OSB-2	R	Radium-226	OSB-2C-1-R	NONE	480632	1350751	4/1/97	1.50	0.21		pCi/g	1.52	0.21	-	pCi/g	
OSB-2	R	Radium-226	OSB-2C-10-R	NONE	480781	1350780	4/2/97	1.10	0.16		pCi/g	1.06	0.16	J	pCi/g	
OSB-2	R	Radium-226	OSB-2C-11-R	NONE	480750	1350812	4/2/97	1.20	0.17		pCi/g	1.15	0.17	J	pCi/g	
OSB-2	R	Radium-226	OSB-2C-12-R	NONE	480787	1350831	4/2/97	1.00	0.18		pCi/g	1.02	0.18	-	pCi/g	

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CU Name	CU Type	Parameter	Sample ID	Suffix	Northing	Easting	Sample Date	Laboratory Data				Validation Data				
								Lab Result	TPU	Qualifier	Units	Val. Result	TPU	Qualifier	Units	Duplicate of
OSB-2	R	Radium-226	OSB-2C-13-R	NONE	480866	1350726	4/17/97	1.00	0.14		pCi/g	1.02	0.14	J	pCi/g	
OSB-2	R	Radium-226	OSB-2C-14-R	NONE	480815	1350780	4/2/97	0.91	0.16		pCi/g	0.91	0.16	J	pCi/g	
OSB-2	R	Radium-226	OSB-2C-15-R	NONE	480851	1350791	4/2/97	0.87	0.14		pCi/g	0.87	0.14	-	pCi/g	
OSB-2	R	Radium-226	OSB-2C-16-R	NONE	480853	1350854	4/2/97	1.40	0.20		pCi/g	1.41	0.20	-	pCi/g	
OSB-2	R	Radium-226	OSB-2C-2-R	NONE	480649	1350776	4/1/97	1.30	0.20		pCi/g	1.34	0.20	-	pCi/g	
OSB-2	R	Radium-226	OSB-2C-3-R	NONE	480639	1350792	4/1/97	1.30	0.19		pCi/g	1.31	0.19	-	pCi/g	
OSB-2	R	Radium-226	OSB-2C-4-R	NONE	480642	1350828	4/1/97	1.50	0.31		pCi/g	1.49	0.31	-	pCi/g	
OSB-2	R	Radium-226	OSB-2C-5-R	NONE	480700	1350737	4/1/97	1.40	0.20		pCi/g	1.41	0.20	J	pCi/g	
OSB-2	R	Radium-226	OSB-2C-6-R	NONE	480705	1350779	4/1/97	1.10	0.17		pCi/g	1.12	0.17	J	pCi/g	
OSB-2	R	Radium-226	OSB-2C-7-R	NONE	480684	1350811	4/1/97	1.20	0.17		pCi/g	1.21	0.17	J	pCi/g	
OSB-2	R	Radium-226	OSB-2C-8-R	NONE	480702	1350837	4/1/97	0.99	0.15		pCi/g	0.99	0.15	J	pCi/g	
OSB-2	R	Radium-226	OSB-2C-8-R-D	NONE	480702	1350837	4/1/97	0.98	0.15		pCi/g	0.98	0.15	J	pCi/g	OSB-2C-8-R
OSB-2	R	Radium-226	OSB-2C-9-R	NONE	480779	1350737	4/2/97	0.69	0.11		pCi/g	0.69	0.11	J	pCi/g	
OSB-2	R	Radium-228	OSB-2C-1-R	NONE	480632	1350751	4/1/97	1.30	0.27		pCi/g	1.33	0.27	-	pCi/g	
OSB-2	R	Radium-228	OSB-2C-10-R	NONE	480781	1350780	4/2/97	0.99	0.25		pCi/g	0.99	0.25	J	pCi/g	
OSB-2	R	Radium-228	OSB-2C-11-R	NONE	480750	1350812	4/2/97	1.20	0.25		pCi/g	1.20	0.25	J	pCi/g	
OSB-2	R	Radium-228	OSB-2C-12-R	NONE	480787	1350831	4/2/97	0.85	0.25		pCi/g	0.85	0.25	-	pCi/g	
OSB-2	R	Radium-228	OSB-2C-13-R	NONE	480866	1350726	4/17/97	0.92	0.28		pCi/g	0.93	0.28	-	pCi/g	
OSB-2	R	Radium-228	OSB-2C-14-R	NONE	480815	1350780	4/2/97	0.98	0.26		pCi/g	0.98	0.26	J	pCi/g	
OSB-2	R	Radium-228	OSB-2C-15-R	NONE	480851	1350791	4/2/97	0.95	0.23		pCi/g	0.95	0.23	-	pCi/g	
OSB-2	R	Radium-228	OSB-2C-16-R	NONE	480853	1350854	4/2/97	1.50	0.31		pCi/g	1.49	0.31	-	pCi/g	
OSB-2	R	Radium-228	OSB-2C-2-R	NONE	480649	1350776	4/1/97	1.30	0.28		pCi/g	1.34	0.28	-	pCi/g	
OSB-2	R	Radium-228	OSB-2C-3-R	NONE	480639	1350792	4/1/97	1.30	0.26		pCi/g	1.32	0.26	-	pCi/g	
OSB-2	R	Radium-228	OSB-2C-4-R	NONE	480642	1350828	4/1/97	1.60	0.42		pCi/g	1.59	0.42	-	pCi/g	
OSB-2	R	Radium-228	OSB-2C-5-R	NONE	480700	1350737	4/1/97	1.30	0.27		pCi/g	1.30	0.27	J	pCi/g	
OSB-2	R	Radium-228	OSB-2C-6-R	NONE	480705	1350779	4/1/97	1.20	0.24		pCi/g	1.16	0.24	J	pCi/g	
OSB-2	R	Radium-228	OSB-2C-7-R	NONE	480684	1350811	4/1/97	1.30	0.23		pCi/g	1.25	0.23	J	pCi/g	
OSB-2	R	Radium-228	OSB-2C-8-R	NONE	480702	1350837	4/1/97	0.95	0.26		pCi/g	0.95	0.26	J	pCi/g	
OSB-2	R	Radium-228	OSB-2C-8-R-D	NONE	480702	1350837	4/1/97	0.89	0.24		pCi/g	0.89	0.24	J	pCi/g	OSB-2C-8-R
OSB-2	R	Radium-228	OSB-2C-9-R	NONE	480779	1350737	4/2/97	0.81	0.20		pCi/g	0.81	0.20	J	pCi/g	
OSB-2	R	Thorium-228	OSB-2C-1-R	NONE	480632	1350751	4/1/97	1.20	0.36		pCi/g	1.28	0.29	-	pCi/g	
OSB-2	R	Thorium-228	OSB-2C-10-R	NONE	480781	1350780	4/2/97	1.10	0.35		pCi/g	1.23	0.26	-	pCi/g	
OSB-2	R	Thorium-228	OSB-2C-11-R	NONE	480750	1350812	4/2/97	1.00	0.34		pCi/g	1.01	0.26	-	pCi/g	
OSB-2	R	Thorium-228	OSB-2C-12-R	NONE	480787	1350831	4/2/97	0.96	0.26		pCi/g	0.96	0.21	-	pCi/g	
OSB-2	R	Thorium-228	OSB-2C-13-R	NONE	480866	1350726	4/17/97	0.85	0.33		pCi/g	0.85	0.33	J	pCi/g	
OSB-2	R	Thorium-228	OSB-2C-14-R	NONE	480815	1350780	4/2/97	0.94	0.31		pCi/g	0.94	0.24	-	pCi/g	
OSB-2	R	Thorium-228	OSB-2C-15-R	NONE	480851	1350791	4/2/97	0.97	0.35		pCi/g	1.08	0.26	-	pCi/g	
OSB-2	R	Thorium-228	OSB-2C-16-R	NONE	480853	1350854	4/2/97	1.50	0.35		pCi/g	1.53	0.31	-	pCi/g	
OSB-2	R	Thorium-228	OSB-2C-2-R	NONE	480649	1350776	4/1/97	1.10	0.29		pCi/g	1.21	0.25	-	pCi/g	
OSB-2	R	Thorium-228	OSB-2C-3-R	NONE	480639	1350792	4/1/97	1.20	0.34		pCi/g	1.25	0.27	-	pCi/g	

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							Laboratory Data				Validation Data				
CU Name	CU Type	Parameter	Sample ID	Suffix	Northing	Easting	Sample Date	Lab Result	TPU	Qualifier	Units	Val. Result	TPU	Qualifier	Units	Duplicate of
OSB-2	R	Thorium-228	OSB-2C-4-R	NONE	480642	1350828	4/1/97	1.10	0.33		pCi/g	1.22	0.27	-	pCi/g	
OSB-2	R	Thorium-228	OSB-2C-5-R	NONE	480700	1350737	4/1/97	1.50	0.32		pCi/g	1.47	0.29	-	pCi/g	
OSB-2	R	Thorium-228	OSB-2C-6-R	NONE	480705	1350779	4/1/97	0.74	0.33		pCi/g	0.81	0.26	-	pCi/g	
OSB-2	R	Thorium-228	OSB-2C-7-R	NONE	480684	1350811	4/1/97	1.20	0.31		pCi/g	1.30	0.27	-	pCi/g	
OSB-2	R	Thorium-228	OSB-2C-8-R	NONE	480702	1350837	4/1/97	1.10	0.30		pCi/g	1.12	0.24	-	pCi/g	
OSB-2	R	Thorium-228	OSB-2C-8-R-D	NONE	480702	1350837	4/1/97	0.98	0.30		pCi/g	1.05	0.24	-	pCi/g	OSB-2C-8-R
OSB-2	R	Thorium-228	OSB-2C-9-R	NONE	480779	1350737	4/2/97	0.83	0.30		pCi/g	0.91	0.22	-	pCi/g	
OSB-2	R	Thorium-232	OSB-2C-1-R	NONE	480632	1350751	4/1/97	1.10	0.25		pCi/g	1.14	0.25	-	pCi/g	
OSB-2	R	Thorium-232	OSB-2C-10-R	NONE	480781	1350780	4/2/97	0.82	0.21		pCi/g	0.87	0.20	-	pCi/g	
OSB-2	R	Thorium-232	OSB-2C-11-R	NONE	480750	1350812	4/2/97	0.92	0.24		pCi/g	0.95	0.22	-	pCi/g	
OSB-2	R	Thorium-232	OSB-2C-12-R	NONE	480787	1350831	4/2/97	0.82	0.19		pCi/g	0.84	0.18	-	pCi/g	
OSB-2	R	Thorium-232	OSB-2C-13-R	NONE	480866	1350726	4/17/97	0.71	0.28		pCi/g	0.71	0.28	J	pCi/g	
OSB-2	R	Thorium-232	OSB-2C-14-R	NONE	480815	1350780	4/2/97	0.66	0.20		pCi/g	0.70	0.18	-	pCi/g	
OSB-2	R	Thorium-232	OSB-2C-15-R	NONE	480851	1350791	4/2/97	0.72	0.20		pCi/g	0.77	0.19	-	pCi/g	
OSB-2	R	Thorium-232	OSB-2C-16-R	NONE	480853	1350854	4/2/97	1.00	0.23		pCi/g	1.08	0.23	-	pCi/g	
OSB-2	R	Thorium-232	OSB-2C-2-R	NONE	480649	1350776	4/1/97	1.00	0.22		pCi/g	1.07	0.22	-	pCi/g	
OSB-2	R	Thorium-232	OSB-2C-3-R	NONE	480639	1350792	4/1/97	1.10	0.24		pCi/g	1.13	0.24	-	pCi/g	
OSB-2	R	Thorium-232	OSB-2C-4-R	NONE	480642	1350828	4/1/97	1.20	0.27		pCi/g	1.29	0.27	-	pCi/g	
OSB-2	R	Thorium-232	OSB-2C-5-R	NONE	480700	1350737	4/1/97	1.20	0.25		pCi/g	1.28	0.25	-	pCi/g	
OSB-2	R	Thorium-232	OSB-2C-6-R	NONE	480705	1350779	4/1/97	0.77	0.22		pCi/g	0.81	0.21	-	pCi/g	
OSB-2	R	Thorium-232	OSB-2C-7-R	NONE	480684	1350811	4/1/97	0.98	0.21		pCi/g	1.01	0.21	-	pCi/g	
OSB-2	R	Thorium-232	OSB-2C-8-R	NONE	480702	1350837	4/1/97	0.89	0.20		pCi/g	0.93	0.20	-	pCi/g	
OSB-2	R	Thorium-232	OSB-2C-8-R-D	NONE	480702	1350837	4/1/97	0.88	0.22		pCi/g	0.92	0.21	-	pCi/g	OSB-2C-8-R
OSB-2	R	Thorium-232	OSB-2C-9-R	NONE	480779	1350737	4/2/97	0.55	0.17		pCi/g	0.59	0.16	-	pCi/g	
OSB-2	R	Uranium, Total	OSB-2C-1-R	NONE	480632	1350751	4/1/97				ug/g	5.42	3.45	J	ug/g	
OSB-2	R	Uranium, Total	OSB-2C-10-R	NONE	480781	1350780	4/2/97				ug/g	4.36	3.84	J	ug/g	
OSB-2	R	Uranium, Total	OSB-2C-11-R	NONE	480750	1350812	4/2/97				ug/g	10.40	5.15	J	ug/g	
OSB-2	R	Uranium, Total	OSB-2C-12-R	NONE	480787	1350831	4/2/97				ug/g	6.48	4.37	J	ug/g	
OSB-2	R	Uranium, Total	OSB-2C-13-R	NONE	480866	1350726	4/17/97				ug/g	6.34	2.36	-	ug/g	
OSB-2	R	Uranium, Total	OSB-2C-14-R	NONE	480815	1350780	4/2/97				ug/g	12.93	4.40	J	ug/g	
OSB-2	R	Uranium, Total	OSB-2C-15-R	NONE	480851	1350791	4/2/97				ug/g	5.65	3.61	J	ug/g	
OSB-2	R	Uranium, Total	OSB-2C-16-R	NONE	480853	1350854	4/2/97				ug/g	14.94	5.54	-	ug/g	
OSB-2	R	Uranium, Total	OSB-2C-2-R	NONE	480649	1350776	4/1/97				ug/g	5.31	4.41	J	ug/g	
OSB-2	R	Uranium, Total	OSB-2C-3-R	NONE	480639	1350792	4/1/97				ug/g	5.86	5.81	J	ug/g	
OSB-2	R	Uranium, Total	OSB-2C-4-R	NONE	480642	1350828	4/1/97				ug/g	4.81		U	ug/g	
OSB-2	R	Uranium, Total	OSB-2C-5-R	NONE	480700	1350737	4/1/97				ug/g	3.87	3.56	J	ug/g	
OSB-2	R	Uranium, Total	OSB-2C-6-R	NONE	480705	1350779	4/1/97				ug/g	3.76	3.49	J	ug/g	
OSB-2	R	Uranium, Total	OSB-2C-7-R	NONE	480684	1350811	4/1/97				ug/g	4.04	2.48	J	ug/g	
OSB-2	R	Uranium, Total	OSB-2C-8-R	NONE	480702	1350837	4/1/97				ug/g	3.24	4.59	J	ug/g	
OSB-2	R	Uranium, Total	OSB-2C-8-R-D	NONE	480702	1350837	4/1/97				ug/g	3.82	3.80	J	ug/g	OSB-2C-8-R

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								Laboratory Data				Validation Data				
CU Name	CU Type	Parameter	Sample ID	Suffix	Northing	Easting	Sample Date	Lab Result	TPU	Qualifier	Units	Val. Result	TPU	Qualifier	Units	Duplicate of
OSB-2	R	Uranium, Total	OSB-2C-9-R	NONE	480779	1350737	4/2/97				ug/g	3.90	2.72	J	ug/g	
OSB-2	R	Uranium-238	OSB-2C-1-R	NONE	480632	1350751	4/1/97	1.80	1.20		pCi/g	1.81	1.15	J	pCi/g	
OSB-2	R	Uranium-238	OSB-2C-10-R	NONE	480781	1350780	4/2/97	1.50	1.30		pCi/g	1.45	1.28	J	pCi/g	
OSB-2	R	Uranium-238	OSB-2C-11-R	NONE	480750	1350812	4/2/97	3.50	1.70		pCi/g	3.47	1.72	J	pCi/g	
OSB-2	R	Uranium-238	OSB-2C-12-R	NONE	480787	1350831	4/2/97	2.20	1.50		pCi/g	2.16	1.46	J	pCi/g	
OSB-2	R	Uranium-238	OSB-2C-13-R	NONE	480866	1350726	4/17/97	2.10	0.79		pCi/g	2.11	0.79	-	pCi/g	
OSB-2	R	Uranium-238	OSB-2C-14-R	NONE	480815	1350780	4/2/97	4.30	1.50		pCi/g	4.31	1.47	J	pCi/g	
OSB-2	R	Uranium-238	OSB-2C-15-R	NONE	480851	1350791	4/2/97	1.90	1.20		pCi/g	1.88	1.21	J	pCi/g	
OSB-2	R	Uranium-238	OSB-2C-16-R	NONE	480853	1350854	4/2/97	5.00	1.90		pCi/g	4.98	1.85	-	pCi/g	
OSB-2	R	Uranium-238	OSB-2C-2-R	NONE	480649	1350776	4/1/97	1.80	1.50		pCi/g	1.77	1.47	J	pCi/g	
OSB-2	R	Uranium-238	OSB-2C-3-R	NONE	480639	1350792	4/1/97	2.00	1.90		pCi/g	1.95	1.94	J	pCi/g	
OSB-2	R	Uranium-238	OSB-2C-4-R	NONE	480642	1350828	4/1/97	0.43	1.90		pCi/g	1.60		U	pCi/g	
OSB-2	R	Uranium-238	OSB-2C-5-R	NONE	480700	1350737	4/1/97	1.30	1.20		pCi/g	1.29	1.19	J	pCi/g	
OSB-2	R	Uranium-238	OSB-2C-6-R	NONE	480705	1350779	4/1/97	1.30	1.20		pCi/g	1.26	1.16	J	pCi/g	
OSB-2	R	Uranium-238	OSB-2C-7-R	NONE	480684	1350811	4/1/97	1.30	0.83		pCi/g	1.35	0.83	J	pCi/g	
OSB-2	R	Uranium-238	OSB-2C-8-R	NONE	480702	1350837	4/1/97	1.10	1.50		pCi/g	1.08	1.53	J	pCi/g	
OSB-2	R	Uranium-238	OSB-2C-8-R-D	NONE	480702	1350837	4/1/97	1.30	1.30		pCi/g	1.27	1.27	J	pCi/g	OSB-2C-8-R
OSB-2	R	Uranium-238	OSB-2C-9-R	NONE	480779	1350737	4/2/97	1.30	0.91		pCi/g	1.30	0.91	J	pCi/g	
OSB-3	M	Aroclor-1260	OSB-3C-1-MP	NONE	480738	1350602	4/15/97	37.00		U	ug/kg	37.00		U	ug/kg	
OSB-3	M	Aroclor-1260	OSB-3C-10-MP	NONE	480838	1350651	4/14/97	40.00		U	ug/kg	40.00		U	ug/kg	
OSB-3	M	Aroclor-1260	OSB-3C-11-MP	NONE	480815	1350673	4/14/97	39.00		U	ug/kg	39.00		U	ug/kg	
OSB-3	M	Aroclor-1260	OSB-3C-12-MP	NONE	480825	1350704	4/15/97	38.00		U	ug/kg	38.00		U	ug/kg	
OSB-3	M	Aroclor-1260	OSB-3C-12-MP-D	NONE	480825	1350704	4/15/97	41.00		U	ug/kg	41.00		U	ug/kg	OSB-3C-12-MP
OSB-3	M	Aroclor-1260	OSB-3C-13-MP	NONE	480871	1350607	4/14/97	41.00		U	ug/kg	41.00		U	ug/kg	
OSB-3	M	Aroclor-1260	OSB-3C-14-MP	NONE	480898	1350625	4/14/97	39.00		U	ug/kg	39.00		U	ug/kg	
OSB-3	M	Aroclor-1260	OSB-3C-15-MP	NONE	480888	1350680	4/14/97	38.00		U	ug/kg	38.00		U	ug/kg	
OSB-3	M	Aroclor-1260	OSB-3C-16-MP	NONE	480891	1350714	4/14/97	38.00		U	ug/kg	38.00		U	ug/kg	
OSB-3	M	Aroclor-1260	OSB-3C-2-MP	NONE	480709	1350652	4/15/97	41.00		U	ug/kg	41.00		U	ug/kg	
OSB-3	M	Aroclor-1260	OSB-3C-3-MP	NONE	480749	1350679	4/15/97	42.00		U	ug/kg	42.00		U	ug/kg	
OSB-3	M	Aroclor-1260	OSB-3C-4-MP	NONE	480724	1350698	4/15/97	42.00		U	ug/kg	42.00		U	ug/kg	
OSB-3	M	Aroclor-1260	OSB-3C-5-MP	NONE	480755	1350596	4/15/97	38.00		U	ug/kg	38.00		U	ug/kg	
OSB-3	M	Aroclor-1260	OSB-3C-6-MP	NONE	480800	1350631	4/14/97	41.00		U	ug/kg	41.00		U	ug/kg	
OSB-3	M	Aroclor-1260	OSB-3C-7-MP	NONE	480768	1350654	4/14/97	38.00		U	ug/kg	38.00		U	ug/kg	
OSB-3	M	Aroclor-1260	OSB-3C-8-MP	NONE	480779	1350689	4/15/97	38.00		U	ug/kg	38.00		U	ug/kg	
OSB-3	M	Aroclor-1260	OSB-3C-9-MP	NONE	480834	1350603	4/14/97	41.00		U	ug/kg	41.00		U	ug/kg	
OSB-3	M	Arsenic	OSB-3C-1-MP	NONE	480738	1350602	4/15/97	5.90		•	mg/kg	5.90		-	mg/kg	
OSB-3	M	Arsenic	OSB-3C-10-MP	NONE	480838	1350651	4/14/97	9.00			mg/kg	9.00		-	mg/kg	
OSB-3	M	Arsenic	OSB-3C-11-MP	NONE	480815	1350673	4/14/97	7.40			mg/kg	7.40		-	mg/kg	
OSB-3	M	Arsenic	OSB-3C-12-MP	NONE	480825	1350704	4/15/97	6.70		•	mg/kg	6.70		-	mg/kg	

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A1P1 CERTIFICATION REPORT - APPENDIX B

							Laboratory Data				Validation Data				
CU Name	CU Type	Parameter	Sample ID	Suffix	Northing	Easting	Sample Date	Lab Result	TPU	Qualifier	Units	Val. Result	TPU	Qualifier	Units	Duplicate of
OSB-3	M	Arsenic	OSB-3C-12-MP-D	NONE	480825	1350704	4/15/97	7.60		•	mg/kg	7.60		-	mg/kg	OSB-3C-12-MP
OSB-3	M	Arsenic	OSB-3C-13-MP	NONE	480871	1350607	4/14/97	6.20			mg/kg	6.20		-	mg/kg	
OSB-3	M	Arsenic	OSB-3C-14-MP	NONE	480898	1350625	4/14/97	8.20			mg/kg	8.20		-	mg/kg	
OSB-3	M	Arsenic	OSB-3C-15-MP	NONE	480888	1350680	4/14/97	8.30			mg/kg	8.30		-	mg/kg	
OSB-3	M	Arsenic	OSB-3C-16-MP	NONE	480891	1350714	4/14/97	7.10			mg/kg	7.10		-	mg/kg	
OSB-3	M	Arsenic	OSB-3C-2-MP	NONE	480709	1350652	4/15/97	6.60		•	mg/kg	6.60		-	mg/kg	
OSB-3	M	Arsenic	OSB-3C-3-MP	NONE	480749	1350679	4/15/97	11.70		•	mg/kg	11.70		-	mg/kg	
OSB-3	M	Arsenic	OSB-3C-4-MP	NONE	480724	1350698	4/15/97	12.30		•	mg/kg	12.30		-	mg/kg	
OSB-3	M	Arsenic	OSB-3C-5-MP	NONE	480755	1350596	4/15/97	6.00		•	mg/kg	6.00		-	mg/kg	
OSB-3	M	Arsenic	OSB-3C-6-MP	NONE	480800	1350631	4/14/97	8.00			mg/kg	8.00		-	mg/kg	
OSB-3	M	Arsenic	OSB-3C-7-MP	NONE	480768	1350654	4/14/97	6.20			mg/kg	6.20		-	mg/kg	
OSB-3	M	Arsenic	OSB-3C-8-MP	NONE	480779	1350689	4/15/97	6.30		•	mg/kg	6.30		-	mg/kg	
OSB-3	M	Arsenic	OSB-3C-9-MP	NONE	480834	1350603	4/14/97	10.70			mg/kg	10.70		-	mg/kg	
OSB-3	M	Beryllium	OSB-3C-1-MP	NONE	480738	1350602	4/15/97	0.45		B	mg/kg	0.45		-	mg/kg	
OSB-3	M	Beryllium	OSB-3C-10-MP	NONE	480838	1350651	4/14/97	1.00			mg/kg	1.00		-	mg/kg	
OSB-3	M	Beryllium	OSB-3C-11-MP	NONE	480815	1350673	4/14/97	0.84			mg/kg	0.84		-	mg/kg	
OSB-3	M	Beryllium	OSB-3C-12-MP	NONE	480825	1350704	4/15/97	0.67			mg/kg	0.67		-	mg/kg	
OSB-3	M	Beryllium	OSB-3C-12-MP-D	NONE	480825	1350704	4/15/97	0.81			mg/kg	0.81		-	mg/kg	OSB-3C-12-MP
OSB-3	M	Beryllium	OSB-3C-13-MP	NONE	480871	1350607	4/14/97	1.20			mg/kg	1.20		-	mg/kg	
OSB-3	M	Beryllium	OSB-3C-14-MP	NONE	480898	1350625	4/14/97	1.00			mg/kg	1.00		-	mg/kg	
OSB-3	M	Beryllium	OSB-3C-15-MP	NONE	480888	1350680	4/14/97	0.98			mg/kg	0.98		-	mg/kg	
OSB-3	M	Beryllium	OSB-3C-16-MP	NONE	480891	1350714	4/14/97	0.71			mg/kg	0.71		-	mg/kg	
OSB-3	M	Beryllium	OSB-3C-2-MP	NONE	480709	1350652	4/15/97	0.64			mg/kg	0.64		-	mg/kg	
OSB-3	M	Beryllium	OSB-3C-3-MP	NONE	480749	1350679	4/15/97	1.80			mg/kg	1.80		-	mg/kg	
OSB-3	M	Beryllium	OSB-3C-4-MP	NONE	480724	1350698	4/15/97	1.70			mg/kg	1.70		-	mg/kg	
OSB-3	M	Beryllium	OSB-3C-5-MP	NONE	480755	1350596	4/15/97	0.50		B	mg/kg	0.50		-	mg/kg	
OSB-3	M	Beryllium	OSB-3C-6-MP	NONE	480800	1350631	4/14/97	0.69			mg/kg	0.69		-	mg/kg	
OSB-3	M	Beryllium	OSB-3C-7-MP	NONE	480768	1350654	4/14/97	0.74			mg/kg	0.74		-	mg/kg	
OSB-3	M	Beryllium	OSB-3C-8-MP	NONE	480779	1350689	4/15/97	0.74			mg/kg	0.74		-	mg/kg	
OSB-3	M	Beryllium	OSB-3C-9-MP	NONE	480834	1350603	4/14/97	1.10			mg/kg	1.10		-	mg/kg	
OSB-3	R	Moisture Content	OSB-3C-1-R	NONE	480738	1350602	4/15/97	10.80			Percent			NV	Percent	
OSB-3	R	Moisture Content	OSB-3C-10-R	NONE	480838	1350651	4/14/97	15.79			Percent			NV	Percent	
OSB-3	R	Moisture Content	OSB-3C-11-R	NONE	480815	1350673	4/14/97	12.37			Percent			NV	Percent	
OSB-3	R	Moisture Content	OSB-3C-12-R	NONE	480825	1350704	4/15/97	13.90			Percent			NV	Percent	
OSB-3	R	Moisture Content	OSB-3C-12-R-D	NONE	480825	1350704	4/15/97	15.10			Percent			NV	Percent	OSB-3C-12-R
OSB-3	R	Moisture Content	OSB-3C-13-R	NONE	480871	1350607	4/14/97	20.41			Percent			NV	Percent	
OSB-3	R	Moisture Content	OSB-3C-14-R	NONE	480898	1350625	4/14/97	15.81			Percent			NV	Percent	
OSB-3	R	Moisture Content	OSB-3C-15-R	NONE	480888	1350680	4/14/97	12.68			Percent			NV	Percent	
OSB-3	R	Moisture Content	OSB-3C-16-R	NONE	480891	1350714	4/14/97	12.27			Percent			NV	Percent	
OSB-3	R	Moisture Content	OSB-3C-2-R	NONE	480709	1350652	4/15/97	16.20			Percent			NV	Percent	

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								Laboratory Data				Validation Data				
CU Name	CU Type	Parameter	Sample ID	Suffix	Northing	Easting	Sample Date	Lab Result	TPU	Qualifier	Units	Val. Result	TPU	Qualifier	Units	Duplicate of
OSB-3	R	Moisture Content	OSB-3C-3-R	NONE	480749	1350679	4/15/97	19.30			Percent			NV	Percent	
OSB-3	R	Moisture Content	OSB-3C-4-R	NONE	480724	1350698	4/15/97	19.30			Percent			NV	Percent	
OSB-3	R	Moisture Content	OSB-3C-5-R	NONE	480755	1350596	4/15/97	11.80			Percent			NV	Percent	
OSB-3	R	Moisture Content	OSB-3C-6-R	NONE	480800	1350631	4/14/97	18.60			Percent			NV	Percent	
OSB-3	R	Moisture Content	OSB-3C-7-R	NONE	480768	1350654	4/14/97	11.34			Percent			NV	Percent	
OSB-3	R	Moisture Content	OSB-3C-8-R	NONE	480779	1350689	4/15/97	13.20			Percent			NV	Percent	
OSB-3	R	Moisture Content	OSB-3C-9-R	NONE	480834	1350603	4/14/97	20.16			Percent			NV	Percent	
OSB-3	R	Radium-226	OSB-3C-1-R	NONE	480738	1350602	4/15/97	1.00	0.13		pCi/g	1.03	0.13	J	pCi/g	
OSB-3	R	Radium-226	OSB-3C-10-R	NONE	480838	1350651	4/14/97	1.10	0.17		pCi/g	1.09	0.17	J	pCi/g	
OSB-3	R	Radium-226	OSB-3C-11-R	NONE	480815	1350673	4/14/97	0.94	0.15		pCi/g	0.94	0.15	J	pCi/g	
OSB-3	R	Radium-226	OSB-3C-12-R	NONE	480825	1350704	4/15/97	1.00	0.12		pCi/g	1.00	0.12	J	pCi/g	
OSB-3	R	Radium-226	OSB-3C-12-R-D	NONE	480825	1350704	4/15/97	1.20	0.16		pCi/g	1.23	0.16	J	pCi/g	OSB-3C-12-R
OSB-3	R	Radium-226	OSB-3C-13-R	NONE	480871	1350607	4/14/97	1.20	0.16		pCi/g	1.19	0.16	J	pCi/g	
OSB-3	R	Radium-226	OSB-3C-14-R	NONE	480898	1350625	4/14/97	1.10	0.19		pCi/g	1.08	0.19	J	pCi/g	
OSB-3	R	Radium-226	OSB-3C-15-R	NONE	480888	1350680	4/14/97	0.94	0.15		pCi/g	0.94	0.15	-	pCi/g	
OSB-3	R	Radium-226	OSB-3C-16-R	NONE	480891	1350714	4/14/97	0.90	0.14		pCi/g	0.90	0.14	-	pCi/g	
OSB-3	R	Radium-226	OSB-3C-2-R	NONE	480709	1350652	4/15/97	0.96	0.16		pCi/g	0.97	0.16	J	pCi/g	
OSB-3	R	Radium-226	OSB-3C-3-R	NONE	480749	1350679	4/15/97	1.80	0.21		pCi/g	1.80	0.21	J	pCi/g	
OSB-3	R	Radium-226	OSB-3C-4-R	NONE	480724	1350698	4/15/97	1.50	0.17		pCi/g	1.52	0.17	J	pCi/g	
OSB-3	R	Radium-226	OSB-3C-5-R	NONE	480755	1350596	4/15/97	0.84	0.13		pCi/g	0.84	0.13	J	pCi/g	
OSB-3	R	Radium-226	OSB-3C-6-R	NONE	480800	1350631	4/14/97	1.30	0.21		pCi/g	1.26	0.21	-	pCi/g	
OSB-3	R	Radium-226	OSB-3C-7-R	NONE	480768	1350654	4/14/97	0.96	0.15		pCi/g	0.96	0.15	-	pCi/g	
OSB-3	R	Radium-226	OSB-3C-8-R	NONE	480779	1350689	4/15/97	1.10	0.15		pCi/g	1.07	0.15	J	pCi/g	
OSB-3	R	Radium-226	OSB-3C-9-R	NONE	480834	1350603	4/14/97	1.30	0.25		pCi/g	1.30	0.25	-	pCi/g	
OSB-3	R	Radium-228	OSB-3C-1-R	NONE	480738	1350602	4/15/97	0.91	0.28		pCi/g	0.91	0.28	-	pCi/g	
OSB-3	R	Radium-228	OSB-3C-10-R	NONE	480838	1350651	4/14/97	1.10	0.24		pCi/g	1.09	0.24	J	pCi/g	
OSB-3	R	Radium-228	OSB-3C-11-R	NONE	480815	1350673	4/14/97	1.10	0.25		pCi/g	1.07	0.25	J	pCi/g	
OSB-3	R	Radium-228	OSB-3C-12-R	NONE	480825	1350704	4/15/97	0.84	0.24		pCi/g	0.84	0.24	-	pCi/g	
OSB-3	R	Radium-228	OSB-3C-12-R-D	NONE	480825	1350704	4/15/97	1.10	0.31		pCi/g	1.13	0.31	-	pCi/g	OSB-3C-12-R
OSB-3	R	Radium-228	OSB-3C-13-R	NONE	480871	1350607	4/14/97	1.30	0.24		pCi/g	1.32	0.24	J	pCi/g	
OSB-3	R	Radium-228	OSB-3C-14-R	NONE	480898	1350625	4/14/97	1.10	0.29		pCi/g	1.12	0.29	J	pCi/g	
OSB-3	R	Radium-228	OSB-3C-15-R	NONE	480888	1350680	4/14/97	0.86	0.22		pCi/g	0.86	0.22	-	pCi/g	
OSB-3	R	Radium-228	OSB-3C-16-R	NONE	480891	1350714	4/14/97	0.80	0.20		pCi/g	0.80	0.20	-	pCi/g	
OSB-3	R	Radium-228	OSB-3C-2-R	NONE	480709	1350652	4/15/97	0.89	0.30		pCi/g	0.89	0.30	-	pCi/g	
OSB-3	R	Radium-228	OSB-3C-3-R	NONE	480749	1350679	4/15/97	1.50	0.39		pCi/g	1.46	0.39	-	pCi/g	
OSB-3	R	Radium-228	OSB-3C-4-R	NONE	480724	1350698	4/15/97	1.40	0.37		pCi/g	1.42	0.37	-	pCi/g	
OSB-3	R	Radium-228	OSB-3C-5-R	NONE	480755	1350596	4/15/97	0.68	0.22		pCi/g	0.69	0.22	-	pCi/g	
OSB-3	R	Radium-228	OSB-3C-6-R	NONE	480800	1350631	4/14/97	1.20	0.33		pCi/g	1.22	0.33	-	pCi/g	
OSB-3	R	Radium-228	OSB-3C-7-R	NONE	480768	1350654	4/14/97	1.00	0.24		pCi/g	1.01	0.24	-	pCi/g	
OSB-3	R	Radium-228	OSB-3C-8-R	NONE	480779	1350689	4/15/97	0.96	0.31		pCi/g	0.96	0.31	-	pCi/g	

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A1P1 CERTIFICATION REPORT - APPENDIX B

								Laboratory Data				Validation Data					
CU Name	CU Type	Parameter	Sample ID	Suffix	Northing	Easting	Sample Date	Lab Result	TPU	Qualifier	Units	Val. Result	TPU	Qualifier	Units	Duplicate of
OSB-3	R	Radium-228	OSB-3C-9-R	NONE	480834	1350603	4/14/97	1.10	0.36		pCi/g	1.08	0.36	-	pCi/g	
OSB-3	R	Thorium-228	OSB-3C-1-R	NONE	480738	1350602	4/15/97	0.81	0.31		pCi/g	0.81	0.31	J	pCi/g	
OSB-3	R	Thorium-228	OSB-3C-10-R	NONE	480838	1350651	4/14/97	0.94	0.28		pCi/g	1.15	0.26	-	pCi/g	
OSB-3	R	Thorium-228	OSB-3C-11-R	NONE	480815	1350673	4/14/97	0.62	0.23		pCi/g	0.83	0.21	J	pCi/g	
OSB-3	R	Thorium-228	OSB-3C-12-R	NONE	480825	1350704	4/15/97	1.20	0.46		pCi/g	1.18	0.46	J	pCi/g	
OSB-3	R	Thorium-228	OSB-3C-12-R-D	NONE	480825	1350704	4/15/97	1.20	0.45		pCi/g	1.18	0.45	J	pCi/g	OSB-3C-12-R
OSB-3	R	Thorium-228	OSB-3C-13-R	NONE	480871	1350607	4/14/97	0.90	0.29		pCi/g	1.14	0.27	J	pCi/g	
OSB-3	R	Thorium-228	OSB-3C-14-R	NONE	480898	1350625	4/14/97	0.83	0.27		pCi/g	1.06	0.24	J	pCi/g	
OSB-3	R	Thorium-228	OSB-3C-15-R	NONE	480888	1350680	4/14/97	0.77	0.21		pCi/g	0.93	0.20	-	pCi/g	
OSB-3	R	Thorium-228	OSB-3C-16-R	NONE	480891	1350714	4/14/97	0.61	0.23		pCi/g	0.82	0.21	J	pCi/g	
OSB-3	R	Thorium-228	OSB-3C-2-R	NONE	480709	1350652	4/15/97	1.30	0.49		pCi/g	1.27	0.49	J	pCi/g	
OSB-3	R	Thorium-228	OSB-3C-3-R	NONE	480749	1350679	4/15/97	1.80	0.65		pCi/g	1.82	0.65	J	pCi/g	
OSB-3	R	Thorium-228	OSB-3C-4-R	NONE	480724	1350698	4/15/97	1.40	0.54		pCi/g	1.44	0.54	J	pCi/g	
OSB-3	R	Thorium-228	OSB-3C-5-R	NONE	480755	1350596	4/15/97	0.79	0.28		pCi/g	0.79	0.28	J	pCi/g	
OSB-3	R	Thorium-228	OSB-3C-6-R	NONE	480800	1350631	4/14/97	0.78	0.27		pCi/g	0.99	0.26	J	pCi/g	
OSB-3	R	Thorium-228	OSB-3C-7-R	NONE	480768	1350654	4/14/97	0.72	0.26		pCi/g	0.95	0.23	J	pCi/g	
OSB-3	R	Thorium-228	OSB-3C-8-R	NONE	480779	1350689	4/15/97	1.20	0.45		pCi/g	1.19	0.45	J	pCi/g	
OSB-3	R	Thorium-228	OSB-3C-9-R	NONE	480834	1350603	4/14/97	1.10	0.31		pCi/g	1.30	0.29	-	pCi/g	
OSB-3	R	Thorium-232	OSB-3C-1-R	NONE	480738	1350602	4/15/97	0.61	0.24		pCi/g	0.61	0.24	J	pCi/g	
OSB-3	R	Thorium-232	OSB-3C-10-R	NONE	480838	1350651	4/14/97	0.97	0.23		pCi/g	0.97	0.22	-	pCi/g	
OSB-3	R	Thorium-232	OSB-3C-11-R	NONE	480815	1350673	4/14/97	0.97	0.23		pCi/g	0.97	0.22	-	pCi/g	
OSB-3	R	Thorium-232	OSB-3C-12-R	NONE	480825	1350704	4/15/97	0.89	0.35		pCi/g	0.89	0.35	J	pCi/g	
OSB-3	R	Thorium-232	OSB-3C-12-R-D	NONE	480825	1350704	4/15/97	0.99	0.37		pCi/g	0.99	0.37	J	pCi/g	OSB-3C-12-R
OSB-3	R	Thorium-232	OSB-3C-13-R	NONE	480871	1350607	4/14/97	1.20	0.27		pCi/g	0.21	0.26	-	pCi/g	
OSB-3	R	Thorium-232	OSB-3C-14-R	NONE	480898	1350625	4/14/97	0.70	0.18		pCi/g	0.70	0.17	-	pCi/g	
OSB-3	R	Thorium-232	OSB-3C-15-R	NONE	480888	1350680	4/14/97	0.78	0.17		pCi/g	0.78	0.17	-	pCi/g	
OSB-3	R	Thorium-232	OSB-3C-16-R	NONE	480891	1350714	4/14/97	0.72	0.19		pCi/g	0.72	0.18	-	pCi/g	
OSB-3	R	Thorium-232	OSB-3C-2-R	NONE	480709	1350652	4/15/97	0.95	0.37		pCi/g	0.95	0.37	J	pCi/g	
OSB-3	R	Thorium-232	OSB-3C-3-R	NONE	480749	1350679	4/15/97	1.30	0.49		pCi/g	1.34	0.49	J	pCi/g	
OSB-3	R	Thorium-232	OSB-3C-4-R	NONE	480724	1350698	4/15/97	1.20	0.45		pCi/g	1.19	0.45	J	pCi/g	
OSB-3	R	Thorium-232	OSB-3C-5-R	NONE	480755	1350596	4/15/97	0.71	0.25		pCi/g	0.71	0.25	J	pCi/g	
OSB-3	R	Thorium-232	OSB-3C-6-R	NONE	480800	1350631	4/14/97	1.10	0.25		pCi/g	1.08	0.24	-	pCi/g	
OSB-3	R	Thorium-232	OSB-3C-7-R	NONE	480768	1350654	4/14/97	0.73	0.19		pCi/g	0.73	0.18	-	pCi/g	
OSB-3	R	Thorium-232	OSB-3C-8-R	NONE	480779	1350689	4/15/97	0.97	0.37		pCi/g	0.97	0.37	J	pCi/g	
OSB-3	R	Thorium-232	OSB-3C-9-R	NONE	480834	1350603	4/14/97	0.97	0.24		pCi/g	0.97	0.23	-	pCi/g	
OSB-3	R	Uranium, Total	OSB-3C-1-R	NONE	480738	1350602	4/15/97				ug/g	2.77	1.36	-	ug/g	
OSB-3	R	Uranium, Total	OSB-3C-10-R	NONE	480838	1350651	4/14/97				ug/g	28.70	7.91	J	ug/g	
OSB-3	R	Uranium, Total	OSB-3C-11-R	NONE	480815	1350673	4/14/97				ug/g	8.62	4.11	J	ug/g	
OSB-3	R	Uranium, Total	OSB-3C-12-R	NONE	480825	1350704	4/15/97				ug/g	1.88	0.99	J	ug/g	
OSB-3	R	Uranium, Total	OSB-3C-12-R-D	NONE	480825	1350704	4/15/97				ug/g	2.39		U	ug/g	OSB-3C-12-R

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A1P1 CERTIFICATION REPORT - APPENDIX B

								Laboratory Data				Validation Data				
CU Name	CU Type	Parameter	Sample ID	Suffix	Northing	Easting	Sample Date	Lab Result	TPU	Qualifier	Units	Val. Result	TPU	Qualifier	Units	Duplicate of
OSB-3	R	Uranium, Total	OSB-3C-13-R	NONE	480871	1350607	4/14/97				ug/g	4.60	2.69	J	ug/g	
OSB-3	R	Uranium, Total	OSB-3C-14-R	NONE	480898	1350625	4/14/97				ug/g	16.81	5.82	J	ug/g	
OSB-3	R	Uranium, Total	OSB-3C-15-R	NONE	480888	1350680	4/14/97				ug/g	7.23	3.99	J	ug/g	
OSB-3	R	Uranium, Total	OSB-3C-16-R	NONE	480891	1350714	4/14/97				ug/g	3.62	3.49	J	ug/g	
OSB-3	R	Uranium, Total	OSB-3C-2-R	NONE	480709	1350652	4/15/97				ug/g	2.83		U	ug/g	
OSB-3	R	Uranium, Total	OSB-3C-3-R	NONE	480749	1350679	4/15/97				ug/g	3.22	1.77	J	ug/g	
OSB-3	R	Uranium, Total	OSB-3C-4-R	NONE	480724	1350698	4/15/97				ug/g	2.52	1.11	-	ug/g	
OSB-3	R	Uranium, Total	OSB-3C-5-R	NONE	480755	1350596	4/15/97				ug/g	2.76		U	ug/g	
OSB-3	R	Uranium, Total	OSB-3C-6-R	NONE	480800	1350631	4/14/97				ug/g	17.54	6.62	-	ug/g	
OSB-3	R	Uranium, Total	OSB-3C-7-R	NONE	480768	1350654	4/14/97				ug/g	3.65	3.38	J	ug/g	
OSB-3	R	Uranium, Total	OSB-3C-8-R	NONE	480779	1350689	4/15/97				ug/g	4.80	2.28	J	ug/g	
OSB-3	R	Uranium, Total	OSB-3C-9-R	NONE	480834	1350603	4/14/97				ug/g	4.66		U	ug/g	
OSB-3	R	Uranium-238	OSB-3C-1-R	NONE	480738	1350602	4/15/97	0.93	0.45		pCi/g	0.93	0.45	-	pCi/g	
OSB-3	R	Uranium-238	OSB-3C-10-R	NONE	480838	1350651	4/14/97	9.60	2.60		pCi/g	9.57	2.64	J	pCi/g	
OSB-3	R	Uranium-238	OSB-3C-11-R	NONE	480815	1350673	4/14/97	2.90	1.40		pCi/g	2.88	1.37	J	pCi/g	
OSB-3	R	Uranium-238	OSB-3C-12-R	NONE	480825	1350704	4/15/97	0.63	0.33		pCi/g	0.63	0.33	J	pCi/g	
OSB-3	R	Uranium-238	OSB-3C-12-R-D	NONE	480825	1350704	4/15/97	0.35	0.48	U	pCi/g	0.80		U	pCi/g	OSB-3C-12-R
OSB-3	R	Uranium-238	OSB-3C-13-R	NONE	480871	1350607	4/14/97	1.50	0.90		pCi/g	1.53	0.90	J	pCi/g	
OSB-3	R	Uranium-238	OSB-3C-14-R	NONE	480898	1350625	4/14/97	5.60	1.90		pCi/g	5.61	1.94	J	pCi/g	
OSB-3	R	Uranium-238	OSB-3C-15-R	NONE	480888	1350680	4/14/97	2.40	1.30		pCi/g	2.41	1.33	J	pCi/g	
OSB-3	R	Uranium-238	OSB-3C-16-R	NONE	480891	1350714	4/14/97	1.20	1.20		pCi/g	1.21	1.16	J	pCi/g	
OSB-3	R	Uranium-238	OSB-3C-2-R	NONE	480709	1350652	4/15/97	0.83	0.58	U	pCi/g	0.95		U	pCi/g	
OSB-3	R	Uranium-238	OSB-3C-3-R	NONE	480749	1350679	4/15/97	1.10	0.59		pCi/g	1.07	0.59	J	pCi/g	
OSB-3	R	Uranium-238	OSB-3C-4-R	NONE	480724	1350698	4/15/97	0.84	0.37		pCi/g	0.84	0.37	-	pCi/g	
OSB-3	R	Uranium-238	OSB-3C-5-R	NONE	480755	1350596	4/15/97	0.87	0.57	U	pCi/g	0.92		U	pCi/g	
OSB-3	R	Uranium-238	OSB-3C-6-R	NONE	480800	1350631	4/14/97	5.80	2.20		pCi/g	5.85	2.21	-	pCi/g	
OSB-3	R	Uranium-238	OSB-3C-7-R	NONE	480768	1350654	4/14/97	1.20	1.10		pCi/g	1.22	1.13	J	pCi/g	
OSB-3	R	Uranium-238	OSB-3C-8-R	NONE	480779	1350689	4/15/97	1.60	0.76		pCi/g	1.60	0.76	-	pCi/g	
OSB-3	R	Uranium-238	OSB-3C-9-R	NONE	480834	1350603	4/14/97	0.17	1.90	U	pCi/g	1.56		U	pCi/g	
OSB-4	M	Aroclor-1260	OSB-4C-1-MP	NONE	480884	1350749	4/3/97	38.00		U	ug/kg	38.00		U	ug/kg	
OSB-4	M	Aroclor-1260	OSB-4C-10-MP	NONE	481015	1350765	4/7/97	40.00		U	ug/kg	40.00		U	ug/kg	
OSB-4	M	Aroclor-1260	OSB-4C-11-MP	NONE	481025	1350806	4/7/97	38.00		U	ug/kg	38.00		U	ug/kg	
OSB-4	M	Aroclor-1260	OSB-4C-12-MP	NONE	481015	1350835	4/7/97	40.00		U	ug/kg	40.00		U	ug/kg	
OSB-4	M	Aroclor-1260	OSB-4C-13-MP	NONE	481101	1350719	4/7/97	39.00		U	ug/kg	39.00		U	ug/kg	
OSB-4	M	Aroclor-1260	OSB-4C-14-MP	NONE	481073	1350784	4/7/97	40.00		U	ug/kg	40.00		U	ug/kg	
OSB-4	M	Aroclor-1260	OSB-4C-15-MP	NONE	481106	1350798	4/7/97	39.00		U	ug/kg	39.00		U	ug/kg	
OSB-4	M	Aroclor-1260	OSB-4C-16-MP	NONE	481126	1350850	4/7/97	40.00		U	ug/kg	40.00		U	ug/kg	
OSB-4	M	Aroclor-1260	OSB-4C-2-MP	NONE	480875	1350770	4/3/97	38.00		U	ug/kg	38.00		U	ug/kg	
OSB-4	M	Aroclor-1260	OSB-4C-3-MP	NONE	480933	1350801	4/7/97	38.00		U	ug/kg	38.00		U	ug/kg	

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A1P1 CERTIFICATION REPORT - APPENDIX B

							Laboratory Data					Validation Data				
CU Name	CU Type	Parameter	Sample ID	Suffix	Northing	Easting	Sample Date	Lab Result	TPU	Qualifier	Units	Val. Result	TPU	Qualifier	Units	Duplicate of
OSB-4	M	Aroclor-1260	OSB-4C-4-MP	NONE	480898	1350835	4/7/97	38.00		U	ug/kg	38.00		U	ug/kg	
OSB-4	M	Aroclor-1260	OSB-4C-4-MP-D	NONE	480898	1350835	4/7/97	39.00		U	ug/kg	39.00		U	ug/kg	OSB-4C-4-MP
OSB-4	M	Aroclor-1260	OSB-4C-5-MP	NONE	480955	1350738	4/7/97	38.00		U	ug/kg	38.00		U	ug/kg	
OSB-4	M	Aroclor-1260	OSB-4C-6-MP	NONE	480973	1350759	4/7/97	37.00		U	ug/kg	37.00		U	ug/kg	
OSB-4	M	Aroclor-1260	OSB-4C-7-MP	NONE	480991	1350826	4/7/97	40.00		U	ug/kg	40.00		U	ug/kg	
OSB-4	M	Aroclor-1260	OSB-4C-8-MP	NONE	480976	1350852	4/7/97	40.00		U	ug/kg	40.00		U	ug/kg	
OSB-4	M	Aroclor-1260	OSB-4C-9-MP	NONE	481017	1350734	4/3/97	37.00		U	ug/kg	37.00		U	ug/kg	
OSB-4	M	Arsenic	OSB-4C-1-MP	NONE	480884	1350749	4/3/97	6.20			mg/kg	6.20		-	mg/kg	
OSB-4	M	Arsenic	OSB-4C-10-MP	NONE	481015	1350765	4/7/97	5.00		N	mg/kg	5.00		U	mg/kg	
OSB-4	M	Arsenic	OSB-4C-11-MP	NONE	481025	1350806	4/7/97	5.90		N	mg/kg	5.90		-	mg/kg	
OSB-4	M	Arsenic	OSB-4C-12-MP	NONE	481015	1350835	4/7/97	15.70		N	mg/kg	15.70		-	mg/kg	
OSB-4	M	Arsenic	OSB-4C-13-MP	NONE	481101	1350719	4/7/97	5.20		N	mg/kg	5.20		U	mg/kg	
OSB-4	M	Arsenic	OSB-4C-14-MP	NONE	481073	1350784	4/7/97	12.30		N	mg/kg	12.30		-	mg/kg	
OSB-4	M	Arsenic	OSB-4C-15-MP	NONE	481106	1350798	4/7/97	7.40		N	mg/kg	7.40		-	mg/kg	
OSB-4	M	Arsenic	OSB-4C-16-MP	NONE	481126	1350850	4/7/97	9.10		N	mg/kg	9.10		-	mg/kg	
OSB-4	M	Arsenic	OSB-4C-2-MP	NONE	480875	1350770	4/3/97	4.80		N	mg/kg	4.80		U	mg/kg	
OSB-4	M	Arsenic	OSB-4C-3-MP	NONE	480933	1350801	4/7/97	7.80		N	mg/kg	7.80		-	mg/kg	
OSB-4	M	Arsenic	OSB-4C-4-MP	NONE	480898	1350835	4/7/97	7.40		N	mg/kg	7.40		-	mg/kg	
OSB-4	M	Arsenic	OSB-4C-4-MP-D	NONE	480898	1350835	4/7/97	7.00		N	mg/kg	7.00		-	mg/kg	OSB-4C-4-MP
OSB-4	M	Arsenic	OSB-4C-5-MP	NONE	480955	1350738	4/7/97	6.60		N	mg/kg	6.60		-	mg/kg	
OSB-4	M	Arsenic	OSB-4C-6-MP	NONE	480973	1350759	4/7/97	6.70		N	mg/kg	6.70		-	mg/kg	
OSB-4	M	Arsenic	OSB-4C-7-MP	NONE	480991	1350826	4/7/97	6.80		N	mg/kg	6.80		-	mg/kg	
OSB-4	M	Arsenic	OSB-4C-8-MP	NONE	480976	1350852	4/7/97	9.50		N	mg/kg	9.50		-	mg/kg	
OSB-4	M	Arsenic	OSB-4C-9-MP	NONE	481017	1350734	4/3/97	5.90		N	mg/kg	5.90		-	mg/kg	
OSB-4	M	Beryllium	OSB-4C-1-MP	NONE	480884	1350749	4/3/97	0.61			mg/kg	0.61		-	mg/kg	
OSB-4	M	Beryllium	OSB-4C-10-MP	NONE	481015	1350765	4/7/97	0.32		B	mg/kg	0.32		-	mg/kg	
OSB-4	M	Beryllium	OSB-4C-11-MP	NONE	481025	1350806	4/7/97	0.40		B	mg/kg	0.40		-	mg/kg	
OSB-4	M	Beryllium	OSB-4C-12-MP	NONE	481015	1350835	4/7/97	0.46		B	mg/kg	0.46		-	mg/kg	
OSB-4	M	Beryllium	OSB-4C-13-MP	NONE	481101	1350719	4/7/97	0.36		B	mg/kg	0.36		-	mg/kg	
OSB-4	M	Beryllium	OSB-4C-14-MP	NONE	481073	1350784	4/7/97	0.46		B	mg/kg	0.46		-	mg/kg	
OSB-4	M	Beryllium	OSB-4C-15-MP	NONE	481106	1350798	4/7/97	0.63			mg/kg	0.63		-	mg/kg	
OSB-4	M	Beryllium	OSB-4C-16-MP	NONE	481126	1350850	4/7/97	1.00			mg/kg	1.00		-	mg/kg	
OSB-4	M	Beryllium	OSB-4C-2-MP	NONE	480875	1350770	4/3/97	0.53		B	mg/kg	0.53		-	mg/kg	
OSB-4	M	Beryllium	OSB-4C-3-MP	NONE	480933	1350801	4/7/97	0.70			mg/kg	0.70		-	mg/kg	
OSB-4	M	Beryllium	OSB-4C-4-MP	NONE	480898	1350835	4/7/97	0.64			mg/kg	0.64		-	mg/kg	
OSB-4	M	Beryllium	OSB-4C-4-MP-D	NONE	480898	1350835	4/7/97	1.00			mg/kg	1.00		-	mg/kg	OSB-4C-4-MP
OSB-4	M	Beryllium	OSB-4C-5-MP	NONE	480955	1350738	4/7/97	0.87			mg/kg	0.87		-	mg/kg	
OSB-4	M	Beryllium	OSB-4C-6-MP	NONE	480973	1350759	4/7/97	0.66			mg/kg	0.66		-	mg/kg	
OSB-4	M	Beryllium	OSB-4C-7-MP	NONE	480991	1350826	4/7/97	0.43		B	mg/kg	0.43		-	mg/kg	
OSB-4	M	Beryllium	OSB-4C-8-MP	NONE	480976	1350852	4/7/97	0.46		B	mg/kg	0.46		-	mg/kg	

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							Laboratory Data				Validation Data				
CU Name	CU Type	Parameter	Sample ID	Suffix	Northing	Easting	Sample Date	Lab Result	TPU	Qualifier	Units	Val. Result	TPU	Qualifier	Units	Duplicate of
OSB-4	M	Beryllium	OSB-4C-9-MP	NONE	481017	1350734	4/3/97	0.66			mg/kg	0.66		-	mg/kg	
OSB-4	R	Moisture Content	OSB-4C-1-R	NONE	480884	1350749	4/3/97	16.50			Percent			NV	Percent	
OSB-4	R	Moisture Content	OSB-4C-10-R	NONE	481015	1350765	4/7/97	0.15			Percent			NV	Percent	
OSB-4	R	Moisture Content	OSB-4C-11-R	NONE	481025	1350806	4/7/97	0.16			Percent			NV	Percent	
OSB-4	R	Moisture Content	OSB-4C-12-R	NONE	481015	1350835	4/7/97	0.19			Percent			NV	Percent	
OSB-4	R	Moisture Content	OSB-4C-13-R	NONE	481101	1350719	4/7/97	0.17			Percent			NV	Percent	
OSB-4	R	Moisture Content	OSB-4C-14-R	NONE	481073	1350784	4/7/97	0.18			Percent			NV	Percent	
OSB-4	R	Moisture Content	OSB-4C-15-R	NONE	481106	1350798	4/7/97	0.16			Percent			NV	Percent	
OSB-4	R	Moisture Content	OSB-4C-16-R	NONE	481126	1350850	4/7/97	0.21			Percent			NV	Percent	
OSB-4	R	Moisture Content	OSB-4C-2-R	NONE	480875	1350770	4/3/97	0.10			Percent			NV	Percent	
OSB-4	R	Moisture Content	OSB-4C-3-R	NONE	480933	1350801	4/7/97	0.12			Percent			NV	Percent	
OSB-4	R	Moisture Content	OSB-4C-4-R	NONE	480898	1350835	4/7/97	0.15			Percent			NV	Percent	
OSB-4	R	Moisture Content	OSB-4C-4-R-D	NONE	480898	1350835	4/7/97	0.14			Percent			NV	Percent	OSB-4C-4-R
OSB-4	R	Moisture Content	OSB-4C-5-R	NONE	480955	1350738	4/7/97	0.16			Percent			NV	Percent	
OSB-4	R	Moisture Content	OSB-4C-6-R	NONE	480973	1350759	4/7/97	0.14			Percent			NV	Percent	
OSB-4	R	Moisture Content	OSB-4C-7-R	NONE	480991	1350826	4/7/97	0.18			Percent			NV	Percent	
OSB-4	R	Moisture Content	OSB-4C-8-R	NONE	480976	1350852	4/7/97	0.18			Percent			NV	Percent	
OSB-4	R	Moisture Content	OSB-4C-9-R	NONE	481017	1350734	4/3/97	0.13			Percent			NV	Percent	
OSB-4	R	Radium-226	OSB-4C-1-R	NONE	480884	1350749	4/3/97	1.30	0.15		pCi/g	1.35	0.15	-	pCi/g	
OSB-4	R	Radium-226	OSB-4C-10-R	NONE	481015	1350765	4/7/97	1.10	0.17		pCi/g	1.14	0.17	J	pCi/g	
OSB-4	R	Radium-226	OSB-4C-11-R	NONE	481025	1350806	4/7/97	1.10	0.17		pCi/g	1.12	0.17	-	pCi/g	
OSB-4	R	Radium-226	OSB-4C-12-R	NONE	481015	1350835	4/7/97	1.30	0.19		pCi/g	1.28	0.19	-	pCi/g	
OSB-4	R	Radium-226	OSB-4C-13-R	NONE	481101	1350719	4/7/97	1.20	0.17		pCi/g	1.18	0.17	J	pCi/g	
OSB-4	R	Radium-226	OSB-4C-14-R	NONE	481073	1350784	4/7/97	1.10	0.17		pCi/g	1.12	0.17	J	pCi/g	
OSB-4	R	Radium-226	OSB-4C-15-R	NONE	481106	1350798	4/7/97	0.92	0.14		pCi/g	0.94	0.14	J	pCi/g	
OSB-4	R	Radium-226	OSB-4C-15-R	RE	481106	1350798	4/7/97	0.94	0.14		pCi/g	0.94	0.14	J	pCi/g	
OSB-4	R	Radium-226	OSB-4C-16-R	NONE	481126	1350850	4/7/97	1.40	0.21		pCi/g	1.44	0.21	-	pCi/g	
OSB-4	R	Radium-226	OSB-4C-2-R	NONE	480875	1350770	4/3/97	0.90	0.15		pCi/g	0.90	0.15	-	pCi/g	
OSB-4	R	Radium-226	OSB-4C-3-R	NONE	480933	1350801	4/7/97	0.88	0.14		pCi/g	0.88	0.14	-	pCi/g	
OSB-4	R	Radium-226	OSB-4C-4-R	NONE	480898	1350835	4/7/97	0.97	0.16		pCi/g	0.97	0.16	J	pCi/g	
OSB-4	R	Radium-226	OSB-4C-4-R-D	NONE	480898	1350835	4/7/97	0.87	0.13		pCi/g	0.87	0.13	J	pCi/g	OSB-4C-4-R
OSB-4	R	Radium-226	OSB-4C-5-R	NONE	480955	1350738	4/7/97	1.10	0.17		pCi/g	1.11	0.17	J	pCi/g	
OSB-4	R	Radium-226	OSB-4C-6-R	NONE	480973	1350759	4/7/97	1.10	0.17		pCi/g	1.12	0.17	-	pCi/g	
OSB-4	R	Radium-226	OSB-4C-7-R	NONE	480991	1350826	4/7/97	1.20	0.25		pCi/g	1.21	0.25	-	pCi/g	
OSB-4	R	Radium-226	OSB-4C-8-R	NONE	480976	1350852	4/7/97	1.20	0.18		pCi/g	1.23	0.18	-	pCi/g	
OSB-4	R	Radium-226	OSB-4C-9-R	NONE	481017	1350734	4/3/97	0.94	0.16		pCi/g	0.94	0.16	J	pCi/g	
OSB-4	R	Radium-228	OSB-4C-1-R	NONE	480884	1350749	4/3/97	1.10	0.28		pCi/g	1.09	0.28	-	pCi/g	
OSB-4	R	Radium-228	OSB-4C-10-R	NONE	481015	1350765	4/7/97	0.88	0.23		pCi/g	0.88	0.23	J	pCi/g	
OSB-4	R	Radium-228	OSB-4C-11-R	NONE	481025	1350806	4/7/97	1.10	0.28		pCi/g	1.06	0.28	-	pCi/g	
OSB-4	R	Radium-228	OSB-4C-12-R	NONE	481015	1350835	4/7/97	1.30	0.29		pCi/g	1.31	0.29	-	pCi/g	

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							Laboratory Data					Validation Data				
CU Name	CU Type	Parameter	Sample ID	Suffix	Northing	Easting	Sample Date	Lab Result	TPU	Qualifier	Units	Val. Result	TPU	Qualifier	Units	Duplicate of
OSB-4	R	Radium-228	OSB-4C-13-R	NONE	481101	1350719	4/7/97	1.30	0.28		pCi/g	1.29	0.28	J	pCi/g	
OSB-4	R	Radium-228	OSB-4C-14-R	NONE	481073	1350784	4/7/97	1.10	0.25		pCi/g	1.12	0.25	J	pCi/g	
OSB-4	R	Radium-228	OSB-4C-15-R	NONE	481106	1350798	4/7/97	1.00	0.21		pCi/g	0.96	0.21	J	pCi/g	
OSB-4	R	Radium-228	OSB-4C-15-R	RE	481106	1350798	4/7/97	0.96	0.21		pCi/g	0.96	0.21	J	pCi/g	
OSB-4	R	Radium-228	OSB-4C-16-R	NONE	481126	1350850	4/7/97	1.40	0.28		pCi/g	1.36	0.28	-	pCi/g	
OSB-4	R	Radium-228	OSB-4C-2-R	NONE	480875	1350770	4/3/97	0.99	0.22		pCi/g	0.99	0.22	-	pCi/g	
OSB-4	R	Radium-228	OSB-4C-3-R	NONE	480933	1350801	4/7/97	0.78	0.18		pCi/g	0.78	0.18	-	pCi/g	
OSB-4	R	Radium-228	OSB-4C-4-R	NONE	480898	1350835	4/7/97	1.00	0.24		pCi/g	1.00	0.24	J	pCi/g	
OSB-4	R	Radium-228	OSB-4C-4-R-D	NONE	480898	1350835	4/7/97	0.81	0.17		pCi/g	0.81	0.17	J	pCi/g	OSB-4C-4-R
OSB-4	R	Radium-228	OSB-4C-5-R	NONE	480955	1350738	4/7/97	1.30	0.26		pCi/g	1.27	0.26	J	pCi/g	
OSB-4	R	Radium-228	OSB-4C-6-R	NONE	480973	1350759	4/7/97	1.10	0.26		pCi/g	1.09	0.26	-	pCi/g	
OSB-4	R	Radium-228	OSB-4C-7-R	NONE	480991	1350826	4/7/97	0.00	0.43	U	pCi/g	0.40		U	pCi/g	
OSB-4	R	Radium-228	OSB-4C-8-R	NONE	480976	1350852	4/7/97	1.20	0.28		pCi/g	1.17	0.28	-	pCi/g	
OSB-4	R	Radium-228	OSB-4C-9-R	NONE	481017	1350734	4/3/97	0.94	0.26		pCi/g	0.94	0.26	J	pCi/g	
OSB-4	R	Thorium-228	OSB-4C-1-R	NONE	480884	1350749	4/3/97	1.40	0.51		pCi/g	1.36	0.51	J	pCi/g	
OSB-4	R	Thorium-228	OSB-4C-10-R	NONE	481015	1350765	4/7/97	0.78	0.26		pCi/g	1.02	0.23	J	pCi/g	
OSB-4	R	Thorium-228	OSB-4C-11-R	NONE	481025	1350806	4/7/97	0.66	0.27		pCi/g	0.90	0.25	J	pCi/g	
OSB-4	R	Thorium-228	OSB-4C-12-R	NONE	481015	1350835	4/7/97	1.20	0.32		pCi/g	1.31	0.28	-	pCi/g	
OSB-4	R	Thorium-228	OSB-4C-12-R	RE	481015	1350835	4/7/97	1.20	0.34		pCi/g	1.31	0.28	-	pCi/g	
OSB-4	R	Thorium-228	OSB-4C-13-R	NONE	481101	1350719	4/7/97	0.87	0.27		pCi/g	1.07	0.26	-	pCi/g	
OSB-4	R	Thorium-228	OSB-4C-14-R	NONE	481073	1350784	4/7/97	1.00	0.39		pCi/g	1.26	0.38	J	pCi/g	
OSB-4	R	Thorium-228	OSB-4C-15-R	NONE	481106	1350798	4/7/97	0.91	0.24		pCi/g	1.08	0.23	-	pCi/g	
OSB-4	R	Thorium-228	OSB-4C-16-R	NONE	481126	1350850	4/7/97	1.30	0.32		pCi/g	1.48	0.31	-	pCi/g	
OSB-4	R	Thorium-228	OSB-4C-2-R	NONE	480875	1350770	4/3/97	0.71	0.27		pCi/g	0.95	0.24	J	pCi/g	
OSB-4	R	Thorium-228	OSB-4C-3-R	NONE	480933	1350801	4/7/97	0.82	0.24		pCi/g	0.89	0.19	-	pCi/g	
OSB-4	R	Thorium-228	OSB-4C-4-R	NONE	480898	1350835	4/7/97	0.66	0.32		pCi/g	0.75	0.21	-	pCi/g	
OSB-4	R	Thorium-228	OSB-4C-4-R-D	NONE	480898	1350835	4/7/97	0.89	0.28		pCi/g	0.99	0.22	-	pCi/g	OSB-4C-4-R
OSB-4	R	Thorium-228	OSB-4C-4-R-D	RE	480898	1350835	4/7/97	0.90	0.29		pCi/g	0.99	0.22	-	pCi/g	OSB-4C-4-R
OSB-4	R	Thorium-228	OSB-4C-5-R	NONE	480955	1350738	4/7/97	0.70	0.23		pCi/g	0.90	0.22	J	pCi/g	
OSB-4	R	Thorium-228	OSB-4C-6-R	NONE	480973	1350759	4/7/97	0.75	0.30		pCi/g	1.01	0.27	J	pCi/g	
OSB-4	R	Thorium-228	OSB-4C-7-R	NONE	480991	1350826	4/7/97	1.10	0.27		pCi/g	1.07	0.22	-	pCi/g	
OSB-4	R	Thorium-228	OSB-4C-7-R	RE	480991	1350826	4/7/97	1.00	0.27		pCi/g	1.07	0.22	-	pCi/g	
OSB-4	R	Thorium-228	OSB-4C-8-R	NONE	480976	1350852	4/7/97	1.40	0.33		pCi/g	1.43	0.29	-	pCi/g	
OSB-4	R	Thorium-228	OSB-4C-8-R	RE	480976	1350852	4/7/97	1.40	0.34		pCi/g	1.43	0.29	-	pCi/g	
OSB-4	R	Thorium-228	OSB-4C-9-R	NONE	481017	1350734	4/3/97	0.71	0.25		pCi/g	0.93	0.23	J	pCi/g	
OSB-4	R	Thorium-232	OSB-4C-1-R	NONE	480884	1350749	4/3/97	1.30	0.51		pCi/g	1.35	0.51	J	pCi/g	
OSB-4	R	Thorium-232	OSB-4C-10-R	NONE	481015	1350765	4/7/97	0.99	0.22		pCi/g	0.99	0.21	J	pCi/g	
OSB-4	R	Thorium-232	OSB-4C-11-R	NONE	481025	1350806	4/7/97	0.95	0.23		pCi/g	0.95	0.22	-	pCi/g	
OSB-4	R	Thorium-232	OSB-4C-12-R	NONE	481015	1350835	4/7/97	0.91	0.22		pCi/g	0.95	0.21	-	pCi/g	
OSB-4	R	Thorium-232	OSB-4C-12-R	RE	481015	1350835	4/7/97	0.90	0.21		pCi/g	0.95	0.21	-	pCi/g	

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								Laboratory Data				Validation Data				
CU Name	CU Type	Parameter	Sample ID	Suffix	Northing	Easting	Sample Date	Lab Result	TPU	Qualifier	Units	Val. Result	TPU	Qualifier	Units	Duplicate of
OSB-4	R	Thorium-232	OSB-4C-13-R	NONE	481101	1350719	4/7/97	1.00	0.23		pCi/g	1.02	0.22	-	pCi/g	
OSB-4	R	Thorium-232	OSB-4C-14-R	NONE	481073	1350784	4/7/97	0.94	0.28		pCi/g	0.94	0.27	-	pCi/g	
OSB-4	R	Thorium-232	OSB-4C-15-R	NONE	481106	1350798	4/7/97	0.99	0.21		pCi/g	0.99	0.21	-	pCi/g	
OSB-4	R	Thorium-232	OSB-4C-16-R	NONE	481126	1350850	4/7/97	1.30	0.28		pCi/g	1.30	0.28	-	pCi/g	
OSB-4	R	Thorium-232	OSB-4C-2-R	NONE	480875	1350770	4/3/97	0.76	0.20		pCi/g	0.76	0.19	-	pCi/g	
OSB-4	R	Thorium-232	OSB-4C-3-R	NONE	480933	1350801	4/7/97	0.78	0.17		pCi/g	0.81	0.17	-	pCi/g	
OSB-4	R	Thorium-232	OSB-4C-4-R	NONE	480898	1350835	4/7/97	0.65	0.19		pCi/g	0.71	0.18	-	pCi/g	
OSB-4	R	Thorium-232	OSB-4C-4-R-D	RE	480898	1350835	4/7/97	0.86	0.20		pCi/g	0.90	0.19	-	pCi/g	OSB-4C-4-R
OSB-4	R	Thorium-232	OSB-4C-4-R-D	NONE	480898	1350835	4/7/97	0.88	0.20		pCi/g	0.90	0.19	-	pCi/g	OSB-4C-4-R
OSB-4	R	Thorium-232	OSB-4C-5-R	NONE	480955	1350738	4/7/97	0.95	0.21		pCi/g	0.95	0.20	J	pCi/g	
OSB-4	R	Thorium-232	OSB-4C-6-R	NONE	480973	1350759	4/7/97	0.77	0.21		pCi/g	0.77	0.21	-	pCi/g	
OSB-4	R	Thorium-232	OSB-4C-7-R	NONE	480991	1350826	4/7/97	0.88	0.19		pCi/g	0.87	0.18	-	pCi/g	
OSB-4	R	Thorium-232	OSB-4C-7-R	RE	480991	1350826	4/7/97	0.83	0.18		pCi/g	0.87	0.18	-	pCi/g	
OSB-4	R	Thorium-232	OSB-4C-8-R	NONE	480976	1350852	4/7/97	1.20	0.25		pCi/g	1.17	0.24	-	pCi/g	
OSB-4	R	Thorium-232	OSB-4C-8-R	RE	480976	1350852	4/7/97	1.40	0.24		pCi/g	1.17	0.24	-	pCi/g	
OSB-4	R	Thorium-232	OSB-4C-9-R	NONE	481017	1350734	4/3/97	0.79	0.20		pCi/g	0.79	0.19	-	pCi/g	
OSB-4	R	Uranium, Total	OSB-4C-1-R	NONE	480884	1350749	4/3/97				ug/g	2.45	1.22	-	ug/g	
OSB-4	R	Uranium, Total	OSB-4C-10-R	NONE	481015	1350765	4/7/97				ug/g	12.01	4.81	J	ug/g	
OSB-4	R	Uranium, Total	OSB-4C-11-R	NONE	481025	1350806	4/7/97				ug/g	11.19	6.11	J	ug/g	
OSB-4	R	Uranium, Total	OSB-4C-12-R	NONE	481015	1350835	4/7/97				ug/g	11.77	5.16	-	ug/g	
OSB-4	R	Uranium, Total	OSB-4C-13-R	NONE	481101	1350719	4/7/97				ug/g	16.98	5.35	J	ug/g	
OSB-4	R	Uranium, Total	OSB-4C-14-R	NONE	481073	1350784	4/7/97				ug/g	15.46	5.66	J	ug/g	
OSB-4	R	Uranium, Total	OSB-4C-15-R	NONE	481106	1350798	4/7/97				ug/g	11.49	3.83	J	ug/g	
OSB-4	R	Uranium, Total	OSB-4C-15-R	RE	481106	1350798	4/7/97				ug/g	11.49	3.83	J	ug/g	
OSB-4	R	Uranium, Total	OSB-4C-16-R	NONE	481126	1350850	4/7/97				ug/g	5.73	5.23	J	ug/g	
OSB-4	R	Uranium, Total	OSB-4C-2-R	NONE	480875	1350770	4/3/97				ug/g	2.45		U	ug/g	
OSB-4	R	Uranium, Total	OSB-4C-3-R	NONE	480933	1350801	4/7/97				ug/g	6.75	3.94	J	ug/g	
OSB-4	R	Uranium, Total	OSB-4C-4-R	NONE	480898	1350835	4/7/97				ug/g	6.72	3.51	J	ug/g	
OSB-4	R	Uranium, Total	OSB-4C-4-R-D	NONE	480898	1350835	4/7/97				ug/g	4.46	3.25	J	ug/g	OSB-4C-4-R
OSB-4	R	Uranium, Total	OSB-4C-5-R	NONE	480955	1350738	4/7/97				ug/g	9.56	4.53	J	ug/g	
OSB-4	R	Uranium, Total	OSB-4C-6-R	NONE	480973	1350759	4/7/97				ug/g	8.53	4.20	-	ug/g	
OSB-4	R	Uranium, Total	OSB-4C-7-R	NONE	480991	1350826	4/7/97				ug/g	5.57		U	ug/g	
OSB-4	R	Uranium, Total	OSB-4C-8-R	NONE	480976	1350852	4/7/97				ug/g	15.51	6.14	-	ug/g	
OSB-4	R	Uranium, Total	OSB-4C-9-R	NONE	481017	1350734	4/3/97				ug/g	11.44	4.06	J	ug/g	
OSB-4	R	Uranium-238	OSB-4C-1-R	NONE	480884	1350749	4/3/97	0.82	0.41		pCi/g	0.82	0.41	-	pCi/g	
OSB-4	R	Uranium-238	OSB-4C-10-R	NONE	481015	1350765	4/7/97	4.00	1.60		pCi/g	4.01	1.60	J	pCi/g	
OSB-4	R	Uranium-238	OSB-4C-11-R	NONE	481025	1350806	4/7/97	3.70	2.00		pCi/g	3.73	2.04	J	pCi/g	
OSB-4	R	Uranium-238	OSB-4C-12-R	NONE	481015	1350835	4/7/97	3.90	1.70		pCi/g	3.92	1.72	-	pCi/g	
OSB-4	R	Uranium-238	OSB-4C-13-R	NONE	481101	1350719	4/7/97	5.70	1.80		pCi/g	5.66	1.79	J	pCi/g	
OSB-4	R	Uranium-238	OSB-4C-14-R	NONE	481073	1350784	4/7/97	5.20	1.90		pCi/g	5.16	1.89	J	pCi/g	

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							Laboratory Data					Validation Data				
CU Name	CU Type	Parameter	Sample ID	Suffix	Northing	Easting	Sample Date	Lab Result	TPU	Qualifier	Units	Val. Result	TPU	Qualifier	Units	Duplicate of
OSB-4	R	Uranium-238	OSB-4C-15-R	NONE	481106	1350798	4/7/97	4.20	1.20		pCi/g	3.83	1.28	J	pCi/g	
OSB-4	R	Uranium-238	OSB-4C-15-R	RE	481106	1350798	4/7/97	3.80	1.30		pCi/g	3.83	1.28	J	pCi/g	
OSB-4	R	Uranium-238	OSB-4C-16-R	NONE	481126	1350850	4/7/97	1.90	1.70		pCi/g	1.91	1.74	J	pCi/g	
OSB-4	R	Uranium-238	OSB-4C-2-R	NONE	480875	1350770	4/3/97	0.48	0.97	U	pCi/g	0.82		U	pCi/g	
OSB-4	R	Uranium-238	OSB-4C-3-R	NONE	480933	1350801	4/7/97	2.30	1.30		pCi/g	2.25	1.31	J	pCi/g	
OSB-4	R	Uranium-238	OSB-4C-4-R	NONE	480898	1350835	4/7/97	2.20	1.20		pCi/g	2.24	1.17	J	pCi/g	
OSB-4	R	Uranium-238	OSB-4C-4-R-D	NONE	480898	1350835	4/7/97	1.50	1.10		pCi/g	1.49	1.09	J	pCi/g	OSB-4C-4-R
OSB-4	R	Uranium-238	OSB-4C-5-R	NONE	480955	1350738	4/7/97	3.20	1.50		pCi/g	3.19	1.51	J	pCi/g	
OSB-4	R	Uranium-238	OSB-4C-6-R	NONE	480973	1350759	4/7/97	2.80	1.40		pCi/g	2.85	1.40	-	pCi/g	
OSB-4	R	Uranium-238	OSB-4C-7-R	NONE	480991	1350826	4/7/97	1.60	2.50	U	pCi/g	1.86		U	pCi/g	
OSB-4	R	Uranium-238	OSB-4C-8-R	NONE	480976	1350852	4/7/97	5.20	2.10		pCi/g	5.17	2.05	-	pCi/g	
OSB-4	R	Uranium-238	OSB-4C-9-R	NONE	481017	1350734	4/3/97	3.80	1.40		pCi/g	3.82	1.35	J	pCi/g	
OSB-5	M	Aroclor-1260	OSB-5C-1-MP	NONE	480920	1350612	4/9/97	41.00		U	ug/kg	41.00		U	ug/kg	
OSB-5	M	Aroclor-1260	OSB-5C-10-MP	NONE	481027	1350640	4/8/97	40.00		U	ug/kg	40.00		U	ug/kg	
OSB-5	M	Aroclor-1260	OSB-5C-10-MP-D	NONE	481027	1350640	4/8/97	39.00		U	ug/kg	39.00		U	ug/kg	OSB-5C-10-MP
OSB-5	M	Aroclor-1260	OSB-5C-11-MP	NONE	481046	1350665	4/8/97	39.00		U	ug/kg	39.00		U	ug/kg	
OSB-5	M	Aroclor-1260	OSB-5C-12-MP	NONE	481035	1350703	4/8/97	40.00		U	ug/kg	40.00		U	ug/kg	
OSB-5	M	Aroclor-1260	OSB-5C-13-MP	NONE	481110	1350611	4/8/97	38.00		U	ug/kg	38.00		U	ug/kg	
OSB-5	M	Aroclor-1260	OSB-5C-14-MP	NONE	481123	1350646	4/8/97	39.00		U	ug/kg	39.00		U	ug/kg	
OSB-5	M	Aroclor-1260	OSB-5C-15-MP	NONE	481080	1350673	4/8/97	42.00		U	ug/kg	42.00		U	ug/kg	
OSB-5	M	Aroclor-1260	OSB-5C-16-MP	NONE	481085	1350690	4/8/97	38.00		U	ug/kg	38.00		U	ug/kg	
OSB-5	M	Aroclor-1260	OSB-5C-2-MP	NONE	480959	1350651	4/9/97	39.00		U	ug/kg	39.00		U	ug/kg	
OSB-5	M	Aroclor-1260	OSB-5C-3-MP	NONE	480931	1350663	4/9/97	38.00		U	ug/kg	38.00		U	ug/kg	
OSB-5	M	Aroclor-1260	OSB-5C-4-MP	NONE	480935	1350697	4/9/97	40.00		U	ug/kg	40.00		U	ug/kg	
OSB-5	M	Aroclor-1260	OSB-5C-5-MP	NONE	481009	1350622	4/9/97	41.00		U	ug/kg	41.00		U	ug/kg	
OSB-5	M	Aroclor-1260	OSB-5C-6-MP	NONE	480974	1350628	4/9/97	39.00		U	ug/kg	39.00		U	ug/kg	
OSB-5	M	Aroclor-1260	OSB-5C-7-MP	NONE	481007	1350666	4/8/97	39.00		U	ug/kg	39.00		U	ug/kg	
OSB-5	M	Aroclor-1260	OSB-5C-8-MP	NONE	481006	1350709	4/8/97	39.00		U	ug/kg	39.00		U	ug/kg	
OSB-5	M	Aroclor-1260	OSB-5C-9-MP	NONE	481062	1350602	4/8/97	38.00		U	ug/kg	38.00		U	ug/kg	
OSB-5	M	Arsenic	OSB-5C-1-MP	NONE	480920	1350612	4/9/97	7.00			mg/kg	7.00		-	mg/kg	
OSB-5	M	Arsenic	OSB-5C-10-MP	NONE	481027	1350640	4/8/97	7.40			mg/kg	7.40		-	mg/kg	
OSB-5	M	Arsenic	OSB-5C-10-MP-D	NONE	481027	1350640	4/8/97	9.10			mg/kg	9.10		-	mg/kg	OSB-5C-10-MP
OSB-5	M	Arsenic	OSB-5C-11-MP	NONE	481046	1350665	4/8/97	7.80			mg/kg	7.80		-	mg/kg	
OSB-5	M	Arsenic	OSB-5C-12-MP	NONE	481035	1350703	4/8/97	14.50			mg/kg	14.50		-	mg/kg	
OSB-5	M	Arsenic	OSB-5C-13-MP	NONE	481110	1350611	4/8/97	5.70			mg/kg	5.70		-	mg/kg	
OSB-5	M	Arsenic	OSB-5C-14-MP	NONE	481123	1350646	4/8/97	9.20			mg/kg	9.20		-	mg/kg	
OSB-5	M	Arsenic	OSB-5C-15-MP	NONE	481080	1350673	4/8/97	14.40			mg/kg	14.40		-	mg/kg	
OSB-5	M	Arsenic	OSB-5C-16-MP	NONE	481085	1350690	4/8/97	7.10			mg/kg	7.10		-	mg/kg	
OSB-5	M	Arsenic	OSB-5C-2-MP	NONE	480959	1350651	4/9/97	7.30			mg/kg	7.30		-	mg/kg	

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							Laboratory Data				Validation Data				
CU Name	CU Type	Parameter	Sample ID	Suffix	Northing	Easting	Sample Date	Lab Result	TPU	Qualifier	Units	Val. Result	TPU	Qualifier	Units	Duplicate of
OSB-5	M	Arsenic	OSB-5C-3-MP	NONE	480931	1350663	4/9/97	6.20			mg/kg	6.20		-	mg/kg	
OSB-5	M	Arsenic	OSB-5C-4-MP	NONE	480935	1350697	4/9/97	7.70			mg/kg	7.70		-	mg/kg	
OSB-5	M	Arsenic	OSB-5C-5-MP	NONE	481009	1350622	4/9/97	9.80			mg/kg	9.80		-	mg/kg	
OSB-5	M	Arsenic	OSB-5C-6-MP	NONE	480974	1350628	4/9/97	6.60			mg/kg	6.60		-	mg/kg	
OSB-5	M	Arsenic	OSB-5C-7-MP	NONE	481007	1350666	4/8/97	5.10			mg/kg	5.10		-	mg/kg	
OSB-5	M	Arsenic	OSB-5C-8-MP	NONE	481006	1350709	4/8/97	4.20			mg/kg	4.20		-	mg/kg	
OSB-5	M	Arsenic	OSB-5C-9-MP	NONE	481062	1350602	4/8/97	4.80			mg/kg	4.80		-	mg/kg	
OSB-5	M	Beryllium	OSB-5C-1-MP	NONE	480920	1350612	4/9/97	1.20			mg/kg	1.20		-	mg/kg	
OSB-5	M	Beryllium	OSB-5C-10-MP	NONE	481027	1350640	4/8/97	0.66			mg/kg	0.66		-	mg/kg	
OSB-5	M	Beryllium	OSB-5C-10-MP-D	NONE	481027	1350640	4/8/97	0.80			mg/kg	0.80		-	mg/kg	OSB-5C-10-MP
OSB-5	M	Beryllium	OSB-5C-11-MP	NONE	481046	1350665	4/8/97	0.85			mg/kg	0.85		-	mg/kg	
OSB-5	M	Beryllium	OSB-5C-12-MP	NONE	481035	1350703	4/8/97	1.10			mg/kg	1.10		-	mg/kg	
OSB-5	M	Beryllium	OSB-5C-13-MP	NONE	481110	1350611	4/8/97	0.59			mg/kg	0.59		-	mg/kg	
OSB-5	M	Beryllium	OSB-5C-14-MP	NONE	481123	1350646	4/8/97	0.85			mg/kg	0.85		-	mg/kg	
OSB-5	M	Beryllium	OSB-5C-15-MP	NONE	481080	1350673	4/8/97	1.30			mg/kg	1.30		-	mg/kg	
OSB-5	M	Beryllium	OSB-5C-16-MP	NONE	481085	1350690	4/8/97	0.76			mg/kg	0.76		-	mg/kg	
OSB-5	M	Beryllium	OSB-5C-2-MP	NONE	480959	1350651	4/9/97	0.78			mg/kg	0.78		-	mg/kg	
OSB-5	M	Beryllium	OSB-5C-3-MP	NONE	480931	1350663	4/9/97	0.65			mg/kg	0.65		-	mg/kg	
OSB-5	M	Beryllium	OSB-5C-4-MP	NONE	480935	1350697	4/9/97	0.90			mg/kg	0.90		-	mg/kg	
OSB-5	M	Beryllium	OSB-5C-5-MP	NONE	481009	1350622	4/9/97	0.89			mg/kg	0.89		-	mg/kg	
OSB-5	M	Beryllium	OSB-5C-6-MP	NONE	480974	1350628	4/9/97	0.81			mg/kg	0.81		-	mg/kg	
OSB-5	M	Beryllium	OSB-5C-7-MP	NONE	481007	1350666	4/8/97	0.55		B	mg/kg	0.55		-	mg/kg	
OSB-5	M	Beryllium	OSB-5C-8-MP	NONE	481006	1350709	4/8/97	0.38		B	mg/kg	0.38		-	mg/kg	
OSB-5	M	Beryllium	OSB-5C-9-MP	NONE	481062	1350602	4/8/97	0.37		B	mg/kg	0.37		-	mg/kg	
OSB-5	R	Moisture Content	OSB-5C-1-R	NONE	480920	1350612	4/9/97	18.28			Percent			NV	Percent	
OSB-5	R	Moisture Content	OSB-5C-10-R	NONE	481027	1350640	4/8/97	17.62			Percent			NV	Percent	
OSB-5	R	Moisture Content	OSB-5C-10-R-D	NONE	481027	1350640	4/8/97	16.78			Percent			NV	Percent	OSB-5C-10-R
OSB-5	R	Moisture Content	OSB-5C-11-R	NONE	481046	1350665	4/8/97	16.05			Percent			NV	Percent	
OSB-5	R	Moisture Content	OSB-5C-12-R	NONE	481035	1350703	4/8/97	15.05			Percent			NV	Percent	
OSB-5	R	Moisture Content	OSB-5C-13-R	NONE	481110	1350611	4/8/97	12.32			Percent			NV	Percent	
OSB-5	R	Moisture Content	OSB-5C-14-R	NONE	481123	1350646	4/8/97	19.38			Percent			NV	Percent	
OSB-5	R	Moisture Content	OSB-5C-15-R	NONE	481080	1350673	4/8/97	18.30			Percent			NV	Percent	
OSB-5	R	Moisture Content	OSB-5C-16-R	NONE	481085	1350690	4/8/97	14.02			Percent			NV	Percent	
OSB-5	R	Moisture Content	OSB-5C-2-R	NONE	480959	1350651	4/9/97	15.07			Percent			NV	Percent	
OSB-5	R	Moisture Content	OSB-5C-3-R	NONE	480931	1350663	4/9/97	14.47			Percent			NV	Percent	
OSB-5	R	Moisture Content	OSB-5C-4-R	NONE	480935	1350697	4/9/97	11.33			Percent			NV	Percent	
OSB-5	R	Moisture Content	OSB-5C-5-R	NONE	481009	1350622	4/9/97	20.27			Percent			NV	Percent	
OSB-5	R	Moisture Content	OSB-5C-6-R	NONE	480974	1350628	4/9/97	15.99			Percent			NV	Percent	
OSB-5	R	Moisture Content	OSB-5C-7-R	NONE	481007	1350666	4/8/97	14.12			Percent			NV	Percent	
OSB-5	R	Moisture Content	OSB-5C-8-R	NONE	481006	1350709	4/8/97	16.28			Percent			NV	Percent	

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							Laboratory Data				Validation Data				
CU Name	CU Type	Parameter	Sample ID	Suffix	Northing	Easting	Sample Date	Lab Result	TPU	Qualifier	Units	Val. Result	TPU	Qualifier	Units	Duplicate of
OSB-5	R	Moisture Content	OSB-5C-9-R	NONE	481062	1350602	4/8/97	16.39			Percent			NV	Percent	
OSB-5	R	Radium-226	OSB-5C-1-R	NONE	480920	1350612	4/9/97	1.30	0.18		pCi/g	1.26	0.18	J	pCi/g	
OSB-5	R	Radium-226	OSB-5C-10-R	NONE	481027	1350640	4/8/97	1.10	0.17		pCi/g	1.10	0.17	-	pCi/g	
OSB-5	R	Radium-226	OSB-5C-10-R-D	NONE	481027	1350640	4/8/97	1.00	0.15		pCi/g	1.04	0.15	J	pCi/g	OSB-5C-10-R
OSB-5	R	Radium-226	OSB-5C-11-R	NONE	481046	1350665	4/8/97	1.00	0.15		pCi/g	1.03	0.15	J	pCi/g	
OSB-5	R	Radium-226	OSB-5C-12-R	NONE	481035	1350703	4/8/97	0.86	0.14		pCi/g	0.86	0.14	J	pCi/g	
OSB-5	R	Radium-226	OSB-5C-13-R	NONE	481110	1350611	4/8/97	0.82	0.14		pCi/g	0.82	0.14	J	pCi/g	
OSB-5	R	Radium-226	OSB-5C-14-R	NONE	481123	1350646	4/8/97	1.30	0.24		pCi/g	1.30	0.24	-	pCi/g	
OSB-5	R	Radium-226	OSB-5C-15-R	NONE	481080	1350673	4/8/97	1.20	0.17		pCi/g	1.18	0.17	-	pCi/g	
OSB-5	R	Radium-226	OSB-5C-16-R	NONE	481085	1350690	4/8/97	1.10	0.22		pCi/g	1.07	0.22	-	pCi/g	
OSB-5	R	Radium-226	OSB-5C-2-R	NONE	480959	1350651	4/9/97	1.10	0.16		pCi/g	1.10	0.16	J	pCi/g	
OSB-5	R	Radium-226	OSB-5C-3-R	NONE	480931	1350663	4/9/97	1.00	0.16		pCi/g	1.04	0.15	-	pCi/g	
OSB-5	R	Radium-226	OSB-5C-4-R	NONE	480935	1350697	4/9/97	0.75	0.14		pCi/g	0.75	0.14	-	pCi/g	
OSB-5	R	Radium-226	OSB-5C-5-R	NONE	481009	1350622	4/9/97	1.40	0.20		pCi/g	1.43	0.20	J	pCi/g	
OSB-5	R	Radium-226	OSB-5C-6-R	NONE	480974	1350628	4/9/97	1.30	0.19		pCi/g	1.29	0.19	-	pCi/g	
OSB-5	R	Radium-226	OSB-5C-7-R	NONE	481007	1350666	4/8/97	0.79	0.13		pCi/g	0.79	0.13	-	pCi/g	
OSB-5	R	Radium-226	OSB-5C-8-R	NONE	481006	1350709	4/8/97	1.00	0.17		pCi/g	1.04	0.17	-	pCi/g	
OSB-5	R	Radium-226	OSB-5C-9-R	NONE	481062	1350602	4/8/97	1.10	0.17		pCi/g	1.11	0.17	J	pCi/g	
OSB-5	R	Radium-228	OSB-5C-1-R	NONE	480920	1350612	4/9/97	1.30	0.24		pCi/g	1.29	0.24	J	pCi/g	
OSB-5	R	Radium-228	OSB-5C-10-R	NONE	481027	1350640	4/8/97	0.94	0.24		pCi/g	0.94	0.24	-	pCi/g	
OSB-5	R	Radium-228	OSB-5C-10-R-D	NONE	481027	1350640	4/8/97	0.96	0.22		pCi/g	0.96	0.22	J	pCi/g	OSB-5C-10-R
OSB-5	R	Radium-228	OSB-5C-11-R	NONE	481046	1350665	4/8/97	1.10	0.21		pCi/g	1.10	0.21	J	pCi/g	
OSB-5	R	Radium-228	OSB-5C-12-R	NONE	481035	1350703	4/8/97	0.91	0.19		pCi/g	0.91	0.19	J	pCi/g	
OSB-5	R	Radium-228	OSB-5C-13-R	NONE	481110	1350611	4/8/97	0.97	0.21		pCi/g	0.97	0.21	J	pCi/g	
OSB-5	R	Radium-228	OSB-5C-14-R	NONE	481123	1350646	4/8/97	1.20	0.33		pCi/g	1.18	0.33	-	pCi/g	
OSB-5	R	Radium-228	OSB-5C-15-R	NONE	481080	1350673	4/8/97	1.10	0.25		pCi/g	1.12	0.25	-	pCi/g	
OSB-5	R	Radium-228	OSB-5C-16-R	NONE	481085	1350690	4/8/97	0.99	0.29		pCi/g	0.99	0.29	-	pCi/g	
OSB-5	R	Radium-228	OSB-5C-2-R	NONE	480959	1350651	4/9/97	0.94	0.24		pCi/g	0.94	0.24	J	pCi/g	
OSB-5	R	Radium-228	OSB-5C-3-R	NONE	480931	1350663	4/9/97	1.10	0.25		pCi/g	1.07	0.25	-	pCi/g	
OSB-5	R	Radium-228	OSB-5C-4-R	NONE	480935	1350697	4/9/97	0.58	0.19		pCi/g	0.58	0.19	-	pCi/g	
OSB-5	R	Radium-228	OSB-5C-5-R	NONE	481009	1350622	4/9/97	1.40	0.27		pCi/g	1.40	0.27	J	pCi/g	
OSB-5	R	Radium-228	OSB-5C-6-R	NONE	480974	1350628	4/9/97	1.10	0.27		pCi/g	1.13	0.27	-	pCi/g	
OSB-5	R	Radium-228	OSB-5C-7-R	NONE	481007	1350666	4/8/97	0.78	0.18		pCi/g	0.79	0.18	-	pCi/g	
OSB-5	R	Radium-228	OSB-5C-8-R	NONE	481006	1350709	4/8/97	1.10	0.26		pCi/g	1.05	0.26	-	pCi/g	
OSB-5	R	Radium-228	OSB-5C-9-R	NONE	481062	1350602	4/8/97	0.98	0.24		pCi/g	0.98	0.24	J	pCi/g	
OSB-5	R	Thorium-228	OSB-5C-1-R	NONE	480920	1350612	4/9/97	1.30	0.31		pCi/g	1.31	0.26	-	pCi/g	
OSB-5	R	Thorium-228	OSB-5C-10-R	NONE	481027	1350640	4/8/97	1.20	0.33		pCi/g	1.15	0.26	-	pCi/g	
OSB-5	R	Thorium-228	OSB-5C-10-R-D	NONE	481027	1350640	4/8/97	0.97	0.30		pCi/g	0.97	0.23	-	pCi/g	OSB-5C-10-R
OSB-5	R	Thorium-228	OSB-5C-11-R	NONE	481046	1350665	4/8/97	1.10	0.26		pCi/g	1.14	0.22	-	pCi/g	
OSB-5	R	Thorium-228	OSB-5C-12-R	NONE	481035	1350703	4/8/97	0.83	0.23		pCi/g	0.83	0.18	-	pCi/g	

							Laboratory Data				Validation Data				
CU Name	CU Type	Parameter	Sample ID	Suffix	Northing	Easting	Sample Date	Lab Result	TPU	Qualifier	Units	Val. Result	TPU	Qualifier	Units	Duplicate of
OSB-5	R	Thorium-228	OSB-5C-13-R	NONE	481110	1350611	4/8/97	0.85	0.27		pCi/g	0.85	0.21	-	pCi/g	
OSB-5	R	Thorium-228	OSB-5C-14-R	NONE	481123	1350646	4/8/97	1.00	0.29		pCi/g	1.00	0.23	-	pCi/g	
OSB-5	R	Thorium-228	OSB-5C-15-R	NONE	481080	1350673	4/8/97	1.20	0.33		pCi/g	1.17	0.26	-	pCi/g	
OSB-5	R	Thorium-228	OSB-5C-16-R	NONE	481085	1350690	4/8/97	1.00	0.28		pCi/g	1.00	0.22	-	pCi/g	
OSB-5	R	Thorium-228	OSB-5C-2-R	NONE	480959	1350651	4/9/97	0.98	0.32		pCi/g	0.98	0.23	J	pCi/g	
OSB-5	R	Thorium-228	OSB-5C-3-R	NONE	480931	1350663	4/9/97	1.30	0.36		pCi/g	1.27	0.30	-	pCi/g	
OSB-5	R	Thorium-228	OSB-5C-4-R	NONE	480935	1350697	4/9/97	0.67	0.25		pCi/g	0.67	0.18	-	pCi/g	
OSB-5	R	Thorium-228	OSB-5C-5-R	NONE	481009	1350622	4/9/97	1.50	0.34		pCi/g	1.47	0.29	-	pCi/g	
OSB-5	R	Thorium-228	OSB-5C-6-R	NONE	480974	1350628	4/9/97	1.00	0.32		pCi/g	1.04	0.25	-	pCi/g	
OSB-5	R	Thorium-228	OSB-5C-7-R	NONE	481007	1350666	4/8/97	1.00	0.34		pCi/g	1.01	0.25	-	pCi/g	
OSB-5	R	Thorium-228	OSB-5C-8-R	NONE	481006	1350709	4/8/97	0.88	0.26		pCi/g	0.88	0.20	-	pCi/g	
OSB-5	R	Thorium-228	OSB-5C-9-R	NONE	481062	1350602	4/8/97	1.10	0.30		pCi/g	1.08	0.24	-	pCi/g	
OSB-5	R	Thorium-232	OSB-5C-1-R	NONE	480920	1350612	4/9/97	0.94	0.21		pCi/g	0.97	0.20	-	pCi/g	
OSB-5	R	Thorium-232	OSB-5C-10-R	NONE	481027	1350640	4/8/97	0.80	0.22		pCi/g	0.83	0.20	-	pCi/g	
OSB-5	R	Thorium-232	OSB-5C-10-R-D	NONE	481027	1350640	4/8/97	0.82	0.21		pCi/g	0.85	0.19	-	pCi/g	OSB-5C-10-R
OSB-5	R	Thorium-232	OSB-5C-11-R	NONE	481046	1350665	4/8/97	1.00	0.20		pCi/g	1.02	0.20	-	pCi/g	
OSB-5	R	Thorium-232	OSB-5C-12-R	NONE	481035	1350703	4/8/97	0.78	0.18		pCi/g	0.80	0.17	-	pCi/g	
OSB-5	R	Thorium-232	OSB-5C-13-R	NONE	481110	1350611	4/8/97	0.79	0.20		pCi/g	0.82	0.19	-	pCi/g	
OSB-5	R	Thorium-232	OSB-5C-14-R	NONE	481123	1350646	4/8/97	0.94	0.21		pCi/g	0.97	0.20	-	pCi/g	
OSB-5	R	Thorium-232	OSB-5C-15-R	NONE	481080	1350673	4/8/97	0.89	0.23		pCi/g	0.93	0.21	-	pCi/g	
OSB-5	R	Thorium-232	OSB-5C-16-R	NONE	481085	1350690	4/8/97	0.87	0.21		pCi/g	0.90	0.20	-	pCi/g	
OSB-5	R	Thorium-232	OSB-5C-2-R	NONE	480959	1350651	4/9/97	0.75	0.20		pCi/g	0.79	0.18	J	pCi/g	
OSB-5	R	Thorium-232	OSB-5C-3-R	NONE	480931	1350663	4/9/97	1.20	0.28		pCi/g	1.27	0.27	-	pCi/g	
OSB-5	R	Thorium-232	OSB-5C-4-R	NONE	480935	1350697	4/9/97	0.61	0.17		pCi/g	0.64	0.16	-	pCi/g	
OSB-5	R	Thorium-232	OSB-5C-5-R	NONE	481009	1350622	4/9/97	1.10	0.25		pCi/g	1.17	0.24	-	pCi/g	
OSB-5	R	Thorium-232	OSB-5C-6-R	NONE	480974	1350628	4/9/97	0.92	0.22		pCi/g	0.96	0.21	-	pCi/g	
OSB-5	R	Thorium-232	OSB-5C-7-R	NONE	481007	1350666	4/8/97	0.73	0.21		pCi/g	0.77	0.19	-	pCi/g	
OSB-5	R	Thorium-232	OSB-5C-8-R	NONE	481006	1350709	4/8/97	0.71	0.18		pCi/g	0.74	0.17	-	pCi/g	
OSB-5	R	Thorium-232	OSB-5C-9-R	NONE	481062	1350602	4/8/97	0.98	0.22		pCi/g	1.01	0.21	-	pCi/g	
OSB-5	R	Uranium, Total	OSB-5C-1-R	NONE	480920	1350612	4/9/97				ug/g	6.66	3.35	J	ug/g	
OSB-5	R	Uranium, Total	OSB-5C-10-R	NONE	481027	1350640	4/8/97				ug/g	16.21	6.21	-	ug/g	
OSB-5	R	Uranium, Total	OSB-5C-10-R-D	NONE	481027	1350640	4/8/97				ug/g	16.65	5.34	J	ug/g	OSB-5C-10-R
OSB-5	R	Uranium, Total	OSB-5C-11-R	NONE	481046	1350665	4/8/97				ug/g	11.26	3.63	J	ug/g	
OSB-5	R	Uranium, Total	OSB-5C-12-R	NONE	481035	1350703	4/8/97				ug/g	4.63	3.17	J	ug/g	
OSB-5	R	Uranium, Total	OSB-5C-13-R	NONE	481110	1350611	4/8/97				ug/g	6.34	4.13	J	ug/g	
OSB-5	R	Uranium, Total	OSB-5C-14-R	NONE	481123	1350646	4/8/97				ug/g	5.71	6.59	J	ug/g	
OSB-5	R	Uranium, Total	OSB-5C-15-R	NONE	481080	1350673	4/8/97				ug/g	12.54	5.68	-	ug/g	
OSB-5	R	Uranium, Total	OSB-5C-16-R	NONE	481085	1350690	4/8/97				ug/g	4.15	6.21	J	ug/g	
OSB-5	R	Uranium, Total	OSB-5C-2-R	NONE	480959	1350651	4/9/97				ug/g	23.55	6.97	J	ug/g	
OSB-5	R	Uranium, Total	OSB-5C-3-R	NONE	480931	1350663	4/9/97				ug/g	41.62	10.41	-	ug/g	

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								Laboratory Data				Validation Data				
CU Name	CU Type	Parameter	Sample ID	Suffix	Northing	Easting	Sample Date	Lab Result	TPU	Qualifier	Units	Val. Result	TPU	Qualifier	Units	Duplicate of
OSB-5	R	Uranium, Total	OSB-5C-4-R	NONE	480935	1350697	4/9/97				ug/g	6.90	4.25	J	ug/g	
OSB-5	R	Uranium, Total	OSB-5C-5-R	NONE	481009	1350622	4/9/97				ug/g	6.70	5.42	J	ug/g	
OSB-5	R	Uranium, Total	OSB-5C-6-R	NONE	480974	1350628	4/9/97				ug/g	17.47	5.91	-	ug/g	
OSB-5	R	Uranium, Total	OSB-5C-7-R	NONE	481007	1350666	4/8/97				ug/g	5.19	3.45	J	ug/g	
OSB-5	R	Uranium, Total	OSB-5C-8-R	NONE	481006	1350709	4/8/97				ug/g	6.70	4.77	J	ug/g	
OSB-5	R	Uranium, Total	OSB-5C-9-R	NONE	481062	1350602	4/8/97				ug/g	6.66	3.96	J	ug/g	
OSB-5	R	Uranium-238	OSB-5C-1-R	NONE	480920	1350612	4/9/97	2.20	1.10		pCi/g	2.22	1.12	J	pCi/g	
OSB-5	R	Uranium-238	OSB-5C-10-R	NONE	481027	1350640	4/8/97	5.40	2.10		pCi/g	5.41	2.07	-	pCi/g	
OSB-5	R	Uranium-238	OSB-5C-10-R-D	NONE	481027	1350640	4/8/97	5.60	1.80		pCi/g	5.55	1.78	J	pCi/g	OSB-5C-10-R
OSB-5	R	Uranium-238	OSB-5C-11-R	NONE	481046	1350665	4/8/97	3.80	1.20		pCi/g	3.76	1.21	J	pCi/g	
OSB-5	R	Uranium-238	OSB-5C-12-R	NONE	481035	1350703	4/8/97	1.50	1.10		pCi/g	1.54	1.06	J	pCi/g	
OSB-5	R	Uranium-238	OSB-5C-13-R	NONE	481110	1350611	4/8/97	2.10	1.40		pCi/g	2.11	1.38	J	pCi/g	
OSB-5	R	Uranium-238	OSB-5C-14-R	NONE	481123	1350646	4/8/97	1.90	2.20		pCi/g	1.90	2.20	J	pCi/g	
OSB-5	R	Uranium-238	OSB-5C-15-R	NONE	481080	1350673	4/8/97	4.20	1.90		pCi/g	4.18	1.89	-	pCi/g	
OSB-5	R	Uranium-238	OSB-5C-16-R	NONE	481085	1350690	4/8/97	1.40	2.10		pCi/g	1.38	2.07	J	pCi/g	
OSB-5	R	Uranium-238	OSB-5C-2-R	NONE	480959	1350651	4/9/97	7.90	2.30		pCi/g	7.86	2.32	J	pCi/g	
OSB-5	R	Uranium-238	OSB-5C-3-R	NONE	480931	1350663	4/9/97	14.00	3.50		pCi/g	13.88	3.47	-	pCi/g	
OSB-5	R	Uranium-238	OSB-5C-4-R	NONE	480935	1350697	4/9/97	2.30	1.40		pCi/g	2.30	1.42	J	pCi/g	
OSB-5	R	Uranium-238	OSB-5C-5-R	NONE	481009	1350622	4/9/97	2.20	1.80		pCi/g	2.24	1.81	J	pCi/g	
OSB-5	R	Uranium-238	OSB-5C-6-R	NONE	480974	1350628	4/9/97	5.80	2.00		pCi/g	5.83	1.97	-	pCi/g	
OSB-5	R	Uranium-238	OSB-5C-7-R	NONE	481007	1350666	4/8/97	1.70	1.20		pCi/g	1.73	1.15	J	pCi/g	
OSB-5	R	Uranium-238	OSB-5C-8-R	NONE	481006	1350709	4/8/97	2.20	1.60		pCi/g	2.23	1.59	J	pCi/g	
OSB-5	R	Uranium-238	OSB-5C-9-R	NONE	481062	1350602	4/8/97	2.20	1.30		pCi/g	2.22	1.32	J	pCi/g	
P17-22	M	Arsenic	P17-22C2-M-1	NONE	481565.63	1351333	3/24/97	12.70		N	mg/kg	12.70		J	mg/kg	
P17-22	M	Arsenic	P17-22C2-M-10	NONE	481692.7	1351374	3/24/97	7.70		N	mg/kg	7.70		J	mg/kg	
P17-22	M	Arsenic	P17-22C2-M-11	NONE	481703.26	1351376	3/24/97	7.50		N	mg/kg	7.50		J	mg/kg	
P17-22	M	Arsenic	P17-22C2-M-11-D	NONE	481703.26	1351376	3/24/97	7.30		N	mg/kg	7.30		J	mg/kg	P17-22C2-M-11
P17-22	M	Arsenic	P17-22C2-M-2	NONE	481541.7	1351334	3/24/97	8.60		N	mg/kg	8.60		J	mg/kg	
P17-22	M	Arsenic	P17-22C2-M-3	NONE	481438.69	1351346	3/24/97	10.40		N	mg/kg	10.40		J	mg/kg	
P17-22	M	Arsenic	P17-22C2-M-4	NONE	481569.81	1351366	3/24/97	7.80		N	mg/kg	7.80		J	mg/kg	
P17-22	M	Arsenic	P17-22C2-M-5	NONE	481400.55	1351368	3/24/97	7.70		N	mg/kg	7.70		J	mg/kg	
P17-22	M	Arsenic	P17-22C2-M-6	NONE	481464.29	1351375	3/24/97	9.00		N	mg/kg	9.00		J	mg/kg	
P17-22	M	Arsenic	P17-22C2-M-7	NONE	481255.76	1351378	3/24/97	10.10		N	mg/kg	10.10		J	mg/kg	
P17-22	M	Arsenic	P17-22C2-M-8	NONE	481346.64	1351377	3/24/97	6.70		N	mg/kg	6.70		J	mg/kg	
P17-22	M	Arsenic	P17-22C2-M-9	NONE	481380.87	1351382	3/24/97	9.30		N	mg/kg	9.30		J	mg/kg	
P17-22	M	Beryllium	P17-22C2-M-1	NONE	481565.63	1351333	3/24/97	1.40			mg/kg	1.40		U	mg/kg	
P17-22	M	Beryllium	P17-22C2-M-10	NONE	481692.7	1351374	3/24/97	0.84			mg/kg	0.84		U	mg/kg	
P17-22	M	Beryllium	P17-22C2-M-11	NONE	481703.26	1351376	3/24/97	0.80			mg/kg	0.80		U	mg/kg	
P17-22	M	Beryllium	P17-22C2-M-11-D	NONE	481703.26	1351376	3/24/97	0.83			mg/kg	0.83		U	mg/kg	P17-22C2-M-11

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								Laboratory Data				Validation Data				
CU Name	CU Type	Parameter	Sample ID	Suffix	Northing	Easting	Sample Date	Lab Result	TPU	Qualifier	Units	Val. Result	TPU	Qualifier	Units	Duplicate of
P17-22	M	Beryllium	P17-22C2-M-2	NONE	481541.7	1351334	3/24/97	0.83			mg/kg	0.83		U	mg/kg	
P17-22	M	Beryllium	P17-22C2-M-3	NONE	481438.69	1351346	3/24/97	1.20			mg/kg	1.20		U	mg/kg	
P17-22	M	Beryllium	P17-22C2-M-4	NONE	481569.81	1351366	3/24/97	0.65			mg/kg	0.65		U	mg/kg	
P17-22	M	Beryllium	P17-22C2-M-5	NONE	481400.55	1351368	3/24/97	0.75			mg/kg	0.75		U	mg/kg	
P17-22	M	Beryllium	P17-22C2-M-6	NONE	481464.29	1351375	3/24/97	1.20			mg/kg	1.20		U	mg/kg	
P17-22	M	Beryllium	P17-22C2-M-7	NONE	481255.76	1351378	3/24/97	1.10			mg/kg	1.10		U	mg/kg	
P17-22	M	Beryllium	P17-22C2-M-8	NONE	481346.64	1351377	3/24/97	0.75			mg/kg	0.75		U	mg/kg	
P17-22	M	Beryllium	P17-22C2-M-9	NONE	481380.87	1351382	3/24/97	0.88			mg/kg	0.88		U	mg/kg	
P17-22	R	Moisture Content	P17-22C2-R-1	NONE	481569.86	1351329	3/24/97	18.70			Percent			NV	Percent	
P17-22	R	Moisture Content	P17-22C2-R-1-D	NONE	481569.86	1351329	3/24/97	18.80			Percent			NV	Percent	P17-22C2-R-1
P17-22	R	Moisture Content	P17-22C2-R-10	NONE	481469.69	1351393	3/24/97	16.10			Percent			NV	Percent	
P17-22	R	Moisture Content	P17-22C2-R-11	NONE	481599.7	1351397	3/24/97	17.20			Percent			NV	Percent	
P17-22	R	Moisture Content	P17-22C2-R-12	NONE	481625.84	1351355	3/24/97	22.00			Percent			NV	Percent	
P17-22	R	Moisture Content	P17-22C2-R-13	NONE	481702.5	1351368	3/24/97	23.20			Percent			NV	Percent	
P17-22	R	Moisture Content	P17-22C2-R-13-D	NONE	481702.5	1351368	3/24/97	22.30			Percent			NV	Percent	P17-22C2-R-13
P17-22	R	Moisture Content	P17-22C2-R-2	NONE	481523.79	1351333	3/24/97	18.40			Percent			NV	Percent	
P17-22	R	Moisture Content	P17-22C2-R-3	NONE	481477.66	1351339	3/24/97	19.80			Percent			NV	Percent	
P17-22	R	Moisture Content	P17-22C2-R-4	NONE	481402.76	1351342	3/24/97	16.30			Percent			NV	Percent	
P17-22	R	Moisture Content	P17-22C2-R-5	NONE	481351.74	1351365	3/24/97	16.20			Percent			NV	Percent	
P17-22	R	Moisture Content	P17-22C2-R-6	NONE	481331.39	1351375	3/24/97	15.20			Percent			NV	Percent	
P17-22	R	Moisture Content	P17-22C2-R-7	NONE	481444.59	1351375	3/24/97	16.80			Percent			NV	Percent	
P17-22	R	Moisture Content	P17-22C2-R-8	NONE	481229.54	1351389	3/24/97	19.60			Percent			NV	Percent	
P17-22	R	Moisture Content	P17-22C2-R-9	NONE	481453.87	1351390	3/24/97	16.20			Percent			NV	Percent	
P17-22	R	Radium-226	P17-22C2-R-1	NONE	481569.86	1351329	3/24/97	1.40	0.20		pCi/g	1.37	0.21	-	pCi/g	
P17-22	R	Radium-226	P17-22C2-R-1-D	NONE	481569.86	1351329	3/24/97	1.50	0.15		pCi/g	1.52	0.15	-	pCi/g	P17-22C2-R-1
P17-22	R	Radium-226	P17-22C2-R-10	NONE	481469.69	1351393	3/24/97	1.40	0.15		pCi/g	1.45	0.15	-	pCi/g	
P17-22	R	Radium-226	P17-22C2-R-11	NONE	481599.7	1351397	3/24/97	1.50	0.61		pCi/g	1.06	0.15	-	pCi/g	
P17-22	R	Radium-226	P17-22C2-R-12	NONE	481625.84	1351355	3/24/97	1.30	0.18		pCi/g	1.31	0.18	-	pCi/g	
P17-22	R	Radium-226	P17-22C2-R-13	NONE	481702.5	1351368	3/24/97	1.10	0.15		pCi/g	1.13	0.15	-	pCi/g	
P17-22	R	Radium-226	P17-22C2-R-13-D	NONE	481702.5	1351368	3/24/97	1.30	0.20		pCi/g	1.33	0.20	-	pCi/g	P17-22C2-R-13
P17-22	R	Radium-226	P17-22C2-R-2	NONE	481523.79	1351333	3/24/97	1.30	0.14		pCi/g	1.33	0.14	J	pCi/g	
P17-22	R	Radium-226	P17-22C2-R-2	RE	481523.79	1351333	3/24/97	1.30	0.14		pCi/g	1.33	0.14	J	pCi/g	
P17-22	R	Radium-226	P17-22C2-R-3	NONE	481477.66	1351339	3/24/97	1.40	0.19		pCi/g	1.36	0.19	-	pCi/g	
P17-22	R	Radium-226	P17-22C2-R-4	NONE	481402.76	1351342	3/24/97	1.40	0.18		pCi/g	1.43	0.18	-	pCi/g	
P17-22	R	Radium-226	P17-22C2-R-5	NONE	481351.74	1351365	3/24/97	1.20	0.34		pCi/g	1.19	0.16	J	pCi/g	
P17-22	R	Radium-226	P17-22C2-R-5	RE	481351.74	1351365	3/24/97	1.20	0.16		pCi/g	1.19	0.16	J	pCi/g	
P17-22	R	Radium-226	P17-22C2-R-6	NONE	481331.39	1351375	3/24/97	1.40	0.16		pCi/g	1.39	0.16	-	pCi/g	
P17-22	R	Radium-226	P17-22C2-R-7	NONE	481444.59	1351375	3/24/97	1.30	0.14		pCi/g	1.30	0.14	-	pCi/g	
P17-22	R	Radium-226	P17-22C2-R-8	NONE	481229.54	1351389	3/24/97	1.60	0.18		pCi/g	1.62	0.18	-	pCi/g	
P17-22	R	Radium-226	P17-22C2-R-9	NONE	481453.87	1351390	3/24/97	1.40	0.18		pCi/g	1.44	0.18	-	pCi/g	

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								Laboratory Data				Validation Data					
CU Name	CU Type	Parameter	Sample ID	Suffix	Northing	Easting	Sample Date	Lab Result	TPU	Qualifier	Units	Val. Result	TPU	Qualifier	Units	Duplicate of
P17-22	R	Radium-228	P17-22C2-R-1	NONE	481569.86	1351329	3/24/97	1.40	0.34		pCi/g	1.40	0.34	-	pCi/g	
P17-22	R	Radium-228	P17-22C2-R-1-D	NONE	481569.86	1351329	3/24/97	1.90	0.47		pCi/g	1.89	0.47	-	pCi/g	P17-22C2-R-1
P17-22	R	Radium-228	P17-22C2-R-10	NONE	481469.69	1351393	3/24/97	1.40	0.34		pCi/g	1.41	0.34	-	pCi/g	
P17-22	R	Radium-228	P17-22C2-R-11	NONE	481599.7	1351397	3/24/97	1.20	0.33		pCi/g	1.16	0.33	-	pCi/g	
P17-22	R	Radium-228	P17-22C2-R-12	NONE	481625.84	1351355	3/24/97	1.30	0.33		pCi/g	1.26	0.33	-	pCi/g	
P17-22	R	Radium-228	P17-22C2-R-13	NONE	481702.5	1351368	3/24/97	1.10	0.32		pCi/g	1.06	0.32	-	pCi/g	
P17-22	R	Radium-228	P17-22C2-R-13-D	NONE	481702.5	1351368	3/24/97	1.10	0.33		pCi/g	1.13	0.33	-	pCi/g	P17-22C2-R-13
P17-22	R	Radium-228	P17-22C2-R-2	NONE	481523.79	1351333	3/24/97	1.30	0.34		pCi/g	1.31	0.35	J	pCi/g	
P17-22	R	Radium-228	P17-22C2-R-2	RE	481523.79	1351333	3/24/97	1.30	0.34		pCi/g	1.31	0.35	J	pCi/g	
P17-22	R	Radium-228	P17-22C2-R-3	NONE	481477.66	1351339	3/24/97	1.20	0.34		pCi/g	1.23	0.34	-	pCi/g	
P17-22	R	Radium-228	P17-22C2-R-4	NONE	481402.76	1351342	3/24/97	1.50	0.40		pCi/g	1.51	0.40	-	pCi/g	
P17-22	R	Radium-228	P17-22C2-R-5	NONE	481351.74	1351365	3/24/97	1.20	0.19		pCi/g	1.15	0.34	J	pCi/g	
P17-22	R	Radium-228	P17-22C2-R-5	RE	481351.74	1351365	3/24/97	1.20	0.34		pCi/g	1.15	0.34	J	pCi/g	
P17-22	R	Radium-228	P17-22C2-R-6	NONE	481331.39	1351375	3/24/97	1.40	0.37		pCi/g	1.41	0.37	-	pCi/g	
P17-22	R	Radium-228	P17-22C2-R-7	NONE	481444.59	1351375	3/24/97	1.10	0.45		pCi/g	1.36	0.34	-	pCi/g	
P17-22	R	Radium-228	P17-22C2-R-8	NONE	481229.54	1351389	3/24/97	1.40	0.38		pCi/g	1.43	0.38	-	pCi/g	
P17-22	R	Radium-228	P17-22C2-R-9	NONE	481453.87	1351390	3/24/97	1.40	0.36		pCi/g	1.36	0.36	-	pCi/g	
P17-22	R	Thorium-228	P17-22C2-R-1	NONE	481569.86	1351329	3/24/97	1.40	0.48		pCi/g	1.43	0.48	-	pCi/g	
P17-22	R	Thorium-228	P17-22C2-R-1-D	NONE	481569.86	1351329	3/24/97	1.40	0.48		pCi/g	1.36	0.49	-	pCi/g	P17-22C2-R-1
P17-22	R	Thorium-228	P17-22C2-R-10	NONE	481469.69	1351393	3/24/97	1.40	0.53		pCi/g	1.40	0.53	-	pCi/g	
P17-22	R	Thorium-228	P17-22C2-R-11	NONE	481599.7	1351397	3/24/97	1.30	0.50		pCi/g	1.33	0.50	-	pCi/g	
P17-22	R	Thorium-228	P17-22C2-R-12	NONE	481625.84	1351355	3/24/97	1.30	0.57		pCi/g	1.35	0.57	-	pCi/g	
P17-22	R	Thorium-228	P17-22C2-R-13	NONE	481702.5	1351368	3/24/97	1.40	0.59		pCi/g	1.41	0.59	-	pCi/g	
P17-22	R	Thorium-228	P17-22C2-R-13-D	NONE	481702.5	1351368	3/24/97	1.40	0.61		pCi/g	1.36	0.61	J	pCi/g	P17-22C2-R-13
P17-22	R	Thorium-228	P17-22C2-R-2	NONE	481523.79	1351333	3/24/97	1.30	0.50		pCi/g	1.34	0.50	-	pCi/g	
P17-22	R	Thorium-228	P17-22C2-R-3	NONE	481477.66	1351339	3/24/97	1.20	0.46		pCi/g	1.24	0.46	J	pCi/g	
P17-22	R	Thorium-228	P17-22C2-R-4	NONE	481402.76	1351342	3/24/97	1.30	0.56		pCi/g	1.32	0.56	-	pCi/g	
P17-22	R	Thorium-228	P17-22C2-R-5	NONE	481351.74	1351365	3/24/97	1.60	0.65		pCi/g	1.57	0.65	-	pCi/g	
P17-22	R	Thorium-228	P17-22C2-R-6	NONE	481331.39	1351375	3/24/97	1.50	0.67		pCi/g	1.49	0.67	J	pCi/g	
P17-22	R	Thorium-228	P17-22C2-R-7	NONE	481444.59	1351375	3/24/97	1.30	0.52		pCi/g	1.29	0.52	-	pCi/g	
P17-22	R	Thorium-228	P17-22C2-R-8	NONE	481229.54	1351389	3/24/97	1.60	0.59		pCi/g	1.57	0.59	J	pCi/g	
P17-22	R	Thorium-228	P17-22C2-R-9	NONE	481453.87	1351390	3/24/97	1.50	0.56		pCi/g	1.49	0.57	-	pCi/g	
P17-22	R	Thorium-232	P17-22C2-R-1	NONE	481569.86	1351329	3/24/97	1.30	0.45		pCi/g	1.34	0.45	-	pCi/g	
P17-22	R	Thorium-232	P17-22C2-R-1-D	NONE	481569.86	1351329	3/24/97	1.10	0.41		pCi/g	1.13	0.41	-	pCi/g	P17-22C2-R-1
P17-22	R	Thorium-232	P17-22C2-R-10	NONE	481469.69	1351393	3/24/97	1.30	0.48		pCi/g	1.26	0.48	-	pCi/g	
P17-22	R	Thorium-232	P17-22C2-R-11	NONE	481599.7	1351397	3/24/97	1.20	0.46		pCi/g	1.23	0.46	-	pCi/g	
P17-22	R	Thorium-232	P17-22C2-R-12	NONE	481625.84	1351355	3/24/97	1.20	0.51		pCi/g	1.20	0.51	-	pCi/g	
P17-22	R	Thorium-232	P17-22C2-R-13	NONE	481702.5	1351368	3/24/97	1.20	0.50		pCi/g	1.19	0.50	-	pCi/g	
P17-22	R	Thorium-232	P17-22C2-R-13-D	NONE	481702.5	1351368	3/24/97	1.20	0.55		pCi/g	1.23	0.55	J	pCi/g	P17-22C2-R-13
P17-22	R	Thorium-232	P17-22C2-R-2	NONE	481523.79	1351333	3/24/97	1.20	0.47		pCi/g	1.25	0.47	-	pCi/g	

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								Laboratory Data				Validation Data					
CU Name	CU Type	Parameter	Sample ID	Suffix	Northing	Easting	Sample Date	Lab Result	TPU	Qualifier	Units	Val. Result	TPU	Qualifier	Units	Duplicate of
P17-22	R	Thorium-232	P17-22C2-R-3	NONE	481477.66	1351339	3/24/97	1.20	0.45		pCi/g	1.20	0.45	J	pCi/g	
P17-22	R	Thorium-232	P17-22C2-R-4	NONE	481402.76	1351342	3/24/97	1.40	0.58		pCi/g	1.37	0.58	-	pCi/g	
P17-22	R	Thorium-232	P17-22C2-R-5	NONE	481351.74	1351365	3/24/97	1.20	0.51		pCi/g	1.22	0.51	-	pCi/g	
P17-22	R	Thorium-232	P17-22C2-R-6	NONE	481331.39	1351375	3/24/97	1.10	0.48		pCi/g	1.07	0.48	J	pCi/g	
P17-22	R	Thorium-232	P17-22C2-R-7	NONE	481444.59	1351375	3/24/97	1.20	0.49		pCi/g	1.21	0.49	-	pCi/g	
P17-22	R	Thorium-232	P17-22C2-R-8	NONE	481229.54	1351389	3/24/97	1.30	0.51		pCi/g	1.34	0.51	J	pCi/g	
P17-22	R	Thorium-232	P17-22C2-R-9	NONE	481453.87	1351390	3/24/97	1.20	0.45		pCi/g	1.19	0.45	-	pCi/g	
P17-22	R	Uranium, Total	P17-22C2-R-1	NONE	481569.86	1351329	3/24/97				ug/g	1.71	0.69	-	ug/g	
P17-22	R	Uranium, Total	P17-22C2-R-1-D	NONE	481569.86	1351329	3/24/97				ug/g	5.75	2.58	-	ug/g	P17-22C2-R-1
P17-22	R	Uranium, Total	P17-22C2-R-10	NONE	481469.69	1351393	3/24/97				ug/g	2.97	1.44	-	ug/g	
P17-22	R	Uranium, Total	P17-22C2-R-11	NONE	481599.7	1351397	3/24/97				ug/g	7.38	2.49	-	ug/g	
P17-22	R	Uranium, Total	P17-22C2-R-12	NONE	481625.84	1351355	3/24/97				ug/g	18.44	3.44	-	ug/g	
P17-22	R	Uranium, Total	P17-22C2-R-13	NONE	481702.5	1351368	3/24/97				ug/g	25.64	4.47	-	ug/g	
P17-22	R	Uranium, Total	P17-22C2-R-13-D	NONE	481702.5	1351368	3/24/97				ug/g	19.64	3.59	-	ug/g	P17-22C2-R-13
P17-22	R	Uranium, Total	P17-22C2-R-2	NONE	481523.79	1351333	3/24/97				ug/g	1.56	0.72	J	ug/g	
P17-22	R	Uranium, Total	P17-22C2-R-2	RE	481523.79	1351333	3/24/97				ug/g	1.56	0.72	J	ug/g	
P17-22	R	Uranium, Total	P17-22C2-R-3	NONE	481477.66	1351339	3/24/97				ug/g	9.96	2.46	-	ug/g	
P17-22	R	Uranium, Total	P17-22C2-R-4	NONE	481402.76	1351342	3/24/97				ug/g	9.48	2.46	-	ug/g	
P17-22	R	Uranium, Total	P17-22C2-R-5	NONE	481351.74	1351365	3/24/97				ug/g	12.02	2.67	J	ug/g	
P17-22	R	Uranium, Total	P17-22C2-R-5	RE	481351.74	1351365	3/24/97				ug/g	12.02	2.67	J	ug/g	
P17-22	R	Uranium, Total	P17-22C2-R-6	NONE	481331.39	1351375	3/24/97				ug/g	17.42	3.29	-	ug/g	
P17-22	R	Uranium, Total	P17-22C2-R-7	NONE	481444.59	1351375	3/24/97				ug/g	1.49	0.89	J	ug/g	
P17-22	R	Uranium, Total	P17-22C2-R-8	NONE	481229.54	1351389	3/24/97				ug/g	4.11		U	ug/g	
P17-22	R	Uranium, Total	P17-22C2-R-9	NONE	481453.87	1351390	3/24/97				ug/g	14.06	2.85	-	ug/g	
P17-22	R	Uranium-238	P17-22C2-R-1	NONE	481569.86	1351329	3/24/97	0.57	0.23		pCi/g	0.57	0.23	-	pCi/g	
P17-22	R	Uranium-238	P17-22C2-R-1-D	NONE	481569.86	1351329	3/24/97	1.90	0.86		pCi/g	1.92	0.86	-	pCi/g	P17-22C2-R-1
P17-22	R	Uranium-238	P17-22C2-R-10	NONE	481469.69	1351393	3/24/97	0.99	0.48		pCi/g	0.99	0.48	-	pCi/g	
P17-22	R	Uranium-238	P17-22C2-R-11	NONE	481599.7	1351397	3/24/97	2.50	0.83		pCi/g	2.46	0.83	-	pCi/g	
P17-22	R	Uranium-238	P17-22C2-R-12	NONE	481625.84	1351355	3/24/97	6.20	1.10		pCi/g	6.15	1.15	-	pCi/g	
P17-22	R	Uranium-238	P17-22C2-R-13	NONE	481702.5	1351368	3/24/97	8.60	1.50		pCi/g	8.55	1.49	-	pCi/g	
P17-22	R	Uranium-238	P17-22C2-R-13-D	NONE	481702.5	1351368	3/24/97	6.60	1.20		pCi/g	6.55	1.20	-	pCi/g	P17-22C2-R-13
P17-22	R	Uranium-238	P17-22C2-R-2	RE	481523.79	1351333	3/24/97	0.52	0.24		pCi/g	0.52	0.24	J	pCi/g	
P17-22	R	Uranium-238	P17-22C2-R-2	NONE	481523.79	1351333	3/24/97	0.52	0.24		pCi/g	0.52	0.24	J	pCi/g	
P17-22	R	Uranium-238	P17-22C2-R-3	NONE	481477.66	1351339	3/24/97	3.30	0.82		pCi/g	3.32	0.82	-	pCi/g	
P17-22	R	Uranium-238	P17-22C2-R-4	NONE	481402.76	1351342	3/24/97	3.20	0.82		pCi/g	3.16	0.82	-	pCi/g	
P17-22	R	Uranium-238	P17-22C2-R-5	NONE	481351.74	1351365	3/24/97	4.00	0.87		pCi/g	4.01	0.89	J	pCi/g	
P17-22	R	Uranium-238	P17-22C2-R-5	RE	481351.74	1351365	3/24/97	4.00	0.89		pCi/g	4.01	0.89	J	pCi/g	
P17-22	R	Uranium-238	P17-22C2-R-6	NONE	481331.39	1351375	3/24/97	5.80	1.10		pCi/g	5.81	1.10	-	pCi/g	
P17-22	R	Uranium-238	P17-22C2-R-7	NONE	481444.59	1351375	3/24/97	0.50	0.30		pCi/g	0.50	0.30	J	pCi/g	
P17-22	R	Uranium-238	P17-22C2-R-8	NONE	481229.54	1351389	3/24/97	1.20	0.84	U	pCi/g	1.37		U	pCi/g	

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A1P1 CERTIFICATION REPORT - APPENDIX B

CU Name	CU Type	Parameter	Sample ID	Suffix	Northing	Easting	Laboratory Data					Validation Data				
							Sample Date	Lab Result	TPU	Qualifier	Units	Val. Result	TPU	Qualifier	Units	Duplicate of
P17-22	R	Uranium-238	P17-22C2-R-9	NONE	481453.87	1351390	3/24/97	4.70	0.95		pCi/g	4.69	0.95	-	pCi/g	
P17-31	M	Aroclor-1260	P17-31C-628868	NONE	481868.7	1350629	12/10/96	44.00		U	ug/kg	44.00		U	ug/kg	
P17-31	M	Aroclor-1260	P17-31C-644907	NONE	481907.7	1350644	12/10/96	45.00		U	ug/kg	45.00		U	ug/kg	
P17-31	M	Aroclor-1260	P17-31C-644907-D	NONE	481907.7	1350644	12/10/96	45.00		U	ug/kg	45.00		U	ug/kg	P17-31C-644907
P17-31	M	Aroclor-1260	P17-31C-656941	NONE	481941.31	1350657	12/10/96	45.00		U	ug/kg	45.00		U	ug/kg	
P17-31	M	Aroclor-1260	P17-31C-671823	NONE	481823.56	1350671	12/10/96	48.00		U	ug/kg	48.00		U	ug/kg	
P17-31	M	Aroclor-1260	P17-31C-672873	NONE	481873.83	1350672	12/10/96	50.00		U	ug/kg	50.00		U	ug/kg	
P17-31	M	Aroclor-1260	P17-31C-704984	NONE	481984.75	1350705	12/10/96	43.00		U	ug/kg	43.00		U	ug/kg	
P17-31	M	Aroclor-1260	P17-31C-724876	NONE	481876.81	1350724	12/10/96	47.00		U	ug/kg	47.00		U	ug/kg	
P17-31	M	Aroclor-1260	P17-31C-735927	NONE	481927.35	1350736	12/10/96	46.00		U	ug/kg	46.00		U	ug/kg	
P17-31	M	Aroclor-1260	P17-31C-753816	NONE	481816.8	1350754	12/10/96	46.00		U	ug/kg	46.00		U	ug/kg	
P17-31	M	Aroclor-1260	P17-31C-753986	NONE	481986.77	1350753	12/10/96	43.00		U	ug/kg	43.00		U	ug/kg	
P17-31	M	Arsenic	P17-31C-628868	NONE	481868.7	1350629	12/10/96	5.30			mg/kg	5.30		J	mg/kg	
P17-31	M	Arsenic	P17-31C-644907	NONE	481907.7	1350644	12/10/96	5.50			mg/kg	5.50		J	mg/kg	
P17-31	M	Arsenic	P17-31C-644907-D	NONE	481907.7	1350644	12/10/96	3.40			mg/kg	3.40		J	mg/kg	P17-31C-644907
P17-31	M	Arsenic	P17-31C-656941	NONE	481941.31	1350657	12/10/96	4.50			mg/kg	4.50		J	mg/kg	
P17-31	M	Arsenic	P17-31C-671823	NONE	481823.56	1350671	12/10/96	6.20			mg/kg	6.20		-	mg/kg	
P17-31	M	Arsenic	P17-31C-672873	NONE	481873.83	1350672	12/10/96	10.80			mg/kg	10.80		J	mg/kg	
P17-31	M	Arsenic	P17-31C-704984	NONE	481984.75	1350705	12/10/96	6.50			mg/kg	6.50		J	mg/kg	
P17-31	M	Arsenic	P17-31C-724876	NONE	481876.81	1350724	12/10/96	8.40			mg/kg	8.40		-	mg/kg	
P17-31	M	Arsenic	P17-31C-735927	NONE	481927.35	1350736	12/10/96	7.30			mg/kg	7.30		J	mg/kg	
P17-31	M	Arsenic	P17-31C-753816	NONE	481816.8	1350754	12/10/96	8.60			mg/kg	8.60		-	mg/kg	
P17-31	M	Arsenic	P17-31C-753986	NONE	481986.77	1350753	12/10/96	7.00			mg/kg	7.00		J	mg/kg	
P17-31	M	Beryllium	P17-31C-628868	NONE	481868.7	1350629	12/10/96	0.45		B	mg/kg	0.45		U	mg/kg	
P17-31	M	Beryllium	P17-31C-644907	NONE	481907.7	1350644	12/10/96	0.26		B	mg/kg	0.26		U	mg/kg	
P17-31	M	Beryllium	P17-31C-644907-D	NONE	481907.7	1350644	12/10/96	0.22		B	mg/kg	0.22		U	mg/kg	P17-31C-644907
P17-31	M	Beryllium	P17-31C-656941	NONE	481941.31	1350657	12/10/96	0.35		B	mg/kg	0.35		U	mg/kg	
P17-31	M	Beryllium	P17-31C-671823	NONE	481823.56	1350671	12/10/96	0.61			mg/kg	0.61		U	mg/kg	
P17-31	M	Beryllium	P17-31C-672873	NONE	481873.83	1350672	12/10/96	0.76			mg/kg	0.76		U	mg/kg	
P17-31	M	Beryllium	P17-31C-704984	NONE	481984.75	1350705	12/10/96	0.51		B	mg/kg	0.51		U	mg/kg	
P17-31	M	Beryllium	P17-31C-724876	NONE	481876.81	1350724	12/10/96	0.50		B	mg/kg	0.50		U	mg/kg	
P17-31	M	Beryllium	P17-31C-735927	NONE	481927.35	1350736	12/10/96	0.65			mg/kg	0.65		U	mg/kg	
P17-31	M	Beryllium	P17-31C-753816	NONE	481816.8	1350754	12/10/96	0.70			mg/kg	0.70		U	mg/kg	
P17-31	M	Beryllium	P17-31C-753986	NONE	481986.77	1350753	12/10/96	0.49		B	mg/kg	0.49		U	mg/kg	
P17-31	R	Moisture Content	P17-31C-629859	NONE	481859.55	1350629	12/10/96	13.00			Percent	13.00		NV	Percent	
P17-31	R	Moisture Content	P17-31C-671888	NONE	481888.56	1350672	12/10/96	17.40			Percent	17.40		NV	Percent	
P17-31	R	Moisture Content	P17-31C-686817	NONE	481817.96	1350687	12/10/96	17.50			Percent	17.50		NV	Percent	
P17-31	R	Moisture Content	P17-31C-712816	NONE	481816.84	1350712	12/10/96	13.50			Percent	13.50		NV	Percent	
P17-31	R	Moisture Content	P17-31C-717890	NONE	481890.68	1350718	12/10/96	15.70			Percent	15.70		NV	Percent	

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							Laboratory Data				Validation Data				
CU Name	CU Type	Parameter	Sample ID	Suffix	Northing	Easting	Sample Date	Lab Result	TPU	Qualifier	Units	Val. Result	TPU	Qualifier	Units	Duplicate of
P17-31	R	Moisture Content	P17-31C-725916	NONE	481916.9	1350725	12/10/96	14.60			Percent	14.60		NV	Percent	
P17-31	R	Moisture Content	P17-31C-741994	NONE	481994.72	1350742	12/10/96	11.20			Percent	11.20		NV	Percent	
P17-31	R	Moisture Content	P17-31C-769970	NONE	481970.46	1350769	12/10/96	11.00			Percent	11.00		NV	Percent	
P17-31	R	Moisture Content	P17-31C-784863	NONE	481863.88	1350784	12/10/96	16.70			Percent	16.70		NV	Percent	
P17-31	R	Moisture Content	P17-31C-791838	NONE	481838.71	1350792	12/10/96	13.80			Percent	13.80		NV	Percent	
P17-31	R	Moisture Content	P17-31C-795925	NONE	481925.63	1350795	12/10/96	21.00			Percent	21.00		NV	Percent	
P17-31	R	Radium-226	P17-31C-617931	NONE	481931.69	1350618	12/10/96	0.90	0.14		pCi/g	0.90	0.14	-	pCi/g	
P17-31	R	Radium-226	P17-31C-629859	NONE	481859.55	1350629	12/10/96	0.95	0.11		pCi/g	0.95	0.11	-	pCi/g	
P17-31	R	Radium-226	P17-31C-671888	NONE	481888.56	1350672	12/10/96	1.60	0.09		pCi/g	1.60	0.17	-	pCi/g	
P17-31	R	Radium-226	P17-31C-686817	NONE	481817.96	1350687	12/10/96	1.50	0.17		pCi/g	1.50	0.17	-	pCi/g	
P17-31	R	Radium-226	P17-31C-712816	NONE	481816.84	1350712	12/10/96	1.50	0.19		pCi/g	1.50	0.19	-	pCi/g	
P17-31	R	Radium-226	P17-31C-717890	NONE	481890.68	1350718	12/10/96	1.40	0.17		pCi/g	1.40	0.17	-	pCi/g	
P17-31	R	Radium-226	P17-31C-725916	NONE	481916.9	1350725	12/10/96	1.20	0.16		pCi/g	1.20	0.16	-	pCi/g	
P17-31	R	Radium-226	P17-31C-741994	NONE	481994.72	1350742	12/10/96	0.85	0.11		pCi/g	0.85	0.11	-	pCi/g	
P17-31	R	Radium-226	P17-31C-769970	NONE	481970.46	1350769	12/10/96	1.00	0.15		pCi/g	1.00	0.15	-	pCi/g	
P17-31	R	Radium-226	P17-31C-784863	NONE	481863.88	1350784	12/10/96	1.40	0.13		pCi/g	1.40	0.13	-	pCi/g	
P17-31	R	Radium-226	P17-31C-791838	NONE	481838.71	1350792	12/10/96	1.60	0.16		pCi/g	1.60	0.16	-	pCi/g	
P17-31	R	Radium-226	P17-31C-795925	NONE	481925.63	1350795	12/10/96	1.60	0.17		pCi/g	1.60	0.17	-	pCi/g	
P17-31	R	Radium-228	P17-31C-617931	NONE	481931.69	1350618	12/10/96	1.10	0.21		pCi/g	1.08	0.21	-	pCi/g	
P17-31	R	Radium-228	P17-31C-629859	NONE	481859.55	1350629	12/10/96	0.94	0.27		pCi/g	0.94	0.27	-	pCi/g	
P17-31	R	Radium-228	P17-31C-671888	NONE	481888.56	1350672	12/10/96	1.40	0.41		pCi/g	1.40	0.41	-	pCi/g	
P17-31	R	Radium-228	P17-31C-686817	NONE	481817.96	1350687	12/10/96	1.30	0.33		pCi/g	1.30	0.33	-	pCi/g	
P17-31	R	Radium-228	P17-31C-712816	NONE	481816.84	1350712	12/10/96	1.10	0.36		pCi/g	1.10	0.36	-	pCi/g	
P17-31	R	Radium-228	P17-31C-717890	NONE	481890.68	1350718	12/10/96	0.98	0.28		pCi/g	0.98	0.28	-	pCi/g	
P17-31	R	Radium-228	P17-31C-725916	NONE	481916.9	1350725	12/10/96	1.20	0.36		pCi/g	1.20	0.36	-	pCi/g	
P17-31	R	Radium-228	P17-31C-741994	NONE	481994.72	1350742	12/10/96	0.91	0.25		pCi/g	0.91	0.25	-	pCi/g	
P17-31	R	Radium-228	P17-31C-769970	NONE	481970.46	1350769	12/10/96	0.91	0.30		pCi/g	0.91	0.30	-	pCi/g	
P17-31	R	Radium-228	P17-31C-784863	NONE	481863.88	1350784	12/10/96	1.30	0.32		pCi/g	1.30	0.32	-	pCi/g	
P17-31	R	Radium-228	P17-31C-791838	NONE	481838.71	1350792	12/10/96	1.60	0.44		pCi/g	1.60	0.44	-	pCi/g	
P17-31	R	Radium-228	P17-31C-795925	NONE	481925.63	1350795	12/10/96	1.20	0.32		pCi/g	1.20	0.32	-	pCi/g	
P17-31	R	Thorium-228	P17-31C-617931	NONE	481931.69	1350618	12/10/96	1.20	0.29		pCi/g	1.44	0.28	-	pCi/g	
P17-31	R	Thorium-228	P17-31C-629859	NONE	481859.55	1350629	12/10/96	1.00	0.45		pCi/g	1.00	0.45	-	pCi/g	
P17-31	R	Thorium-228	P17-31C-671888	NONE	481888.56	1350672	12/10/96	1.20	0.51		pCi/L	1.20	0.51	-	pCi/L	
P17-31	R	Thorium-228	P17-31C-686817	NONE	481817.96	1350687	12/10/96	1.20	0.45		pCi/g	1.20	0.45	-	pCi/g	
P17-31	R	Thorium-228	P17-31C-712816	NONE	481816.84	1350712	12/10/96	1.10	0.43		pCi/g	1.10	0.43	-	pCi/g	
P17-31	R	Thorium-228	P17-31C-717890	NONE	481890.68	1350718	12/10/96	1.10	0.51		pCi/g	1.10	0.51	J	pCi/g	
P17-31	R	Thorium-228	P17-31C-725916	NONE	481916.9	1350725	12/10/96	1.10	0.43		pCi/g	1.10	0.43	-	pCi/g	
P17-31	R	Thorium-228	P17-31C-741994	NONE	481994.72	1350742	12/10/96	0.75	0.31		pCi/g	0.75	0.31	J	pCi/g	
P17-31	R	Thorium-228	P17-31C-769970	NONE	481970.46	1350769	12/10/96	0.74	0.30		pCi/g	0.74	0.30	-	pCi/g	
P17-31	R	Thorium-228	P17-31C-784863	NONE	481863.88	1350784	12/10/96	1.10	0.46		pCi/g	1.10	0.46	-	pCi/g	

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								Laboratory Data				Validation Data				
CU Name	CU Type	Parameter	Sample ID	Suffix	Northing	Easting	Sample Date	Lab Result	TPU	Qualifier	Units	Val. Result	TPU	Qualifier	Units	Duplicate of
P17-31	R	Thorium-228	P17-31C-791838	NONE	481838.71	1350792	12/10/96	1.20	0.45		pCi/g	1.20	0.45	-	pCi/g	
P17-31	R	Thorium-228	P17-31C-795925	NONE	481925.63	1350795	12/10/96	1.40	0.54		pCi/g	1.40	0.54	J	pCi/g	
P17-31	R	Thorium-232	P17-31C-617931	NONE	481931.69	1350618	12/10/96	1.20	0.23		pCi/g	1.18	0.23	-	pCi/g	
P17-31	R	Thorium-232	P17-31C-629859	NONE	481859.55	1350629	12/10/96	0.83	0.37		pCi/g	0.83	0.37	-	pCi/g	
P17-31	R	Thorium-232	P17-31C-671888	NONE	481888.56	1350672	12/10/96	1.30	0.57		pCi/L	1.30	0.57	-	pCi/L	
P17-31	R	Thorium-232	P17-31C-686817	NONE	481817.96	1350687	12/10/96	1.10	0.39		pCi/g	1.10	0.39	-	pCi/g	
P17-31	R	Thorium-232	P17-31C-712816	NONE	481816.84	1350712	12/10/96	1.10	0.41		pCi/g	1.10	0.41	-	pCi/g	
P17-31	R	Thorium-232	P17-31C-717890	NONE	481890.68	1350718	12/10/96	1.00	0.46		pCi/g	1.00	0.46	J	pCi/g	
P17-31	R	Thorium-232	P17-31C-725916	NONE	481916.9	1350725	12/10/96	1.10	0.42		pCi/g	1.10	0.42	-	pCi/g	
P17-31	R	Thorium-232	P17-31C-741994	NONE	481994.72	1350742	12/10/96	0.80	0.32		pCi/g	0.80	0.32	J	pCi/g	
P17-31	R	Thorium-232	P17-31C-769970	NONE	481970.46	1350769	12/10/96	0.75	0.29		pCi/g	0.75	0.29	-	pCi/g	
P17-31	R	Thorium-232	P17-31C-784863	NONE	481863.88	1350784	12/10/96	1.40	0.03		pCi/g	1.00	0.03	J	pCi/g	
P17-31	R	Thorium-232	P17-31C-791838	NONE	481838.71	1350792	12/10/96	1.20	0.44		pCi/g	1.20	0.44	-	pCi/g	
P17-31	R	Thorium-232	P17-31C-795925	NONE	481925.63	1350795	12/10/96	1.30	0.49		pCi/g	1.30	0.49	J	pCi/g	
P17-31	R	Uranium, Total	P17-31C-617931	NONE	481931.69	1350618	12/10/96				ug/g	25.00	6.08	-	ug/g	
P17-31	R	Uranium, Total	P17-31C-629859	NONE	481859.55	1350629	12/10/96				ug/g	10.80	2.67	-	ug/g	
P17-31	R	Uranium, Total	P17-31C-671888	NONE	481888.56	1350672	12/10/96				ug/g	4.50	2.67	J	ug/g	
P17-31	R	Uranium, Total	P17-31C-686817	NONE	481817.96	1350687	12/10/96				ug/g	9.00	2.34	-	ug/g	
P17-31	R	Uranium, Total	P17-31C-712816	NONE	481816.84	1350712	12/10/96				ug/g	7.20	2.61	-	ug/g	
P17-31	R	Uranium, Total	P17-31C-717890	NONE	481890.68	1350718	12/10/96				ug/g	12.29	2.79	-	ug/g	
P17-31	R	Uranium, Total	P17-31C-725916	NONE	481916.9	1350725	12/10/96				ug/g	13.79	2.88	-	ug/g	
P17-31	R	Uranium, Total	P17-31C-741994	NONE	481994.72	1350742	12/10/96				ug/g	7.20	1.77	-	ug/g	
P17-31	R	Uranium, Total	P17-31C-769970	NONE	481970.46	1350769	12/10/96				ug/g	6.30	2.61	-	ug/g	
P17-31	R	Uranium, Total	P17-31C-784863	NONE	481863.88	1350784	12/10/96				ug/g	5.10	2.22	-	ug/g	
P17-31	R	Uranium, Total	P17-31C-791838	NONE	481838.71	1350792	12/10/96				ug/g	5.70	2.01	-	ug/g	
P17-31	R	Uranium, Total	P17-31C-795925	NONE	481925.63	1350795	12/10/96				ug/g	3.00	1.68	J	ug/g	
P17-31	R	Uranium-238	P17-31C-617931	NONE	481931.69	1350618	12/10/96	8.30	2.00		pCi/g	8.34	2.03	-	pCi/g	
P17-31	R	Uranium-238	P17-31C-629859	NONE	481859.55	1350629	12/10/96	3.60	0.89		pCi/g	3.60	0.89	-	pCi/g	
P17-31	R	Uranium-238	P17-31C-671888	NONE	481888.56	1350672	12/10/96	1.50	0.89		pCi/g	1.50	0.89	J	pCi/g	
P17-31	R	Uranium-238	P17-31C-686817	NONE	481817.96	1350687	12/10/96	3.00	0.78		pCi/g	3.00	0.78	-	pCi/g	
P17-31	R	Uranium-238	P17-31C-712816	NONE	481816.84	1350712	12/10/96	2.40	0.87		pCi/g	2.40	0.87	-	pCi/g	
P17-31	R	Uranium-238	P17-31C-717890	NONE	481890.68	1350718	12/10/96	4.10	0.93		pCi/g	4.10	0.93	-	pCi/g	
P17-31	R	Uranium-238	P17-31C-725916	NONE	481916.9	1350725	12/10/96	4.60	0.96		pCi/g	4.60	0.96	-	pCi/g	
P17-31	R	Uranium-238	P17-31C-741994	NONE	481994.72	1350742	12/10/96	2.40	0.59		pCi/g	2.40	0.59	-	pCi/g	
P17-31	R	Uranium-238	P17-31C-769970	NONE	481970.46	1350769	12/10/96	2.10	0.87		pCi/g	2.10	0.87	-	pCi/g	
P17-31	R	Uranium-238	P17-31C-784863	NONE	481863.88	1350784	12/10/96	1.70	0.74		pCi/g	1.70	0.74	-	pCi/g	
P17-31	R	Uranium-238	P17-31C-791838	NONE	481838.71	1350792	12/10/96	1.90	0.67		pCi/g	1.90	0.67	-	pCi/g	
P17-31	R	Uranium-238	P17-31C-795925	NONE	481925.63	1350795	12/10/96	1.00	0.56		pCi/g	1.00	0.56	J	pCi/g	
P17-32	M	Arsenic	P17-32INV2-M-10	NONE	481799	1350888	4/23/97	11.30			mg/kg	11.30		-	mg/kg	

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							Laboratory Data				Validation Data				
CU Name	CU Type	Parameter	Sample ID	Suffix	Northing	Easting	Sample Date	Lab Result	TPU	Qualifier	Units	Val. Result	TPU	Qualifier	Units	Duplicate of
P17-32	M	Arsenic	P17-32INV2-M-11	NONE	481859	1350819	4/22/97	7.70			mg/kg	7.70		-	mg/kg	
P17-32	M	Arsenic	P17-32INV2-M-12	NONE	481877	1350841	4/22/97	11.00			mg/kg	11.00		-	mg/kg	
P17-32	M	Arsenic	P17-32INV2-M-13	NONE	481857	1350851	4/22/97	11.30			mg/kg	11.30		-	mg/kg	
P17-32	M	Arsenic	P17-32INV2-M-14	NONE	481868	1350885	4/23/97	8.60			mg/kg	8.60		-	mg/kg	
P17-32	M	Arsenic	P17-32INV2-M-15	NONE	481910	1350804	4/22/97	5.00			mg/kg	5.00		-	mg/kg	
P17-32	M	Arsenic	P17-32INV2-M-15-D	NONE	481910	1350804	4/22/97	4.50			mg/kg	4.50		-	mg/kg	P17-32INV2-M-15
P17-32	M	Arsenic	P17-32INV2-M-16	NONE	481922	1350838	4/22/97	11.00			mg/kg	11.00		-	mg/kg	
P17-32	M	Arsenic	P17-32INV2-M-17	NONE	481887	1350855	4/22/97	10.50			mg/kg	10.50		-	mg/kg	
P17-32	M	Arsenic	P17-32INV2-M-18	NONE	481922	1350871	4/22/97	12.00			mg/kg	12.00		-	mg/kg	
P17-32	M	Arsenic	P17-32INV2-M-19	NONE	481984	1350818	4/22/97	6.50			mg/kg	6.50		-	mg/kg	
P17-32	M	Arsenic	P17-32INV2-M-20	NONE	481998	1350839	4/22/97	7.00			mg/kg	7.00		-	mg/kg	
P17-32	M	Arsenic	P17-32INV2-M-21	NONE	481962	1350852	4/22/97	11.60			mg/kg	11.60		-	mg/kg	
P17-32	M	Arsenic	P17-32INV2-M-22	NONE	481972	1350880	4/22/97	9.80			mg/kg	9.80		-	mg/kg	
P17-32	M	Arsenic	P17-32INV2-M-7	NONE	481778	1350816	4/22/97	4.60			mg/kg	4.60		-	mg/kg	
P17-32	M	Arsenic	P17-32INV2-M-8	NONE	481789	1350832	4/22/97	5.80			mg/kg	5.80		-	mg/kg	
P17-32	M	Arsenic	P17-32INV2-M-9	NONE	481797	1350857	4/22/97	8.50			mg/kg	8.50		-	mg/kg	
P17-32	M	Beryllium	P17-32C-824828	NONE	481828.87	1350825	12/18/96	0.96			mg/kg	0.96		-	mg/kg	
P17-32	M	Beryllium	P17-32C-829914	NONE	481914.84	1350830	12/18/96	0.71			mg/kg	0.71		U	mg/kg	
P17-32	M	Beryllium	P17-32C-835920	NONE	481920	1350835	1/16/97	1.10			mg/kg	1.10		U	mg/kg	
P17-32	M	Beryllium	P17-32C-847827	NONE	481827.36	1350847	12/18/96	0.62			mg/kg	0.62		U	mg/kg	
P17-32	M	Beryllium	P17-32C-850820	NONE	481820	1350850	1/16/97	2.30			mg/kg	2.30		-	mg/kg	
P17-32	M	Beryllium	P17-32C-866935	NONE	481935.76	1350866	12/18/96	0.47		B	mg/kg	0.47		U	mg/kg	
P17-32	M	Beryllium	P17-32C-876808	NONE	481808	1350876	12/18/96	0.64			mg/kg	0.64		U	mg/kg	
P17-32	M	Beryllium	P17-32C-880982	NONE	481982.82	1350880	12/18/96	0.45		B	mg/kg	0.45		U	mg/kg	
P17-32	M	Beryllium	P17-32C2-M-1	NONE	481996.38	1350808	3/21/97	0.81			mg/kg	0.81		-	mg/kg	
P17-32	M	Beryllium	P17-32C2-M-2	NONE	481969.69	1350838	3/21/97	0.65			mg/kg	0.65		-	mg/kg	
P17-32	M	Beryllium	P17-32C2-M-3	NONE	481978.48	1350868	3/21/97	0.95			mg/kg	0.95		-	mg/kg	
P17-32	M	Beryllium	P17-32C2-M-4	NONE	481872.61	1350815	3/21/97	0.72			mg/kg	0.72		-	mg/kg	
P17-32	M	Beryllium	P17-32C2-M-5	NONE	481859.7	1350882	3/21/97	0.79			mg/kg	0.79		-	mg/kg	
P17-32	M	Beryllium	P17-32C2-M-6	NONE	481777.29	1350808	3/21/97	0.73			mg/kg	0.73		-	mg/kg	
P17-32	R	Moisture Content	P17-32C-803857	NONE	481857.51	1350803	12/18/96	17.30			Percent	17.30		NV	Percent	
P17-32	R	Moisture Content	P17-32C-820936	NONE	481936.79	1350821	12/18/96	15.00			Percent	15.00		NV	Percent	
P17-32	R	Moisture Content	P17-32C-826838	NONE	481838	1350826	12/17/96	18.52			Percent			NV	Percent	
P17-32	R	Moisture Content	P17-32C-835924	NONE	481924	1350835	1/16/97	22.03			Percent			NV	Percent	
P17-32	R	Moisture Content	P17-32C-835924-D	NONE	481924	1350835	1/16/97	21.72			Percent	21.72		NV	Percent	P17-32C-835924
P17-32	R	Moisture Content	P17-32C-839950	NONE	481950.86	1350840	12/18/96	19.60			Percent	19.60		NV	Percent	
P17-32	R	Moisture Content	P17-32C-843800	NONE	481800	1350843	1/16/97	18.47			Percent			NV	Percent	
P17-32	R	Moisture Content	P17-32C-850822	NONE	481822	1350850	1/16/97	22.31			Percent			NV	Percent	
P17-32	R	Moisture Content	P17-32C-858878	NONE	481878.9	1350858	12/17/96	18.20			Percent	18.20		NV	Percent	
P17-32	R	Moisture Content	P17-32C-860812	NONE	481812	1350860	1/16/97	18.33			Percent			NV	Percent	

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								Laboratory Data				Validation Data				
CU Name	CU Type	Parameter	Sample ID	Suffix	Northing	Easting	Sample Date	Lab Result	TPU	Qualifier	Units	Val. Result	TPU	Qualifier	Units	Duplicate of
P17-32	R	Moisture Content	P17-32C-879990	NONE	481990	1350879	12/18/96	16.00			Percent	16.00		NV	Percent	
P17-32	R	Moisture Content	P17-32C-881901	NONE	481901.13	1350881	12/18/96	22.00			Percent	22.00		NV	Percent	
P17-32	R	Moisture Content	P17-32C-883831	NONE	481831	1350883	12/18/96	18.50			Percent	18.50		NV	Percent	
P17-32	R	Radium-226	P17-32C-803857	NONE	481857.51	1350803	12/18/96	1.40	0.16		pCi/g	1.40	0.16	-	pCi/g	
P17-32	R	Radium-226	P17-32C-820936	NONE	481936.79	1350821	12/18/96	1.40	0.14		pCi/g	1.40	0.14	-	pCi/g	
P17-32	R	Radium-226	P17-32C-826838	NONE	481838	1350826	12/17/96	1.30	0.18		pCi/g	1.30	0.18	-	pCi/g	
P17-32	R	Radium-226	P17-32C-835924	NONE	481924	1350835	1/16/97	0.91	0.14		pCi/g	0.92	0.14	J	pCi/g	
P17-32	R	Radium-226	P17-32C-835924-D	NONE	481924	1350835	1/16/97	1.30	0.19		pCi/g	1.29	0.19	J	pCi/g	P17-32C-835924
P17-32	R	Radium-226	P17-32C-839950	NONE	481950.86	1350840	12/18/96	1.40	0.16		pCi/g	1.40	0.16	-	pCi/g	
P17-32	R	Radium-226	P17-32C-843800	NONE	481800	1350843	1/16/97	1.10	0.15		pCi/g	1.07	0.15	-	pCi/g	
P17-32	R	Radium-226	P17-32C-850822	NONE	481822	1350850	1/16/97	1.20	0.18		pCi/g	1.25	0.18	-	pCi/g	
P17-32	R	Radium-226	P17-32C-858878	NONE	481878.9	1350858	12/17/96	1.40	0.16		pCi/g	1.40	0.16	-	pCi/g	
P17-32	R	Radium-226	P17-32C-860812	NONE	481812	1350860	1/16/97	1.10	0.15		pCi/g	1.10	0.15	-	pCi/g	
P17-32	R	Radium-226	P17-32C-879990	NONE	481990	1350879	12/18/96	1.20	0.13		pCi/g	1.20	0.13	-	pCi/g	
P17-32	R	Radium-226	P17-32C-881901	NONE	481901.13	1350881	12/18/96	1.30	0.20		pCi/g	1.30	0.20	-	pCi/g	
P17-32	R	Radium-226	P17-32C-883831	NONE	481831	1350883	12/18/96	1.30	0.15		pCi/g	1.30	0.15	-	pCi/g	
P17-32	R	Radium-228	P17-32C-803857	NONE	481857.51	1350803	12/18/96	1.50	0.40		pCi/g	1.50	0.40	-	pCi/g	
P17-32	R	Radium-228	P17-32C-820936	NONE	481936.79	1350821	12/18/96	1.30	0.39		pCi/g	1.30	0.39	-	pCi/g	
P17-32	R	Radium-228	P17-32C-826838	NONE	481838	1350826	12/17/96	1.30	0.25		pCi/g	1.26	0.25	-	pCi/g	
P17-32	R	Radium-228	P17-32C-835924	NONE	481924	1350835	1/16/97	1.40	0.25		pCi/g	1.40	0.25	-	pCi/g	
P17-32	R	Radium-228	P17-32C-835924-D	NONE	481924	1350835	1/16/97	1.50	0.27		pCi/g	1.47	0.27	-	pCi/g	P17-32C-835924
P17-32	R	Radium-228	P17-32C-839950	NONE	481950.86	1350840	12/18/96	1.30	0.36		pCi/g	1.30	0.36	-	pCi/g	
P17-32	R	Radium-228	P17-32C-843800	NONE	481800	1350843	1/16/97	1.30	0.24		pCi/g	1.35	0.24	-	pCi/g	
P17-32	R	Radium-228	P17-32C-850822	NONE	481822	1350850	1/16/97	1.50	0.27		pCi/g	1.53	0.27	-	pCi/g	
P17-32	R	Radium-228	P17-32C-858878	NONE	481878.9	1350858	12/17/96	1.50	0.46		pCi/g	1.50	0.46	-	pCi/g	
P17-32	R	Radium-228	P17-32C-860812	NONE	481812	1350860	1/16/97	1.30	0.22		pCi/g	1.26	0.21	-	pCi/g	
P17-32	R	Radium-228	P17-32C-879990	NONE	481990	1350879	12/18/96	1.20	0.29		pCi/g	1.20	0.29	-	pCi/g	
P17-32	R	Radium-228	P17-32C-881901	NONE	481901.13	1350881	12/18/96	1.30	0.38		pCi/g	1.30	0.38	-	pCi/g	
P17-32	R	Radium-228	P17-32C-883831	NONE	481831	1350883	12/18/96	1.40	0.40		pCi/g	1.40	0.40	-	pCi/g	
P17-32	R	Thorium-228	P17-32C-803857	NONE	481857.51	1350803	12/18/96	1.20	0.46		pCi/g	1.20	0.46	-	pCi/g	
P17-32	R	Thorium-228	P17-32C-820936	NONE	481936.79	1350821	12/18/96	1.20	0.44		pCi/g	1.20	0.44	-	pCi/g	
P17-32	R	Thorium-228	P17-32C-826838	NONE	481838	1350826	12/17/96	1.20	0.30		pCi/g	1.30	0.28	-	pCi/g	
P17-32	R	Thorium-228	P17-32C-835924	NONE	481924	1350835	1/16/97	1.50	0.35		pCi/g	1.55	0.34	-	pCi/g	
P17-32	R	Thorium-228	P17-32C-835924-D	NONE	481924	1350835	1/16/97	1.70	0.38		pCi/g	1.76	0.37	Z	pCi/g	P17-32C-835924
P17-32	R	Thorium-228	P17-32C-835924-D	RE	481924	1350835	1/16/97	1.40	0.28		pCi/g	1.41	0.28	-	pCi/g	P17-32C-835924
P17-32	R	Thorium-228	P17-32C-839950	NONE	481950.86	1350840	12/18/96	1.50	0.59		pCi/g	1.50	0.59	-	pCi/g	
P17-32	R	Thorium-228	P17-32C-843800	NONE	481800	1350843	1/16/97	1.40	0.31		pCi/g	1.52	0.30	-	pCi/g	
P17-32	R	Thorium-228	P17-32C-850822	NONE	481822	1350850	1/16/97	1.20	0.27		pCi/g	1.28	0.26	J	pCi/g	
P17-32	R	Thorium-228	P17-32C-858878	NONE	481878.9	1350858	12/17/96	1.30	0.46		pCi/g	1.30	0.46	-	pCi/g	
P17-32	R	Thorium-228	P17-32C-860812	NONE	481812	1350860	1/16/97	1.20	0.28		pCi/g	1.32	0.27	-	pCi/g	

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								Laboratory Data				Validation Data				
CU Name	CU Type	Parameter	Sample ID	Suffix	Northing	Easting	Sample Date	Lab Result	TPU	Qualifier	Units	Val. Result	TPU	Qualifier	Units	Duplicate of
P17-32	R	Thorium-228	P17-32C-879990	NONE	481990	1350879	12/18/96	1.40	0.65		pCi/g	1.40	0.65	-	pCi/g	
P17-32	R	Thorium-228	P17-32C-881901	NONE	481901.13	1350881	12/18/96	1.30	0.51		pCi/g	1.30	0.51	-	pCi/g	
P17-32	R	Thorium-228	P17-32C-883831	NONE	481831	1350883	12/18/96	1.20	0.57		pCi/g	1.20	0.57	-	pCi/g	
P17-32	R	Thorium-232	P17-32C-803857	NONE	481857.51	1350803	12/18/96	1.10	0.43		pCi/L	1.10	0.43	-	pCi/L	
P17-32	R	Thorium-232	P17-32C-820936	NONE	481936.79	1350821	12/18/96	1.10	0.41		pCi/g	1.10	0.41	-	pCi/g	
P17-32	R	Thorium-232	P17-32C-826838	NONE	481838	1350826	12/17/96	1.30	0.25		pCi/g	1.25	0.25	-	pCi/g	
P17-32	R	Thorium-232	P17-32C-835924	NONE	481924	1350835	1/16/97	1.40	0.29		pCi/g	1.36	0.29	-	pCi/g	
P17-32	R	Thorium-232	P17-32C-835924-D	NONE	481924	1350835	1/16/97	1.30	0.28		pCi/g	1.29	0.28	Z	pCi/g	P17-32C-835924
P17-32	R	Thorium-232	P17-32C-835924-D	RE	481924	1350835	1/16/97	1.30	0.25		pCi/g	1.27	0.24	-	pCi/g	P17-32C-835924
P17-32	R	Thorium-232	P17-32C-839950	NONE	481950.86	1350840	12/18/96	1.60	0.59		pCi/g	1.60	0.59	-	pCi/g	
P17-32	R	Thorium-232	P17-32C-843800	NONE	481800	1350843	1/16/97	1.30	0.25		pCi/g	1.25	0.25	-	pCi/g	
P17-32	R	Thorium-232	P17-32C-850822	NONE	481822	1350850	1/16/97	1.10	0.21		pCi/g	1.07	0.21	J	pCi/g	
P17-32	R	Thorium-232	P17-32C-858878	NONE	481878.9	1350858	12/17/96	1.40	0.46		pCi/g	1.40	0.46	-	pCi/g	
P17-32	R	Thorium-232	P17-32C-860812	NONE	481812	1350860	1/16/97	1.10	0.22		pCi/g	1.11	0.22	-	pCi/g	
P17-32	R	Thorium-232	P17-32C-879990	NONE	481990	1350879	12/18/96	1.40	0.59		pCi/g	1.40	0.59	-	pCi/g	
P17-32	R	Thorium-232	P17-32C-881901	NONE	481901.13	1350881	12/18/96	1.60	0.59		pCi/g	1.60	0.59	-	pCi/g	
P17-32	R	Thorium-232	P17-32C-883831	NONE	481831	1350883	12/18/96	1.20	0.57		pCi/g	1.20	0.57	-	pCi/g	
P17-32	R	Uranium, Total	P17-32C-803857	NONE	481857.51	1350803	12/18/96				ug/g	3.60		U	ug/g	
P17-32	R	Uranium, Total	P17-32C-820936	NONE	481936.79	1350821	12/18/96				ug/g	11.99	2.25	-	ug/g	
P17-32	R	Uranium, Total	P17-32C-826838	NONE	481838	1350826	12/17/96				ug/g	12.59	4.74	-	ug/g	
P17-32	R	Uranium, Total	P17-32C-835924	NONE	481924	1350835	1/16/97				ug/g	17.51	4.38	-	ug/g	
P17-32	R	Uranium, Total	P17-32C-835924-D	NONE	481924	1350835	1/16/97				ug/g	20.46	5.33	-	ug/g	P17-32C-835924
P17-32	R	Uranium, Total	P17-32C-839950	NONE	481950.86	1350840	12/18/96				ug/g	6.60	1.65	-	ug/g	
P17-32	R	Uranium, Total	P17-32C-843800	NONE	481800	1350843	1/16/97				ug/g	14.09	4.41	-	ug/g	
P17-32	R	Uranium, Total	P17-32C-850822	NONE	481822	1350850	1/16/97				ug/g	10.21	4.66	-	ug/g	
P17-32	R	Uranium, Total	P17-32C-858878	NONE	481878.9	1350858	12/17/96				ug/g	3.90	2.46	J	ug/g	
P17-32	R	Uranium, Total	P17-32C-860812	NONE	481812	1350860	1/16/97				ug/g	12.31	4.17	-	ug/g	
P17-32	R	Uranium, Total	P17-32C-879990	NONE	481990	1350879	12/18/96				ug/g	5.10	1.35	-	ug/g	
P17-32	R	Uranium, Total	P17-32C-881901	NONE	481901.13	1350881	12/18/96				ug/g	25.49	3.90	-	ug/g	
P17-32	R	Uranium, Total	P17-32C-883831	NONE	481831	1350883	12/18/96				ug/g	18.29	3.90	-	ug/g	
P17-32	R	Uranium-238	P17-32C-803857	NONE	481857.51	1350803	12/18/96	0.96	0.70	U	pCi/g	1.20		U	pCi/g	
P17-32	R	Uranium-238	P17-32C-820936	NONE	481936.79	1350821	12/18/96	4.00	0.75		pCi/g	4.00	0.75	-	pCi/g	
P17-32	R	Uranium-238	P17-32C-826838	NONE	481838	1350826	12/17/96	4.20	1.60		pCi/g	4.20	1.58	-	pCi/g	
P17-32	R	Uranium-238	P17-32C-835924	NONE	481924	1350835	1/16/97	5.80	1.50		pCi/g	5.84	1.46	-	pCi/g	
P17-32	R	Uranium-238	P17-32C-835924-D	NONE	481924	1350835	1/16/97	6.80	1.80		pCi/g	6.82	1.78	-	pCi/g	P17-32C-835924
P17-32	R	Uranium-238	P17-32C-839950	NONE	481950.86	1350840	12/18/96	2.20	0.55		pCi/g	2.20	0.55	-	pCi/g	
P17-32	R	Uranium-238	P17-32C-843800	NONE	481800	1350843	1/16/97	4.70	1.50		pCi/g	4.70	1.47	-	pCi/g	
P17-32	R	Uranium-238	P17-32C-850822	NONE	481822	1350850	1/16/97	3.40	1.60		pCi/g	3.41	1.56	-	pCi/g	
P17-32	R	Uranium-238	P17-32C-858878	NONE	481878.9	1350858	12/17/96	1.30	0.82	U	pCi/g	1.30	0.82	J	pCi/g	
P17-32	R	Uranium-238	P17-32C-860812	NONE	481812	1350860	1/16/97	4.10	1.40		pCi/g	4.11	1.39	-	pCi/g	

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								Laboratory Data				Validation Data				
CU Name	CU Type	Parameter	Sample ID	Suffix	Northing	Easting	Sample Date	Lab Result	TPU	Qualifier	Units	Val. Result	TPU	Qualifier	Units	Duplicate of
P17-32	R	Uranium-238	P17-32C-879990	NONE	481990	1350879	12/18/96	1.70	0.45		pCi/g	1.70	0.45	-	pCi/g	
P17-32	R	Uranium-238	P17-32C-881901	NONE	481901.13	1350881	12/18/96	8.50	1.30		pCi/g	8.50	1.30	-	pCi/g	
P17-32	R	Uranium-238	P17-32C-883831	NONE	481831	1350883	12/18/96	6.10	1.30		pCi/g	6.10	1.30	-	pCi/g	
P17-33	M	Aroclor-1260	P17-33C-621137	NONE	482137.93	1350622	12/11/96	47.00		U	ug/kg	47.00		U	ug/kg	
P17-33	M	Aroclor-1260	P17-33C-628166	NONE	482166.72	1350629	12/11/96	49.00		U	ug/kg	49.00		U	ug/kg	
P17-33	M	Aroclor-1260	P17-33C-636056	NONE	482056.8	1350637	12/11/96	44.00		U	ug/kg	44.00		U	ug/kg	
P17-33	M	Aroclor-1260	P17-33C-642036	NONE	482036.83	1350643	12/11/96	43.00		U	ug/kg	43.00		U	ug/kg	
P17-33	M	Aroclor-1260	P17-33C-658095	NONE	482095.78	1350658	12/11/96	43.00		U	ug/kg	43.00		U	ug/kg	
P17-33	M	Aroclor-1260	P17-33C-668156	NONE	482156.71	1350669	12/11/96	45.00		U	ug/kg	45.00		U	ug/kg	
P17-33	M	Aroclor-1260	P17-33C-701070	NONE	482070.81	1350701	12/11/96	48.00		U	ug/kg	48.00		U	ug/kg	
P17-33	M	Aroclor-1260	P17-33C-725110	NONE	482110.92	1350725	12/11/96	48.00		U	ug/kg	48.00		U	ug/kg	
P17-33	M	Aroclor-1260	P17-33C-747048	NONE	482048.77	1350748	12/11/96	44.00		U	ug/kg	44.00		U	ug/kg	
P17-33	M	Aroclor-1260	P17-33C-785192	NONE	482192.57	1350785	12/11/96	45.00		U	ug/kg	45.00		U	ug/kg	
P17-33	M	Arsenic	P17-33C-621137	NONE	482137.93	1350622	12/11/96	5.50			mg/kg	5.50		-	mg/kg	
P17-33	M	Arsenic	P17-33C-628166	NONE	482166.72	1350629	12/11/96	8.50			mg/kg	8.50		-	mg/kg	
P17-33	M	Arsenic	P17-33C-636056	NONE	482056.8	1350637	12/11/96	5.80			mg/kg	5.80		-	mg/kg	
P17-33	M	Arsenic	P17-33C-642036	NONE	482036.83	1350643	12/11/96	7.50			mg/kg	7.50		J	mg/kg	
P17-33	M	Arsenic	P17-33C-658095	NONE	482095.78	1350658	12/11/96	4.90			mg/kg	4.90		-	mg/kg	
P17-33	M	Arsenic	P17-33C-668156	NONE	482156.71	1350669	12/11/96	7.50			mg/kg	7.50		-	mg/kg	
P17-33	M	Arsenic	P17-33C-701070	NONE	482070.81	1350701	12/11/96	6.90			mg/kg	6.90		J	mg/kg	
P17-33	M	Arsenic	P17-33C-725110	NONE	482110.92	1350725	12/11/96	8.80			mg/kg	8.80		-	mg/kg	
P17-33	M	Arsenic	P17-33C-747048	NONE	482048.77	1350748	12/11/96	5.30			mg/kg	5.30		-	mg/kg	
P17-33	M	Arsenic	P17-33C-785192	NONE	482192.57	1350785	12/11/96	5.60			mg/kg	5.60		-	mg/kg	
P17-33	M	Beryllium	P17-33C-621137	NONE	482137.93	1350622	12/11/96	0.80		B	mg/kg	0.80		U	mg/kg	
P17-33	M	Beryllium	P17-33C-628166	NONE	482166.72	1350629	12/11/96	0.87			mg/kg	0.87		-	mg/kg	
P17-33	M	Beryllium	P17-33C-636056	NONE	482056.8	1350637	12/11/96	0.74		B	mg/kg	0.74		U	mg/kg	
P17-33	M	Beryllium	P17-33C-642036	NONE	482036.83	1350643	12/11/96	0.68			mg/kg	0.68		-	mg/kg	
P17-33	M	Beryllium	P17-33C-658095	NONE	482095.78	1350658	12/11/96	0.83		B	mg/kg	0.83		U	mg/kg	
P17-33	M	Beryllium	P17-33C-668156	NONE	482156.71	1350669	12/11/96	0.90		B	mg/kg	0.90		U	mg/kg	
P17-33	M	Beryllium	P17-33C-701070	NONE	482070.81	1350701	12/11/96	0.72			mg/kg	0.72		U	mg/kg	
P17-33	M	Beryllium	P17-33C-725110	NONE	482110.92	1350725	12/11/96	0.87			mg/kg	0.87		-	mg/kg	
P17-33	M	Beryllium	P17-33C-747048	NONE	482048.77	1350748	12/11/96	0.79		B	mg/kg	0.79		U	mg/kg	
P17-33	M	Beryllium	P17-33C-785192	NONE	482192.57	1350785	12/11/96	0.87		B	mg/kg	0.87		U	mg/kg	
P17-33	R	Moisture Content	P17-33C-604181	NONE	482181.8	1350604	12/11/96	10.30			Percent	10.30		NV	Percent	
P17-33	R	Moisture Content	P17-33C-620020	NONE	482020.11	1350620	12/11/96	14.70			Percent	14.70		NV	Percent	
P17-33	R	Moisture Content	P17-33C-620020-D	NONE	482020.11	1350620	12/11/96	12.00			Percent	12.00		NV	Percent	P17-33C-620020
P17-33	R	Moisture Content	P17-33C-634109	NONE	482109.55	1350635	12/11/96	9.50			Percent	9.50		NV	Percent	
P17-33	R	Moisture Content	P17-33C-663037	NONE	482037.91	1350664	12/11/96	9.20			Percent	9.20		NV	Percent	
P17-33	R	Moisture Content	P17-33C-684068	NONE	482068.92	1350685	12/11/96	9.20			Percent	9.20		NV	Percent	

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CU Name	CU Type	Parameter	Sample ID	Suffix	Northing	Easting	Sample Date	Laboratory Data				Validation Data				
								Lab Result	TPU	Qualifier	Units	Val. Result	TPU	Qualifier	Units	Duplicate of
P17-33	R	Moisture Content	P17-33C-697110	NONE	482110.69	1350697	12/11/96	10.30			Percent	10.30		NV	Percent	
P17-33	R	Moisture Content	P17-33C-720017	NONE	482017.55	1350721	12/11/96	11.80			Percent	11.80		NV	Percent	
P17-33	R	Moisture Content	P17-33C-727116	NONE	482116.26	1350728	12/11/96	16.20			Percent	16.20		NV	Percent	
P17-33	R	Moisture Content	P17-33C-736082	NONE	482082.89	1350736	12/11/96	9.90			Percent	9.90		NV	Percent	
P17-33	R	Moisture Content	P17-33C-747174	NONE	482174.14	1350748	12/11/96	12.50			Percent	12.50		NV	Percent	
P17-33	R	Moisture Content	P17-33C-764098	NONE	482098.94	1350765	12/11/96	9.80			Percent	9.80		NV	Percent	
P17-33	R	Moisture Content	P17-33C-780141	NONE	482141.65	1350780	12/11/96	12.50			Percent	12.50		NV	Percent	
P17-33	R	Radium-226	P17-33C-604181	NONE	482181.8	1350604	12/11/96	1.00	0.11		pCi/g	1.00	0.11	-	pCi/g	
P17-33	R	Radium-226	P17-33C-620020	NONE	482020.11	1350620	12/11/96	0.85	0.11		pCi/g	0.85	0.11	-	pCi/g	
P17-33	R	Radium-226	P17-33C-620020-D	NONE	482020.11	1350620	12/11/96	0.90	0.14		pCi/g	0.90	0.14	R	pCi/g	P17-33C-620020
P17-33	R	Radium-226	P17-33C-634109	NONE	482109.55	1350635	12/11/96	0.89	0.14		pCi/g	0.89	0.14	-	pCi/g	
P17-33	R	Radium-226	P17-33C-663037	NONE	482037.91	1350664	12/11/96	0.79	0.79		pCi/g	0.79	0.11	-	pCi/g	
P17-33	R	Radium-226	P17-33C-684068	NONE	482068.92	1350685	12/11/96	1.00	0.15		pCi/g	1.00	0.15	-	pCi/g	
P17-33	R	Radium-226	P17-33C-697110	NONE	482110.69	1350697	12/11/96	0.91	0.13		pCi/g	0.91	0.13	-	pCi/g	
P17-33	R	Radium-226	P17-33C-720017	NONE	482017.55	1350721	12/11/96	0.92	0.15		pCi/g	0.92	0.15	-	pCi/g	
P17-33	R	Radium-226	P17-33C-727116	NONE	482116.26	1350728	12/11/96	1.40	0.17		pCi/g	1.40	0.17	-	pCi/g	
P17-33	R	Radium-226	P17-33C-736082	NONE	482082.89	1350736	12/11/96	0.44	0.06		pCi/g	0.86	0.12	-	pCi/g	
P17-33	R	Radium-226	P17-33C-747174	NONE	482174.14	1350748	12/11/96	0.94	0.16		pCi/g	0.94	0.16	-	pCi/g	
P17-33	R	Radium-226	P17-33C-764098	NONE	482098.94	1350765	12/11/96	0.86	0.12		pCi/g	0.97	0.16	-	pCi/g	
P17-33	R	Radium-226	P17-33C-780141	NONE	482141.65	1350780	12/11/96	1.20	0.14		pCi/g	1.20	0.14	-	pCi/g	
P17-33	R	Radium-228	P17-33C-604181	NONE	482181.8	1350604	12/11/96	0.91	0.25		pCi/g	0.91	0.25	-	pCi/g	
P17-33	R	Radium-228	P17-33C-620020	NONE	482020.11	1350620	12/11/96	0.71	0.23		pCi/g	0.71	0.23	-	pCi/g	
P17-33	R	Radium-228	P17-33C-620020-D	NONE	482020.11	1350620	12/11/96	0.69	0.25		pCi/g	0.69	0.25	R	pCi/g	P17-33C-620020
P17-33	R	Radium-228	P17-33C-634109	NONE	482109.55	1350635	12/11/96	0.79	0.25		pCi/g	0.79	0.25	-	pCi/g	
P17-33	R	Radium-228	P17-33C-663037	NONE	482037.91	1350664	12/11/96	0.87	0.25		pCi/g	0.87	0.25	-	pCi/g	
P17-33	R	Radium-228	P17-33C-684068	NONE	482068.92	1350685	12/11/96	1.10	0.32		pCi/g	1.10	0.32	-	pCi/g	
P17-33	R	Radium-228	P17-33C-697110	NONE	482110.69	1350697	12/11/96	0.79	0.24		pCi/g	0.79	0.24	-	pCi/g	
P17-33	R	Radium-228	P17-33C-720017	NONE	482017.55	1350721	12/11/96	0.83	0.28		pCi/g	0.83	0.28	-	pCi/g	
P17-33	R	Radium-228	P17-33C-727116	NONE	482116.26	1350728	12/11/96	1.40	0.39		pCi/g	1.40	0.39	-	pCi/g	
P17-33	R	Radium-228	P17-33C-736082	NONE	482082.89	1350736	12/11/96	0.42	0.12		pCi/g	0.85	0.23	-	pCi/g	
P17-33	R	Radium-228	P17-33C-747174	NONE	482174.14	1350748	12/11/96	1.10	0.32		pCi/g	1.10	0.32	-	pCi/g	
P17-33	R	Radium-228	P17-33C-764098	NONE	482098.94	1350765	12/11/96	0.85	0.23		pCi/g	0.98	0.31	-	pCi/g	
P17-33	R	Radium-228	P17-33C-780141	NONE	482141.65	1350780	12/11/96	0.92	0.26		pCi/g	0.92	0.26	-	pCi/g	
P17-33	R	Thorium-228	P17-33C-604181	NONE	482181.8	1350604	12/11/96	0.94	0.38		pCi/g	0.94	0.38	-	pCi/g	
P17-33	R	Thorium-228	P17-33C-620020	NONE	482020.11	1350620	12/11/96	0.65	0.24		pCi/g	0.65	0.24	-	pCi/g	
P17-33	R	Thorium-228	P17-33C-620020-D	NONE	482020.11	1350620	12/11/96	0.57	0.23		pCi/g	0.57	0.23	R	pCi/g	P17-33C-620020
P17-33	R	Thorium-228	P17-33C-634109	NONE	482109.55	1350635	12/11/96	0.84	0.33		pCi/g	0.84	0.33	-	pCi/g	
P17-33	R	Thorium-228	P17-33C-663037	NONE	482037.91	1350664	12/11/96	0.88	0.35		pCi/g	0.88	0.35	-	pCi/g	
P17-33	R	Thorium-228	P17-33C-684068	NONE	482068.92	1350685	12/11/96	0.67	0.27		pCi/g	0.67	0.27	-	pCi/g	
P17-33	R	Thorium-228	P17-33C-697110	NONE	482110.69	1350697	12/11/96	0.90	0.37		pCi/g	0.90	0.37	-	pCi/g	

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							Laboratory Data				Validation Data				
CU Name	CU Type	Parameter	Sample ID	Suffix	Northing	Easting	Sample Date	Lab Result	TPU	Qualifier	Units	Val. Result	TPU	Qualifier	Units	Duplicate of
P17-33	R	Thorium-228	P17-33C-720017	NONE	482017.55	1350721	12/11/96	0.87	0.36		pCi/g	0.87	0.36	-	pCi/g	
P17-33	R	Thorium-228	P17-33C-727116	NONE	482116.26	1350728	12/11/96	1.20	0.45		pCi/g	1.20	0.45	-	pCi/g	
P17-33	R	Thorium-228	P17-33C-736082	NONE	482082.89	1350736	12/11/96	0.63	0.25		pCi/g	0.63	0.25	-	pCi/g	
P17-33	R	Thorium-228	P17-33C-747174	NONE	482174.14	1350748	12/11/96	0.87	0.34		pCi/g	0.87	0.34	J	pCi/g	
P17-33	R	Thorium-228	P17-33C-764098	NONE	482098.94	1350765	12/11/96	0.82	0.37		pCi/g	0.82	0.37	-	pCi/g	
P17-33	R	Thorium-228	P17-33C-780141	NONE	482141.65	1350780	12/11/96	0.77	0.31		pCi/g	0.77	0.31	J	pCi/g	
P17-33	R	Thorium-232	P17-33C-604181	NONE	482181.8	1350604	12/11/96	0.74	0.30		pCi/g	0.74	0.30	-	pCi/g	
P17-33	R	Thorium-232	P17-33C-620020	NONE	482020.11	1350620	12/11/96	0.64	0.23		pCi/g	0.64	0.23	-	pCi/g	
P17-33	R	Thorium-232	P17-33C-620020-D	NONE	482020.11	1350620	12/11/96	0.53	0.21		pCi/g	0.53	0.21	R	pCi/g	P17-33C-620020
P17-33	R	Thorium-232	P17-33C-634109	NONE	482109.55	1350635	12/11/96	0.76	0.30		pCi/g	0.76	0.30	-	pCi/g	
P17-33	R	Thorium-232	P17-33C-663037	NONE	482037.91	1350664	12/11/96	0.83	0.32		pCi/g	0.83	0.32	-	pCi/g	
P17-33	R	Thorium-232	P17-33C-684068	NONE	482068.92	1350685	12/11/96	0.62	0.24		pCi/g	0.62	0.24	-	pCi/g	
P17-33	R	Thorium-232	P17-33C-697110	NONE	482110.69	1350697	12/11/96	0.88	0.35		pCi/g	0.88	0.35	-	pCi/g	
P17-33	R	Thorium-232	P17-33C-720017	NONE	482017.55	1350721	12/11/96	0.87	0.35		pCi/g	0.87	0.35	-	pCi/g	
P17-33	R	Thorium-232	P17-33C-727116	NONE	482116.26	1350728	12/11/96	1.20	0.44		pCi/g	1.20	0.44	-	pCi/g	
P17-33	R	Thorium-232	P17-33C-736082	NONE	482082.89	1350736	12/11/96	0.83	0.32		pCi/g	0.83	0.32	-	pCi/g	
P17-33	R	Thorium-232	P17-33C-747174	NONE	482174.14	1350748	12/11/96	0.74	0.28		pCi/g	0.74	0.28	J	pCi/g	
P17-33	R	Thorium-232	P17-33C-764098	NONE	482098.94	1350765	12/11/96	0.83	0.36		pCi/g	0.83	0.36	-	pCi/g	
P17-33	R	Thorium-232	P17-33C-780141	NONE	482141.65	1350780	12/11/96	0.72	0.28		pCi/g	0.72	0.28	J	pCi/g	
P17-33	R	Uranium, Total	P17-33C-604181	NONE	482181.8	1350604	12/11/96				ug/g	11.69	2.28	-	ug/g	
P17-33	R	Uranium, Total	P17-33C-620020	NONE	482020.11	1350620	12/11/96				ug/g	8.10	1.83	J	ug/g	
P17-33	R	Uranium, Total	P17-33C-620020-D	NONE	482020.11	1350620	12/11/96				ug/g	5.40	1.77	R	ug/g	P17-33C-620020
P17-33	R	Uranium, Total	P17-33C-634109	NONE	482109.55	1350635	12/11/96				ug/g	6.60	2.10	-	ug/g	
P17-33	R	Uranium, Total	P17-33C-663037	NONE	482037.91	1350664	12/11/96				ug/g	9.60	2.46	-	ug/g	
P17-33	R	Uranium, Total	P17-33C-684068	NONE	482068.92	1350685	12/11/96				ug/g	9.00	2.46	-	ug/g	
P17-33	R	Uranium, Total	P17-33C-697110	NONE	482110.69	1350697	12/11/96				ug/g	9.30	2.43	-	ug/g	
P17-33	R	Uranium, Total	P17-33C-720017	NONE	482017.55	1350721	12/11/96				ug/g	11.10	2.64	-	ug/g	
P17-33	R	Uranium, Total	P17-33C-727116	NONE	482116.26	1350728	12/11/96				ug/g	8.40	2.73	-	ug/g	
P17-33	R	Uranium, Total	P17-33C-736082	NONE	482082.89	1350736	12/11/96				ug/g	7.50	1.62	-	ug/g	
P17-33	R	Uranium, Total	P17-33C-747174	NONE	482174.14	1350748	12/11/96				ug/g	7.80	2.19	-	ug/g	
P17-33	R	Uranium, Total	P17-33C-764098	NONE	482098.94	1350765	12/11/96				ug/g	7.80	1.98	-	ug/g	
P17-33	R	Uranium, Total	P17-33C-780141	NONE	482141.65	1350780	12/11/96				ug/g	6.00	1.74	-	ug/g	
P17-33	R	Uranium-238	P17-33C-604181	NONE	482181.8	1350604	12/11/96	3.90	0.76		pCi/g	3.90	0.76	-	pCi/g	
P17-33	R	Uranium-238	P17-33C-620020	NONE	482020.11	1350620	12/11/96	2.70	0.61		pCi/g	2.70	0.61	J	pCi/g	
P17-33	R	Uranium-238	P17-33C-620020-D	NONE	482020.11	1350620	12/11/96	1.80	0.59		pCi/g	1.80	0.59	R	pCi/g	P17-33C-620020
P17-33	R	Uranium-238	P17-33C-634109	NONE	482109.55	1350635	12/11/96	2.20	0.70		pCi/g	2.20	0.70	-	pCi/g	
P17-33	R	Uranium-238	P17-33C-663037	NONE	482037.91	1350664	12/11/96	3.20	0.82		pCi/g	3.20	0.82	-	pCi/g	
P17-33	R	Uranium-238	P17-33C-684068	NONE	482068.92	1350685	12/11/96	3.00	0.82		pCi/g	3.00	0.82	-	pCi/g	
P17-33	R	Uranium-238	P17-33C-697110	NONE	482110.69	1350697	12/11/96	3.10	0.81		pCi/g	3.10	0.81	-	pCi/g	
P17-33	R	Uranium-238	P17-33C-720017	NONE	482017.55	1350721	12/11/96	3.70	0.88		pCi/g	3.70	0.88	-	pCi/g	

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								Laboratory Data				Validation Data				
CU Name	CU Type	Parameter	Sample ID	Suffix	Northing	Easting	Sample Date	Lab Result	TPU	Qualifier	Units	Val. Result	TPU	Qualifier	Units	Duplicate of
P17-33	R	Uranium-238	P17-33C-727116	NONE	482116.26	1350728	12/11/96	2.80	0.91		pCi/g	2.80	0.91	-	pCi/g	
P17-33	R	Uranium-238	P17-33C-736082	NONE	482082.89	1350736	12/11/96	1.10	0.24		pCi/g	2.50	0.54	-	pCi/g	
P17-33	R	Uranium-238	P17-33C-747174	NONE	482174.14	1350748	12/11/96	2.60	0.73		pCi/g	2.60	0.73	-	pCi/g	
P17-33	R	Uranium-238	P17-33C-764098	NONE	482098.94	1350765	12/11/96	2.50	0.54		pCi/g	2.60	0.66	-	pCi/g	
P17-33	R	Uranium-238	P17-33C-780141	NONE	482141.65	1350780	12/11/96	2.00	0.58		pCi/g	2.00	0.58	-	pCi/g	
P17-40	M	Arsenic	P17-40C-034144	NONE	482144.68	1351035	3/21/97	10.20			mg/kg	10.20		-	mg/kg	
P17-40	M	Arsenic	P17-40C-161053	NONE	482053.7	1351161	12/4/96	10.10			mg/kg	10.10		-	mg/kg	
P17-40	M	Arsenic	P17-40C-173146	NONE	482146.95	1351174	12/6/96	7.10			mg/kg	7.10		-	mg/kg	
P17-40	M	Arsenic	P17-40C-242116	NONE	482116.91	1351242	12/4/96	10.70			mg/kg	10.70		-	mg/kg	
P17-40	M	Arsenic	P17-40C-326937	NONE	481937.67	1351326	3/21/97	9.10			mg/kg	9.10		-	mg/kg	
P17-40	M	Arsenic	P17-40C-334115	NONE	482115.51	1351335	12/4/96	8.00			mg/kg	8.00		-	mg/kg	
P17-40	M	Arsenic	P17-40C-355079	NONE	482079.96	1351336	12/4/96	7.90			mg/kg	7.90		-	mg/kg	
P17-40	M	Arsenic	P17-40C-355079-D	NONE	482079.96	1351336	12/4/96	7.70			mg/kg	7.70		-	mg/kg	P17-40C-355079
P17-40	M	Arsenic	P17-40C-361850	NONE	481850.73	1351362	12/4/96	8.80			mg/kg	8.80		-	mg/kg	
P17-40	M	Arsenic	P17-40C2-M-2	NONE	482014.61	1351265	3/24/97	8.80		N	mg/kg	8.80		J	mg/kg	
P17-40	M	Arsenic	P18C-325201	NONE	482201.8	1351325	11/27/96	7.80			mg/kg	7.80		-	mg/kg	
P17-40	M	Beryllium	P17-40C-034144	NONE	482144.68	1351035	3/21/97	0.76			mg/kg	0.76		-	mg/kg	
P17-40	M	Beryllium	P17-40C-161053	NONE	482053.7	1351161	12/4/96	0.85			mg/kg	0.85		U	mg/kg	
P17-40	M	Beryllium	P17-40C-173146	NONE	482146.95	1351174	12/6/96	0.55		B	mg/kg	0.55		U	mg/kg	
P17-40	M	Beryllium	P17-40C-242116	NONE	482116.91	1351242	12/4/96	0.78			mg/kg	0.78		U	mg/kg	
P17-40	M	Beryllium	P17-40C-326937	NONE	481937.67	1351326	3/21/97	0.86			mg/kg	0.86		-	mg/kg	
P17-40	M	Beryllium	P17-40C-334115	NONE	482115.51	1351335	12/4/96	0.69			mg/kg	0.69		U	mg/kg	
P17-40	M	Beryllium	P17-40C-355079	NONE	482079.96	1351336	12/4/96	0.78			mg/kg	0.78		U	mg/kg	
P17-40	M	Beryllium	P17-40C-355079-D	NONE	482079.96	1351336	12/4/96	0.80			mg/kg	0.80		U	mg/kg	P17-40C-355079
P17-40	M	Beryllium	P17-40C-361850	NONE	481850.73	1351362	12/4/96	0.76			mg/kg	0.76		U	mg/kg	
P17-40	M	Beryllium	P17-40C2-M-2	NONE	482014.61	1351265	3/24/97	0.88			mg/kg	0.88		U	mg/kg	
P17-40	M	Beryllium	P18C-325201	NONE	482201.8	1351325	11/27/96	0.67			mg/kg	0.67		U	mg/kg	
P17-40	R	Moisture Content	P17-34C-964146	NONE	482146.5	1350964	12/3/96	19.60			Percent	19.60		NV	Percent	
P17-40	R	Moisture Content	P17-34C-972199	NONE	482199.62	1350972	12/3/96	18.40			Percent	18.40		NV	Percent	
P17-40	R	Moisture Content	P17-40C-052114	NONE	482114.11	1351052	12/4/96	22.40			Percent	22.40		NV	Percent	
P17-40	R	Moisture Content	P17-40C-145113	NONE	482113.38	1351145	12/4/96	23.40			Percent	23.40		NV	Percent	
P17-40	R	Moisture Content	P17-40C-281110	NONE	482110.58	1351281	12/4/96	17.30			Percent	17.30		NV	Percent	
P17-40	R	Moisture Content	P17-40C-289031	NONE	482031.42	1351289	12/4/96	17.00			Percent	17.00		NV	Percent	
P17-40	R	Moisture Content	P17-40C-292103	NONE	482103.44	1351293	12/4/96	20.30			Percent	20.30		NV	Percent	
P17-40	R	Moisture Content	P17-40C-368105	NONE	482105.67	1351369	12/4/96	18.60			Percent	18.60		NV	Percent	
P17-40	R	Moisture Content	P17-40C-397115	NONE	482115.22	1351398	12/4/96	21.40			Percent	21.40		NV	Percent	
P17-40	R	Moisture Content	P17-40C-398021	NONE	482021.7	1351399	12/4/96	19.40			Percent	19.40		NV	Percent	
P17-40	R	Moisture Content	P17-40C-398021-D	NONE	482021.7	1351399	12/4/96	20.30			Percent	20.30		NV	Percent	P17-40C-398021
P17-40	R	Moisture Content	P17-40C2-R-1	NONE	481920.06	1351359	3/21/97	16.60			Percent			NV	Percent	

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								Laboratory Data				Validation Data				
CU Name	CU Type	Parameter	Sample ID	Suffix	Northing	Easting	Sample Date	Lab Result	TPU	Qualifier	Units	Val. Result	TPU	Qualifier	Units	Duplicate of
P17-40	R	Moisture Content	P17-40C2-R-3	NONE	482027.6	1350979	3/24/97	17.70			Percent			NV	Percent	
P17-40	R	Moisture Content	P17-40C2-R-3-D	NONE	482027.6	1350979	3/24/97	17.90			Percent			NV	Percent	P17-40C2-R-3
P17-40	R	Moisture Content	P17-40C2-R-4	NONE	482005.62	1351075	3/24/97	11.70			Percent			NV	Percent	
P17-40	R	Moisture Content	P17-40C2-R-5	NONE	482001.85	1351120	3/24/97	15.70			Percent			NV	Percent	
P17-40	R	Radium-226	P17-34C-964146	NONE	482146.5	1350964	12/3/96	1.50	0.16		pCi/g	1.50	0.16	-	pCi/g	
P17-40	R	Radium-226	P17-34C-972199	NONE	482199.62	1350972	12/3/96	1.60	0.21		pCi/g	1.60	0.21	-	pCi/g	
P17-40	R	Radium-226	P17-40C-052114	NONE	482114.11	1351052	12/4/96	1.40	0.17		pCi/g	1.40	0.17	-	pCi/g	
P17-40	R	Radium-226	P17-40C-145113	NONE	482113.38	1351145	12/4/96	1.50	0.16		pCi/g	1.50	0.16	-	pCi/g	
P17-40	R	Radium-226	P17-40C-281110	NONE	482110.58	1351281	12/4/96	1.50	0.18		pCi/g	1.50	0.18	-	pCi/g	
P17-40	R	Radium-226	P17-40C-289031	NONE	482031.42	1351289	12/4/96	1.60	0.20		pCi/g	1.60	0.20	-	pCi/g	
P17-40	R	Radium-226	P17-40C-292103	NONE	482103.44	1351293	12/4/96	1.30	0.13		pCi/g	1.30	0.13	-	pCi/g	
P17-40	R	Radium-226	P17-40C-368105	NONE	482105.67	1351369	12/4/96	1.40	0.16		pCi/g	1.40	0.16	-	pCi/g	
P17-40	R	Radium-226	P17-40C-397115	NONE	482115.22	1351398	12/4/96	1.80	0.21		pCi/g	1.80	0.21	-	pCi/g	
P17-40	R	Radium-226	P17-40C-398021	NONE	482021.7	1351399	12/4/96	1.30	0.13		pCi/g	1.30	0.13	-	pCi/g	
P17-40	R	Radium-226	P17-40C-398021-D	NONE	482021.7	1351399	12/4/96	1.20	0.15		pCi/g	1.20	0.15	-	pCi/g	P17-40C-398021
P17-40	R	Radium-226	P17-40C2-R-1	NONE	481920.06	1351359	3/21/97	1.60	0.16		pCi/g	1.56	0.16	-	pCi/g	
P17-40	R	Radium-226	P17-40C2-R-3	NONE	482027.6	1350979	3/24/97	1.20	0.18		pCi/g	1.25	0.18	-	pCi/g	
P17-40	R	Radium-226	P17-40C2-R-3-D	NONE	482027.6	1350979	3/24/97	1.40	0.16		pCi/g	1.42	0.16	-	pCi/g	P17-40C2-R-3
P17-40	R	Radium-226	P17-40C2-R-4	NONE	482005.62	1351075	3/24/97	0.84	0.11		pCi/g	0.84	0.12	-	pCi/g	
P17-40	R	Radium-226	P17-40C2-R-5	NONE	482001.85	1351120	3/24/97	1.20	0.18		pCi/g	1.20	0.18	-	pCi/g	
P17-40	R	Radium-228	P17-34C-964146	NONE	482146.5	1350964	12/3/96	1.30	0.38		pCi/g	1.30	0.38	-	pCi/g	
P17-40	R	Radium-228	P17-34C-972199	NONE	482199.62	1350972	12/3/96	1.30	0.37		pCi/g	1.30	0.37	-	pCi/g	
P17-40	R	Radium-228	P17-40C-052114	NONE	482114.11	1351052	12/4/96	1.50	0.42		pCi/g	1.50	0.42	-	pCi/g	
P17-40	R	Radium-228	P17-40C-145113	NONE	482113.38	1351145	12/4/96	1.40	0.35		pCi/g	1.40	0.35	-	pCi/g	
P17-40	R	Radium-228	P17-40C-281110	NONE	482110.58	1351281	12/4/96	1.30	0.36		pCi/g	1.30	0.36	-	pCi/g	
P17-40	R	Radium-228	P17-40C-289031	NONE	482031.42	1351289	12/4/96	1.20	0.37		pCi/g	1.20	0.37	-	pCi/g	
P17-40	R	Radium-228	P17-40C-292103	NONE	482103.44	1351293	12/4/96	1.30	0.33		pCi/g	1.30	0.33	-	pCi/g	
P17-40	R	Radium-228	P17-40C-368105	NONE	482105.67	1351369	12/4/96	1.40	0.39		pCi/g	1.40	0.39	-	pCi/g	
P17-40	R	Radium-228	P17-40C-397115	NONE	482115.22	1351398	12/4/96	1.30	0.39		pCi/g	1.30	0.39	-	pCi/g	
P17-40	R	Radium-228	P17-40C-398021	NONE	482021.7	1351399	12/4/96	1.20	0.32		pCi/g	1.20	0.32	-	pCi/g	
P17-40	R	Radium-228	P17-40C-398021-D	NONE	482021.7	1351399	12/4/96	1.20	0.32		pCi/g	1.20	0.32	-	pCi/g	P17-40C-398021
P17-40	R	Radium-228	P17-40C2-R-1	NONE	481920.06	1351359	3/21/97	1.70	0.44		pCi/g	1.67	0.44	-	pCi/g	
P17-40	R	Radium-228	P17-40C2-R-3	NONE	482027.6	1350979	3/24/97	1.10	0.35		pCi/g	1.14	0.35	-	pCi/g	
P17-40	R	Radium-228	P17-40C2-R-3-D	NONE	482027.6	1350979	3/24/97	1.40	0.38		pCi/g	1.44	0.38	-	pCi/g	P17-40C2-R-3
P17-40	R	Radium-228	P17-40C2-R-4	NONE	482005.62	1351075	3/24/97	0.72	0.24		pCi/g	0.72	0.24	-	pCi/g	
P17-40	R	Radium-228	P17-40C2-R-5	NONE	482001.85	1351120	3/24/97	1.10	0.36		pCi/g	1.08	0.36	-	pCi/g	
P17-40	R	Thorium-228	P17-34C-964146	NONE	482146.5	1350964	12/3/96	1.20	0.48		pCi/g	1.20	0.48	J	pCi/g	
P17-40	R	Thorium-228	P17-34C-972199	NONE	482199.62	1350972	12/3/96	1.10	0.43		pCi/g	1.10	0.43	J	pCi/g	
P17-40	R	Thorium-228	P17-40C-052114	NONE	482114.11	1351052	12/4/96	1.30	0.61		pCi/g	1.30	0.61	J	pCi/g	
P17-40	R	Thorium-228	P17-40C-145113	NONE	482113.38	1351145	12/4/96	1.20	0.48		pCi/g	1.20	0.48	J	pCi/g	

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								Laboratory Data				Validation Data				
CU Name	CU Type	Parameter	Sample ID	Suffix	Northing	Easting	Sample Date	Lab Result	TPU	Qualifier	Units	Val. Result	TPU	Qualifier	Units	Duplicate of
P17-40	R	Thorium-228	P17-40C-281110	NONE	482110.58	1351281	12/4/96	1.40	0.54		pCi/g	1.40	0.54	-	pCi/g	
P17-40	R	Thorium-228	P17-40C-289031	NONE	482031.42	1351289	12/4/96	1.40	0.54		pCi/g	1.40	0.54	J	pCi/g	
P17-40	R	Thorium-228	P17-40C-292103	NONE	482103.44	1351293	12/4/96	1.10	0.45		pCi/g	1.10	0.45	J	pCi/g	
P17-40	R	Thorium-228	P17-40C-368105	NONE	482105.67	1351369	12/4/96	1.20	0.48		pCi/g	1.20	0.48	J	pCi/g	
P17-40	R	Thorium-228	P17-40C-397115	NONE	482115.22	1351398	12/4/96	1.50	0.58		pCi/g	1.50	0.58	-	pCi/g	
P17-40	R	Thorium-228	P17-40C-398021	NONE	482021.7	1351399	12/4/96	1.20	0.50		pCi/g	1.20	0.50	J	pCi/g	
P17-40	R	Thorium-228	P17-40C-398021-D	NONE	482021.7	1351399	12/4/96	1.10	0.44		pCi/g	1.10	0.44	-	pCi/g	P17-40C-398021
P17-40	R	Thorium-228	P17-40C2-R-1	NONE	481920.06	1351359	3/21/97	1.30	0.51		pCi/g	1.35	0.51	J	pCi/g	
P17-40	R	Thorium-228	P17-40C2-R-3	NONE	482027.6	1350979	3/24/97	1.30	0.56		pCi/g	1.32	0.56	J	pCi/g	
P17-40	R	Thorium-228	P17-40C2-R-3-D	NONE	482027.6	1350979	3/24/97	1.30	0.56		pCi/g	1.34	0.56	J	pCi/g	P17-40C2-R-3
P17-40	R	Thorium-228	P17-40C2-R-4	NONE	482005.62	1351075	3/24/97	0.94	0.43		pCi/g	0.95	0.43	J	pCi/g	
P17-40	R	Thorium-228	P17-40C2-R-5	NONE	482001.85	1351120	3/24/97	1.20	0.48		pCi/g	1.20	0.49	-	pCi/g	
P17-40	R	Thorium-232	P17-34C-964146	NONE	482146.5	1350964	12/3/96	1.10	0.41		pCi/g	1.10	0.41	J	pCi/g	
P17-40	R	Thorium-232	P17-34C-972199	NONE	482199.62	1350972	12/3/96	1.10	0.43		pCi/g	1.10	0.43	J	pCi/g	
P17-40	R	Thorium-232	P17-40C-052114	NONE	482114.11	1351052	12/4/96	1.20	0.54		pCi/g	1.20	0.54	J	pCi/g	
P17-40	R	Thorium-232	P17-40C-145113	NONE	482113.38	1351145	12/4/96	1.30	0.50		pCi/g	1.30	0.50	J	pCi/g	
P17-40	R	Thorium-232	P17-40C-281110	NONE	482110.58	1351281	12/4/96	1.30	0.49		pCi/g	1.30	0.49	-	pCi/g	
P17-40	R	Thorium-232	P17-40C-289031	NONE	482031.42	1351289	12/4/96	1.40	0.51		pCi/g	1.40	0.51	J	pCi/g	
P17-40	R	Thorium-232	P17-40C-292103	NONE	482103.44	1351293	12/4/96	1.10	0.42		pCi/g	1.10	0.42	J	pCi/g	
P17-40	R	Thorium-232	P17-40C-368105	NONE	482105.67	1351369	12/4/96	1.10	0.43		pCi/g	1.10	0.43	J	pCi/g	
P17-40	R	Thorium-232	P17-40C-397115	NONE	482115.22	1351398	12/4/96	1.30	0.49		pCi/g	1.30	0.49	-	pCi/g	
P17-40	R	Thorium-232	P17-40C-398021	NONE	482021.7	1351399	12/4/96	1.10	0.46		pCi/g	1.10	0.46	J	pCi/g	
P17-40	R	Thorium-232	P17-40C-398021-D	NONE	482021.7	1351399	12/4/96	1.00	0.40		pCi/g	1.00	0.40	-	pCi/g	P17-40C-398021
P17-40	R	Thorium-232	P17-40C2-R-1	NONE	481920.06	1351359	3/21/97	1.00	0.39		pCi/g	1.01	0.39	J	pCi/g	
P17-40	R	Thorium-232	P17-40C2-R-3	NONE	482027.6	1350979	3/24/97	1.20	0.49		pCi/g	1.15	0.49	J	pCi/g	
P17-40	R	Thorium-232	P17-40C2-R-3-D	NONE	482027.6	1350979	3/24/97	1.10	0.46		pCi/g	1.10	0.46	J	pCi/g	P17-40C2-R-3
P17-40	R	Thorium-232	P17-40C2-R-4	NONE	482005.62	1351075	3/24/97	0.79	0.36		pCi/g	0.79	0.36	J	pCi/g	
P17-40	R	Thorium-232	P17-40C2-R-5	NONE	482001.85	1351120	3/24/97	1.20	0.47		pCi/g	1.15	0.47	-	pCi/g	
P17-40	R	Uranium, Total	P17-34C-964146	NONE	482146.5	1350964	12/3/96				ug/g	3.30	1.80	J	ug/g	
P17-40	R	Uranium, Total	P17-34C-972199	NONE	482199.62	1350972	12/3/96				ug/g	9.00	2.49	J	ug/g	
P17-40	R	Uranium, Total	P17-40C-052114	NONE	482114.11	1351052	12/4/96				ug/g	13.49	3.30	-	ug/g	
P17-40	R	Uranium, Total	P17-40C-145113	NONE	482113.38	1351145	12/4/96				ug/g	13.79	2.82	-	ug/g	
P17-40	R	Uranium, Total	P17-40C-281110	NONE	482110.58	1351281	12/4/96				ug/g	8.40	2.34	-	ug/g	
P17-40	R	Uranium, Total	P17-40C-289031	NONE	482031.42	1351289	12/4/96				ug/g	3.60		U	ug/g	
P17-40	R	Uranium, Total	P17-40C-292103	NONE	482103.44	1351293	12/4/96				ug/g	10.80	2.19	-	ug/g	
P17-40	R	Uranium, Total	P17-40C-368105	NONE	482105.67	1351369	12/4/96				ug/g	6.30	1.83	-	ug/g	
P17-40	R	Uranium, Total	P17-40C-397115	NONE	482115.22	1351398	12/4/96				ug/g	10.80	2.97	-	ug/g	
P17-40	R	Uranium, Total	P17-40C-398021	NONE	482021.7	1351399	12/4/96				ug/g	7.50	2.10	-	ug/g	
P17-40	R	Uranium, Total	P17-40C-398021-D	NONE	482021.7	1351399	12/4/96				ug/g	8.70	2.49	-	ug/g	P17-40C-398021
P17-40	R	Uranium, Total	P17-40C2-R-1	NONE	481920.06	1351359	3/21/97				ug/g	9.04	2.09	-	ug/g	

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								Laboratory Data				Validation Data				
CU Name	CU Type	Parameter	Sample ID	Suffix	Northing	Easting	Sample Date	Lab Result	TPU	Qualifier	Units	Val. Result	TPU	Qualifier	Units	Duplicate of
P17-40	R	Uranium, Total	P17-40C2-R-3	NONE	482027.6	1350979	3/24/97				ug/g	5.31	2.04	-	ug/g	
P17-40	R	Uranium, Total	P17-40C2-R-3-D	NONE	482027.6	1350979	3/24/97				ug/g	7.26	2.02	-	ug/g	P17-40C2-R-3
P17-40	R	Uranium, Total	P17-40C2-R-4	NONE	482005.62	1351075	3/24/97				ug/g	3.92	1.04	-	ug/g	
P17-40	R	Uranium, Total	P17-40C2-R-5	NONE	482001.85	1351120	3/24/97				ug/g	7.60	3.23	J	ug/g	
P17-40	R	Uranium-238	P17-34C-964146	NONE	482146.5	1350964	12/3/96	1.10	0.60		pCi/g	1.10	0.60	J	pCi/g	
P17-40	R	Uranium-238	P17-34C-972199	NONE	482199.62	1350972	12/3/96	3.00	0.83		pCi/g	3.00	0.83	J	pCi/g	
P17-40	R	Uranium-238	P17-40C-052114	NONE	482114.11	1351052	12/4/96	4.50	1.10		pCi/g	4.50	1.10	-	pCi/g	
P17-40	R	Uranium-238	P17-40C-145113	NONE	482113.38	1351145	12/4/96	4.60	0.94		pCi/g	4.60	0.94	-	pCi/g	
P17-40	R	Uranium-238	P17-40C-281110	NONE	482110.58	1351281	12/4/96	2.80	0.78		pCi/g	2.80	0.78	-	pCi/g	
P17-40	R	Uranium-238	P17-40C-289031	NONE	482031.42	1351289	12/4/96	0.78	0.70		pCi/g	1.20		U	pCi/g	
P17-40	R	Uranium-238	P17-40C-292103	NONE	482103.44	1351293	12/4/96	3.60	0.73		pCi/g	3.60	0.73	-	pCi/g	
P17-40	R	Uranium-238	P17-40C-368105	NONE	482105.67	1351369	12/4/96	2.10	0.61		pCi/g	2.10	0.61	-	pCi/g	
P17-40	R	Uranium-238	P17-40C-397115	NONE	482115.22	1351398	12/4/96	3.60	0.99		pCi/g	3.66	0.99	-	pCi/g	
P17-40	R	Uranium-238	P17-40C-398021	NONE	482021.7	1351399	12/4/96	2.50	0.70		pCi/g	2.50	0.70	-	pCi/g	
P17-40	R	Uranium-238	P17-40C-398021-D	NONE	482021.7	1351399	12/4/96	2.90	0.83		pCi/g	2.90	0.83	-	pCi/g	P17-40C-398021
P17-40	R	Uranium-238	P17-40C2-R-1	NONE	481920.06	1351359	3/21/97	3.00	0.70		pCi/g	3.02	0.70	-	pCi/g	
P17-40	R	Uranium-238	P17-40C2-R-3	NONE	482027.6	1350979	3/24/97	1.80	0.68		pCi/g	1.77	0.68	-	pCi/g	
P17-40	R	Uranium-238	P17-40C2-R-3-D	NONE	482027.6	1350979	3/24/97	2.40	0.67		pCi/g	2.42	0.67	-	pCi/g	P17-40C2-R-3
P17-40	R	Uranium-238	P17-40C2-R-4	NONE	482005.62	1351075	3/24/97	1.30	0.35		pCi/g	1.31	0.35	-	pCi/g	
P17-40	R	Uranium-238	P17-40C2-R-5	NONE	482001.85	1351120	3/24/97	2.50	1.10		pCi/g	2.53	1.08	J	pCi/g	
P18	M	Arsenic	P18-12C-997298	NONE	482298.81	1350998	12/6/96	5.80			mg/kg	5.80		-	mg/kg	
P18	M	Arsenic	P18-32C-989652	NONE	482652	1350989	12/6/96	7.50			mg/kg	7.50		J	mg/kg	
P18	M	Arsenic	P18C-086216	NONE	482216.27	1351086	11/27/96	11.30			mg/kg	11.30		-	mg/kg	
P18	M	Arsenic	P18C-100875	NONE	482875.49	1351101	11/27/96	6.00			mg/kg	6.00		-	mg/kg	
P18	M	Arsenic	P18C-150499	NONE	482499.62	1351151	11/27/96	10.60			mg/kg	10.60		J	mg/kg	
P18	M	Arsenic	P18C-173868	NONE	482868.9	1351174	11/27/96	9.80			mg/kg	9.80		-	mg/kg	
P18	M	Arsenic	P18C-195794	NONE	482794.41	1351196	11/27/96	8.30			mg/kg	8.30		J	mg/kg	
P18	M	Arsenic	P18C-203819	NONE	482819.66	1351204	11/27/96	8.10			mg/kg	8.10		-	mg/kg	
P18	M	Arsenic	P18C-319733	NONE	482733.64	1351320	11/27/96	13.80			mg/kg	13.80		J	mg/kg	
P18	M	Arsenic	P18C-384451	NONE	482451.51	1351385	11/27/96	15.10			mg/kg	15.10		J	mg/kg	
P18	M	Arsenic	P18C-642957	NONE	482957	1350642	3/24/97	6.90			mg/kg	6.90		U	mg/kg	
P18	M	Arsenic	P18C-908837	NONE	482833	1350908	3/24/97	7.50			mg/kg	7.50		-	mg/kg	
P18	M	Beryllium	P18-12C-997298	NONE	482298.81	1350998	12/6/96	0.47		B	mg/kg	0.47		U	mg/kg	
P18	M	Beryllium	P18-32C-989652	NONE	482652	1350989	12/6/96	1.10		B	mg/kg	1.10		U	mg/kg	
P18	M	Beryllium	P18C-086216	NONE	482216.27	1351086	11/27/96	0.98			mg/kg	0.98		U	mg/kg	
P18	M	Beryllium	P18C-100875	NONE	482875.49	1351101	11/27/96	0.50		B	mg/kg	0.50		U	mg/kg	
P18	M	Beryllium	P18C-150499	NONE	482499.62	1351151	11/27/96	1.10			mg/kg	1.10		-	mg/kg	
P18	M	Beryllium	P18C-173868	NONE	482868.9	1351174	11/27/96	0.64			mg/kg	0.64		U	mg/kg	
P18	M	Beryllium	P18C-195794	NONE	482794.41	1351196	11/27/96	0.73			mg/kg	0.73		U	mg/kg	

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								Laboratory Data				Validation Data				
CU Name	CU Type	Parameter	Sample ID	Suffix	Northing	Easting	Sample Date	Lab Result	TPU	Qualifier	Units	Val. Result	TPU	Qualifier	Units	Duplicate of
P18	M	Beryllium	P18C-203819	NONE	482819.66	1351204	11/27/96	0.67			mg/kg	0.67		U	mg/kg	
P18	M	Beryllium	P18C-319733	NONE	482733.64	1351320	11/27/96	0.87			mg/kg	0.87		U	mg/kg	
P18	M	Beryllium	P18C-384451	NONE	482451.51	1351385	11/27/96	1.00			mg/kg	1.00		-	mg/kg	
P18	M	Beryllium	P18C-642957	NONE	482957	1350642	3/24/97	1.10			mg/kg	1.10		-	mg/kg	
P18	M	Beryllium	P18C-908837	NONE	482833	1350908	3/24/97	0.93			mg/kg	0.93		-	mg/kg	
P18	R	Moisture Content	P18-31C-657677	NONE	482677.2	1350657	1/23/97	18.80			Percent	18.80		NV	Percent	
P18	R	Moisture Content	P18-32C-816671	NONE	482671.51	1350817	1/23/97	16.20			Percent	16.20		NV	Percent	
P18	R	Moisture Content	P18C-634755	NONE	482754.59	1350635	12/26/96	31.70			Percent	31.70		NV	Percent	
P18	R	Moisture Content	P18C-661706	NONE	482706.96	1350661	12/30/96	14.72			Percent			NV	Percent	
P18	R	Moisture Content	P18C-670893	NONE	482893.09	1350670	12/26/96	28.80			Percent	28.80		NV	Percent	
P18	R	Moisture Content	P18C-679450	NONE	482450.37	1350680	12/18/96	18.60			Percent	18.60		NV	Percent	
P18	R	Moisture Content	P18C-750800	NONE	482800	1350750	1/16/97	20.90			Percent			NV	Percent	
P18	R	Moisture Content	P18C-758813	NONE	482813.41	1350759	12/26/96	24.40			Percent	24.40		NV	Percent	
P18	R	Moisture Content	P18C-761655	NONE	482655.15	1350762	12/19/96	10.00			Percent	10.00		NV	Percent	
P18	R	Moisture Content	P18C-777911	NONE	482911.48	1350778	12/26/96	21.97			Percent			NV	Percent	
P18	R	Moisture Content	P18C-781429	NONE	482429.12	1350781	12/18/96	11.40			Percent	11.40		NV	Percent	
P18	R	Moisture Content	P18C-826521	NONE	482521.23	1350827	12/18/96	20.40			Percent	20.40		NV	Percent	
P18	R	Moisture Content	P18C-830830	NONE	482830.21	1350830	12/26/96	21.74			Percent			NV	Percent	
P18	R	Moisture Content	P18C-884947	NONE	482947.01	1350884	12/26/96	18.41			Percent			NV	Percent	
P18	R	Moisture Content	P18C-987945	NONE	482945.09	1350987	12/26/96	23.10			Percent	23.10		NV	Percent	
P18	R	Radium-226	P18-31C-657677	NONE	482677.2	1350657	1/23/97	0.90	0.31		pCi/g	0.90	0.31	-	pCi/g	
P18	R	Radium-226	P18-32C-816671	NONE	482671.51	1350817	1/23/97	1.04	0.35		pCi/g	1.04	0.35	-	pCi/g	
P18	R	Radium-226	P18C-634755	NONE	482754.59	1350635	12/26/96	1.20	0.16		pCi/g	1.20	0.16	J	pCi/g	
P18	R	Radium-226	P18C-661706	NONE	482706.96	1350661	12/30/96	1.00	0.15		pCi/g	1.00	0.15	-	pCi/g	
P18	R	Radium-226	P18C-670893	NONE	482893.09	1350670	12/26/96	1.00	0.12		pCi/g	1.00	0.12	J	pCi/g	
P18	R	Radium-226	P18C-679450	NONE	482450.37	1350680	12/18/96	1.10	0.16		pCi/g	1.10	0.16	-	pCi/g	
P18	R	Radium-226	P18C-750800	NONE	482800	1350750	1/16/97	1.20	0.22		pCi/g	1.18	0.22	-	pCi/g	
P18	R	Radium-226	P18C-758813	NONE	482813.41	1350759	12/26/96	1.60	0.17		pCi/g	1.60	0.17	J	pCi/g	
P18	R	Radium-226	P18C-761655	NONE	482655.15	1350762	12/19/96	1.20	0.15		pCi/g	1.20	0.15	-	pCi/g	
P18	R	Radium-226	P18C-777911	NONE	482911.48	1350778	12/26/96	1.10	0.15		pCi/g	1.09	0.15	-	pCi/g	
P18	R	Radium-226	P18C-781429	NONE	482429.12	1350781	12/18/96	0.91	0.15		pCi/g	0.91	0.15	-	pCi/g	
P18	R	Radium-226	P18C-826521	NONE	482521.23	1350827	12/18/96	1.40	0.14		pCi/g	1.40	0.14	-	pCi/g	
P18	R	Radium-226	P18C-830830	NONE	482830.21	1350830	12/26/96	1.00	0.17		pCi/g	1.04	0.17	-	pCi/g	
P18	R	Radium-226	P18C-884947	NONE	482947.01	1350884	12/26/96	0.95	0.14		pCi/g	0.95	0.14	-	pCi/g	
P18	R	Radium-226	P18C-987945	NONE	482945.09	1350987	12/26/96	1.10	0.14		pCi/g	1.10	0.14	J	pCi/g	
P18	R	Radium-228	P18-31C-657677	NONE	482677.2	1350657	1/23/97	1.13	0.71		pCi/g	1.13	0.71	J	pCi/g	
P18	R	Radium-228	P18-32C-816671	NONE	482671.51	1350817	1/23/97	1.97	0.76		pCi/g	1.97	0.76	-	pCi/g	
P18	R	Radium-228	P18C-634755	NONE	482754.59	1350635	12/26/96	1.20	0.33		pCi/g	1.20	0.33	-	pCi/g	
P18	R	Radium-228	P18C-661706	NONE	482706.96	1350661	12/30/96	1.20	0.23		pCi/g	1.20	0.23	-	pCi/g	
P18	R	Radium-228	P18C-670893	NONE	482893.09	1350670	12/26/96	1.10	0.33		pCi/g	1.10	0.33	-	pCi/g	

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A1P1 CERTIFICATION REPORT - APPENDIX B

								Laboratory Data				Validation Data				
CU Name	CU Type	Parameter	Sample ID	Suffix	Northing	Easting	Sample Date	Lab Result	TPU	Qualifier	Units	Val. Result	TPU	Qualifier	Units	Duplicate of
P18	R	Radium-228	P18C-679450	NONE	482450.37	1350680	12/18/96	0.97	0.29		pCi/g	0.97	0.29	-	pCi/g	
P18	R	Radium-228	P18C-750800	NONE	482800	1350750	1/16/97	1.30	0.24		pCi/g	1.27	0.24	-	pCi/g	
P18	R	Radium-228	P18C-758813	NONE	482813.41	1350759	12/26/96	1.20	0.33		pCi/g	1.20	0.33	-	pCi/g	
P18	R	Radium-228	P18C-761655	NONE	482655.15	1350762	12/19/96	0.94	0.32		pCi/g	0.94	0.32	-	pCi/g	
P18	R	Radium-228	P18C-777911	NONE	482911.48	1350778	12/26/96	1.10	0.23		pCi/g	1.09	0.23	-	pCi/g	
P18	R	Radium-228	P18C-781429	NONE	482429.12	1350781	12/18/96	0.74	0.26		pCi/g	0.74	0.26	-	pCi/g	
P18	R	Radium-228	P18C-826521	NONE	482521.23	1350827	12/18/96	1.30	0.35		pCi/g	1.30	0.35	-	pCi/g	
P18	R	Radium-228	P18C-830830	NONE	482830.21	1350830	12/26/96	1.20	0.27		pCi/g	1.15	0.27	-	pCi/g	
P18	R	Radium-228	P18C-884947	NONE	482947.01	1350884	12/26/96	1.20	0.21		pCi/g	1.21	0.21	-	pCi/g	
P18	R	Radium-228	P18C-987945	NONE	482945.09	1350987	12/26/96	0.99	0.28		pCi/g	0.99	0.28	-	pCi/g	
P18	R	Thorium-228	P18-31C-657677	NONE	482677.2	1350657	1/23/97	1.10	0.09		pCi/g	1.10	0.09	-	pCi/g	
P18	R	Thorium-228	P18-32C-816671	NONE	482671.51	1350817	1/23/97	1.11	0.09		pCi/g	1.11	0.09	-	pCi/g	
P18	R	Thorium-228	P18C-634755	NONE	482754.59	1350635	12/26/96	1.30	0.51		pCi/g	1.30	0.51	-	pCi/g	
P18	R	Thorium-228	P18C-661706	NONE	482706.96	1350661	12/30/96	1.20	0.28		pCi/g	1.27	0.27	-	pCi/g	
P18	R	Thorium-228	P18C-670893	NONE	482893.09	1350670	12/26/96	1.30	0.51		pCi/g	1.30	0.51	-	pCi/g	
P18	R	Thorium-228	P18C-679450	NONE	482450.37	1350680	12/18/96	1.30	0.48		pCi/g	1.30	0.48	-	pCi/g	
P18	R	Thorium-228	P18C-750800	NONE	482800	1350750	1/16/97	1.50	0.34		pCi/g	1.59	0.33	-	pCi/g	
P18	R	Thorium-228	P18C-758813	NONE	482813.41	1350759	12/26/96	1.30	0.53		pCi/g	1.30	0.53	-	pCi/g	
P18	R	Thorium-228	P18C-761655	NONE	482655.15	1350762	12/19/96	1.10	0.47		pCi/g	1.10	0.47	-	pCi/g	
P18	R	Thorium-228	P18C-777911	NONE	482911.48	1350778	12/26/96	1.40	0.32		pCi/g	1.45	0.31	-	pCi/g	
P18	R	Thorium-228	P18C-781429	NONE	482429.12	1350781	12/18/96	0.59	0.25		pCi/g	0.59	0.25	-	pCi/g	
P18	R	Thorium-228	P18C-826521	NONE	482521.23	1350827	12/18/96	1.30	0.48		pCi/g	1.30	0.48	-	pCi/g	
P18	R	Thorium-228	P18C-830830	NONE	482830.21	1350830	12/26/96	1.30	0.31		pCi/g	1.30	0.30	-	pCi/g	
P18	R	Thorium-228	P18C-884947	NONE	482947.01	1350884	12/26/96	1.60	0.36		pCi/g	1.66	0.35	Z	pCi/g	
P18	R	Thorium-228	P18C-884947	RE	482947.01	1350884	12/26/96	1.10	0.23		pCi/g	1.12	0.22	-	pCi/g	
P18	R	Thorium-228	P18C-987945	NONE	482945.09	1350987	12/26/96	0.13	0.03		pCi/g	1.20	0.47	J	pCi/g	
P18	R	Thorium-232	P18-31C-657677	NONE	482677.2	1350657	1/23/97	1.12	0.09		pCi/g	1.12	0.09	-	pCi/g	
P18	R	Thorium-232	P18-32C-816671	NONE	482671.51	1350817	1/23/97	1.00	0.08		pCi/g	1.00	0.08	-	pCi/g	
P18	R	Thorium-232	P18C-634755	NONE	482754.59	1350635	12/26/96	1.30	0.50		pCi/g	1.30	0.50	-	pCi/g	
P18	R	Thorium-232	P18C-661706	NONE	482706.96	1350661	12/30/96	0.99	0.21		pCi/g	0.99	0.21	-	pCi/g	
P18	R	Thorium-232	P18C-670893	NONE	482893.09	1350670	12/26/96	1.10	0.43		pCi/g	1.10	0.43	-	pCi/g	
P18	R	Thorium-232	P18C-679450	NONE	482450.37	1350680	12/18/96	1.20	0.44		pCi/g	1.20	0.44	-	pCi/g	
P18	R	Thorium-232	P18C-750800	NONE	482800	1350750	1/16/97	1.20	0.25		pCi/g	1.21	0.25	-	pCi/g	
P18	R	Thorium-232	P18C-758813	NONE	482813.41	1350759	12/26/96	1.40	0.55		pCi/g	1.40	0.55	-	pCi/g	
P18	R	Thorium-232	P18C-761655	NONE	482655.15	1350762	12/19/96	1.10	0.45		pCi/g	1.10	0.45	-	pCi/g	
P18	R	Thorium-232	P18C-777911	NONE	482911.48	1350778	12/26/96	1.20	0.25		pCi/g	1.20	0.25	-	pCi/g	
P18	R	Thorium-232	P18C-781429	NONE	482429.12	1350781	12/18/96	0.80	0.31		pCi/g	0.80	0.31	-	pCi/g	
P18	R	Thorium-232	P18C-826521	NONE	482521.23	1350827	12/18/96	1.40	0.47		pCi/g	1.40	0.47	-	pCi/g	
P18	R	Thorium-232	P18C-830830	NONE	482830.21	1350830	12/26/96	0.99	0.23		pCi/g	0.99	0.23	-	pCi/g	
P18	R	Thorium-232	P18C-884947	NONE	482947.01	1350884	12/26/96	1.30	0.28		pCi/g	1.34	0.28	Z	pCi/g	

								Laboratory Data				Validation Data				
CU Name	CU Type	Parameter	Sample ID	Suffix	Northing	Easting	Sample Date	Lab Result	TPU	Qualifier	Units	Val. Result	TPU	Qualifier	Units	Duplicate of
P18	R	Thorium-232	P18C-884947	RE	482947.01	1350884	12/26/96	1.00	0.20		pCi/g	1.02	0.20	-	pCi/g	
P18	R	Thorium-232	P18C-987945	NONE	482945.09	1350987	12/26/96	1.10	0.40		pCi/g	1.10	0.40	-	pCi/g	
P18	R	Uranium, Total	P18-31C-657677	NONE	482677.2	1350657	1/23/97				ug/g	12.59		U	ug/g	
P18	R	Uranium, Total	P18-32C-816671	NONE	482671.51	1350817	1/23/97				ug/g	15.89		U	ug/g	
P18	R	Uranium, Total	P18C-634755	NONE	482754.59	1350635	12/26/96				ug/g	29.69	3.90	-	ug/g	
P18	R	Uranium, Total	P18C-661706	NONE	482706.96	1350661	12/30/96				ug/g	24.72	6.20	-	ug/g	
P18	R	Uranium, Total	P18C-670893	NONE	482893.09	1350670	12/26/96				ug/g	18.59	2.58	-	ug/g	
P18	R	Uranium, Total	P18C-679450	NONE	482450.37	1350680	12/18/96				ug/g	3.90	1.38	-	ug/g	
P18	R	Uranium, Total	P18C-750800	NONE	482800	1350750	1/16/97				ug/g	38.92	9.05	-	ug/g	
P18	R	Uranium, Total	P18C-758813	NONE	482813.41	1350759	12/26/96				ug/g	29.99	5.10	-	ug/g	
P18	R	Uranium, Total	P18C-761655	NONE	482655.15	1350762	12/19/96				ug/g	9.30	3.60	J	ug/g	
P18	R	Uranium, Total	P18C-777911	NONE	482911.48	1350778	12/26/96				ug/g	21.97	5.89	-	ug/g	
P18	R	Uranium, Total	P18C-781429	NONE	482429.12	1350781	12/18/96				ug/g	2.85		U	ug/g	
P18	R	Uranium, Total	P18C-826521	NONE	482521.23	1350827	12/18/96				ug/g	5.10	2.04	-	ug/g	
P18	R	Uranium, Total	P18C-830830	NONE	482830.21	1350830	12/26/96				ug/g	27.09	7.00	-	ug/g	
P18	R	Uranium, Total	P18C-884947	NONE	482947.01	1350884	12/26/96				ug/g	20.47	4.45	-	ug/g	
P18	R	Uranium, Total	P18C-987945	NONE	482945.09	1350987	12/26/96				ug/g	20.69	3.60	-	ug/g	
P18	R	Uranium-238	P18-31C-657677	NONE	482677.2	1350657	1/23/97	3.86	2.80	U	pCi/g	4.20		U	pCi/g	
P18	R	Uranium-238	P18-32C-816671	NONE	482671.51	1350817	1/23/97	4.95	3.50	U	pCi/g	5.30		U	pCi/g	
P18	R	Uranium-238	P18C-634755	NONE	482754.59	1350635	12/26/96	9.90	1.30		pCi/g	9.90	1.30	-	pCi/g	
P18	R	Uranium-238	P18C-661706	NONE	482706.96	1350661	12/30/96	8.20	2.10		pCi/g	8.24	2.07	-	pCi/g	
P18	R	Uranium-238	P18C-670893	NONE	482893.09	1350670	12/26/96	6.20	0.86		pCi/g	6.20	0.86	-	pCi/g	
P18	R	Uranium-238	P18C-679450	NONE	482450.37	1350680	12/18/96	1.30	0.46		pCi/g	1.30	0.46	-	pCi/g	
P18	R	Uranium-238	P18C-750800	NONE	482800	1350750	1/16/97	13.00	3.00		pCi/g	12.98	3.02	-	pCi/g	
P18	R	Uranium-238	P18C-758813	NONE	482813.41	1350759	12/26/96	10.00	1.70		pCi/g	10.00	1.70	-	pCi/g	
P18	R	Uranium-238	P18C-761655	NONE	482655.15	1350762	12/19/96	3.10	1.20		pCi/g	3.10	1.20	J	pCi/g	
P18	R	Uranium-238	P18C-777911	NONE	482911.48	1350778	12/26/96	7.30	2.00		pCi/g	7.33	1.96	-	pCi/g	
P18	R	Uranium-238	P18C-781429	NONE	482429.12	1350781	12/18/96	0.61	0.57	U	pCi/g	0.95		U	pCi/g	
P18	R	Uranium-238	P18C-826521	NONE	482521.23	1350827	12/18/96	1.70	0.68		pCi/g	1.70	0.68	-	pCi/g	
P18	R	Uranium-238	P18C-830830	NONE	482830.21	1350830	12/26/96	9.00	2.30		pCi/g	9.04	2.33	-	pCi/g	
P18	R	Uranium-238	P18C-884947	NONE	482947.01	1350884	12/26/96	6.80	1.50		pCi/g	6.83	1.48	-	pCi/g	
P18	R	Uranium-238	P18C-987945	NONE	482945.09	1350987	12/26/96	6.90	1.20		pCi/g	6.90	1.20	-	pCi/g	
P18-11	M	Aroclor-1260	P18-11C-621373	NONE	482373.17	1350622	12/17/96	47.00		U	ug/kg	47.00		UJ	ug/kg	
P18-11	M	Aroclor-1260	P18-11C-635269	NONE	482269.59	1350636	12/17/96	47.00		U	ug/kg	47.00		UJ	ug/kg	
P18-11	M	Aroclor-1260	P18-11C-649316	NONE	482316.17	1350649	12/18/96	45.00		U	ug/kg	45.00		UJ	ug/kg	
P18-11	M	Aroclor-1260	P18-11C-678297	NONE	482297.19	1350678	12/17/96	47.00		U	ug/kg	47.00		UJ	ug/kg	
P18-11	M	Aroclor-1260	P18-11C-679332	NONE	482332.77	1350679	12/17/96	45.00		U	ug/kg	45.00		UJ	ug/kg	
P18-11	M	Aroclor-1260	P18-11C-685205	NONE	482205.16	1350686	12/17/96	50.00		U	ug/kg	50.00		UJ	ug/kg	
P18-11	M	Aroclor-1260	P18-11C-720358	NONE	482358.35	1350721	12/18/96	47.00		U	ug/kg	47.00		UJ	ug/kg	

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								Laboratory Data				Validation Data				
CU Name	CU Type	Parameter	Sample ID	Suffix	Northing	Easting	Sample Date	Lab Result	TPU	Qualifier	Units	Val. Result	TPU	Qualifier	Units	Duplicate of
P18-11	M	Aroclor-1260	P18-11C-745247	NONE	482247.17	1350746	12/17/96	47.00		U	ug/kg	47.00		UJ	ug/kg	
P18-11	M	Aroclor-1260	P18-11C-792394	NONE	482394.6	1350793	12/17/96	46.00		U	ug/kg	46.00		UJ	ug/kg	
P18-11	M	Arsenic	P18-11C-621373	NONE	482373.17	1350622	12/17/96	5.40			mg/kg	5.40		J	mg/kg	
P18-11	M	Arsenic	P18-11C-635269	NONE	482269.59	1350636	12/17/96	11.20			mg/kg	11.20		J	mg/kg	
P18-11	M	Arsenic	P18-11C-649316	NONE	482316.17	1350649	12/18/96	11.70			mg/kg	11.70		J	mg/kg	
P18-11	M	Arsenic	P18-11C-678297	NONE	482297.19	1350678	12/17/96	8.90			mg/kg	8.90		-	mg/kg	
P18-11	M	Arsenic	P18-11C-679332	NONE	482332.77	1350679	12/17/96	5.00			mg/kg	5.00		J	mg/kg	
P18-11	M	Arsenic	P18-11C-685205	NONE	482205.16	1350686	12/17/96	12.30			mg/kg	12.30		J	mg/kg	
P18-11	M	Arsenic	P18-11C-720358	NONE	482358.35	1350721	12/18/96	7.40			mg/kg	7.40		J	mg/kg	
P18-11	M	Arsenic	P18-11C-745247	NONE	482247.17	1350746	12/17/96	6.10			mg/kg	6.10		J	mg/kg	
P18-11	M	Arsenic	P18-11C-792394	NONE	482394.6	1350793	12/17/96	6.00			mg/kg	6.00		J	mg/kg	
P18-11	M	Beryllium	P18-11C-621373	NONE	482373.17	1350622	12/17/96	0.41		B	mg/kg	0.41		U	mg/kg	
P18-11	M	Beryllium	P18-11C-635269	NONE	482269.59	1350636	12/17/96	0.79			mg/kg	0.79		U	mg/kg	
P18-11	M	Beryllium	P18-11C-649316	NONE	482316.17	1350649	12/18/96	0.47		B	mg/kg	0.47		U	mg/kg	
P18-11	M	Beryllium	P18-11C-678297	NONE	482297.19	1350678	12/17/96	0.64			mg/kg	0.64		U	mg/kg	
P18-11	M	Beryllium	P18-11C-679332	NONE	482332.77	1350679	12/17/96	0.44		B	mg/kg	0.44		U	mg/kg	
P18-11	M	Beryllium	P18-11C-685205	NONE	482205.16	1350686	12/17/96	0.79			mg/kg	0.79		U	mg/kg	
P18-11	M	Beryllium	P18-11C-720358	NONE	482358.35	1350721	12/18/96	0.53		B	mg/kg	0.53		U	mg/kg	
P18-11	M	Beryllium	P18-11C-745247	NONE	482247.17	1350746	12/17/96	0.37		B	mg/kg	0.37		U	mg/kg	
P18-11	M	Beryllium	P18-11C-792394	NONE	482394.6	1350793	12/17/96	0.59			mg/kg	0.59		U	mg/kg	
P18-11	R	Moisture Content	P18-11C-608400	NONE	482400.63	1350609	12/17/96	12.90			Percent	12.90		NV	Percent	
P18-11	R	Moisture Content	P18-11C-627216	NONE	482216.32	1350628	12/17/96	18.10			Percent	18.10		NV	Percent	
P18-11	R	Moisture Content	P18-11C-696228	NONE	482228.27	1350697	12/17/96	11.90			Percent	11.90		NV	Percent	
P18-11	R	Moisture Content	P18-11C-711283	NONE	482283.57	1350711	12/17/96	20.40			Percent	20.40		NV	Percent	
P18-11	R	Moisture Content	P18-11C-712210	NONE	482210.5	1350712	12/17/96	17.60			Percent	17.60		NV	Percent	
P18-11	R	Moisture Content	P18-11C-712303	NONE	482303.24	1350713	12/17/96	13.40			Percent	13.40		NV	Percent	
P18-11	R	Moisture Content	P18-11C-721375	NONE	482375.25	1350722	12/17/96	15.10			Percent	15.10		NV	Percent	
P18-11	R	Moisture Content	P18-11C-760289	NONE	482289.38	1350760	12/17/96	13.80			Percent	13.80		NV	Percent	
P18-11	R	Moisture Content	P18-11C-783383	NONE	482383	1350783	12/17/96	16.40			Percent	16.40		NV	Percent	
P18-11	R	Moisture Content	P18-11C-789320	NONE	482320.67	1350798	12/17/96	13.80			Percent	13.80		NV	Percent	
P18-11	R	Moisture Content	P18-11C-798245	NONE	482245.53	1350799	12/17/96	13.00			Percent	13.00		NV	Percent	
P18-11	R	Moisture Content	P18-11C2-1-R	NONE	482356.4	1350662	3/11/97	13.90			Percent			NV	Percent	
P18-11	R	Radium-226	P18-11C-608400	NONE	482400.63	1350609	12/17/96	0.76	0.11		pCi/g	0.76	0.11	-	pCi/g	
P18-11	R	Radium-226	P18-11C-627216	NONE	482216.32	1350628	12/17/96	0.85	0.12		pCi/g	0.85	0.12	-	pCi/g	
P18-11	R	Radium-226	P18-11C-696228	NONE	482228.27	1350697	12/17/96	0.85	0.14		pCi/g	0.85	0.14	-	pCi/g	
P18-11	R	Radium-226	P18-11C-711283	NONE	482283.57	1350711	12/17/96	1.00	0.16		pCi/g	1.00	0.16	-	pCi/g	
P18-11	R	Radium-226	P18-11C-712210	NONE	482210.5	1350712	12/17/96	0.99	0.16		pCi/g	0.99	0.16	-	pCi/g	
P18-11	R	Radium-226	P18-11C-712303	NONE	482303.24	1350713	12/17/96	0.91	0.14		pCi/g	0.91	0.14	-	pCi/g	
P18-11	R	Radium-226	P18-11C-721375	NONE	482375.25	1350722	12/17/96	1.20	0.16		pCi/g	1.20	0.16	-	pCi/g	
P18-11	R	Radium-226	P18-11C-760289	NONE	482289.38	1350760	12/17/96	0.85	0.11		pCi/g	0.85	0.11	-	pCi/g	

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								Laboratory Data				Validation Data				
CU Name	CU Type	Parameter	Sample ID	Suffix	Northing	Easting	Sample Date	Lab Result	TPU	Qualifier	Units	Val. Result	TPU	Qualifier	Units	Duplicate of
P18-11	R	Radium-226	P18-11C-783383	NONE	482383	1350783	12/17/96	1.40	0.17		pCi/g	1.40	0.17	-	pCi/g	
P18-11	R	Radium-226	P18-11C-789320	NONE	482320.67	1350798	12/17/96	1.00	0.16		pCi/g	1.00	0.16	-	pCi/g	
P18-11	R	Radium-226	P18-11C-798245	NONE	482245.53	1350799	12/17/96	0.88	0.16		pCi/g	0.88	0.16	-	pCi/g	
P18-11	R	Radium-226	P18-11C2-1-R	NONE	482356.4	1350662	3/11/97	1.10	0.14		pCi/g	1.10	0.14	-	pCi/g	
P18-11	R	Radium-228	P18-11C-608400	NONE	482400.63	1350609	12/17/96	0.65	0.20		pCi/g	0.65	0.20	-	pCi/g	
P18-11	R	Radium-228	P18-11C-627216	NONE	482216.32	1350628	12/17/96	0.75	0.22		pCi/g	0.75	0.22	-	pCi/g	
P18-11	R	Radium-228	P18-11C-696228	NONE	482228.27	1350697	12/17/96	0.93	0.29		pCi/g	0.93	0.29	-	pCi/g	
P18-11	R	Radium-228	P18-11C-711283	NONE	482283.57	1350711	12/17/96	1.20	0.35		pCi/g	1.20	0.35	-	pCi/g	
P18-11	R	Radium-228	P18-11C-712210	NONE	482210.5	1350712	12/17/96	0.91	0.26		pCi/g	0.91	0.26	-	pCi/g	
P18-11	R	Radium-228	P18-11C-712303	NONE	482303.24	1350713	12/17/96	1.00	0.29		pCi/g	1.00	0.29	-	pCi/g	
P18-11	R	Radium-228	P18-11C-721375	NONE	482375.25	1350722	12/17/96	0.99	0.28		pCi/g	0.99	0.28	-	pCi/g	
P18-11	R	Radium-228	P18-11C-760289	NONE	482289.38	1350760	12/17/96	0.52	0.38		pCi/g	1.00	0.26	-	pCi/g	
P18-11	R	Radium-228	P18-11C-783383	NONE	482383	1350783	12/17/96	1.10	0.33		pCi/g	1.10	0.33	-	pCi/g	
P18-11	R	Radium-228	P18-11C-789320	NONE	482320.67	1350798	12/17/96	0.99	0.32		pCi/g	0.99	0.32	-	pCi/g	
P18-11	R	Radium-228	P18-11C-798245	NONE	482245.53	1350799	12/17/96	1.10	0.32		pCi/g	1.10	0.32	-	pCi/g	
P18-11	R	Radium-228	P18-11C2-1-R	NONE	482356.4	1350662	3/11/97	1.10	0.30		pCi/g	1.10	0.30	-	pCi/g	
P18-11	R	Thorium-228	P18-11C-608400	NONE	482400.63	1350609	12/17/96	0.79	0.31		pCi/g	0.79	0.31	J	pCi/g	
P18-11	R	Thorium-228	P18-11C-627216	NONE	482216.32	1350628	12/17/96	0.79	0.35		pCi/g	0.79	0.35	J	pCi/g	
P18-11	R	Thorium-228	P18-11C-696228	NONE	482228.27	1350697	12/17/96	0.77	0.37		pCi/g	0.77	0.37	J	pCi/g	
P18-11	R	Thorium-228	P18-11C-711283	NONE	482283.57	1350711	12/17/96	1.20	0.47		pCi/g	1.20	0.47	J	pCi/g	
P18-11	R	Thorium-228	P18-11C-712210	NONE	482210.5	1350712	12/17/96	0.98	0.42		pCi/g	0.98	0.42	J	pCi/g	
P18-11	R	Thorium-228	P18-11C-712303	NONE	482303.24	1350713	12/17/96	0.97	0.34		pCi/g	0.97	0.34	J	pCi/g	
P18-11	R	Thorium-228	P18-11C-721375	NONE	482375.25	1350722	12/17/96	0.77	0.35		pCi/g	0.77	0.35	J	pCi/g	
P18-11	R	Thorium-228	P18-11C-760289	NONE	482289.38	1350760	12/17/96	1.60	0.62		pCi/g	1.60	0.62	J	pCi/g	
P18-11	R	Thorium-228	P18-11C-783383	NONE	482383	1350783	12/17/96	1.00	0.45		pCi/g	1.00	0.45	J	pCi/g	
P18-11	R	Thorium-228	P18-11C-789320	NONE	482320.67	1350798	12/17/96	0.89	0.34		pCi/g	0.89	0.34	J	pCi/g	
P18-11	R	Thorium-228	P18-11C-798245	NONE	482245.53	1350799	12/17/96	0.79	0.32		pCi/g	0.79	0.32	J	pCi/g	
P18-11	R	Thorium-228	P18-11C2-1-R	NONE	482356.4	1350662	3/11/97	1.10	0.47		pCi/g	1.10	0.47	-	pCi/g	
P18-11	R	Thorium-232	P18-11C-608400	NONE	482400.63	1350609	12/17/96	0.68	0.26		pCi/g	0.68	0.26	J	pCi/g	
P18-11	R	Thorium-232	P18-11C-627216	NONE	482216.32	1350628	12/17/96	0.99	0.42		pCi/g	0.99	0.42	J	pCi/g	
P18-11	R	Thorium-232	P18-11C-696228	NONE	482228.27	1350697	12/17/96	0.75	0.34		pCi/g	0.75	0.34	J	pCi/g	
P18-11	R	Thorium-232	P18-11C-711283	NONE	482283.57	1350711	12/17/96	1.20	0.47		pCi/g	1.20	0.47	J	pCi/g	
P18-11	R	Thorium-232	P18-11C-712210	NONE	482210.5	1350712	12/17/96	0.99	0.41		pCi/g	0.99	0.41	J	pCi/g	
P18-11	R	Thorium-232	P18-11C-712303	NONE	482303.24	1350713	12/17/96	0.99	0.34		pCi/g	0.99	0.34	J	pCi/g	
P18-11	R	Thorium-232	P18-11C-721375	NONE	482375.25	1350722	12/17/96	0.86	0.38		pCi/g	0.86	0.38	J	pCi/g	
P18-11	R	Thorium-232	P18-11C-760289	NONE	482289.38	1350760	12/17/96	1.40	0.52		pCi/g	1.40	0.52	J	pCi/g	
P18-11	R	Thorium-232	P18-11C-783383	NONE	482383	1350783	12/17/96	1.10	0.44		pCi/g	1.10	0.44	J	pCi/g	
P18-11	R	Thorium-232	P18-11C-789320	NONE	482320.67	1350798	12/17/96	0.88	0.32		pCi/g	0.88	0.32	J	pCi/g	
P18-11	R	Thorium-232	P18-11C-798245	NONE	482245.53	1350799	12/17/96	0.73	0.28		pCi/g	0.73	0.28	J	pCi/g	
P18-11	R	Thorium-232	P18-11C2-1-R	NONE	482356.4	1350662	3/11/97	0.89	0.37		pCi/g	0.89	0.37	-	pCi/g	

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								Laboratory Data				Validation Data				
CU Name	CU Type	Parameter	Sample ID	Suffix	Northing	Easting	Sample Date	Lab Result	TPU	Qualifier	Units	Val. Result	TPU	Qualifier	Units	Duplicate of
P18-11	R	Uranium, Total	P18-11C-608400	NONE	482400.63	1350609	12/17/96				ug/g	2.43		U	ug/g	
P18-11	R	Uranium, Total	P18-11C-627216	NONE	482216.32	1350628	12/17/96				ug/g	9.00	1.92	-	ug/g	
P18-11	R	Uranium, Total	P18-11C-696228	NONE	482228.27	1350697	12/17/96				ug/g	4.20	1.92	-	ug/g	
P18-11	R	Uranium, Total	P18-11C-711283	NONE	482283.57	1350711	12/17/96				ug/g	18.59	3.00	-	ug/g	
P18-11	R	Uranium, Total	P18-11C-712210	NONE	482210.5	1350712	12/17/96				ug/g	12.29	2.64	-	ug/g	
P18-11	R	Uranium, Total	P18-11C-712303	NONE	482303.24	1350713	12/17/96				ug/g	6.60	1.80	-	ug/g	
P18-11	R	Uranium, Total	P18-11C-721375	NONE	482375.25	1350722	12/17/96				ug/g	2.70		U	ug/g	
P18-11	R	Uranium, Total	P18-11C-760289	NONE	482289.38	1350760	12/17/96				ug/g	9.90	2.37	-	ug/g	
P18-11	R	Uranium, Total	P18-11C-783383	NONE	482383	1350783	12/17/96				ug/g	7.50	2.67	-	ug/g	
P18-11	R	Uranium, Total	P18-11C-789320	NONE	482320.67	1350798	12/17/96				ug/g	2.88		U	ug/g	
P18-11	R	Uranium, Total	P18-11C-798245	NONE	482245.53	1350799	12/17/96				ug/g	5.10	2.37	-	ug/g	
P18-11	R	Uranium, Total	P18-11C2-1-R	NONE	482356.4	1350662	3/11/97				ug/g	3.30	1.98	J	ug/g	
P18-11	R	Uranium-238	P18-11C-608400	NONE	482400.63	1350609	12/17/96	0.69	0.49	U	pCi/g	0.81		U	pCi/g	
P18-11	R	Uranium-238	P18-11C-627216	NONE	482216.32	1350628	12/17/96	3.00	0.64		pCi/g	3.00	0.64	-	pCi/g	
P18-11	R	Uranium-238	P18-11C-696228	NONE	482228.27	1350697	12/17/96	1.40	0.64		pCi/g	1.40	0.64	-	pCi/g	
P18-11	R	Uranium-238	P18-11C-711283	NONE	482283.57	1350711	12/17/96	6.20	1.00		pCi/g	6.20	1.00	-	pCi/g	
P18-11	R	Uranium-238	P18-11C-712210	NONE	482210.5	1350712	12/17/96	4.10	0.88		pCi/g	4.10	0.88	-	pCi/g	
P18-11	R	Uranium-238	P18-11C-712303	NONE	482303.24	1350713	12/17/96	2.20	0.60		pCi/g	2.20	0.60	-	pCi/g	
P18-11	R	Uranium-238	P18-11C-721375	NONE	482375.25	1350722	12/17/96	0.39	0.54	U	pCi/g	0.90		U	pCi/g	
P18-11	R	Uranium-238	P18-11C-760289	NONE	482289.38	1350760	12/17/96	3.30	0.79		pCi/g	3.30	0.79	-	pCi/g	
P18-11	R	Uranium-238	P18-11C-783383	NONE	482383	1350783	12/17/96	2.50	0.89		pCi/g	2.50	0.89	-	pCi/g	
P18-11	R	Uranium-238	P18-11C-789320	NONE	482320.67	1350798	12/17/96	0.79	0.58	U	pCi/g	0.96		U	pCi/g	
P18-11	R	Uranium-238	P18-11C-798245	NONE	482245.53	1350799	12/17/96	1.70	0.79		pCi/g	1.70	0.79	-	pCi/g	
P18-11	R	Uranium-238	P18-11C2-1-R	NONE	482356.4	1350662	3/11/97	1.10	0.66	U	pCi/g	1.10	0.66	J	pCi/g	
P18-12	M	Arsenic	P17-34C-824051	NONE	482051.85	1350824	12/30/96	6.90		•	mg/kg	6.90		-	mg/kg	
P18-12	M	Arsenic	P17-34C-824125	NONE	482125.34	1350824	12/30/96	7.70			mg/kg	7.70		-	mg/kg	
P18-12	M	Arsenic	P17-34C-831178	NONE	482178.81	1350832	12/26/96	6.30		•	mg/kg	6.30		J	mg/kg	
P18-12	M	Arsenic	P17-34C-856128	NONE	482128.28	1350856	12/30/96	16.60		•	mg/kg	16.60		J	mg/kg	
P18-12	M	Arsenic	P17-34C-873163	NONE	482163.58	1350874	12/30/96	14.40		•	mg/kg	14.40		J	mg/kg	
P18-12	M	Arsenic	P17-34C-877017	NONE	482017.59	1350878	12/19/96	10.40			mg/kg	10.40		-	mg/kg	
P18-12	M	Arsenic	P18-12C-801388	NONE	482388.18	1350802	12/26/96	4.90		•	mg/kg	4.90		J	mg/kg	
P18-12	M	Arsenic	P18-12C-854372	NONE	482372.29	1350855	12/26/96	12.90		•	mg/kg	12.90		J	mg/kg	
P18-12	M	Arsenic	P18-12C-873323	NONE	482323.4	1350874	12/26/96	11.30		•	mg/kg	11.30		J	mg/kg	
P18-12	M	Arsenic	P18-12C-891258	NONE	482258.64	1350892	12/26/96	6.30		•	mg/kg	6.30		-	mg/kg	
P18-12	M	Beryllium	P17-34C-824051	NONE	482051.85	1350824	12/30/96	0.59			mg/kg	0.59		U	mg/kg	
P18-12	M	Beryllium	P17-34C-824125	NONE	482125.34	1350824	12/30/96	0.73			mg/kg	0.73		U	mg/kg	
P18-12	M	Beryllium	P17-34C-831178	NONE	482178.81	1350832	12/26/96	0.51		B	mg/kg	0.51		U	mg/kg	
P18-12	M	Beryllium	P17-34C-856128	NONE	482128.28	1350856	12/30/96	1.20			mg/kg	1.20		U	mg/kg	
P18-12	M	Beryllium	P17-34C-873163	NONE	482163.58	1350874	12/30/96	2.00			mg/kg	2.00		-	mg/kg	

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								Laboratory Data				Validation Data				
CU Name	CU Type	Parameter	Sample ID	Suffix	Northing	Easting	Sample Date	Lab Result	TPU	Qualifier	Units	Val. Result	TPU	Qualifier	Units	Duplicate of
P18-12	M	Beryllium	P17-34C-877017	NONE	482017.59	1350878	12/19/96	0.45		B	mg/kg	0.45		U	mg/kg	
P18-12	M	Beryllium	P18-12C-801388	NONE	482388.18	1350802	12/26/96	0.51		B	mg/kg	0.51		U	mg/kg	
P18-12	M	Beryllium	P18-12C-854372	NONE	482372.29	1350855	12/26/96	2.20			mg/kg	2.20		-	mg/kg	
P18-12	M	Beryllium	P18-12C-873323	NONE	482323.4	1350874	12/26/96	0.63			mg/kg	0.63		U	mg/kg	
P18-12	M	Beryllium	P18-12C-891258	NONE	482258.64	1350892	12/26/96	0.49		B	mg/kg	0.49		U	mg/kg	
P18-12	R	Moisture Content	P17-34C-825010	NONE	482010.4	1350825	12/19/96	15.00			Percent	15.00		NV	Percent	
P18-12	R	Moisture Content	P17-34C-825187	NONE	482187.53	1350825	12/26/96	13.85			Percent			NV	Percent	
P18-12	R	Moisture Content	P17-34C-844094	NONE	482094.16	1350844	12/19/96	21.00			Percent	21.00		NV	Percent	
P18-12	R	Moisture Content	P17-34C-848107	NONE	482107.5	1350849	12/19/96	23.80			Percent			NV	Percent	
P18-12	R	Moisture Content	P17-34C-868176	NONE	482176.39	1350868	12/30/96	18.45			Percent			NV	Percent	
P18-12	R	Moisture Content	P17-34C-880001	NONE	482001.48	1350881	12/19/96	16.00			Percent	16.00		NV	Percent	
P18-12	R	Moisture Content	P18-12C-806224	NONE	482224.34	1350806	12/26/96	13.19			Percent			NV	Percent	
P18-12	R	Moisture Content	P18-12C-814384	NONE	482384.2	1350815	12/26/96	22.20			Percent	22.20		NV	Percent	
P18-12	R	Moisture Content	P18-12C-844336	NONE	482336.08	1350845	12/26/96	28.80			Percent	28.80		NV	Percent	
P18-12	R	Moisture Content	P18-12C-863295	NONE	482295.13	1350864	12/26/96	22.46			Percent			NV	Percent	
P18-12	R	Moisture Content	P18-12C-868305	NONE	482305.41	1350868	12/26/96	21.50			Percent	21.50		NV	Percent	
P18-12	R	Moisture Content	P18-12C-872219	NONE	482219.27	1350872	12/26/96	22.80			Percent	22.80		NV	Percent	
P18-12	R	Moisture Content	P18-12C-890350	NONE	482350.45	1350890	12/26/96	21.30			Percent	21.30		NV	Percent	
P18-12	R	Moisture Content	P18-12C-902358	NONE	482358.48	1350895	12/26/96	22.60			Percent	22.60		NV	Percent	
P18-12	R	Moisture Content	P18-12C-903278	NONE	482278.3	1350893	12/26/96	22.80			Percent	22.80		NV	Percent	
P18-12	R	Radium-226	P17-34C-825010	NONE	482010.4	1350825	12/19/96	0.92	0.14		pCi/g	0.92	0.14	-	pCi/g	
P18-12	R	Radium-226	P17-34C-825187	NONE	482187.53	1350825	12/26/96	0.77	0.15		pCi/g	0.77	0.15	-	pCi/g	
P18-12	R	Radium-226	P17-34C-844094	NONE	482094.16	1350844	12/19/96	1.70	0.17		pCi/g	1.70	0.17	-	pCi/g	
P18-12	R	Radium-226	P17-34C-848107	NONE	482107.5	1350849	12/19/96	1.33	0.30		pCi/g	1.33	0.30	-	pCi/g	
P18-12	R	Radium-226	P17-34C-868176	NONE	482176.39	1350868	12/30/96	1.10	0.15		pCi/g	1.11	0.15	-	pCi/g	
P18-12	R	Radium-226	P17-34C-880001	NONE	482001.48	1350881	12/19/96	1.20	0.18		pCi/g	1.20	0.18	-	pCi/g	
P18-12	R	Radium-226	P18-12C-806224	NONE	482224.34	1350806	12/26/96	0.92	0.15		pCi/g	0.92	0.15	-	pCi/g	
P18-12	R	Radium-226	P18-12C-814384	NONE	482384.2	1350815	12/26/96	1.70	0.20		pCi/g	1.70	0.20	J	pCi/g	
P18-12	R	Radium-226	P18-12C-844336	NONE	482336.08	1350845	12/26/96	1.60	0.19		pCi/g	1.60	0.19	J	pCi/g	
P18-12	R	Radium-226	P18-12C-863295	NONE	482295.13	1350864	12/26/96	1.10	0.21		pCi/g	1.13	0.21	-	pCi/g	
P18-12	R	Radium-226	P18-12C-868305	NONE	482305.41	1350868	12/26/96	1.60	0.16		pCi/g	1.60	0.16	J	pCi/g	
P18-12	R	Radium-226	P18-12C-872219	NONE	482219.27	1350872	12/26/96	2.00	0.19		pCi/g	2.00	0.19	J	pCi/g	
P18-12	R	Radium-226	P18-12C-890350	NONE	482350.45	1350890	12/26/96	1.40	0.14		pCi/g	1.40	0.14	J	pCi/g	
P18-12	R	Radium-226	P18-12C-902358	NONE	482358.48	1350895	12/26/96	1.30	0.13		pCi/g	1.30	0.13	J	pCi/g	
P18-12	R	Radium-226	P18-12C-903278	NONE	482278.3	1350893	12/26/96	1.60	0.14		pCi/g	1.60	0.14	J	pCi/g	
P18-12	R	Radium-228	P17-34C-825010	NONE	482010.4	1350825	12/19/96	0.84	0.25		pCi/g	0.84	0.25	-	pCi/g	
P18-12	R	Radium-228	P17-34C-825187	NONE	482187.53	1350825	12/26/96	0.63	0.19		pCi/g	0.63	0.19	-	pCi/g	
P18-12	R	Radium-228	P17-34C-844094	NONE	482094.16	1350844	12/19/96	1.60	0.41		pCi/g	1.60	0.41	-	pCi/g	
P18-12	R	Radium-228	P17-34C-848107	NONE	482107.5	1350849	12/19/96	1.51	0.59		pCi/g	1.51	0.59	-	pCi/g	
P18-12	R	Radium-228	P17-34C-868176	NONE	482176.39	1350868	12/30/96	0.99	0.17		pCi/g	1.00	0.17	-	pCi/g	

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								Laboratory Data				Validation Data				
CU Name	CU Type	Parameter	Sample ID	Suffix	Northing	Easting	Sample Date	Lab Result	TPU	Qualifier	Units	Val. Result	TPU	Qualifier	Units	Duplicate of
P18-12	R	Radium-228	P17-34C-880001	NONE	482001.48	1350881	12/19/96	1.20	0.37		pCi/g	1.20	0.37	-	pCi/g	
P18-12	R	Radium-228	P18-12C-806224	NONE	482224.34	1350806	12/26/96	0.86	0.18		pCi/g	0.86	0.18	-	pCi/g	
P18-12	R	Radium-228	P18-12C-814384	NONE	482384.2	1350815	12/26/96	1.40	0.37		pCi/g	1.40	0.37	-	pCi/g	
P18-12	R	Radium-228	P18-12C-844336	NONE	482336.08	1350845	12/26/96	1.50	0.40		pCi/g	1.50	0.40	-	pCi/g	
P18-12	R	Radium-228	P18-12C-863295	NONE	482295.13	1350864	12/26/96	1.40	0.26		pCi/g	1.43	0.26	-	pCi/g	
P18-12	R	Radium-228	P18-12C-868305	NONE	482305.41	1350868	12/26/96	1.20	0.33		pCi/g	1.20	0.33	-	pCi/g	
P18-12	R	Radium-228	P18-12C-872219	NONE	482219.27	1350872	12/26/96	1.60	0.42		pCi/g	1.60	0.42	-	pCi/g	
P18-12	R	Radium-228	P18-12C-890350	NONE	482350.45	1350890	12/26/96	1.10	0.31		pCi/g	1.10	0.31	-	pCi/g	
P18-12	R	Radium-228	P18-12C-902358	NONE	482358.48	1350895	12/26/96	1.10	0.29		pCi/g	1.10	0.29	-	pCi/g	
P18-12	R	Radium-228	P18-12C-903278	NONE	482278.3	1350893	12/26/96	1.30	0.34		pCi/g	1.30	0.34	-	pCi/g	
P18-12	R	Thorium-228	P17-34C-825010	NONE	482010.4	1350825	12/19/96	0.86	0.41		pCi/g	0.86	0.41	J	pCi/g	
P18-12	R	Thorium-228	P17-34C-825187	NONE	482187.53	1350825	12/26/96	0.97	0.28		pCi/g	1.08	0.26	-	pCi/g	
P18-12	R	Thorium-228	P17-34C-844094	NONE	482094.16	1350844	12/19/96	1.60	0.64		pCi/g	1.60	0.64	-	pCi/g	
P18-12	R	Thorium-228	P17-34C-848107	NONE	482107.5	1350849	12/19/96	1.28	0.12		pCi/g	1.28	0.12	-	pCi/g	
P18-12	R	Thorium-228	P17-34C-868176	NONE	482176.39	1350868	12/30/96	1.00	0.27		pCi/g	1.11	0.25	-	pCi/g	
P18-12	R	Thorium-228	P17-34C-880001	NONE	482001.48	1350881	12/19/96	1.10	0.46		pCi/g	1.10	0.46	-	pCi/g	
P18-12	R	Thorium-228	P18-12C-806224	NONE	482224.34	1350806	12/26/96	1.10	0.28		pCi/g	1.16	0.27	-	pCi/g	
P18-12	R	Thorium-228	P18-12C-814384	NONE	482384.2	1350815	12/26/96	1.30	0.48		pCi/g	1.30	0.48	-	pCi/g	
P18-12	R	Thorium-228	P18-12C-844336	NONE	482336.08	1350845	12/26/96	1.60	0.75		pCi/g	1.60	0.75	J	pCi/g	
P18-12	R	Thorium-228	P18-12C-863295	NONE	482295.13	1350864	12/26/96	1.30	0.33		pCi/g	1.83	0.33	Z	pCi/g	
P18-12	R	Thorium-228	P18-12C-863295	RE	482295.13	1350864	12/26/96	1.40	0.30		pCi/g	1.38	0.29	-	pCi/g	
P18-12	R	Thorium-228	P18-12C-868305	NONE	482305.41	1350868	12/26/96	1.40	0.60		pCi/g	1.40	0.60	-	pCi/g	
P18-12	R	Thorium-228	P18-12C-872219	NONE	482219.27	1350872	12/26/96	1.40	0.55		pCi/g	1.40	0.55	-	pCi/g	
P18-12	R	Thorium-228	P18-12C-890350	NONE	482350.45	1350890	12/26/96	1.30	0.58		pCi/g	1.30	0.58	-	pCi/g	
P18-12	R	Thorium-228	P18-12C-902358	NONE	482358.48	1350895	12/26/96	0.99	0.43		pCi/g	0.99	0.43	J	pCi/g	
P18-12	R	Thorium-228	P18-12C-903278	NONE	482278.3	1350893	12/26/96	1.20	0.48		pCi/g	1.20	0.48	-	pCi/g	
P18-12	R	Thorium-232	P17-34C-825010	NONE	482010.4	1350825	12/19/96	0.88	0.40		pCi/g	0.88	0.40	J	pCi/g	
P18-12	R	Thorium-232	P17-34C-825187	NONE	482187.53	1350825	12/26/96	0.76	0.19		pCi/g	0.76	0.19	-	pCi/g	
P18-12	R	Thorium-232	P17-34C-844094	NONE	482094.16	1350844	12/19/96	1.50	0.56		pCi/g	1.50	0.56	-	pCi/g	
P18-12	R	Thorium-232	P17-34C-848107	NONE	482107.5	1350849	12/19/96	1.43	0.13		pCi/g	1.43	0.13	-	pCi/g	
P18-12	R	Thorium-232	P17-34C-868176	NONE	482176.39	1350868	12/30/96	0.96	0.21		pCi/g	0.96	0.21	-	pCi/g	
P18-12	R	Thorium-232	P17-34C-880001	NONE	482001.48	1350881	12/19/96	1.20	0.48		pCi/g	1.20	0.48	-	pCi/g	
P18-12	R	Thorium-232	P18-12C-806224	NONE	482224.34	1350806	12/26/96	0.79	0.18		pCi/g	0.79	0.18	-	pCi/g	
P18-12	R	Thorium-232	P18-12C-814384	NONE	482384.2	1350815	12/26/96	1.30	0.46		pCi/g	1.30	0.46	-	pCi/g	
P18-12	R	Thorium-232	P18-12C-844336	NONE	482336.08	1350845	12/26/96	1.50	0.69		pCi/g	1.50	0.69	J	pCi/g	
P18-12	R	Thorium-232	P18-12C-863295	NONE	482295.13	1350864	12/26/96	1.20	0.23		pCi/g	1.22	0.23	Z	pCi/g	
P18-12	R	Thorium-232	P18-12C-863295	RE	482295.13	1350864	12/26/96	1.40	0.28		pCi/g	1.38	0.27	-	pCi/g	
P18-12	R	Thorium-232	P18-12C-868305	NONE	482305.41	1350868	12/26/96	1.40	0.55		pCi/g	1.40	0.55	-	pCi/g	
P18-12	R	Thorium-232	P18-12C-872219	NONE	482219.27	1350872	12/26/96	1.40	0.54		pCi/g	1.40	0.54	-	pCi/g	
P18-12	R	Thorium-232	P18-12C-890350	NONE	482350.45	1350890	12/26/96	1.20	0.52		pCi/g	1.20	0.52	-	pCi/g	

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								Laboratory Data				Validation Data				
CU Name	CU Type	Parameter	Sample ID	Suffix	Northing	Easting	Sample Date	Lab Result	TPU	Qualifier	Units	Val. Result	TPU	Qualifier	Units	Duplicate of
P18-12	R	Thorium-232	P18-12C-902358	NONE	482358.48	1350895	12/26/96	1.20	0.50		pCi/g	1.20	0.50	J	pCi/g	
P18-12	R	Thorium-232	P18-12C-903278	NONE	482278.3	1350893	12/26/96	1.20	0.44		pCi/g	1.20	0.44	-	pCi/g	
P18-12	R	Uranium, Total	P17-34C-825010	NONE	482010.4	1350825	12/19/96				ug/g	9.60	2.16	J	ug/g	
P18-12	R	Uranium, Total	P17-34C-825187	NONE	482187.53	1350825	12/26/96				ug/g	7.04	3.68	J	ug/g	
P18-12	R	Uranium, Total	P17-34C-844094	NONE	482094.16	1350844	12/19/96				ug/g	8.40	2.16	J	ug/g	
P18-12	R	Uranium, Total	P17-34C-848107	NONE	482107.5	1350849	12/19/96				ug/g	14.69		U	ug/g	
P18-12	R	Uranium, Total	P17-34C-868176	NONE	482176.39	1350868	12/30/96				ug/g	5.27	2.97	J	ug/g	
P18-12	R	Uranium, Total	P17-34C-880001	NONE	482001.48	1350881	12/19/96				ug/g	7.50	2.79	J	ug/g	
P18-12	R	Uranium, Total	P18-12C-806224	NONE	482224.34	1350806	12/26/96				ug/g	7.95	3.58	-	ug/g	
P18-12	R	Uranium, Total	P18-12C-814384	NONE	482384.2	1350815	12/26/96				ug/g	14.69	3.00	-	ug/g	
P18-12	R	Uranium, Total	P18-12C-844336	NONE	482336.08	1350845	12/26/96				ug/g	7.20	3.00	-	ug/g	
P18-12	R	Uranium, Total	P18-12C-863295	NONE	482295.13	1350864	12/26/96				ug/g	5.53	3.47	J	ug/g	
P18-12	R	Uranium, Total	P18-12C-868305	NONE	482305.41	1350868	12/26/96				ug/g	6.90	2.34	-	ug/g	
P18-12	R	Uranium, Total	P18-12C-872219	NONE	482219.27	1350872	12/26/96				ug/g	6.00	2.25	-	ug/g	
P18-12	R	Uranium, Total	P18-12C-890350	NONE	482350.45	1350890	12/26/96				ug/g	7.80	1.89	-	ug/g	
P18-12	R	Uranium, Total	P18-12C-902358	NONE	482358.48	1350895	12/26/96				ug/g	4.80	1.56	-	ug/g	
P18-12	R	Uranium, Total	P18-12C-903278	NONE	482278.3	1350893	12/26/96				ug/g	4.80	2.25	-	ug/g	
P18-12	R	Uranium-238	P17-34C-825010	NONE	482010.4	1350825	12/19/96	3.20	0.72		pCi/g	3.20	0.72	J	pCi/g	
P18-12	R	Uranium-238	P17-34C-825187	NONE	482187.53	1350825	12/26/96	2.30	1.20		pCi/g	2.35	1.23	J	pCi/g	
P18-12	R	Uranium-238	P17-34C-844094	NONE	482094.16	1350844	12/19/96	2.80	0.72		pCi/g	2.80	0.72	J	pCi/g	
P18-12	R	Uranium-238	P17-34C-848107	NONE	482107.5	1350849	12/19/96	3.23	3.10	U	pCi/g	4.90		U	pCi/g	
P18-12	R	Uranium-238	P17-34C-868176	NONE	482176.39	1350868	12/30/96	1.80	0.99		pCi/g	1.76	0.99	J	pCi/g	
P18-12	R	Uranium-238	P17-34C-880001	NONE	482001.48	1350881	12/19/96	2.50	0.93		pCi/g	2.50	0.93	J	pCi/g	
P18-12	R	Uranium-238	P18-12C-806224	NONE	482224.34	1350806	12/26/96	2.70	1.20		pCi/g	2.65	1.20	-	pCi/g	
P18-12	R	Uranium-238	P18-12C-814384	NONE	482384.2	1350815	12/26/96	4.90	1.00		pCi/g	4.90	1.00	-	pCi/g	
P18-12	R	Uranium-238	P18-12C-844336	NONE	482336.08	1350845	12/26/96	2.40	1.00		pCi/g	2.40	1.00	-	pCi/g	
P18-12	R	Uranium-238	P18-12C-863295	NONE	482295.13	1350864	12/26/96	1.80	1.20		pCi/g	1.84	1.16	J	pCi/g	
P18-12	R	Uranium-238	P18-12C-868305	NONE	482305.41	1350868	12/26/96	2.30	0.78		pCi/g	2.30	0.78	-	pCi/g	
P18-12	R	Uranium-238	P18-12C-872219	NONE	482219.27	1350872	12/26/96	2.00	0.75		pCi/g	2.00	0.75	-	pCi/g	
P18-12	R	Uranium-238	P18-12C-890350	NONE	482350.45	1350890	12/26/96	2.60	0.63		pCi/g	2.60	0.63	-	pCi/g	
P18-12	R	Uranium-238	P18-12C-902358	NONE	482358.48	1350895	12/26/96	1.60	0.52		pCi/g	1.60	0.52	-	pCi/g	
P18-12	R	Uranium-238	P18-12C-903278	NONE	482278.3	1350893	12/26/96	1.60	0.75		pCi/g	1.60	0.75	-	pCi/g	
P18-13	M	Aroclor-1260	P18-13C-604590	NONE	482590	1350605	12/18/96	50.00		U	ug/kg	50.00		UJ	ug/kg	
P18-13	M	Aroclor-1260	P18-13C-615406	NONE	482406.88	1350615	12/18/96	46.00		U	ug/kg	46.00		UJ	ug/kg	
P18-13	M	Aroclor-1260	P18-13C-640506	NONE	482506.64	1350640	12/18/96	53.00		U	ug/kg	53.00		UJ	ug/kg	
P18-13	M	Aroclor-1260	P18-13C-676573	NONE	482573.4	1350677	12/18/96	49.00		U	ug/kg	49.00		UJ	ug/kg	
P18-13	M	Aroclor-1260	P18-13C-684539	NONE	482539.48	1350685	12/18/96	49.00		U	ug/kg	49.00		UJ	ug/kg	
P18-13	M	Aroclor-1260	P18-13C-727596	NONE	482596.5	1350728	12/18/96	44.00		U	ug/kg	44.00		UJ	ug/kg	
P18-13	M	Aroclor-1260	P18-13C-740481	NONE	482481.2	1350741	12/18/96	51.00		U	ug/kg	51.00		UJ	ug/kg	

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								Laboratory Data				Validation Data				
CU Name	CU Type	Parameter	Sample ID	Suffix	Northing	Easting	Sample Date	Lab Result	TPU	Qualifier	Units	Val. Result	TPU	Qualifier	Units	Duplicate of
P18-13	M	Aroclor-1260	P18-13C-766516	NONE	482520.97	1350767	12/19/96	48.00		U	ug/kg	48.00		UJ	ug/kg	
P18-13	M	Aroclor-1260	P18-13C-777423	NONE	482423.87	1350778	12/18/96	47.00		U	ug/kg	47.00		UJ	ug/kg	
P18-13	M	Arsenic	P18-13C-604590	NONE	482590	1350605	12/18/96	10.00			mg/kg	10.00		J	mg/kg	
P18-13	M	Arsenic	P18-13C-615406	NONE	482406.88	1350615	12/18/96	6.10			mg/kg	6.10		J	mg/kg	
P18-13	M	Arsenic	P18-13C-640506	NONE	482506.64	1350640	12/18/96	12.80			mg/kg	12.80		J	mg/kg	
P18-13	M	Arsenic	P18-13C-676573	NONE	482573.4	1350677	12/18/96	6.40			mg/kg	6.40		J	mg/kg	
P18-13	M	Arsenic	P18-13C-684539	NONE	482539.48	1350685	12/18/96	7.60			mg/kg	7.60		-	mg/kg	
P18-13	M	Arsenic	P18-13C-727596	NONE	482596.5	1350728	12/18/96	4.80			mg/kg	4.80		J	mg/kg	
P18-13	M	Arsenic	P18-13C-740481	NONE	482481.2	1350741	12/18/96	7.80			mg/kg	7.80		-	mg/kg	
P18-13	M	Arsenic	P18-13C-766516	NONE	482520.97	1350767	12/19/96	8.30			mg/kg	8.30		-	mg/kg	
P18-13	M	Arsenic	P18-13C-777423	NONE	482423.87	1350778	12/18/96	4.60			mg/kg	4.60		J	mg/kg	
P18-13	M	Beryllium	P18-13C-604590	NONE	482590	1350605	12/18/96	0.81			mg/kg	0.81		U	mg/kg	
P18-13	M	Beryllium	P18-13C-615406	NONE	482406.88	1350615	12/18/96	0.45		B	mg/kg	0.45		U	mg/kg	
P18-13	M	Beryllium	P18-13C-640506	NONE	482506.64	1350640	12/18/96	1.20			mg/kg	1.20		-	mg/kg	
P18-13	M	Beryllium	P18-13C-676573	NONE	482573.4	1350677	12/18/96	0.44		B	mg/kg	0.44		U	mg/kg	
P18-13	M	Beryllium	P18-13C-684539	NONE	482539.48	1350685	12/18/96	0.57		B	mg/kg	0.57		U	mg/kg	
P18-13	M	Beryllium	P18-13C-727596	NONE	482596.5	1350728	12/18/96	0.32		B	mg/kg	0.32		U	mg/kg	
P18-13	M	Beryllium	P18-13C-740481	NONE	482481.2	1350741	12/18/96	0.66			mg/kg	0.66		U	mg/kg	
P18-13	M	Beryllium	P18-13C-766516	NONE	482520.97	1350767	12/19/96	0.71			mg/kg	0.71		U	mg/kg	
P18-13	M	Beryllium	P18-13C-777423	NONE	482423.87	1350778	12/18/96	0.42		B	mg/kg	0.42		U	mg/kg	
P18-14	M	Arsenic	P18-14C-801415	NONE	482415	1350801	1/15/97	10.50			mg/kg	10.50		J	mg/kg	
P18-14	M	Arsenic	P18-14C-803468	NONE	482468	1350803	1/15/97	5.10			mg/kg	5.10		J	mg/kg	
P18-14	M	Arsenic	P18-14C-810450	NONE	482450	1350810	1/15/97	7.40			mg/kg	7.40		J	mg/kg	
P18-14	M	Arsenic	P18-14C-825514	NONE	482514	1350825	1/15/97	11.50			mg/kg	11.50		J	mg/kg	
P18-14	M	Arsenic	P18-14C-845544	NONE	482544.89	1350845	1/15/97	7.70			mg/kg	7.70		-	mg/kg	
P18-14	M	Arsenic	P18-14C-855515	NONE	482515	1350855	1/15/97	8.70			mg/kg	8.70		-	mg/kg	
P18-14	M	Arsenic	P18-14C-857434	NONE	482434	1350857	1/15/97	11.40			mg/kg	11.40		J	mg/kg	
P18-14	M	Arsenic	P18-14C-857434-D	NONE	482434	1350857	1/15/97	12.30			mg/kg	12.30		J	mg/kg	P18-14C-857434
P18-14	M	Arsenic	P18-14C-889465	NONE	482465.32	1350890	2/10/97	13.00			mg/kg	13.00		-	mg/kg	
P18-14	M	Arsenic	P18-14C-891521	NONE	482521.66	1350891	1/16/97	11.30			mg/kg	11.30		-	mg/kg	
P18-14	M	Arsenic	P18-14C2-1-M	NONE	482588	1350805	3/11/97	11.30			mg/kg	11.30		-	mg/kg	
P18-14	M	Beryllium	P18-14C-801415	NONE	482415	1350801	1/15/97	0.73			mg/kg	0.73		U	mg/kg	
P18-14	M	Beryllium	P18-14C-803468	NONE	482468	1350803	1/15/97	0.56		B	mg/kg	0.56		U	mg/kg	
P18-14	M	Beryllium	P18-14C-810450	NONE	482450	1350810	1/15/97	0.76			mg/kg	0.76		U	mg/kg	
P18-14	M	Beryllium	P18-14C-825514	NONE	482514	1350825	1/15/97	1.20			mg/kg	1.20		-	mg/kg	
P18-14	M	Beryllium	P18-14C-845544	NONE	482544.89	1350845	1/15/97	0.55		B	mg/kg	0.55		U	mg/kg	
P18-14	M	Beryllium	P18-14C-855515	NONE	482515	1350855	1/15/97	0.73			mg/kg	0.73		U	mg/kg	
P18-14	M	Beryllium	P18-14C-857434	NONE	482434	1350857	1/15/97	1.10			mg/kg	1.10		J	mg/kg	
P18-14	M	Beryllium	P18-14C-857434-D	NONE	482434	1350857	1/15/97	0.78			mg/kg	0.78		UJ	mg/kg	P18-14C-857434

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							Laboratory Data				Validation Data				
CU Name	CU Type	Parameter	Sample ID	Suffix	Northing	Easting	Sample Date	Lab Result	TPU	Qualifier	Units	Val. Result	TPU	Qualifier	Units	Duplicate of
P18-14	M	Beryllium	P18-14C-889465	NONE	482465.32	1350890	2/10/97	0.72			mg/kg	0.72		-	mg/kg	
P18-14	M	Beryllium	P18-14C-891521	NONE	482521.66	1350891	1/16/97	0.66		B	mg/kg	0.66		U	mg/kg	
P18-14	M	Beryllium	P18-14C2-1-M	NONE	482588	1350805	3/11/97	0.59			mg/kg	0.59		-	mg/kg	
P18-20	R	Moisture Content	P18-12C-977297	NONE	482297.69	1350978	12/6/96	18.90			Percent	18.90		NV	Percent	
P18-20	R	Moisture Content	P18-20C-006387	NONE	482387.28	1351007	11/27/96	16.10			Percent			NV	Percent	
P18-20	R	Moisture Content	P18-20C-043443	NONE	482443.33	1351043	11/27/96	14.90			Percent			NV	Percent	
P18-20	R	Moisture Content	P18-20C-103322	NONE	482322.3	1351103	11/27/96	22.70			Percent			NV	Percent	
P18-20	R	Moisture Content	P18-20C-109583	NONE	482583.5	1351109	11/26/96	17.00			Percent			NV	Percent	
P18-20	R	Moisture Content	P18-20C-232374	NONE	482374.52	1351232	12/2/96	17.90			Percent	17.90		NV	Percent	
P18-20	R	Moisture Content	P18-20C-232374-D	NONE	482374.52	1351232	12/4/96	22.00			Percent	22.00		NV	Percent	P18-20C-232374
P18-20	R	Moisture Content	P18-20C-244287	NONE	482287.25	1351245	11/27/96	19.60			Percent			NV	Percent	
P18-20	R	Moisture Content	P18-20C-267570	NONE	482570.8	1351268	11/27/96	20.90			Percent			NV	Percent	
P18-20	R	Moisture Content	P18-20C-269488	NONE	482488.6	1351270	11/27/96	17.50			Percent			NV	Percent	
P18-20	R	Moisture Content	P18-20C-306477	NONE	482477.26	1351306	11/27/96	18.50			Percent			NV	Percent	
P18-20	R	Moisture Content	P18-20C-343361	NONE	482361.78	1351344	11/27/96	16.90			Percent			NV	Percent	
P18-20	R	Moisture Content	P18-20C-366527	NONE	482527.18	1351367	11/27/96	21.80			Percent			NV	Percent	
P18-20	R	Moisture Content	P18-20C-384287	NONE	482287.76	1351384	11/27/96	19.70			Percent			NV	Percent	
P18-20	R	Moisture Content	P18C-998597	NONE	482597.24	1350999	12/6/96	18.00			Percent	18.00		NV	Percent	
P18-20	R	Radium-226	P18-12C-977297	NONE	482297.69	1350978	12/6/96	1.50	0.17		pCi/g	1.50	0.17	-	pCi/g	
P18-20	R	Radium-226	P18-20C-006387	NONE	482387.28	1351007	11/27/96	1.10	0.13		pCi/g	1.10	0.13	-	pCi/g	
P18-20	R	Radium-226	P18-20C-043443	NONE	482443.33	1351043	11/27/96	1.30	0.15		pCi/g	1.30	0.15	-	pCi/g	
P18-20	R	Radium-226	P18-20C-103322	NONE	482322.3	1351103	11/27/96	1.20	0.15		pCi/g	1.20	0.15	-	pCi/g	
P18-20	R	Radium-226	P18-20C-109583	NONE	482583.5	1351109	11/26/96	1.50	0.16		pCi/g	1.50	0.16	-	pCi/g	
P18-20	R	Radium-226	P18-20C-232374	NONE	482374.52	1351232	12/2/96	0.88	0.20		pCi/g	0.88	0.20	-	pCi/g	
P18-20	R	Radium-226	P18-20C-232374-D	NONE	482374.52	1351232	12/4/96	1.70	0.18		pCi/g	1.70	0.18	-	pCi/g	P18-20C-232374
P18-20	R	Radium-226	P18-20C-244287	NONE	482287.25	1351245	11/27/96	1.20	0.12		pCi/g	1.20	0.12	-	pCi/g	
P18-20	R	Radium-226	P18-20C-267570	NONE	482570.8	1351268	11/27/96	1.20	0.13		pCi/g	1.20	0.13	-	pCi/g	
P18-20	R	Radium-226	P18-20C-269488	NONE	482488.6	1351270	11/27/96	1.10	0.12		pCi/g	1.10	0.12	-	pCi/g	
P18-20	R	Radium-226	P18-20C-306477	NONE	482477.26	1351306	11/27/96	0.09	0.19	U	pCi/g	0.09	0.19	Z	pCi/g	
P18-20	R	Radium-226	P18-20C-306477	RE	482477.26	1351306	11/27/96	1.40	0.20		pCi/g	1.39	0.18	-	pCi/g	
P18-20	R	Radium-226	P18-20C-343361	NONE	482361.78	1351344	11/27/96	1.40	0.17		pCi/g	1.40	0.17	-	pCi/g	
P18-20	R	Radium-226	P18-20C-366527	NONE	482527.18	1351367	11/27/96	1.40	0.17		pCi/g	1.40	0.17	-	pCi/g	
P18-20	R	Radium-226	P18-20C-384287	NONE	482287.76	1351384	11/27/96	1.40	0.18		pCi/g	1.40	0.18	-	pCi/g	
P18-20	R	Radium-226	P18C-998597	NONE	482597.24	1350999	12/6/96	1.40	0.16		pCi/g	1.40	0.16	-	pCi/g	
P18-20	R	Radium-228	P18-12C-977297	NONE	482297.69	1350978	12/6/96	1.30	0.37		pCi/g	1.30	0.37	-	pCi/g	
P18-20	R	Radium-228	P18-20C-006387	NONE	482387.28	1351007	11/27/96	0.94	0.28		pCi/g	0.94	0.28	-	pCi/g	
P18-20	R	Radium-228	P18-20C-043443	NONE	482443.33	1351043	11/27/96	1.00	0.30		pCi/g	1.00	0.30	-	pCi/g	
P18-20	R	Radium-228	P18-20C-103322	NONE	482322.3	1351103	11/27/96	1.20	0.31		pCi/g	1.20	0.31	-	pCi/g	
P18-20	R	Radium-228	P18-20C-109583	NONE	482583.5	1351109	11/26/96	1.30	0.36		pCi/g	1.30	0.36	-	pCi/g	

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								Laboratory Data				Validation Data					
CU Name	CU Type	Parameter	Sample ID	Suffix	Northing	Easting	Sample Date	Lab Result	TPU	Qualifier	Units	Val. Result	TPU	Qualifier	Units	Duplicate of
P18-20	R	Radium-228	P18-20C-232374	NONE	482374.52	1351232	12/2/96	1.40	0.43		pCi/g	1.40	0.43	-	pCi/g	
P18-20	R	Radium-228	P18-20C-232374-D	NONE	482374.52	1351232	12/4/96	1.30	0.36		pCi/g	1.30	0.36	-	pCi/g	P18-20C-232374
P18-20	R	Radium-228	P18-20C-244287	NONE	482287.25	1351245	11/27/96	1.20	0.32		pCi/g	1.20	0.32	-	pCi/g	
P18-20	R	Radium-228	P18-20C-267570	NONE	482570.8	1351268	11/27/96	1.10	0.29		pCi/g	1.10	0.29	-	pCi/g	
P18-20	R	Radium-228	P18-20C-269488	NONE	482488.6	1351270	11/27/96	1.30	0.34		pCi/g	1.30	0.34	-	pCi/g	
P18-20	R	Radium-228	P18-20C-306477	NONE	482477.26	1351306	11/27/96	0.79	0.38		pCi/g	0.79	0.38	Z	pCi/g	
P18-20	R	Radium-228	P18-20C-306477	RE	482477.26	1351306	11/27/96	1.40	0.61		pCi/g	1.41	0.42	-	pCi/g	
P18-20	R	Radium-228	P18-20C-343361	NONE	482361.78	1351344	11/27/96	1.30	0.36		pCi/g	1.30	0.36	-	pCi/g	
P18-20	R	Radium-228	P18-20C-366527	NONE	482527.18	1351367	11/27/96	1.50	0.44		pCi/g	1.50	0.44	-	pCi/g	
P18-20	R	Radium-228	P18-20C-384287	NONE	482287.76	1351384	11/27/96	1.30	0.36		pCi/g	1.30	0.36	-	pCi/g	
P18-20	R	Radium-228	P18C-998597	NONE	482597.24	1350999	12/6/96	1.40	0.39		pCi/g	1.40	0.39	-	pCi/g	
P18-20	R	Thorium-228	P18-12C-977297	NONE	482297.69	1350978	12/6/96	1.00	0.46		pCi/g	1.00	0.46	J	pCi/g	
P18-20	R	Thorium-228	P18-20C-006387	NONE	482387.28	1351007	11/27/96	0.93	0.38		pCi/g	0.95	0.38	-	pCi/g	
P18-20	R	Thorium-228	P18-20C-043443	NONE	482443.33	1351043	11/27/96	0.89	0.36		pCi/g	0.89	0.36	-	pCi/g	
P18-20	R	Thorium-228	P18-20C-103322	NONE	482322.3	1351103	11/27/96	1.30	0.50		pCi/g	1.30	0.50	-	pCi/g	
P18-20	R	Thorium-228	P18-20C-109583	NONE	482583.5	1351109	11/26/96	1.20	0.55		pCi/g	1.20	0.55	J	pCi/g	
P18-20	R	Thorium-228	P18-20C-232374	NONE	482374.52	1351232	12/2/96	1.23	0.10		pCi/g	1.26	0.10	J	pCi/g	
P18-20	R	Thorium-228	P18-20C-232374-D	NONE	482374.52	1351232	12/4/96	1.40	0.54		pCi/g	1.40	0.54	J	pCi/g	P18-20C-232374
P18-20	R	Thorium-228	P18-20C-244287	NONE	482287.25	1351245	11/27/96	0.96	0.37		pCi/g	0.96	0.37	-	pCi/g	
P18-20	R	Thorium-228	P18-20C-267570	NONE	482570.8	1351268	11/27/96	0.85	0.39		pCi/g	0.85	0.39	-	pCi/g	
P18-20	R	Thorium-228	P18-20C-269488	NONE	482488.6	1351270	11/27/96	1.40	0.65		pCi/L	1.40	0.65	-	pCi/L	
P18-20	R	Thorium-228	P18-20C-306477	NONE	482477.26	1351306	11/27/96	1.00	0.45		pCi/g	1.00	0.45	J	pCi/g	
P18-20	R	Thorium-228	P18-20C-343361	NONE	482361.78	1351344	11/27/96	1.10	0.40		pCi/g	1.10	0.40	-	pCi/g	
P18-20	R	Thorium-228	P18-20C-366527	NONE	482527.18	1351367	11/27/96	1.20	0.49		pCi/g	1.20	0.49	-	pCi/g	
P18-20	R	Thorium-228	P18-20C-384287	NONE	482287.76	1351384	11/27/96	1.20	0.46		pCi/g	1.20	0.46	-	pCi/g	
P18-20	R	Thorium-228	P18C-998597	NONE	482597.24	1350999	12/6/96	1.10	0.45		pCi/g	1.10	0.45	J	pCi/g	
P18-20	R	Thorium-232	P18-12C-977297	NONE	482297.69	1350978	12/6/96	0.93	0.39		pCi/g	0.93	0.39	J	pCi/g	
P18-20	R	Thorium-232	P18-20C-006387	NONE	482387.28	1351007	11/27/96	0.93	0.37		pCi/g	0.93	0.37	-	pCi/g	
P18-20	R	Thorium-232	P18-20C-043443	NONE	482443.33	1351043	11/27/96	0.88	0.34		pCi/g	0.88	0.34	-	pCi/g	
P18-20	R	Thorium-232	P18-20C-103322	NONE	482322.3	1351103	11/27/96	1.10	0.42		pCi/g	1.10	0.43	-	pCi/g	
P18-20	R	Thorium-232	P18-20C-109583	NONE	482583.5	1351109	11/26/96	1.10	0.49		pCi/g	1.10	0.49	J	pCi/g	
P18-20	R	Thorium-232	P18-20C-232374	NONE	482374.52	1351232	12/2/96	1.27	0.10		pCi/g	1.27	0.10	J	pCi/g	
P18-20	R	Thorium-232	P18-20C-232374-D	NONE	482374.52	1351232	12/4/96	1.10	0.43		pCi/g	1.10	0.43	J	pCi/g	P18-20C-232374
P18-20	R	Thorium-232	P18-20C-244287	NONE	482287.25	1351245	11/27/96	0.99	0.38		pCi/g	0.99	0.38	-	pCi/g	
P18-20	R	Thorium-232	P18-20C-267570	NONE	482570.8	1351268	11/27/96	1.20	0.49		pCi/g	1.20	0.49	-	pCi/g	
P18-20	R	Thorium-232	P18-20C-269488	NONE	482488.6	1351270	11/27/96	1.40	0.64		pCi/L	1.40	0.64	-	pCi/L	
P18-20	R	Thorium-232	P18-20C-306477	NONE	482477.26	1351306	11/27/96	0.96	0.40		pCi/g	0.96	0.40	J	pCi/g	
P18-20	R	Thorium-232	P18-20C-343361	NONE	482361.78	1351344	11/27/96	1.30	0.46		pCi/g	1.30	0.46	-	pCi/g	
P18-20	R	Thorium-232	P18-20C-366527	NONE	482527.18	1351367	11/27/96	1.20	0.45		pCi/g	1.20	0.45	-	pCi/g	
P18-20	R	Thorium-232	P18-20C-384287	NONE	482287.76	1351384	11/27/96	1.30	0.39		pCi/g	1.00	0.39	-	pCi/g	

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								Laboratory Data				Validation Data				
CU Name	CU Type	Parameter	Sample ID	Suffix	Northing	Easting	Sample Date	Lab Result	TPU	Qualifier	Units	Val. Result	TPU	Qualifier	Units	Duplicate of
P18-20	R	Thorium-232	P18C-998597	NONE	482597.24	1350999	12/6/96	1.20	0.46		pCi/g	1.20	0.46	J	pCi/g	
P18-20	R	Uranium, Total	P18-12C-977297	NONE	482297.69	1350978	12/6/96				ug/g	19.19	3.60	-	ug/g	
P18-20	R	Uranium, Total	P18-20C-006387	NONE	482387.28	1351007	11/27/96				ug/g	9.90	2.10	-	ug/g	
P18-20	R	Uranium, Total	P18-20C-043443	NONE	482443.33	1351043	11/27/96				ug/g	5.70	1.89	-	ug/g	
P18-20	R	Uranium, Total	P18-20C-103322	NONE	482322.3	1351103	11/27/96				ug/g	15.59	2.94	-	ug/g	
P18-20	R	Uranium, Total	P18-20C-109583	NONE	482583.5	1351109	11/26/96				ug/g	5.70	2.22	-	ug/g	
P18-20	R	Uranium, Total	P18-20C-232374	NONE	482374.52	1351232	12/2/96				ug/g	9.00		U	ug/g	
P18-20	R	Uranium, Total	P18-20C-232374-D	NONE	482374.52	1351232	12/4/96				ug/g	9.00	3.00	-	ug/g	P18-20C-232374
P18-20	R	Uranium, Total	P18-20C-244287	NONE	482287.25	1351245	11/27/96				ug/g	6.60	1.98	-	ug/g	
P18-20	R	Uranium, Total	P18-20C-267570	NONE	482570.8	1351268	11/27/96				ug/g	7.20	2.31	-	ug/g	
P18-20	R	Uranium, Total	P18-20C-269488	NONE	482488.6	1351270	11/27/96				ug/g	10.50	2.70	-	ug/g	
P18-20	R	Uranium, Total	P18-20C-306477	NONE	482477.26	1351306	11/27/96				ug/g	-1.26	3.00	Z	ug/g	
P18-20	R	Uranium, Total	P18-20C-306477	RE	482477.26	1351306	11/27/96				ug/g	7.34	2.03	-	ug/g	
P18-20	R	Uranium, Total	P18-20C-343361	NONE	482361.78	1351344	11/27/96				ug/g	3.30	1.86	J	ug/g	
P18-20	R	Uranium, Total	P18-20C-366527	NONE	482527.18	1351367	11/27/96				ug/g	15.89	3.30	-	ug/g	
P18-20	R	Uranium, Total	P18-20C-384287	NONE	482287.76	1351384	11/27/96				ug/g	12.89	3.00	-	ug/g	
P18-20	R	Uranium, Total	P18C-998597	NONE	482597.24	1350999	12/6/96				ug/g	10.50	2.94	-	ug/g	
P18-20	R	Uranium-238	P18-12C-977297	NONE	482297.69	1350978	12/6/96	6.40	1.20		pCi/g	6.40	1.20	-	pCi/g	
P18-20	R	Uranium-238	P18-20C-006387	NONE	482387.28	1351007	11/27/96	3.30	0.70		pCi/g	3.30	0.70	-	pCi/g	
P18-20	R	Uranium-238	P18-20C-043443	NONE	482443.33	1351043	11/27/96	1.90	0.63		pCi/g	1.90	0.63	-	pCi/g	
P18-20	R	Uranium-238	P18-20C-103322	NONE	482322.3	1351103	11/27/96	5.20	0.98		pCi/g	5.20	0.98	-	pCi/g	
P18-20	R	Uranium-238	P18-20C-109583	NONE	482583.5	1351109	11/26/96	1.90	0.74		pCi/g	1.90	0.74	-	pCi/g	
P18-20	R	Uranium-238	P18-20C-232374	NONE	482374.52	1351232	12/2/96	2.51	1.90	U	pCi/g	3.00		U	pCi/g	
P18-20	R	Uranium-238	P18-20C-232374-D	NONE	482374.52	1351232	12/4/96	3.00	1.00		pCi/g	3.00	1.00	-	pCi/g	P18-20C-232374
P18-20	R	Uranium-238	P18-20C-244287	NONE	482287.25	1351245	11/27/96	2.20	0.66		pCi/g	2.20	0.66	-	pCi/g	
P18-20	R	Uranium-238	P18-20C-267570	NONE	482570.8	1351268	11/27/96	2.40	0.77		pCi/g	2.40	0.77	-	pCi/g	
P18-20	R	Uranium-238	P18-20C-269488	NONE	482488.6	1351270	11/27/96	3.50	0.90		pCi/g	3.50	0.90	-	pCi/g	
P18-20	R	Uranium-238	P18-20C-306477	NONE	482477.26	1351306	11/27/96	-0.42	1.00	U	pCi/g	-0.42	1.00	Z	pCi/g	
P18-20	R	Uranium-238	P18-20C-306477	RE	482477.26	1351306	11/27/96	2.40	0.67		pCi/g	2.45	0.68	-	pCi/g	
P18-20	R	Uranium-238	P18-20C-343361	NONE	482361.78	1351344	11/27/96	1.10	0.62		pCi/g	1.10	0.62	J	pCi/g	
P18-20	R	Uranium-238	P18-20C-366527	NONE	482527.18	1351367	11/27/96	5.30	1.10		pCi/g	5.30	1.10	-	pCi/g	
P18-20	R	Uranium-238	P18-20C-384287	NONE	482287.76	1351384	11/27/96	4.30	1.00		pCi/g	4.30	1.00	-	pCi/g	
P18-20	R	Uranium-238	P18C-998597	NONE	482597.24	1350999	12/6/96	3.50	0.98		pCi/g	3.50	0.98	-	pCi/g	
P18-31	M	Arsenic	P18-31C-642718	NONE	482718.27	1350643	12/31/96	8.60		*	mg/kg	8.60		-	mg/kg	
P18-31	M	Arsenic	P18-31C-657677	NONE	482677.2	1350657	1/23/97	6.50			mg/kg	6.50		-	mg/kg	
P18-31	M	Arsenic	P18-31C-665778	NONE	482778.83	1350665	12/31/96	5.90		*	mg/kg	5.90		-	mg/kg	
P18-31	M	Arsenic	P18-31C-699708	NONE	482708.95	1350700	12/31/96	7.30		*	mg/kg	7.30		-	mg/kg	
P18-31	M	Arsenic	P18-31C-731719	NONE	482719.53	1350732	12/30/96	8.30			mg/kg	8.30		-	mg/kg	
P18-31	M	Arsenic	P18-31C-744782	NONE	482782	1350744	12/31/96	5.50			mg/kg	5.50		-	mg/kg	

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								Laboratory Data				Validation Data				
CU Name	CU Type	Parameter	Sample ID	Suffix	Northing	Easting	Sample Date	Lab Result	TPU	Qualifier	Units	Val. Result	TPU	Qualifier	Units	Duplicate of
P18-31	M	Arsenic	P18-31C-771742	NONE	482742.45	1350771	12/31/96	8.20		•	mg/kg	8.20		-	mg/kg	
P18-31	M	Arsenic	P18-31C-776776	NONE	482776.06	1350776	12/31/96	6.50			mg/kg	6.50		-	mg/kg	
P18-31	M	Arsenic	P18-31C-778619	NONE	482619	1350778	12/19/96	4.40			mg/kg	4.40		J	mg/kg	
P18-31	M	Beryllium	P18-31C-642718	NONE	482718.27	1350643	12/31/96	0.80			mg/kg	0.80		U	mg/kg	
P18-31	M	Beryllium	P18-31C-657677	NONE	482677.2	1350657	1/23/97	0.61		B	mg/kg	0.61		U	mg/kg	
P18-31	M	Beryllium	P18-31C-665778	NONE	482778.83	1350665	12/31/96	0.47		B	mg/kg	0.47		U	mg/kg	
P18-31	M	Beryllium	P18-31C-699708	NONE	482708.95	1350700	12/31/96	0.79			mg/kg	0.79		U	mg/kg	
P18-31	M	Beryllium	P18-31C-731719	NONE	482719.53	1350732	12/30/96	0.84			mg/kg	0.84		U	mg/kg	
P18-31	M	Beryllium	P18-31C-744782	NONE	482782	1350744	12/31/96	0.51		B	mg/kg	0.51		U	mg/kg	
P18-31	M	Beryllium	P18-31C-771742	NONE	482742.45	1350771	12/31/96	0.91			mg/kg	0.91		U	mg/kg	
P18-31	M	Beryllium	P18-31C-776776	NONE	482776.06	1350776	12/31/96	0.73			mg/kg	0.73		U	mg/kg	
P18-31	M	Beryllium	P18-31C-778619	NONE	482619	1350778	12/19/96	0.28		B	mg/kg	0.28		U	mg/kg	
P18-32	M	Arsenic	P18-32C-801699	NONE	482699.91	1350801	12/31/96	10.10		•	mg/kg	10.10		-	mg/kg	
P18-32	M	Arsenic	P18-32C-835773	NONE	482773.62	1350835	12/31/96	7.30		•	mg/kg	7.30		-	mg/kg	
P18-32	M	Arsenic	P18-32C-844724	NONE	482724.27	1350845	12/31/96	9.80			mg/kg	9.80		-	mg/kg	
P18-32	M	Arsenic	P18-32C-885708	NONE	482708.08	1350885	12/31/96	9.20		•	mg/kg	9.20		-	mg/kg	
P18-32	M	Arsenic	P18-32C-885788	NONE	482788.57	1350886	12/31/96	5.60		•	mg/kg	5.60		-	mg/kg	
P18-32	M	Arsenic	P18-32C2-1-MP	NONE	482648.3	1350819	3/11/97	5.50			mg/kg	5.50		-	mg/kg	
P18-32	M	Arsenic	P18-32C2-2-MP	NONE	482640.1	1350875	3/11/97	10.10			mg/kg	10.10		-	mg/kg	
P18-32	M	Arsenic	P18-32C2-M-1	NONE	482790.16	1350812	3/14/97	5.90			mg/kg	5.90		-	mg/kg	
P18-32	M	Arsenic	P18-32C2-M-2	NONE	482742.28	1350901	3/14/97	6.20			mg/kg	6.20		-	mg/kg	
P18-32	M	Arsenic	P18-32C2-M-3	NONE	482734.02	1350818	3/14/97	9.00			mg/kg	9.00		-	mg/kg	
P18-32	M	Arsenic	P18-32C2-M-4	NONE	482789.83	1350927	3/14/97	6.30			mg/kg	6.30		J	mg/kg	
P18-32	M	Arsenic	P18-32C2-M-4-D	NONE	482789.83	1350927	3/14/97	5.80			mg/kg	5.80		UJ	mg/kg	P18-32C2-M-4
P18-32	M	Arsenic	P18-32C2-M-5	NONE	482695.39	1350863	3/14/97	7.20			mg/kg	7.20		-	mg/kg	
P18-32	M	Beryllium	P18-32C-801699	NONE	482699.91	1350801	12/31/96	0.79			mg/kg	0.79		U	mg/kg	
P18-32	M	Beryllium	P18-32C-835773	NONE	482773.62	1350835	12/31/96	0.91			mg/kg	0.91		U	mg/kg	
P18-32	M	Beryllium	P18-32C-844724	NONE	482724.27	1350845	12/31/96	1.70			mg/kg	1.70		U	mg/kg	
P18-32	M	Beryllium	P18-32C-885708	NONE	482708.08	1350885	12/31/96	0.94			mg/kg	0.94		U	mg/kg	
P18-32	M	Beryllium	P18-32C-885788	NONE	482788.57	1350886	12/31/96	0.30		B	mg/kg	0.30		U	mg/kg	
P18-32	M	Beryllium	P18-32C2-1-MP	NONE	482648.3	1350819	3/11/97	0.59			mg/kg	0.59		-	mg/kg	
P18-32	M	Beryllium	P18-32C2-2-MP	NONE	482640.1	1350875	3/11/97	0.74			mg/kg	0.74		-	mg/kg	
P18-32	M	Beryllium	P18-32C2-M-1	NONE	482790.16	1350812	3/14/97	1.00			mg/kg	1.00		-	mg/kg	
P18-32	M	Beryllium	P18-32C2-M-2	NONE	482742.28	1350901	3/14/97	0.61		B	mg/kg	0.61		-	mg/kg	
P18-32	M	Beryllium	P18-32C2-M-3	NONE	482734.02	1350818	3/14/97	1.10			mg/kg	1.10		-	mg/kg	
P18-32	M	Beryllium	P18-32C2-M-4	NONE	482789.83	1350927	3/14/97	0.57		B	mg/kg	0.57		-	mg/kg	
P18-32	M	Beryllium	P18-32C2-M-4-D	NONE	482789.83	1350927	3/14/97	0.59		B	mg/kg	0.59		-	mg/kg	P18-32C2-M-4
P18-32	M	Beryllium	P18-32C2-M-5	NONE	482695.39	1350863	3/14/97	1.10			mg/kg	1.10		-	mg/kg	
P18-40	R	Moisture Content	P18-40C-082930	NONE	482930.57	1351083	11/19/96	20.00			Percent			NV	Percent	

A1P1 CERTIFICATION REPORT - APPENDIX B

								Laboratory Data				Validation Data				
CU Name	CU Type	Parameter	Sample ID	Suffix	Northing	Easting	Sample Date	Lab Result	TPU	Qualifier	Units	Val. Result	TPU	Qualifier	Units	Duplicate of
P18-40	R	Moisture Content	P18-40C-097665	NONE	482665.73	1351097	11/22/96	18.90			Percent			NV	Percent	
P18-40	R	Moisture Content	P18-40C-121992	NONE	482992.31	1351122	11/19/96	11.80			Percent			NV	Percent	
P18-40	R	Moisture Content	P18-40C-133834	NONE	482834.3	1351134	11/19/96	13.80			Percent	13.80		NV	Percent	
P18-40	R	Moisture Content	P18-40C-142613	NONE	482613.35	1351143	11/22/96	19.90			Percent			NV	Percent	
P18-40	R	Moisture Content	P18-40C-217950	NONE	482950.61	1351218	11/19/96	20.70			Percent			NV	Percent	
P18-40	R	Moisture Content	P18-40C-233817	NONE	482817.54	1351234	11/19/96	30.90			Percent			NV	Percent	
P18-40	R	Moisture Content	P18-40C-233817-D	NONE	482817.54	1351234	11/19/96	15.39			Percent			NV	Percent	P18-40C-233817
P18-40	R	Moisture Content	P18-40C-238686	NONE	482686.39	1351238	11/26/96	20.40			Percent			NV	Percent	
P18-40	R	Moisture Content	P18-40C-294716	NONE	482716.79	1351295	11/19/96	23.60			Percent	23.60		NV	Percent	
P18-40	R	Moisture Content	P18-40C-333930	NONE	482930.52	1351334	11/19/96	18.80			Percent			NV	Percent	
P18-40	R	Moisture Content	P18-40C-343874	NONE	482874.71	1351344	11/19/96	19.10			Percent			NV	Percent	
P18-40	R	Moisture Content	P18-40C-345749	NONE	482749.47	1351346	11/19/96	18.90			Percent			NV	Percent	
P18-40	R	Moisture Content	P18-40C-399613	NONE	482613.35	1351400	11/26/96	20.50			Percent			NV	Percent	
P18-40	R	Radium-226	P18-40C-057710	NONE	482710.4	1351058	11/26/96	1.10	0.15		pCi/g	1.06	0.15	-	pCi/g	
P18-40	R	Radium-226	P18-40C-082930	NONE	482930.57	1351083	11/19/96	0.91	0.21		pCi/g	0.91	0.21	-	pCi/g	
P18-40	R	Radium-226	P18-40C-097665	NONE	482665.73	1351097	11/22/96	1.20	0.13		pCi/g	1.20	0.13	-	pCi/g	
P18-40	R	Radium-226	P18-40C-121992	NONE	482992.31	1351122	11/19/96	1.30	0.14		pCi/g	1.29	0.14	-	pCi/g	
P18-40	R	Radium-226	P18-40C-133834	NONE	482834.3	1351134	11/19/96	1.74	0.29		pCi/g	1.74	0.29	-	pCi/g	
P18-40	R	Radium-226	P18-40C-142613	NONE	482613.35	1351143	11/22/96	1.30	0.15		pCi/g	1.30	0.15	-	pCi/g	
P18-40	R	Radium-226	P18-40C-217950	NONE	482950.61	1351218	11/19/96	1.04	0.23		pCi/g	1.04	0.23	-	pCi/g	
P18-40	R	Radium-226	P18-40C-233817	NONE	482817.54	1351234	11/19/96	1.81	0.30		pCi/g	1.81	0.30	-	pCi/g	
P18-40	R	Radium-226	P18-40C-233817-D	NONE	482817.54	1351234	11/19/96	1.45	0.27		pCi/g	1.45	0.27	-	pCi/g	P18-40C-233817
P18-40	R	Radium-226	P18-40C-238686	NONE	482686.39	1351238	11/26/96	1.30	0.14		pCi/g	1.30	0.14	-	pCi/g	
P18-40	R	Radium-226	P18-40C-294716	NONE	482716.79	1351295	11/19/96	1.79	0.28		pCi/g	1.79	0.28	-	pCi/g	
P18-40	R	Radium-226	P18-40C-333930	NONE	482930.52	1351334	11/19/96	1.60	0.19		pCi/g	1.55	0.19	-	pCi/g	
P18-40	R	Radium-226	P18-40C-343874	NONE	482874.71	1351344	11/19/96	1.06	0.20		pCi/g	1.06	0.20	-	pCi/g	
P18-40	R	Radium-226	P18-40C-345749	NONE	482749.47	1351346	11/19/96	1.38	0.29		pCi/g	1.38	0.29	-	pCi/g	
P18-40	R	Radium-226	P18-40C-399613	NONE	482613.35	1351400	11/26/96	1.30	0.17		pCi/g	1.26	0.17	-	pCi/g	
P18-40	R	Radium-228	P18-40C-057710	NONE	482710.4	1351058	11/26/96	1.10	0.20		pCi/g	1.13	0.20	-	pCi/g	
P18-40	R	Radium-228	P18-40C-082930	NONE	482930.57	1351083	11/19/96	1.18	0.42		pCi/g	1.18	0.42	-	pCi/g	
P18-40	R	Radium-228	P18-40C-097665	NONE	482665.73	1351097	11/22/96	1.30	0.34		pCi/g	1.30	0.34	-	pCi/g	
P18-40	R	Radium-228	P18-40C-121992	NONE	482992.31	1351122	11/19/96	1.10	0.32		pCi/g	1.08	0.32	-	pCi/g	
P18-40	R	Radium-228	P18-40C-133834	NONE	482834.3	1351134	11/19/96	1.63	0.57		pCi/g	1.63	0.57	-	pCi/g	
P18-40	R	Radium-228	P18-40C-142613	NONE	482613.35	1351143	11/22/96	1.10	0.31		pCi/g	1.10	0.31	-	pCi/g	
P18-40	R	Radium-228	P18-40C-217950	NONE	482950.61	1351218	11/19/96	1.39	0.38		pCi/g	1.39	0.38	-	pCi/g	
P18-40	R	Radium-228	P18-40C-233817	NONE	482817.54	1351234	11/19/96	1.32	0.61		pCi/g	1.32	0.61	-	pCi/g	
P18-40	R	Radium-228	P18-40C-233817-D	NONE	482817.54	1351234	11/19/96	0.88	0.54		pCi/g	0.88	0.54	J	pCi/g	P18-40C-233817
P18-40	R	Radium-228	P18-40C-238686	NONE	482686.39	1351238	11/26/96	1.20	0.32		pCi/g	1.20	0.32	-	pCi/g	
P18-40	R	Radium-228	P18-40C-294716	NONE	482716.79	1351295	11/19/96	1.62	0.53		pCi/g	1.62	0.53	-	pCi/g	
P18-40	R	Radium-228	P18-40C-333930	NONE	482930.52	1351334	11/19/96	1.20	0.38		pCi/g	1.24	0.38	-	pCi/g	

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								Laboratory Data				Validation Data				
CU Name	CU Type	Parameter	Sample ID	Suffix	Northing	Easting	Sample Date	Lab Result	TPU	Qualifier	Units	Val. Result	TPU	Qualifier	Units	Duplicate of
P18-40	R	Radium-228	P18-40C-343874	NONE	482874.71	1351344	11/19/96	1.03	0.40		pCi/g	1.03	0.40	-	pCi/g	
P18-40	R	Radium-228	P18-40C-345749	NONE	482749.47	1351346	11/19/96	1.04	0.53		pCi/g	1.04	0.53	J	pCi/g	
P18-40	R	Radium-228	P18-40C-399613	NONE	482613.35	1351400	11/26/96	1.20	0.37		pCi/g	1.20	0.37	-	pCi/g	
P18-40	R	Thorium-228	P18-40C-057710	NONE	482710.4	1351058	11/26/96	1.00	0.28		pCi/g	1.29	0.26	-	pCi/g	
P18-40	R	Thorium-228	P18-40C-082930	NONE	482930.57	1351083	11/19/96	1.05	0.10		pCi/g	1.09	0.09	-	pCi/g	
P18-40	R	Thorium-228	P18-40C-097665	NONE	482665.73	1351097	11/22/96	1.10	0.54		pCi/g	1.10	0.54	J	pCi/g	
P18-40	R	Thorium-228	P18-40C-121992	NONE	482992.31	1351122	11/19/96	1.40	0.60		pCi/g	1.40	0.60	-	pCi/g	
P18-40	R	Thorium-228	P18-40C-133834	NONE	482834.3	1351134	11/19/96	0.98	0.10		pCi/g	1.03	0.10	J	pCi/g	
P18-40	R	Thorium-228	P18-40C-142613	NONE	482613.35	1351143	11/22/96	1.10	0.50		pCi/g	1.10	0.50	J	pCi/g	
P18-40	R	Thorium-228	P18-40C-217950	NONE	482950.61	1351218	11/19/96	1.11	0.14		pCi/g	1.15	0.14	J	pCi/g	
P18-40	R	Thorium-228	P18-40C-233817	NONE	482817.54	1351234	11/19/96	1.09	0.10		pCi/g	1.13	0.10	-	pCi/g	
P18-40	R	Thorium-228	P18-40C-233817-D	NONE	482817.54	1351234	11/19/96	1.07	0.09		pCi/g	1.11	0.09	-	pCi/g	P18-40C-233817
P18-40	R	Thorium-228	P18-40C-238686	NONE	482686.39	1351238	11/26/96	1.70	0.64		pCi/g	1.70	0.64	J	pCi/g	
P18-40	R	Thorium-228	P18-40C-294716	NONE	482716.79	1351295	11/19/96	1.19	0.10		pCi/g	1.22	0.10	-	pCi/g	
P18-40	R	Thorium-228	P18-40C-333930	NONE	482930.52	1351334	11/19/96	1.60	0.59		pCi/g	1.58	0.59	-	pCi/g	
P18-40	R	Thorium-228	P18-40C-343874	NONE	482874.71	1351344	11/19/96	1.04	0.10		pCi/g	1.08	0.10	-	pCi/g	
P18-40	R	Thorium-228	P18-40C-345749	NONE	482749.47	1351346	11/19/96	0.77	0.08		pCi/g	0.82	0.07	J	pCi/g	
P18-40	R	Thorium-228	P18-40C-399613	NONE	482613.35	1351400	11/26/96	1.80	0.68		pCi/g	1.81	0.68	-	pCi/g	
P18-40	R	Thorium-232	P18-40C-057710	NONE	482710.4	1351058	11/26/96	1.00	0.22		pCi/g	1.04	0.22	-	pCi/g	
P18-40	R	Thorium-232	P18-40C-082930	NONE	482930.57	1351083	11/19/96	0.98	0.08		pCi/g	0.97	0.08	-	pCi/g	
P18-40	R	Thorium-232	P18-40C-097665	NONE	482665.73	1351097	11/22/96	1.00	0.47		pCi/g	1.00	0.47	J	pCi/g	
P18-40	R	Thorium-232	P18-40C-121992	NONE	482992.31	1351122	11/19/96	1.20	0.50		pCi/g	1.15	0.50	-	pCi/g	
P18-40	R	Thorium-232	P18-40C-133834	NONE	482834.3	1351134	11/19/96	0.90	0.09		pCi/g	0.90	0.09	J	pCi/g	
P18-40	R	Thorium-232	P18-40C-142613	NONE	482613.35	1351143	11/22/96	1.00	0.44		pCi/g	1.00	0.44	J	pCi/g	
P18-40	R	Thorium-232	P18-40C-217950	NONE	482950.61	1351218	11/19/96	0.99	0.12		pCi/g	0.99	0.12	J	pCi/g	
P18-40	R	Thorium-232	P18-40C-233817	NONE	482817.54	1351234	11/19/96	1.18	0.10		pCi/g	1.17	0.10	-	pCi/g	
P18-40	R	Thorium-232	P18-40C-233817-D	NONE	482817.54	1351234	11/19/96	1.17	0.09		pCi/g	1.16	0.09	-	pCi/g	P18-40C-233817
P18-40	R	Thorium-232	P18-40C-238686	NONE	482686.39	1351238	11/26/96	1.40	0.52		pCi/g	1.40	0.52	J	pCi/g	
P18-40	R	Thorium-232	P18-40C-294716	NONE	482716.79	1351295	11/19/96	1.23	0.10		pCi/g	1.23	0.10	-	pCi/g	
P18-40	R	Thorium-232	P18-40C-333930	NONE	482930.52	1351334	11/19/96	1.30	0.48		pCi/g	1.29	0.48	-	pCi/g	
P18-40	R	Thorium-232	P18-40C-343874	NONE	482874.71	1351344	11/19/96	1.17	0.10		pCi/g	1.16	0.10	-	pCi/g	
P18-40	R	Thorium-232	P18-40C-345749	NONE	482749.47	1351346	11/19/96	0.77	0.67		pCi/g	0.76	0.07	J	pCi/g	
P18-40	R	Thorium-232	P18-40C-399613	NONE	482613.35	1351400	11/26/96	1.40	0.53		pCi/g	1.39	0.53	-	pCi/g	
P18-40	R	Uranium, Total	P18-40C-057710	NONE	482710.4	1351058	11/26/96				ug/g	11.90	3.12	-	ug/g	
P18-40	R	Uranium, Total	P18-40C-082930	NONE	482930.57	1351083	11/19/96				ug/g	10.20		U	ug/g	
P18-40	R	Uranium, Total	P18-40C-097665	NONE	482665.73	1351097	11/22/96				ug/g	7.20	2.25	-	ug/g	
P18-40	R	Uranium, Total	P18-40C-121992	NONE	482992.31	1351122	11/19/96				ug/g	2.67	1.39	J	ug/g	
P18-40	R	Uranium, Total	P18-40C-133834	NONE	482834.3	1351134	11/19/96				ug/g	22.22	13.19	J	ug/g	
P18-40	R	Uranium, Total	P18-40C-142613	NONE	482613.35	1351143	11/22/96				ug/g	2.82		U	ug/g	
P18-40	R	Uranium, Total	P18-40C-217950	NONE	482950.61	1351218	11/19/96				ug/g	11.10		U	ug/g	

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CU Name	CU Type	Parameter	Sample ID	Suffix	Northing	Easting	Sample Date	Laboratory Data				Validation Data				Duplicate of
								Lab Result	TPU	Qualifier	Units	Val. Result	TPU	Qualifier	Units	
P18-40	R	Uranium, Total	P18-40C-233817	NONE	482817.54	1351234	11/19/96				ug/g	36.88	11.69	-	ug/g	
P18-40	R	Uranium, Total	P18-40C-233817-D	NONE	482817.54	1351234	11/19/96				ug/g	30.89	11.99	-	ug/g	P18-40C-233817
P18-40	R	Uranium, Total	P18-40C-238686	NONE	482686.39	1351238	11/26/96				ug/g	9.60	2.55	-	ug/g	
P18-40	R	Uranium, Total	P18-40C-294716	NONE	482716.79	1351295	11/19/96				ug/g	41.38	11.39	-	ug/g	
P18-40	R	Uranium, Total	P18-40C-333930	NONE	482930.52	1351334	11/19/96				ug/g	4.43	2.30	J	ug/g	
P18-40	R	Uranium, Total	P18-40C-343874	NONE	482874.71	1351344	11/19/96				ug/g	9.60		U	ug/g	
P18-40	R	Uranium, Total	P18-40C-345749	NONE	482749.47	1351346	11/19/96				ug/g	10.50		U	ug/g	
P18-40	R	Uranium, Total	P18-40C-399613	NONE	482613.35	1351400	11/26/96				ug/g	7.02	2.76	-	ug/g	
P18-40	R	Uranium-238	P18-40C-057710	NONE	482710.4	1351058	11/26/96	4.00	1.00		pCi/g	3.97	1.04	-	pCi/g	
P18-40	R	Uranium-238	P18-40C-082930	NONE	482930.57	1351083	11/19/96	2.89	2.10	U	pCi/g	3.40		U	pCi/g	
P18-40	R	Uranium-238	P18-40C-097665	NONE	482665.73	1351097	11/22/96	2.40	0.75		pCi/g	2.40	0.75	-	pCi/g	
P18-40	R	Uranium-238	P18-40C-121992	NONE	482992.31	1351122	11/19/96	0.89	0.46		pCi/g	0.89	0.46	J	pCi/g	
P18-40	R	Uranium-238	P18-40C-133834	NONE	482834.3	1351134	11/19/96	7.41	4.40		pCi/g	7.41	4.40	J	pCi/g	
P18-40	R	Uranium-238	P18-40C-142613	NONE	482613.35	1351143	11/22/96	0.90	0.58	U	pCi/g	0.94		U	pCi/g	
P18-40	R	Uranium-238	P18-40C-217950	NONE	482950.61	1351218	11/19/96	1.59	2.30	U	pCi/g	3.70		U	pCi/g	
P18-40	R	Uranium-238	P18-40C-233817	NONE	482817.54	1351234	11/19/96	12.30	3.90		pCi/g	12.30	3.90	-	pCi/g	
P18-40	R	Uranium-238	P18-40C-233817-D	NONE	482817.54	1351234	11/19/96	10.30	4.00		pCi/g	10.30	4.00	-	pCi/g	P18-40C-233817
P18-40	R	Uranium-238	P18-40C-238686	NONE	482686.39	1351238	11/26/96	3.20	0.85		pCi/g	3.20	0.85	-	pCi/g	
P18-40	R	Uranium-238	P18-40C-294716	NONE	482716.79	1351295	11/19/96	13.80	3.80		pCi/g	13.80	3.80	-	pCi/g	
P18-40	R	Uranium-238	P18-40C-333930	NONE	482930.52	1351334	11/19/96	1.50	0.77		pCi/g	1.48	0.77	J	pCi/g	
P18-40	R	Uranium-238	P18-40C-343874	NONE	482874.71	1351344	11/19/96	2.22	2.00	U	pCi/g	3.20		U	pCi/g	
P18-40	R	Uranium-238	P18-40C-345749	NONE	482749.47	1351346	11/19/96	2.59	2.20	U	pCi/g	3.50		U	pCi/g	
P18-40	R	Uranium-238	P18-40C-399613	NONE	482613.35	1351400	11/26/96	2.30	0.92		pCi/g	2.34	0.92	-	pCi/g	
P19	M	Arsenic	P19C-033360	NONE	483360	1351033	1/8/97	7.50			mg/kg	7.50		-	mg/kg	
P19	M	Arsenic	P19C-037553	NONE	483553	1351037	1/28/97	5.80			mg/kg	5.80		-	mg/kg	
P19	M	Arsenic	P19C-267676	NONE	483676.1	1351268	1/15/97	8.30			mg/kg	8.30		-	mg/kg	
P19	M	Arsenic	P19C-270410	NONE	483410.72	1351270	1/28/97	7.30			mg/kg	7.30		-	mg/kg	
P19	M	Arsenic	P19C-707586	NONE	483586.94	1350707	1/14/97	8.10			mg/kg	8.10		J	mg/kg	
P19	M	Arsenic	P19C-866450	NONE	483450	1350866	1/8/97	7.80			mg/kg	7.80		-	mg/kg	
P19	M	Arsenic	P19C-889299	NONE	483299.82	1350889	1/8/97	4.50			mg/kg	4.50		J	mg/kg	
P19	M	Arsenic	P19C-951174	NONE	483174.37	1350952	1/8/97	7.90			mg/kg	7.90		-	mg/kg	
P19	M	Arsenic	P19C2-M-1	NONE	483096.64	1350643	3/14/97	5.00			mg/kg	5.00		U	mg/kg	
P19	M	Arsenic	P19C2-M-2	NONE	483780.45	1351031	3/14/97	7.30			mg/kg	7.30		-	mg/kg	
P19	M	Arsenic	P19C2-M-3	NONE	483544.9	1351226	3/14/97	5.40			mg/kg	5.40		U	mg/kg	
P19	M	Arsenic	P19C2-M-4	NONE	483415.13	1350632	3/14/97	8.40			mg/kg	8.40		-	mg/kg	
P19	M	Arsenic	P19C2-M-5	NONE	483598.46	1350910	3/14/97	6.30			mg/kg	6.30		-	mg/kg	
P19	M	Beryllium	P19C-033360	NONE	483360	1351033	1/8/97	0.86			mg/kg	0.86		U	mg/kg	
P19	M	Beryllium	P19C-037553	NONE	483553	1351037	1/28/97	0.88			mg/kg	0.88		U	mg/kg	
P19	M	Beryllium	P19C-267676	NONE	483676.1	1351268	1/15/97	0.93			mg/kg	0.93		U	mg/kg	

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								Laboratory Data				Validation Data				
CU Name	CU Type	Parameter	Sample ID	Suffix	Northing	Easting	Sample Date	Lab Result	TPU	Qualifier	Units	Val. Result	TPU	Qualifier	Units	Duplicate of
P19	M	Beryllium	P19C-270410	NONE	483410.72	1351270	1/28/97	0.52		B	mg/kg	0.52		U	mg/kg	
P19	M	Beryllium	P19C-707586	NONE	483586.94	1350707	1/14/97	1.10			mg/kg	1.10		U	mg/kg	
P19	M	Beryllium	P19C-866450	NONE	483450	1350866	1/8/97	1.00			mg/kg	1.00		U	mg/kg	
P19	M	Beryllium	P19C-889299	NONE	483299.82	1350889	1/8/97	0.30		B	mg/kg	0.30		U	mg/kg	
P19	M	Beryllium	P19C-951174	NONE	483174.37	1350952	1/8/97	0.82			mg/kg	0.82		U	mg/kg	
P19	M	Beryllium	P19C2-M-1	NONE	483096.64	1350643	3/14/97	0.40		B	mg/kg	0.40		-	mg/kg	
P19	M	Beryllium	P19C2-M-2	NONE	483780.45	1351031	3/14/97	1.20			mg/kg	1.20		-	mg/kg	
P19	M	Beryllium	P19C2-M-3	NONE	483544.9	1351226	3/14/97	0.65		B	mg/kg	0.65		-	mg/kg	
P19	M	Beryllium	P19C2-M-4	NONE	483415.13	1350632	3/14/97	1.10			mg/kg	1.10		-	mg/kg	
P19	M	Beryllium	P19C2-M-5	NONE	483598.46	1350910	3/14/97	1.20			mg/kg	1.20		-	mg/kg	
P19	R	Moisture Content	P19C-653510	NONE	483510.73	1350654	1/14/97	23.39			Percent			NV	Percent	
P19	R	Moisture Content	P19C-716011	NONE	483011.3	1350716	1/8/97	23.60			Percent	23.60		NV	Percent	
P19	R	Moisture Content	P19C-734514	NONE	483514.35	1350735	1/14/97	25.26			Percent			NV	Percent	
P19	R	Moisture Content	P19C-796728	NONE	483728	1350796	1/14/97	26.66			Percent			NV	Percent	
P19	R	Moisture Content	P19C-804489	NONE	483489.54	1350804	1/14/97	19.58			Percent			NV	Percent	
P19	R	Moisture Content	P19C-832239	NONE	483239.48	1350833	1/8/97	27.27			Percent	27.27		NV	Percent	
P19	R	Moisture Content	P19C-871099	NONE	483099.36	1350871	1/8/97	24.59			Percent	24.59		NV	Percent	
P19	R	Moisture Content	P19C-899672	NONE	483672.24	1350899	1/14/97	26.12			Percent			NV	Percent	
P19	R	Moisture Content	P19C-902256	NONE	483256.28	1350902	1/8/97	26.86			Percent	26.86		NV	Percent	
P19	R	Moisture Content	P19C-902785	NONE	483785	1350902	1/15/97	20.58			Percent			NV	Percent	
P19	R	Moisture Content	P19C-923140	NONE	483140.25	1350923	1/8/97	26.79			Percent	26.79		NV	Percent	
P19	R	Moisture Content	P19C-998543	NONE	483543.33	1350998	1/14/97	23.75			Percent			NV	Percent	
P19	R	Radium-226	P19C-653510	NONE	483510.73	1350654	1/14/97	1.10	0.16		pCi/g	1.08	0.16	-	pCi/g	
P19	R	Radium-226	P19C-716011	NONE	483011.3	1350716	1/8/97	1.00	0.16		pCi/g	1.02	0.16	-	pCi/g	
P19	R	Radium-226	P19C-734514	NONE	483514.35	1350735	1/14/97	1.00	0.16		pCi/g	1.02	0.16	-	pCi/g	
P19	R	Radium-226	P19C-796728	NONE	483728	1350796	1/14/97	1.10	0.18		pCi/g	1.13	0.18	-	pCi/g	
P19	R	Radium-226	P19C-804489	NONE	483489.54	1350804	1/14/97	0.91	0.13		pCi/g	0.91	0.13	-	pCi/g	
P19	R	Radium-226	P19C-832239	NONE	483239.48	1350833	1/8/97	1.10	0.16		pCi/g	1.07	0.16	-	pCi/g	
P19	R	Radium-226	P19C-871099	NONE	483099.36	1350871	1/8/97	1.20	0.22		pCi/g	1.21	0.22	-	pCi/g	
P19	R	Radium-226	P19C-899672	NONE	483672.24	1350899	1/14/97	0.96	0.14		pCi/g	0.96	0.14	-	pCi/g	
P19	R	Radium-226	P19C-902256	NONE	483256.28	1350902	1/8/97	1.20	0.17		pCi/g	1.16	0.17	-	pCi/g	
P19	R	Radium-226	P19C-902785	NONE	483785	1350902	1/15/97	0.98	0.16		pCi/g	0.98	0.16	-	pCi/g	
P19	R	Radium-226	P19C-923140	NONE	483140.25	1350923	1/8/97	1.20	0.16		pCi/g	1.15	0.16	-	pCi/g	
P19	R	Radium-226	P19C-998543	NONE	483543.33	1350998	1/14/97	1.10	0.20		pCi/g	1.08	0.20	-	pCi/g	
P19	R	Radium-228	P19C-653510	NONE	483510.73	1350654	1/14/97	1.20	0.23		pCi/g	1.21	0.23	-	pCi/g	
P19	R	Radium-228	P19C-716011	NONE	483011.3	1350716	1/8/97	1.30	0.27		pCi/g	1.33	0.27	-	pCi/g	
P19	R	Radium-228	P19C-734514	NONE	483514.35	1350735	1/14/97	1.10	0.23		pCi/g	1.14	0.23	-	pCi/g	
P19	R	Radium-228	P19C-796728	NONE	483728	1350796	1/14/97	1.30	0.27		pCi/g	1.27	0.27	-	pCi/g	
P19	R	Radium-228	P19C-804489	NONE	483489.54	1350804	1/14/97	1.20	0.21		pCi/g	1.22	0.21	-	pCi/g	
P19	R	Radium-228	P19C-832239	NONE	483239.48	1350833	1/8/97	1.30	0.22		pCi/g	1.26	0.22	-	pCi/g	

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							Laboratory Data				Validation Data				
CU Name	CU Type	Parameter	Sample ID	Suffix	Northing	Easting	Sample Date	Lab Result	TPU	Qualifier	Units	Val. Result	TPU	Qualifier	Units	Duplicate of
P19	R	Radium-228	P19C-871099	NONE	483099.36	1350871	1/8/97	1.30	0.22		pCi/g	1.33	0.22	-	pCi/g	
P19	R	Radium-228	P19C-899672	NONE	483672.24	1350899	1/14/97	1.20	0.22		pCi/g	1.21	0.22	-	pCi/g	
P19	R	Radium-228	P19C-902256	NONE	483256.28	1350902	1/8/97	0.97	0.23		pCi/g	0.97	0.23	-	pCi/g	
P19	R	Radium-228	P19C-902785	NONE	483785	1350902	1/15/97	1.30	0.25		pCi/g	1.26	0.25	-	pCi/g	
P19	R	Radium-228	P19C-923140	NONE	483140.25	1350923	1/8/97	1.20	0.23		pCi/g	1.23	0.23	-	pCi/g	
P19	R	Radium-228	P19C-998543	NONE	483543.33	1350998	1/14/97	1.20	0.23		pCi/g	1.20	0.23	-	pCi/g	
P19	R	Thorium-228	P19C-653510	NONE	483510.73	1350654	1/14/97	1.40	0.28		pCi/g	1.58	0.28	-	pCi/g	
P19	R	Thorium-228	P19C-716011	NONE	483011.3	1350716	1/8/97	1.20	0.31		pCi/g	1.42	0.29	-	pCi/g	
P19	R	Thorium-228	P19C-734514	NONE	483514.35	1350735	1/14/97	1.00	0.31		pCi/g	1.56	0.30	-	pCi/g	
P19	R	Thorium-228	P19C-796728	NONE	483728	1350796	1/14/97	0.88	0.31		pCi/g	1.39	0.30	-	pCi/g	
P19	R	Thorium-228	P19C-804489	NONE	483489.54	1350804	1/14/97	1.00	0.33		pCi/g	1.28	0.33	-	pCi/g	
P19	R	Thorium-228	P19C-832239	NONE	483239.48	1350833	1/8/97	1.80	0.38		pCi/g	1.99	0.38	Z	pCi/g	
P19	R	Thorium-228	P19C-832239	RE	483239.48	1350833	1/8/97	1.10	0.26		pCi/g	1.12	0.25	-	pCi/g	
P19	R	Thorium-228	P19C-871099	NONE	483099.36	1350871	1/8/97	0.76	0.24		pCi/g	0.99	0.22	J	pCi/g	
P19	R	Thorium-228	P19C-899672	NONE	483672.24	1350899	1/14/97	0.93	0.31		pCi/g	1.44	0.30	-	pCi/g	
P19	R	Thorium-228	P19C-902256	NONE	483256.28	1350902	1/8/97	0.97	0.29		pCi/g	1.21	0.28	-	pCi/g	
P19	R	Thorium-228	P19C-902785	NONE	483785	1350902	1/15/97	1.00	0.33		pCi/g	1.42	0.33	-	pCi/g	
P19	R	Thorium-228	P19C-923140	NONE	483140.25	1350923	1/8/97	1.10	0.32		pCi/g	1.30	0.31	-	pCi/g	
P19	R	Thorium-228	P19C-998543	NONE	483543.33	1350998	1/14/97	1.10	0.41		pCi/g	1.53	0.42	-	pCi/g	
P19	R	Thorium-232	P19C-653510	NONE	483510.73	1350654	1/14/97	1.10	0.21		pCi/g	1.09	0.21	-	pCi/g	
P19	R	Thorium-232	P19C-716011	NONE	483011.3	1350716	1/8/97	1.20	0.24		pCi/g	1.16		-	pCi/g	
P19	R	Thorium-232	P19C-734514	NONE	483514.35	1350735	1/14/97	1.00	0.22		pCi/g	1.07	0.22	-	pCi/g	
P19	R	Thorium-232	P19C-796728	NONE	483728	1350796	1/14/97	1.60	0.32		pCi/g	1.62	0.32	-	pCi/g	
P19	R	Thorium-232	P19C-804489	NONE	483489.54	1350804	1/14/97	0.84	0.23		pCi/g	0.88	0.23	-	pCi/g	
P19	R	Thorium-232	P19C-832239	NONE	483239.48	1350833	1/8/97	0.92	0.20		pCi/g	0.94		Z	pCi/g	
P19	R	Thorium-232	P19C-832239	RE	483239.48	1350833	1/8/97	0.94	0.22		pCi/g	0.96	0.22	-	pCi/g	
P19	R	Thorium-232	P19C-871099	NONE	483099.36	1350871	1/8/97	1.10	0.22		pCi/g	1.13		J	pCi/g	
P19	R	Thorium-232	P19C-899672	NONE	483672.24	1350899	1/14/97	1.10	0.23		pCi/g	1.10	0.23	-	pCi/g	
P19	R	Thorium-232	P19C-902256	NONE	483256.28	1350902	1/8/97	1.10	0.24		pCi/g	1.13		-	pCi/g	
P19	R	Thorium-232	P19C-902785	NONE	483785	1350902	1/15/97	1.20	0.27		pCi/g	1.24	0.27	-	pCi/g	
P19	R	Thorium-232	P19C-923140	NONE	483140.25	1350923	1/8/97	0.96	0.22		pCi/g	0.98		-	pCi/g	
P19	R	Thorium-232	P19C-998543	NONE	483543.33	1350998	1/14/97	1.00	0.30		pCi/g	1.06	0.30	-	pCi/g	
P19	R	Uranium, Total	P19C-653510	NONE	483510.73	1350654	1/14/97				ug/g	19.37	5.19	-	ug/g	
P19	R	Uranium, Total	P19C-716011	NONE	483011.3	1350716	1/8/97				ug/g	17.86		-	ug/g	
P19	R	Uranium, Total	P19C-734514	NONE	483514.35	1350735	1/14/97				ug/g	23.21	6.49	-	ug/g	
P19	R	Uranium, Total	P19C-796728	NONE	483728	1350796	1/14/97				ug/g	23.62	6.78	-	ug/g	
P19	R	Uranium, Total	P19C-804489	NONE	483489.54	1350804	1/14/97				ug/g	23.47	4.94	-	ug/g	
P19	R	Uranium, Total	P19C-832239	NONE	483239.48	1350833	1/8/97				ug/g	38.11		-	ug/g	
P19	R	Uranium, Total	P19C-871099	NONE	483099.36	1350871	1/8/97				ug/g	18.50		-	ug/g	
P19	R	Uranium, Total	P19C-899672	NONE	483672.24	1350899	1/14/97				ug/g	21.02	4.76	-	ug/g	

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								Laboratory Data				Validation Data				
CU Name	CU Type	Parameter	Sample ID	Suffix	Northing	Easting	Sample Date	Lab Result	TPU	Qualifier	Units	Val. Result	TPU	Qualifier	Units	Duplicate of
P19	R	Uranium, Total	P19C-902256	NONE	483256.28	1350902	1/8/97				ug/g	20.21		-	ug/g	
P19	R	Uranium, Total	P19C-902785	NONE	483785	1350902	1/15/97				ug/g	17.97	5.72	-	ug/g	
P19	R	Uranium, Total	P19C-923140	NONE	483140.25	1350923	1/8/97				ug/g	28.93		-	ug/g	
P19	R	Uranium, Total	P19C-998543	NONE	483543.33	1350998	1/14/97				ug/g	24.23	6.10	-	ug/g	
P19	R	Uranium-238	P19C-653510	NONE	483510.73	1350654	1/14/97	6.50	1.70		pCi/g	6.46	1.73	-	pCi/g	
P19	R	Uranium-238	P19C-716011	NONE	483011.3	1350716	1/8/97	6.00	2.10		pCi/g	5.96		-	pCi/g	
P19	R	Uranium-238	P19C-734514	NONE	483514.35	1350735	1/14/97	7.70	2.20		pCi/g	7.74	2.16	-	pCi/g	
P19	R	Uranium-238	P19C-796728	NONE	483728	1350796	1/14/97	7.90	2.30		pCi/g	7.88	2.26	-	pCi/g	
P19	R	Uranium-238	P19C-804489	NONE	483489.54	1350804	1/14/97	7.80	1.70		pCi/g	7.83	1.65	-	pCi/g	
P19	R	Uranium-238	P19C-832239	NONE	483239.48	1350833	1/8/97	13.00	2.60		pCi/g	12.71		-	pCi/g	
P19	R	Uranium-238	P19C-871099	NONE	483099.36	1350871	1/8/97	6.20	1.80		pCi/g	6.17		-	pCi/g	
P19	R	Uranium-238	P19C-899672	NONE	483672.24	1350899	1/14/97	7.00	1.60		pCi/g	7.01	1.59	-	pCi/g	
P19	R	Uranium-238	P19C-902256	NONE	483256.28	1350902	1/8/97	6.70	1.80		pCi/g	6.74		-	pCi/g	
P19	R	Uranium-238	P19C-902785	NONE	483785	1350902	1/15/97	6.00	1.90		pCi/g	5.99	1.91	-	pCi/g	
P19	R	Uranium-238	P19C-923140	NONE	483140.25	1350923	1/8/97	9.60	2.20		pCi/g	9.65		-	pCi/g	
P19	R	Uranium-238	P19C-998543	NONE	483543.33	1350998	1/14/97	8.10	2.00		pCi/g	8.08	2.04	-	pCi/g	
P19-20	R	Moisture Content	P19-20C-1-R	NONE	483039	1351128	2/24/97	14.20			Percent			NV	Percent	
P19-20	R	Moisture Content	P19-20C-1-R-D	NONE	483039	1351128	2/24/97	13.14			Percent			NV	Percent	P19-20C-1-R
P19-20	R	Moisture Content	P19-20C-10-R	NONE	483231	1351257	2/24/97	22.78			Percent			NV	Percent	
P19-20	R	Moisture Content	P19-20C-11-R	NONE	483248	1351281	2/24/97	19.72			Percent			NV	Percent	
P19-20	R	Moisture Content	P19-20C-12-R	NONE	483260	1351346	2/24/97	19.25			Percent			NV	Percent	
P19-20	R	Moisture Content	P19-20C-13-R	NONE	483264	1351364	2/24/97	21.96			Percent			NV	Percent	
P19-20	R	Moisture Content	P19-20C-14-R	NONE	483330	1351305	2/24/97	19.16			Percent			NV	Percent	
P19-20	R	Moisture Content	P19-20C-15-R	NONE	483374	1351355	2/24/97	17.69			Percent			NV	Percent	
P19-20	R	Moisture Content	P19-20C-151040	NONE	483040.33	1351152	11/19/96	15.40			Percent			NV	Percent	
P19-20	R	Moisture Content	P19-20C-16-R	NONE	483339	1351362	11/19/96	15.50			Percent			NV	Percent	
P19-20	R	Moisture Content	P19-20C-190103	NONE	483103.34	1351191	11/19/96	18.10			Percent			NV	Percent	
P19-20	R	Moisture Content	P19-20C-297039	NONE	483039.64	1351298	11/19/96	15.10			Percent			NV	Percent	
P19-20	R	Moisture Content	P19-20C-367150	NONE	483149.45	1351368	11/19/96	14.30			Percent			NV	Percent	
P19-20	R	Moisture Content	P19-20C-377016	NONE	483016.51	1351378	11/19/96	20.30			Percent			NV	Percent	
P19-20	R	Moisture Content	P19-20C-4-R	NONE	483014	1351335	2/24/97	15.81			Percent			NV	Percent	
P19-20	R	Moisture Content	P19-20C-5-R	NONE	483033	1351387	2/24/97	16.74			Percent			NV	Percent	
P19-20	R	Moisture Content	P19-20C-6-R	NONE	483164	1351213	2/24/97	17.82			Percent			NV	Percent	
P19-20	R	Moisture Content	P19-20C-8-R	NONE	483120	1351300	2/24/97	14.92			Percent			NV	Percent	
P19-20	R	Moisture Content	P19-20C-9-R	NONE	483143	1351372	2/24/97	14.79			Percent			NV	Percent	
P19-20	R	Radium-226	P19-20C-1-R	NONE	483039	1351128	2/24/97	1.00	0.16		pCi/g	1.00	0.16	-	pCi/g	
P19-20	R	Radium-226	P19-20C-1-R-D	NONE	483039	1351128	2/24/97	0.95	0.16		pCi/g	0.95	0.15	-	pCi/g	P19-20C-1-R
P19-20	R	Radium-226	P19-20C-10-R	NONE	483231	1351257	2/24/97	1.30	0.22		pCi/g	1.30	0.22	-	pCi/g	
P19-20	R	Radium-226	P19-20C-11-R	NONE	483248	1351281	2/24/97	1.20	0.21		pCi/g	1.20	0.21	-	pCi/g	

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								Laboratory Data				Validation Data				
CU Name	CU Type	Parameter	Sample ID	Suffix	Northing	Easting	Sample Date	Lab Result	TPU	Qualifier	Units	Val. Result	TPU	Qualifier	Units	Duplicate of
P19-20	R	Radium-226	P19-20C-12-R	NONE	483260	1351346	2/24/97	1.10	0.19		pCi/g	1.10	0.19	-	pCi/g	
P19-20	R	Radium-226	P19-20C-13-R	NONE	483264	1351364	2/24/97	1.20	0.20		pCi/g	1.20	0.20	-	pCi/g	
P19-20	R	Radium-226	P19-20C-14-R	NONE	483330	1351305	2/24/97	1.20	0.18		pCi/g	1.20	0.18	-	pCi/g	
P19-20	R	Radium-226	P19-20C-15-R	NONE	483374	1351355	2/24/97	1.10	0.17		pCi/g	1.10	0.17	-	pCi/g	
P19-20	R	Radium-226	P19-20C-151040	NONE	483040.33	1351152	11/19/96	1.18	0.35		pCi/g	1.18	0.35	-	pCi/g	
P19-20	R	Radium-226	P19-20C-16-R	NONE	483339	1351362	11/19/96	1.50	0.15		pCi/g	1.46	0.15	-	pCi/g	
P19-20	R	Radium-226	P19-20C-190103	NONE	483103.34	1351191	11/19/96	1.44	0.37		pCi/g	1.44	0.37	-	pCi/g	
P19-20	R	Radium-226	P19-20C-213195	NONE	483195.52	1351214	11/19/96	1.30	0.28		pCi/g	1.30	0.28	-	pCi/g	
P19-20	R	Radium-226	P19-20C-297039	NONE	483039.64	1351298	11/19/96	1.06	0.23		pCi/g	1.06	0.23	-	pCi/g	
P19-20	R	Radium-226	P19-20C-367150	NONE	483149.45	1351368	11/19/96	1.14	0.23		pCi/g	1.14	0.23	-	pCi/g	
P19-20	R	Radium-226	P19-20C-377016	NONE	483016.51	1351378	11/19/96	1.18	0.25		pCi/g	1.18	0.25	-	pCi/g	
P19-20	R	Radium-226	P19-20C-4-R	NONE	483014	1351335	2/24/97	0.98	0.19		pCi/g	0.98	0.19	-	pCi/g	
P19-20	R	Radium-226	P19-20C-5-R	NONE	483033	1351387	2/24/97	1.10	0.17		pCi/g	1.10	0.17	-	pCi/g	
P19-20	R	Radium-226	P19-20C-6-R	NONE	483164	1351213	2/24/97	1.30	0.22		pCi/g	1.30	0.22	-	pCi/g	
P19-20	R	Radium-226	P19-20C-8-R	NONE	483120	1351300	2/24/97	1.10	0.18		pCi/g	1.10	0.18	-	pCi/g	
P19-20	R	Radium-226	P19-20C-9-R	NONE	483143	1351372	2/24/97	1.00	0.17		pCi/g	1.00	0.17	-	pCi/g	
P19-20	R	Radium-228	P19-20C-1-R	NONE	483039	1351128	2/24/97	1.00	0.22		pCi/g	1.00	0.22	-	pCi/g	
P19-20	R	Radium-228	P19-20C-1-R-D	NONE	483039	1351128	2/24/97	0.97	0.23		pCi/g	0.97	0.23	-	pCi/g	P19-20C-1-R
P19-20	R	Radium-228	P19-20C-10-R	NONE	483231	1351257	2/24/97	1.20	0.30		pCi/g	1.20	0.30	-	pCi/g	
P19-20	R	Radium-228	P19-20C-11-R	NONE	483248	1351281	2/24/97	1.30	0.32		pCi/g	1.30	0.32	-	pCi/g	
P19-20	R	Radium-228	P19-20C-12-R	NONE	483260	1351346	2/24/97	1.00	0.30		pCi/g	1.00	0.30	-	pCi/g	
P19-20	R	Radium-228	P19-20C-13-R	NONE	483264	1351364	2/24/97	1.10	0.27		pCi/g	1.10	0.27	-	pCi/g	
P19-20	R	Radium-228	P19-20C-14-R	NONE	483330	1351305	2/24/97	1.20	0.28		pCi/g	1.20	0.28	-	pCi/g	
P19-20	R	Radium-228	P19-20C-15-R	NONE	483374	1351355	2/24/97	1.10	0.22		pCi/g	1.10	0.22	-	pCi/g	
P19-20	R	Radium-228	P19-20C-151040	NONE	483040.33	1351152	11/19/96	0.74	0.44		pCi/g	0.74	0.44	J	pCi/g	
P19-20	R	Radium-228	P19-20C-16-R	NONE	483339	1351362	11/19/96	1.40	0.36		pCi/g	1.40	0.36	-	pCi/g	
P19-20	R	Radium-228	P19-20C-190103	NONE	483103.34	1351191	11/19/96	1.30	0.64		pCi/g	1.30	0.64	-	pCi/g	
P19-20	R	Radium-228	P19-20C-213195	NONE	483195.52	1351214	11/19/96	1.06	0.47		pCi/g	1.06	0.47	-	pCi/g	
P19-20	R	Radium-228	P19-20C-297039	NONE	483039.64	1351298	11/19/96	0.91	0.41		pCi/g	0.91	0.41	-	pCi/g	
P19-20	R	Radium-228	P19-20C-367150	NONE	483149.45	1351368	11/19/96	1.29	0.48		pCi/g	1.29	0.48	-	pCi/g	
P19-20	R	Radium-228	P19-20C-377016	NONE	483016.51	1351378	11/19/96	1.40	0.52		pCi/g	1.40	0.52	-	pCi/g	
P19-20	R	Radium-228	P19-20C-4-R	NONE	483014	1351335	2/24/97	1.10	0.28		pCi/g	1.10	0.28	-	pCi/g	
P19-20	R	Radium-228	P19-20C-5-R	NONE	483033	1351387	2/24/97	1.10	0.24		pCi/g	1.10	0.24	-	pCi/g	
P19-20	R	Radium-228	P19-20C-6-R	NONE	483164	1351213	2/24/97	1.30	0.34		pCi/g	1.30	0.34	-	pCi/g	
P19-20	R	Radium-228	P19-20C-8-R	NONE	483120	1351300	2/24/97	0.96	0.25		pCi/g	0.96	0.25	-	pCi/g	
P19-20	R	Radium-228	P19-20C-9-R	NONE	483143	1351372	2/24/97	0.85	0.23		pCi/g	0.85	0.23	-	pCi/g	
P19-20	R	Thorium-228	P19-20C-1-R	NONE	483039	1351128	2/24/97	0.90	0.24		pCi/g	0.90	0.22	J	pCi/g	
P19-20	R	Thorium-228	P19-20C-1-R-D	NONE	483039	1351128	2/24/97	0.97	0.30		pCi/g	0.97	0.27	J	pCi/g	P19-20C-1-R
P19-20	R	Thorium-228	P19-20C-10-R	NONE	483231	1351257	2/24/97	1.20	0.32		pCi/g	1.15	0.29	J	pCi/g	
P19-20	R	Thorium-228	P19-20C-11-R	NONE	483248	1351281	2/24/97	1.10	0.32		pCi/g	1.08	0.28	J	pCi/g	

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								Laboratory Data				Validation Data				
CU Name	CU Type	Parameter	Sample ID	Suffix	Northing	Easting	Sample Date	Lab Result	TPU	Qualifier	Units	Val. Result	TPU	Qualifier	Units	Duplicate of
P19-20	R	Thorium-228	P19-20C-12-R	NONE	483260	1351346	2/24/97	1.30	0.32		pCi/g	1.30	0.29	J	pCi/g	
P19-20	R	Thorium-228	P19-20C-13-R	NONE	483264	1351364	2/24/97	1.20	0.28		pCi/g	1.15	0.24	J	pCi/g	
P19-20	R	Thorium-228	P19-20C-14-R	NONE	483330	1351305	2/24/97	1.20	0.29		pCi/g	1.21	0.25	J	pCi/g	
P19-20	R	Thorium-228	P19-20C-15-R	NONE	483374	1351355	2/24/97	1.40	0.29		pCi/g	1.39	0.27	J	pCi/g	
P19-20	R	Thorium-228	P19-20C-151040	NONE	483040.33	1351152	11/19/96	1.08	0.10		pCi/g	1.12	0.10	-	pCi/g	
P19-20	R	Thorium-228	P19-20C-16-R	NONE	483339	1351362	11/19/96	1.60	0.66		pCi/g	1.63	0.67	-	pCi/g	
P19-20	R	Thorium-228	P19-20C-190103	NONE	483103.34	1351191	11/19/96	1.32	0.12		pCi/g	1.36	0.12	-	pCi/g	
P19-20	R	Thorium-228	P19-20C-213195	NONE	483195.52	1351214	11/19/96	1.15	0.11		pCi/g	1.19	0.10	-	pCi/g	
P19-20	R	Thorium-228	P19-20C-297039	NONE	483039.64	1351298	11/19/96	0.99	0.11		pCi/g	1.03	0.11	-	pCi/g	
P19-20	R	Thorium-228	P19-20C-367150	NONE	483149.45	1351368	11/19/96	1.14	0.10		pCi/g	1.18	0.10	-	pCi/g	
P19-20	R	Thorium-228	P19-20C-377016	NONE	483016.51	1351378	11/19/96	1.08	0.13		pCi/g	1.12	0.13	-	pCi/g	
P19-20	R	Thorium-228	P19-20C-4-R	NONE	483014	1351335	2/24/97	0.91	0.29		pCi/g	0.91	0.26	J	pCi/g	
P19-20	R	Thorium-228	P19-20C-5-R	NONE	483033	1351387	2/24/97	1.00	0.31		pCi/g	1.01	0.27	J	pCi/g	
P19-20	R	Thorium-228	P19-20C-6-R	NONE	483164	1351213	2/24/97	1.30	0.31		pCi/g	1.29	0.28	J	pCi/g	
P19-20	R	Thorium-228	P19-20C-8-R	NONE	483120	1351300	2/24/97	1.20	0.31		pCi/g	1.21	0.27	J	pCi/g	
P19-20	R	Thorium-228	P19-20C-9-R	NONE	483143	1351372	2/24/97	0.75	0.26		pCi/g	0.75	0.22	J	pCi/g	
P19-20	R	Thorium-232	P19-20C-1-R	NONE	483039	1351128	2/24/97	0.94	0.21		pCi/g	1.00	0.20	-	pCi/g	
P19-20	R	Thorium-232	P19-20C-1-R-D	NONE	483039	1351128	2/24/97	1.20	0.25		pCi/g	1.18	0.25	-	pCi/g	P19-20C-1-R
P19-20	R	Thorium-232	P19-20C-10-R	NONE	483231	1351257	2/24/97	1.10	0.25		pCi/g	1.11	0.24	-	pCi/g	
P19-20	R	Thorium-232	P19-20C-11-R	NONE	483248	1351281	2/24/97	1.10	0.26		pCi/g	1.11	0.25	-	pCi/g	
P19-20	R	Thorium-232	P19-20C-12-R	NONE	483260	1351346	2/24/97	1.10	0.25		pCi/g	1.10	0.25	-	pCi/g	
P19-20	R	Thorium-232	P19-20C-13-R	NONE	483264	1351364	2/24/97	0.92	0.21		pCi/g	0.94	0.20	-	pCi/g	
P19-20	R	Thorium-232	P19-20C-14-R	NONE	483330	1351305	2/24/97	1.00	0.22		pCi/g	1.05	0.22	-	pCi/g	
P19-20	R	Thorium-232	P19-20C-15-R	NONE	483374	1351355	2/24/97	1.10	0.22		pCi/g	1.07	0.21	-	pCi/g	
P19-20	R	Thorium-232	P19-20C-151040	NONE	483040.33	1351152	11/19/96	1.05	0.09		pCi/g	1.04	0.09	-	pCi/g	
P19-20	R	Thorium-232	P19-20C-16-R	NONE	483339	1351362	11/19/96	1.30	0.52		pCi/g	1.27	0.52	-	pCi/g	
P19-20	R	Thorium-232	P19-20C-190103	NONE	483103.34	1351191	11/19/96	1.25	0.11		pCi/g	1.24	0.11	-	pCi/g	
P19-20	R	Thorium-232	P19-20C-213195	NONE	483195.52	1351214	11/19/96	1.12	0.10		pCi/g	1.11	0.10	-	pCi/g	
P19-20	R	Thorium-232	P19-20C-297039	NONE	483039.64	1351298	11/19/96	1.03	0.10		pCi/g	1.02	0.10	-	pCi/g	
P19-20	R	Thorium-232	P19-20C-367150	NONE	483149.45	1351368	11/19/96	1.31	0.10		pCi/g	1.30	0.10	-	pCi/g	
P19-20	R	Thorium-232	P19-20C-377016	NONE	483016.51	1351378	11/19/96	1.14	0.12		pCi/g	1.13	0.12	-	pCi/g	
P19-20	R	Thorium-232	P19-20C-4-R	NONE	483014	1351335	2/24/97	1.10	0.23		pCi/g	1.10	0.23	-	pCi/g	
P19-20	R	Thorium-232	P19-20C-5-R	NONE	483033	1351387	2/24/97	1.10	0.26		pCi/g	1.20	0.26	-	pCi/g	
P19-20	R	Thorium-232	P19-20C-6-R	NONE	483164	1351213	2/24/97	1.00	0.24		pCi/g	1.03	0.23	-	pCi/g	
P19-20	R	Thorium-232	P19-20C-8-R	NONE	483120	1351300	2/24/97	0.86	0.22		pCi/g	0.89	0.21	-	pCi/g	
P19-20	R	Thorium-232	P19-20C-9-R	NONE	483143	1351372	2/24/97	0.99	0.24		pCi/g	1.01	0.23	-	pCi/g	
P19-20	R	Uranium, Total	P19-20C-1-R	NONE	483039	1351128	2/24/97				ug/g	10.80	3.90	-	ug/g	
P19-20	R	Uranium, Total	P19-20C-1-R-D	NONE	483039	1351128	2/24/97				ug/g	9.90	4.80	-	ug/g	P19-20C-1-R
P19-20	R	Uranium, Total	P19-20C-10-R	NONE	483231	1351257	2/24/97				ug/g	7.80	4.80	J	ug/g	
P19-20	R	Uranium, Total	P19-20C-11-R	NONE	483248	1351281	2/24/97				ug/g	9.00	6.30	J	ug/g	

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								Laboratory Data				Validation Data				
CU Name	CU Type	Parameter	Sample ID	Suffix	Northing	Easting	Sample Date	Lab Result	TPU	Qualifier	Units	Val. Result	TPU	Qualifier	Units	Duplicate of
P19-20	R	Uranium, Total	P19-20C-12-R	NONE	483260	1351346	2/24/97				ug/g	10.80	6.30	J	ug/g	
P19-20	R	Uranium, Total	P19-20C-13-R	NONE	483264	1351364	2/24/97				ug/g	18.29	6.90	-	ug/g	
P19-20	R	Uranium, Total	P19-20C-14-R	NONE	483330	1351305	2/24/97				ug/g	3.30	4.20	J	ug/g	
P19-20	R	Uranium, Total	P19-20C-15-R	NONE	483374	1351355	2/24/97				ug/g	4.50	3.30	J	ug/g	
P19-20	R	Uranium, Total	P19-20C-151040	NONE	483040.33	1351152	11/19/96				ug/g	13.79		U	ug/g	
P19-20	R	Uranium, Total	P19-20C-16-R	NONE	483339	1351362	11/19/96				ug/g	2.88	1.16	-	ug/g	
P19-20	R	Uranium, Total	P19-20C-190103	NONE	483103.34	1351191	11/19/96				ug/g	17.09		U	ug/g	
P19-20	R	Uranium, Total	P19-20C-213195	NONE	483195.52	1351214	11/19/96				ug/g	11.99		U	ug/g	
P19-20	R	Uranium, Total	P19-20C-297039	NONE	483039.64	1351298	11/19/96				ug/g	13.19		U	ug/g	
P19-20	R	Uranium, Total	P19-20C-367150	NONE	483149.45	1351368	11/19/96				ug/g	32.08	11.39	-	ug/g	
P19-20	R	Uranium, Total	P19-20C-377016	NONE	483016.51	1351378	11/19/96				ug/g	11.10		U	ug/g	
P19-20	R	Uranium, Total	P19-20C-4-R	NONE	483014	1351335	2/24/97				ug/g	9.30	6.30	J	ug/g	
P19-20	R	Uranium, Total	P19-20C-5-R	NONE	483033	1351387	2/24/97				ug/g	4.50	2.58	J	ug/g	
P19-20	R	Uranium, Total	P19-20C-6-R	NONE	483164	1351213	2/24/97				ug/g	11.10	5.40	-	ug/g	
P19-20	R	Uranium, Total	P19-20C-8-R	NONE	483120	1351300	2/24/97				ug/g	9.60	5.70	J	ug/g	
P19-20	R	Uranium, Total	P19-20C-9-R	NONE	483143	1351372	2/24/97				ug/g	17.39	6.90	-	ug/g	
P19-20	R	Uranium-238	P19-20C-1-R	NONE	483039	1351128	2/24/97	3.60	1.30		pCi/g	3.60	1.30	-	pCi/g	
P19-20	R	Uranium-238	P19-20C-1-R-D	NONE	483039	1351128	2/24/97	3.30	1.60		pCi/g	3.30	1.60	-	pCi/g	P19-20C-1-R
P19-20	R	Uranium-238	P19-20C-10-R	NONE	483231	1351257	2/24/97	2.60	1.60		pCi/g	2.60	1.60	J	pCi/g	
P19-20	R	Uranium-238	P19-20C-11-R	NONE	483248	1351281	2/24/97	3.00	2.10		pCi/g	3.00	2.10	J	pCi/g	
P19-20	R	Uranium-238	P19-20C-12-R	NONE	483260	1351346	2/24/97	3.60	2.10		pCi/g	3.60	2.10	J	pCi/g	
P19-20	R	Uranium-238	P19-20C-13-R	NONE	483264	1351364	2/24/97	6.10	2.30		pCi/g	6.10	2.30	-	pCi/g	
P19-20	R	Uranium-238	P19-20C-14-R	NONE	483330	1351305	2/24/97	1.10	1.40		pCi/g	1.10	1.40	J	pCi/g	
P19-20	R	Uranium-238	P19-20C-15-R	NONE	483374	1351355	2/24/97	1.50	1.10		pCi/g	1.50	1.10	J	pCi/g	
P19-20	R	Uranium-238	P19-20C-151040	NONE	483040.33	1351152	11/19/96	3.70	3.00	U	pCi/g	4.60		U	pCi/g	
P19-20	R	Uranium-238	P19-20C-16-R	NONE	483339	1351362	11/19/96	0.96	0.39		pCi/g	0.96	0.39	-	pCi/g	
P19-20	R	Uranium-238	P19-20C-190103	NONE	483103.34	1351191	11/19/96	4.41	3.60	U	pCi/g	5.70		U	pCi/g	
P19-20	R	Uranium-238	P19-20C-213195	NONE	483195.52	1351214	11/19/96	3.20	2.60	U	pCi/g	4.00		U	pCi/g	
P19-20	R	Uranium-238	P19-20C-297039	NONE	483039.64	1351298	11/19/96	3.57	2.80	U	pCi/g	4.40		U	pCi/g	
P19-20	R	Uranium-238	P19-20C-367150	NONE	483149.45	1351368	11/19/96	10.70	3.80		pCi/g	10.70	3.80	-	pCi/g	
P19-20	R	Uranium-238	P19-20C-377016	NONE	483016.51	1351378	11/19/96	2.74	2.30	U	pCi/g	3.70		U	pCi/g	
P19-20	R	Uranium-238	P19-20C-4-R	NONE	483014	1351335	2/24/97	3.10	2.10		pCi/g	3.10	2.10	J	pCi/g	
P19-20	R	Uranium-238	P19-20C-5-R	NONE	483033	1351387	2/24/97	1.50	0.86		pCi/g	1.50	0.86	J	pCi/g	
P19-20	R	Uranium-238	P19-20C-6-R	NONE	483164	1351213	2/24/97	3.70	1.90		pCi/g	3.70	1.80	-	pCi/g	
P19-20	R	Uranium-238	P19-20C-8-R	NONE	483120	1351300	2/24/97	3.20	1.90		pCi/g	3.20	1.90	J	pCi/g	
P19-20	R	Uranium-238	P19-20C-9-R	NONE	483143	1351372	2/24/97	5.80	2.30		pCi/g	5.80	2.30	-	pCi/g	
P19-23	R	Moisture Content	P19-20C-010014	NONE	483014.14	1351010	1/28/97	21.90			Percent			NV	Percent	
P19-23	R	Moisture Content	P19-20C-060180	NONE	483180	1351060	1/28/97	34.10			Percent			NV	Percent	
P19-23	R	Moisture Content	P19-20C-094298	NONE	483298	1351094	1/28/97	29.50			Percent			NV	Percent	

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								Laboratory Data				Validation Data				
CU Name	CU Type	Parameter	Sample ID	Suffix	Northing	Easting	Sample Date	Lab Result	TPU	Qualifier	Units	Val. Result	TPU	Qualifier	Units	Duplicate of
P19-23	R	Moisture Content	P19-20C-098322	NONE	483322	1351098	1/28/97	27.20			Percent			NV	Percent	
P19-23	R	Moisture Content	P19-20C-163268	NONE	483268.09	1351164	1/28/97	32.10			Percent			NV	Percent	
P19-23	R	Moisture Content	P19-20C-174397	NONE	483397	1351174	1/28/97	33.30			Percent			NV	Percent	
P19-23	R	Moisture Content	P19-23C-1-R	NONE	483059.08	1351037	2/25/97	18.80			Percent			NV	Percent	
P19-23	R	Moisture Content	P19-23C-10-R	NONE	483277.44	1351123	2/25/97	20.70			Percent			NV	Percent	
P19-23	R	Moisture Content	P19-23C-11-R	NONE	483324.71	1351201	2/25/97	26.80			Percent			NV	Percent	
P19-23	R	Moisture Content	P19-23C-12-R	NONE	483387.4	1351051	2/25/97	24.20			Percent			NV	Percent	
P19-23	R	Moisture Content	P19-23C-13-R	NONE	483391.35	1351091	2/25/97	25.50			Percent			NV	Percent	
P19-23	R	Moisture Content	P19-23C-14-R	NONE	483373.49	1351119	2/25/97	24.70			Percent			NV	Percent	
P19-23	R	Moisture Content	P19-23C-15-R	NONE	483348.31	1351200	2/25/97	29.50			Percent			NV	Percent	
P19-23	R	Moisture Content	P19-23C-16-R	NONE	483373.62	1351233	2/25/97	25.10			Percent			NV	Percent	
P19-23	R	Moisture Content	P19-23C-3-R	NONE	483143.39	1351073	2/25/97	21.70			Percent			NV	Percent	
P19-23	R	Moisture Content	P19-23C-6-R	NONE	483217.41	1351084	2/25/97	27.90			Percent			NV	Percent	
P19-23	R	Moisture Content	P19-23C-6-R-D	NONE	483217.41	1351084	2/25/97	26.60			Percent			NV	Percent	P19-23C-6-R
P19-23	R	Moisture Content	P19-23C-7-R	NONE	483230.09	1351123	2/25/97	25.90			Percent			NV	Percent	
P19-23	R	Moisture Content	P19-23C-9-R	NONE	483284.47	1351065	2/25/97	27.10			Percent			NV	Percent	
P19-23	R	Radium-226	P19-20C-010014	NONE	483014.14	1351010	1/28/97	1.33	0.30		pCi/g	1.33	0.30	-	pCi/g	
P19-23	R	Radium-226	P19-20C-060180	NONE	483180	1351060	1/28/97	0.83	0.24		pCi/g	0.83	0.24	-	pCi/g	
P19-23	R	Radium-226	P19-20C-094298	NONE	483298	1351094	1/28/97	0.64	0.19		pCi/g	0.64	0.19	-	pCi/g	
P19-23	R	Radium-226	P19-20C-098322	NONE	483322	1351098	1/28/97	0.69	0.17		pCi/g	0.69	0.17	-	pCi/g	
P19-23	R	Radium-226	P19-20C-163268	NONE	483268.09	1351164	1/28/97	1.07	0.30		pCi/g	1.07	0.30	-	pCi/g	
P19-23	R	Radium-226	P19-20C-174397	NONE	483397	1351174	1/28/97	1.37	0.33		pCi/g	1.37	0.33	-	pCi/g	
P19-23	R	Radium-226	P19-23C-1-R	NONE	483059.08	1351037	2/25/97	1.60	0.18		pCi/g	1.60	0.18	-	pCi/g	
P19-23	R	Radium-226	P19-23C-10-R	NONE	483277.44	1351123	2/25/97	1.60	0.18		pCi/g	1.60	0.18	-	pCi/g	
P19-23	R	Radium-226	P19-23C-11-R	NONE	483324.71	1351201	2/25/97	1.30	0.16		pCi/g	1.30	0.16	-	pCi/g	
P19-23	R	Radium-226	P19-23C-12-R	NONE	483387.4	1351051	2/25/97	1.60	0.18		pCi/g	1.60	0.18	-	pCi/g	
P19-23	R	Radium-226	P19-23C-13-R	NONE	483391.35	1351091	2/25/97	1.40	0.16		pCi/g	1.40	0.16	-	pCi/g	
P19-23	R	Radium-226	P19-23C-14-R	NONE	483373.49	1351119	2/25/97	1.40	0.17		pCi/g	1.40	0.17	-	pCi/g	
P19-23	R	Radium-226	P19-23C-15-R	NONE	483348.31	1351200	2/25/97	1.30	0.18		pCi/g	1.30	0.18	-	pCi/g	
P19-23	R	Radium-226	P19-23C-16-R	NONE	483373.62	1351233	2/25/97	1.60	0.16		pCi/g	1.60	0.16	-	pCi/g	
P19-23	R	Radium-226	P19-23C-3-R	NONE	483143.39	1351073	2/25/97	1.60	0.17		pCi/g	1.60	0.17	-	pCi/g	
P19-23	R	Radium-226	P19-23C-6-R	NONE	483217.41	1351084	2/25/97	1.60	0.17		pCi/g	1.60	0.17	-	pCi/g	
P19-23	R	Radium-226	P19-23C-6-R-D	NONE	483217.41	1351084	2/25/97	1.60	0.17		pCi/g	1.60	0.17	-	pCi/g	P19-23C-6-R
P19-23	R	Radium-226	P19-23C-7-R	NONE	483230.09	1351123	2/25/97	1.50	0.17		pCi/g	1.50	0.17	-	pCi/g	
P19-23	R	Radium-226	P19-23C-9-R	NONE	483284.47	1351065	2/25/97	1.60	0.16		pCi/g	1.60	0.16	-	pCi/g	
P19-23	R	Radium-228	P19-20C-010014	NONE	483014.14	1351010	1/28/97	1.03	0.53		pCi/g	1.03	0.53	J	pCi/g	
P19-23	R	Radium-228	P19-20C-060180	NONE	483180	1351060	1/28/97	1.57	0.53		pCi/g	1.57	0.53	-	pCi/g	
P19-23	R	Radium-228	P19-20C-094298	NONE	483298	1351094	1/28/97	1.07	0.51		pCi/g	1.07	0.51	-	pCi/g	
P19-23	R	Radium-228	P19-20C-098322	NONE	483322	1351098	1/28/97	0.96	0.38		pCi/g	0.96	0.38	-	pCi/g	
P19-23	R	Radium-228	P19-20C-163268	NONE	483268.09	1351164	1/28/97	1.81	0.63		pCi/g	1.81	0.63	-	pCi/g	

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							Laboratory Data				Validation Data				
CU Name	CU Type	Parameter	Sample ID	Suffix	Northing	Easting	Sample Date	Lab Result	TPU	Qualifier	Units	Val. Result	TPU	Qualifier	Units	Duplicate of
P19-23	R	Radium-228	P19-20C-174397	NONE	483397	1351174	1/28/97	1.61	0.60		pCi/g	1.61	0.60	-	pCi/g	
P19-23	R	Radium-228	P19-23C-1-R	NONE	483059.08	1351037	2/25/97	1.20	0.31		pCi/g	1.20	0.31	-	pCi/g	
P19-23	R	Radium-228	P19-23C-10-R	NONE	483277.44	1351123	2/25/97	1.40	0.41		pCi/g	1.40	0.41	-	pCi/g	
P19-23	R	Radium-228	P19-23C-11-R	NONE	483324.71	1351201	2/25/97	1.30	0.38		pCi/g	1.30	0.38	-	pCi/g	
P19-23	R	Radium-228	P19-23C-12-R	NONE	483387.4	1351051	2/25/97	1.30	0.34		pCi/g	1.30	0.34	-	pCi/g	
P19-23	R	Radium-228	P19-23C-13-R	NONE	483391.35	1351091	2/25/97	1.40	0.37		pCi/g	1.40	0.37	-	pCi/g	
P19-23	R	Radium-228	P19-23C-14-R	NONE	483373.49	1351119	2/25/97	1.50	0.40		pCi/g	1.45	0.40	-	pCi/g	
P19-23	R	Radium-228	P19-23C-15-R	NONE	483348.31	1351200	2/25/97	1.30	0.35		pCi/g	1.30	0.35	-	pCi/g	
P19-23	R	Radium-228	P19-23C-16-R	NONE	483373.62	1351233	2/25/97	1.40	0.36		pCi/g	1.40	0.36	-	pCi/g	
P19-23	R	Radium-228	P19-23C-3-R	NONE	483143.39	1351073	2/25/97	1.30	0.33		pCi/g	1.30	0.33	-	pCi/g	
P19-23	R	Radium-228	P19-23C-6-R	NONE	483217.41	1351084	2/25/97	1.30	0.38		pCi/g	1.30	0.38	-	pCi/g	
P19-23	R	Radium-228	P19-23C-6-R-D	NONE	483217.41	1351084	2/25/97	1.30	0.35		pCi/g	1.25	0.35	-	pCi/g	P19-23C-6-R
P19-23	R	Radium-228	P19-23C-7-R	NONE	483230.09	1351123	2/25/97	1.50	0.37		pCi/g	1.45	0.37	-	pCi/g	
P19-23	R	Radium-228	P19-23C-9-R	NONE	483284.47	1351065	2/25/97	1.60	0.41		pCi/g	1.60	0.41	-	pCi/g	
P19-23	R	Thorium-228	P19-20C-010014	RE	483014.14	1351010	1/28/97	1.34	0.12		pCi/g	1.34	0.12	-	pCi/g	
P19-23	R	Thorium-228	P19-20C-060180	RE	483180	1351060	1/28/97	1.33	0.11		pCi/g	1.33	0.11	-	pCi/g	
P19-23	R	Thorium-228	P19-20C-094298	RE	483298	1351094	1/28/97	1.26	0.15		pCi/g	1.26	0.15	J	pCi/g	
P19-23	R	Thorium-228	P19-20C-098322	RE	483322	1351098	1/28/97	1.15	0.10		pCi/g	1.15	0.10	-	pCi/g	
P19-23	R	Thorium-228	P19-20C-163268	RE	483268.09	1351164	1/28/97	1.26	0.11		pCi/g	1.26	0.11	-	pCi/g	
P19-23	R	Thorium-228	P19-20C-174397	RE	483397	1351174	1/28/97	1.25	0.11		pCi/g	1.25	0.11	-	pCi/g	
P19-23	R	Thorium-228	P19-23C-1-R	NONE	483059.08	1351037	2/25/97	1.20	0.43		pCi/g	1.20	0.43	J	pCi/g	
P19-23	R	Thorium-228	P19-23C-10-R	NONE	483277.44	1351123	2/25/97	1.30	0.45		pCi/g	1.30	0.45	-	pCi/g	
P19-23	R	Thorium-228	P19-23C-11-R	NONE	483324.71	1351201	2/25/97	1.40	0.62		pCi/g	1.40	0.62	J	pCi/g	
P19-23	R	Thorium-228	P19-23C-12-R	NONE	483387.4	1351051	2/25/97	1.40	0.53		pCi/g	1.40	0.53	J	pCi/g	
P19-23	R	Thorium-228	P19-23C-13-R	NONE	483391.35	1351091	2/25/97	1.60	0.67		pCi/g	1.60	0.67	-	pCi/g	
P19-23	R	Thorium-228	P19-23C-14-R	NONE	483373.49	1351119	2/25/97	1.50	0.67		pCi/g	1.50	0.67	J	pCi/g	
P19-23	R	Thorium-228	P19-23C-15-R	NONE	483348.31	1351200	2/25/97	1.20	0.49		pCi/g	1.20	0.49	-	pCi/g	
P19-23	R	Thorium-228	P19-23C-16-R	NONE	483373.62	1351233	2/25/97	1.30	0.48		pCi/g	1.30	0.48	J	pCi/g	
P19-23	R	Thorium-228	P19-23C-3-R	NONE	483143.39	1351073	2/25/97	1.40	0.52		pCi/g	1.40	0.52	J	pCi/g	
P19-23	R	Thorium-228	P19-23C-6-R	NONE	483217.41	1351084	2/25/97	1.30	0.49		pCi/g	1.30	0.49	-	pCi/g	
P19-23	R	Thorium-228	P19-23C-6-R-D	NONE	483217.41	1351084	2/25/97	1.40	0.59		pCi/g	1.40	0.59	-	pCi/g	P19-23C-6-R
P19-23	R	Thorium-228	P19-23C-7-R	NONE	483230.09	1351123	2/25/97	1.40	0.60		pCi/g	1.40	0.60	J	pCi/g	
P19-23	R	Thorium-228	P19-23C-9-R	NONE	483284.47	1351065	2/25/97	1.50	0.63		pCi/g	1.50	0.63	J	pCi/g	
P19-23	R	Thorium-232	P19-20C-010014	RE	483014.14	1351010	1/28/97	1.41	0.11		pCi/g	1.41	0.11	J	pCi/g	
P19-23	R	Thorium-232	P19-20C-060180	RE	483180	1351060	1/28/97	1.25	0.10		pCi/g	1.25	0.10	J	pCi/g	
P19-23	R	Thorium-232	P19-20C-094298	RE	483298	1351094	1/28/97	1.25	0.14		pCi/g	1.25	0.14	J	pCi/g	
P19-23	R	Thorium-232	P19-20C-098322	RE	483322	1351098	1/28/97	1.22	0.10		pCi/g	1.22	0.10	J	pCi/g	
P19-23	R	Thorium-232	P19-20C-163268	RE	483268.09	1351164	1/28/97	1.20	0.10		pCi/g	1.20	0.10	J	pCi/g	
P19-23	R	Thorium-232	P19-20C-174397	RE	483397	1351174	1/28/97	1.29	0.10		pCi/g	1.29	0.10	J	pCi/g	
P19-23	R	Thorium-232	P19-23C-1-R	NONE	483059.08	1351037	2/25/97	0.94	0.34		pCi/g	0.94	0.34	J	pCi/g	

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A1P1 CERTIFICATION REPORT - APPENDIX B

								Laboratory Data				Validation Data				
CU Name	CU Type	Parameter	Sample ID	Suffix	Northing	Easting	Sample Date	Lab Result	TPU	Qualifier	Units	Val. Result	TPU	Qualifier	Units	Duplicate of
P19-23	R	Thorium-232	P19-23C-10-R	NONE	483277.44	1351123	2/25/97	1.10	0.38		pCi/g	1.10	0.38	-	pCi/g	
P19-23	R	Thorium-232	P19-23C-11-R	NONE	483324.71	1351201	2/25/97	1.30	0.57		pCi/g	1.30	0.57	J	pCi/g	
P19-23	R	Thorium-232	P19-23C-12-R	NONE	483387.4	1351051	2/25/97	1.20	0.46		pCi/g	1.20	0.46	J	pCi/g	
P19-23	R	Thorium-232	P19-23C-13-R	NONE	483391.35	1351091	2/25/97	1.50	0.61		pCi/g	1.50	0.61	-	pCi/g	
P19-23	R	Thorium-232	P19-23C-14-R	NONE	483373.49	1351119	2/25/97	1.20	0.53		pCi/g	1.20	0.53	J	pCi/g	
P19-23	R	Thorium-232	P19-23C-15-R	NONE	483348.31	1351200	2/25/97	1.20	0.48		pCi/g	1.20	0.48	-	pCi/g	
P19-23	R	Thorium-232	P19-23C-16-R	NONE	483373.62	1351233	2/25/97	1.20	0.44		pCi/g	1.20	0.44	J	pCi/g	
P19-23	R	Thorium-232	P19-23C-3-R	NONE	483143.39	1351073	2/25/97	1.20	0.47		pCi/g	1.20	0.47	J	pCi/g	
P19-23	R	Thorium-232	P19-23C-6-R	NONE	483217.41	1351084	2/25/97	1.30	0.48		pCi/g	1.30	0.48	-	pCi/g	
P19-23	R	Thorium-232	P19-23C-6-R-D	NONE	483217.41	1351084	2/25/97	1.40	0.60		pCi/g	1.40	0.60	-	pCi/g	P19-23C-6-R
P19-23	R	Thorium-232	P19-23C-7-R	NONE	483230.09	1351123	2/25/97	1.40	0.57		pCi/g	1.40	0.57	J	pCi/g	
P19-23	R	Thorium-232	P19-23C-9-R	NONE	483284.47	1351065	2/25/97	1.40	0.57		pCi/g	1.40	0.57	J	pCi/g	
P19-23	R	Uranium, Total	P19-20C-010014	NONE	483014.14	1351010	1/28/97				ug/g	14.64	9.00	J	ug/g	
P19-23	R	Uranium, Total	P19-20C-060180	NONE	483180	1351060	1/28/97				ug/g	40.54	11.99	-	ug/g	
P19-23	R	Uranium, Total	P19-20C-094298	NONE	483298	1351094	1/28/97				ug/g	23.46	9.90	-	ug/g	
P19-23	R	Uranium, Total	P19-20C-098322	NONE	483322	1351098	1/28/97				ug/g	22.39	7.50	-	ug/g	
P19-23	R	Uranium, Total	P19-20C-163268	NONE	483268.09	1351164	1/28/97				ug/g	18.59		U	ug/g	
P19-23	R	Uranium, Total	P19-20C-174397	NONE	483397	1351174	1/28/97				ug/g	38.26	12.89	-	ug/g	
P19-23	R	Uranium, Total	P19-23C-1-R	NONE	483059.08	1351037	2/25/97				ug/g	11.99	2.67	-	ug/g	
P19-23	R	Uranium, Total	P19-23C-10-R	NONE	483277.44	1351123	2/25/97				ug/g	10.80	2.55	-	ug/g	
P19-23	R	Uranium, Total	P19-23C-11-R	NONE	483324.71	1351201	2/25/97				ug/g	19.79	3.90	-	ug/g	
P19-23	R	Uranium, Total	P19-23C-12-R	NONE	483387.4	1351051	2/25/97				ug/g	9.30	1.86	-	ug/g	
P19-23	R	Uranium, Total	P19-23C-13-R	NONE	483391.35	1351091	2/25/97				ug/g	15.59	3.30	-	ug/g	
P19-23	R	Uranium, Total	P19-23C-14-R	NONE	483373.49	1351119	2/25/97				ug/g	15.89	2.91	-	ug/g	
P19-23	R	Uranium, Total	P19-23C-15-R	NONE	483348.31	1351200	2/25/97				ug/g	23.39	3.60	-	ug/g	
P19-23	R	Uranium, Total	P19-23C-16-R	NONE	483373.62	1351233	2/25/97				ug/g	8.40	1.77	-	ug/g	
P19-23	R	Uranium, Total	P19-23C-3-R	NONE	483143.39	1351073	2/25/97				ug/g	10.80	1.92	-	ug/g	
P19-23	R	Uranium, Total	P19-23C-6-R	NONE	483217.41	1351084	2/25/97				ug/g	22.19	3.60	J	ug/g	
P19-23	R	Uranium, Total	P19-23C-6-R-D	NONE	483217.41	1351084	2/25/97				ug/g	15.59	2.97	J	ug/g	P19-23C-6-R
P19-23	R	Uranium, Total	P19-23C-7-R	NONE	483230.09	1351123	2/25/97				ug/g	11.69	2.04	-	ug/g	
P19-23	R	Uranium, Total	P19-23C-9-R	NONE	483284.47	1351065	2/25/97				ug/g	23.69	4.20	-	ug/g	
P19-23	R	Uranium-238	P19-20C-010014	NONE	483014.14	1351010	1/28/97	4.88	3.00		pCi/g	4.88	3.00	J	pCi/g	
P19-23	R	Uranium-238	P19-20C-060180	NONE	483180	1351060	1/28/97	13.50	4.00		pCi/g	13.52	4.00	-	pCi/g	
P19-23	R	Uranium-238	P19-20C-094298	NONE	483298	1351094	1/28/97	7.82	3.30		pCi/g	7.82	3.30	-	pCi/g	
P19-23	R	Uranium-238	P19-20C-098322	NONE	483322	1351098	1/28/97	7.47	2.50		pCi/g	7.47	2.50	-	pCi/g	
P19-23	R	Uranium-238	P19-20C-163268	NONE	483268.09	1351164	1/28/97	8.38	4.10		pCi/g	6.20		U	pCi/g	
P19-23	R	Uranium-238	P19-20C-174397	NONE	483397	1351174	1/28/97	12.80	4.30		pCi/g	12.76	4.30	-	pCi/g	
P19-23	R	Uranium-238	P19-23C-1-R	NONE	483059.08	1351037	2/25/97	4.00	0.89		pCi/g	4.00	0.89	-	pCi/g	
P19-23	R	Uranium-238	P19-23C-10-R	NONE	483277.44	1351123	2/25/97	3.60	0.85		pCi/g	3.60	0.85	-	pCi/g	
P19-23	R	Uranium-238	P19-23C-11-R	NONE	483324.71	1351201	2/25/97	6.60	1.30		pCi/g	6.60	1.30	-	pCi/g	

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A1P1 CERTIFICATION REPORT - APPENDIX B

								Laboratory Data				Validation Data				
CU Name	CU Type	Parameter	Sample ID	Suffix	Northing	Easting	Sample Date	Lab Result	TPU	Qualifier	Units	Val. Result	TPU	Qualifier	Units	Duplicate of
P19-23	R	Uranium-238	P19-23C-12-R	NONE	483387.4	1351051	2/25/97	3.10	0.62		pCi/g	3.10	0.62	-	pCi/g	
P19-23	R	Uranium-238	P19-23C-13-R	NONE	483391.35	1351091	2/25/97	5.20	1.10		pCi/g	5.20	1.10	-	pCi/g	
P19-23	R	Uranium-238	P19-23C-14-R	NONE	483373.49	1351119	2/25/97	5.30	0.97		pCi/g	5.30	0.97	-	pCi/g	
P19-23	R	Uranium-238	P19-23C-15-R	NONE	483348.31	1351200	2/25/97	7.80	1.20		pCi/g	7.80	1.20	-	pCi/g	
P19-23	R	Uranium-238	P19-23C-16-R	NONE	483373.62	1351233	2/25/97	2.80	0.59		pCi/g	2.80	0.59	-	pCi/g	
P19-23	R	Uranium-238	P19-23C-3-R	NONE	483143.39	1351073	2/25/97	3.60	0.64		pCi/g	3.60	0.64	-	pCi/g	
P19-23	R	Uranium-238	P19-23C-6-R	NONE	483217.41	1351084	2/25/97	7.40	1.20		pCi/g	7.40	1.20	J	pCi/g	
P19-23	R	Uranium-238	P19-23C-6-R-D	NONE	483217.41	1351084	2/25/97	5.20	0.99		pCi/g	5.20	0.99	J	pCi/g	P19-23C-6-R
P19-23	R	Uranium-238	P19-23C-7-R	NONE	483230.09	1351123	2/25/97	3.90	0.69		pCi/g	3.90	0.69	-	pCi/g	
P19-23	R	Uranium-238	P19-23C-9-R	NONE	483284.47	1351065	2/25/97	7.90	1.40		pCi/g	7.90	1.40	-	pCi/g	
P19-40	R	Moisture Content	P19-40C-001567	NONE	483567.78	1351001	1/14/97	21.00			Percent	21.00		NV	Percent	
P19-40	R	Moisture Content	P19-40C-009494	NONE	483494.28	1351010	1/14/97	16.91			Percent	16.91		NV	Percent	
P19-40	R	Moisture Content	P19-40C-018707	NONE	483707	1351018	3/19/97	26.33			Percent	26.33		NV	Percent	
P19-40	R	Moisture Content	P19-40C-046680	NONE	483680.89	1351046	1/14/97	19.72			Percent			NV	Percent	
P19-40	R	Moisture Content	P19-40C-131701	NONE	483701	1351131	3/19/97	26.41			Percent	26.41		NV	Percent	
P19-40	R	Moisture Content	P19-40C-163578	NONE	483578.06	1351163	1/14/97	16.16			Percent			NV	Percent	
P19-40	R	Moisture Content	P19-40C-176421	NONE	483421	1351176	1/8/97	24.70			Percent	24.70		NV	Percent	
P19-40	R	Moisture Content	P19-40C-179603	NONE	483603.59	1351179	1/14/97	19.48			Percent			NV	Percent	
P19-40	R	Moisture Content	P19-40C-235537	NONE	483537.45	1351235	1/8/97	27.24			Percent	27.24		NV	Percent	
P19-40	R	Moisture Content	P19-40C-237489	NONE	483489	1351237	3/19/97	29.10			Percent	29.10		NV	Percent	
P19-40	R	Moisture Content	P19-40C-252690	NONE	483690.81	1351252	1/14/97	29.28			Percent			NV	Percent	
P19-40	R	Moisture Content	P19-40C-297760	NONE	483760	1351297	1/14/97	27.22			Percent			NV	Percent	
P19-40	R	Moisture Content	P19-40C-333523	NONE	483523.65	1351333	1/8/97	22.73			Percent	22.73		NV	Percent	
P19-40	R	Moisture Content	P19-40C-336769	NONE	483769	1351336	1/15/97	18.02			Percent			NV	Percent	
P19-40	R	Moisture Content	P19-40C-340632	NONE	483632	1351340	3/19/97	25.34			Percent	25.34		NV	Percent	
P19-40	R	Radium-226	P19-40C-001567	NONE	483567.78	1351001	1/14/97	0.96	0.14		pCi/g	0.96	0.14	-	pCi/g	
P19-40	R	Radium-226	P19-40C-009494	NONE	483494.28	1351010	1/14/97	1.00	0.15		pCi/g	1.03	0.15	-	pCi/g	
P19-40	R	Radium-226	P19-40C-018707	NONE	483707	1351018	3/19/97	1.10	0.18		pCi/g	1.15	0.18	-	pCi/g	
P19-40	R	Radium-226	P19-40C-046680	NONE	483680.89	1351046	1/14/97	0.89	0.13		pCi/g	0.89	0.13	-	pCi/g	
P19-40	R	Radium-226	P19-40C-131701	NONE	483701	1351131	3/19/97	1.40	0.28		pCi/g	1.39	0.28	-	pCi/g	
P19-40	R	Radium-226	P19-40C-163578	NONE	483578.06	1351163	1/14/97	0.92	0.13		pCi/g	0.92	0.13	-	pCi/g	
P19-40	R	Radium-226	P19-40C-176421	NONE	483421	1351176	1/8/97	1.10	0.16		pCi/g	1.07	0.16	-	pCi/g	
P19-40	R	Radium-226	P19-40C-179603	NONE	483603.59	1351179	1/14/97	0.91	0.19		pCi/g	0.91	0.19	-	pCi/g	
P19-40	R	Radium-226	P19-40C-235537	NONE	483537.45	1351235	1/8/97	1.10	0.16		pCi/g	1.07	0.16	-	pCi/g	
P19-40	R	Radium-226	P19-40C-237489	NONE	483489	1351237	3/19/97	0.68	0.15		pCi/g	0.69	0.15	-	pCi/g	
P19-40	R	Radium-226	P19-40C-252690	NONE	483690.81	1351252	1/14/97	1.00	0.16		pCi/g	1.02	0.16	-	pCi/g	
P19-40	R	Radium-226	P19-40C-297760	NONE	483760	1351297	1/14/97	0.99	0.15		pCi/g	0.99	0.15	-	pCi/g	
P19-40	R	Radium-226	P19-40C-333523	NONE	483523.65	1351333	1/8/97	1.20	0.23		pCi/g	1.17	0.23	-	pCi/g	
P19-40	R	Radium-226	P19-40C-336769	NONE	483769	1351336	1/15/97	0.99	0.15		pCi/g	0.99	0.15	-	pCi/g	

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								Laboratory Data				Validation Data				
CU Name	CU Type	Parameter	Sample ID	Suffix	Northing	Easting	Sample Date	Lab Result	TPU	Qualifier	Units	Val. Result	TPU	Qualifier	Units	Duplicate of
P19-40	R	Radium-226	P19-40C-340632	NONE	483632	1351340	3/19/97	1.20	0.18		pCi/g	1.18	0.18	-	pCi/g	
P19-40	R	Radium-228	P19-40C-001567	NONE	483567.78	1351001	1/14/97	1.10	0.22		pCi/g	1.13	0.22	-	pCi/g	
P19-40	R	Radium-228	P19-40C-009494	NONE	483494.28	1351010	1/14/97	1.20	0.22		pCi/g	1.18	0.22	-	pCi/g	
P19-40	R	Radium-228	P19-40C-018707	NONE	483707	1351018	3/19/97	1.40	0.27		pCi/g	1.40	0.27	-	pCi/g	
P19-40	R	Radium-228	P19-40C-046680	NONE	483680.89	1351046	1/14/97	1.20	0.20		pCi/g	1.16	0.20	-	pCi/g	
P19-40	R	Radium-228	P19-40C-131701	NONE	483701	1351131	3/19/97	1.50	0.43		pCi/g	1.50	0.43	-	pCi/g	
P19-40	R	Radium-228	P19-40C-163578	NONE	483578.06	1351163	1/14/97	1.20	0.20		pCi/g	1.17	0.20	-	pCi/g	
P19-40	R	Radium-228	P19-40C-176421	NONE	483421	1351176	1/8/97	1.20	0.23		pCi/g	1.17	0.23	-	pCi/g	
P19-40	R	Radium-228	P19-40C-179603	NONE	483603.59	1351179	1/14/97	1.20	0.23		pCi/g	1.15	0.23	-	pCi/g	
P19-40	R	Radium-228	P19-40C-235537	NONE	483537.45	1351235	1/8/97	1.20	0.23		pCi/g	1.17	0.23	-	pCi/g	
P19-40	R	Radium-228	P19-40C-237489	NONE	483489	1351237	3/19/97	0.61	0.21		pCi/g	0.61	0.21	-	pCi/g	
P19-40	R	Radium-228	P19-40C-252690	NONE	483690.81	1351252	1/14/97	1.20	0.23		pCi/g	1.18	0.23	-	pCi/g	
P19-40	R	Radium-228	P19-40C-297760	NONE	483760	1351297	1/14/97	1.30	0.27		pCi/g	1.27	0.27	-	pCi/g	
P19-40	R	Radium-228	P19-40C-333523	NONE	483523.65	1351333	1/8/97	1.30	0.24		pCi/g	1.27	0.24	-	pCi/g	
P19-40	R	Radium-228	P19-40C-336769	NONE	483769	1351336	1/15/97	1.10	0.22		pCi/g	1.12	0.22	-	pCi/g	
P19-40	R	Radium-228	P19-40C-340632	NONE	483632	1351340	3/19/97	1.00	0.29		pCi/g	1.04	0.29	-	pCi/g	
P19-40	R	Thorium-228	P19-40C-001567	RE	483567.78	1351001	1/14/97	1.20	0.25		pCi/g	1.23	0.24	-	pCi/g	
P19-40	R	Thorium-228	P19-40C-001567	NONE	483567.78	1351001	1/14/97	1.30	0.32		pCi/g	1.73	0.32	Z	pCi/g	
P19-40	R	Thorium-228	P19-40C-009494	NONE	483494.28	1351010	1/14/97	0.94	0.25		pCi/g	1.36	0.24	-	pCi/g	
P19-40	R	Thorium-228	P19-40C-018707	NONE	483707	1351018	3/19/97	1.00	0.25		pCi/g	1.04	0.22	J	pCi/g	
P19-40	R	Thorium-228	P19-40C-046680	NONE	483680.89	1351046	1/14/97	0.49	0.26		pCi/g	0.97	0.23	J	pCi/g	
P19-40	R	Thorium-228	P19-40C-131701	NONE	483701	1351131	3/19/97	1.20	0.28		pCi/g	1.21	0.26	J	pCi/g	
P19-40	R	Thorium-228	P19-40C-163578	NONE	483578.06	1351163	1/14/97	1.00	0.32		pCi/g	1.54	0.31	-	pCi/g	
P19-40	R	Thorium-228	P19-40C-176421	NONE	483421	1351176	1/8/97	1.10	0.29		pCi/g	1.35	0.28	-	pCi/g	
P19-40	R	Thorium-228	P19-40C-179603	NONE	483603.59	1351179	1/14/97	1.20	0.28		pCi/g	1.31	0.27	-	pCi/g	
P19-40	R	Thorium-228	P19-40C-235537	NONE	483537.45	1351235	1/8/97	0.83	0.25		pCi/g	1.06	0.23	-	pCi/g	
P19-40	R	Thorium-228	P19-40C-237489	NONE	483489	1351237	3/19/97	1.00	0.26		pCi/g	1.02	0.23	J	pCi/g	
P19-40	R	Thorium-228	P19-40C-252690	NONE	483690.81	1351252	1/14/97	0.74	0.35		pCi/g	1.22	0.34	-	pCi/g	
P19-40	R	Thorium-228	P19-40C-297760	NONE	483760	1351297	1/14/97	0.48	0.21		pCi/g	0.82	0.20	-	pCi/g	
P19-40	R	Thorium-228	P19-40C-333523	NONE	483523.65	1351333	1/8/97	1.20	0.32		pCi/g	1.45	0.31	-	pCi/g	
P19-40	R	Thorium-228	P19-40C-336769	NONE	483769	1351336	1/15/97	0.97	0.32		pCi/g	1.45	0.31	-	pCi/g	
P19-40	R	Thorium-228	P19-40C-340632	NONE	483632	1351340	3/19/97	1.20	0.26		pCi/g	1.15	0.23	J	pCi/g	
P19-40	R	Thorium-232	P19-40C-001567	NONE	483567.78	1351001	1/14/97	1.20	0.24		pCi/g	1.28	0.24	Z	pCi/g	
P19-40	R	Thorium-232	P19-40C-001567	RE	483567.78	1351001	1/14/97	1.20	0.22		pCi/g	1.16	0.22	-	pCi/g	
P19-40	R	Thorium-232	P19-40C-009494	NONE	483494.28	1351010	1/14/97	0.89	0.18		pCi/g	0.92	0.18	-	pCi/g	
P19-40	R	Thorium-232	P19-40C-018707	NONE	483707	1351018	3/19/97	1.10	0.22		pCi/g	1.10	0.22	J	pCi/g	
P19-40	R	Thorium-232	P19-40C-046680	NONE	483680.89	1351046	1/14/97	0.91	0.21		pCi/g	0.95	0.21	J	pCi/g	
P19-40	R	Thorium-232	P19-40C-131701	NONE	483701	1351131	3/19/97	1.10	0.24		pCi/g	1.14	0.24	J	pCi/g	
P19-40	R	Thorium-232	P19-40C-163578	NONE	483578.06	1351163	1/14/97	0.91	0.21		pCi/g	0.95	0.21	-	pCi/g	
P19-40	R	Thorium-232	P19-40C-176421	NONE	483421	1351176	1/8/97	1.10	0.22		pCi/g	1.07		-	pCi/g	

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								Laboratory Data				Validation Data				
CU Name	CU Type	Parameter	Sample ID	Suffix	Northing	Easting	Sample Date	Lab Result	TPU	Qualifier	Units	Val. Result	TPU	Qualifier	Units	Duplicate of
P19-40	R	Thorium-232	P19-40C-179603	NONE	483603.59	1351179	1/14/97	1.00	0.22		pCi/g	1.04	0.22	-	pCi/g	
P19-40	R	Thorium-232	P19-40C-235537	NONE	483537.45	1351235	1/8/97	1.30	0.24		pCi/g	1.28		-	pCi/g	
P19-40	R	Thorium-232	P19-40C-237489	NONE	483489	1351237	3/19/97	1.20	0.24		pCi/g	1.22	0.24	J	pCi/g	
P19-40	R	Thorium-232	P19-40C-252690	NONE	483690.81	1351252	1/14/97	1.00	0.29		pCi/g	1.05	0.29	-	pCi/g	
P19-40	R	Thorium-232	P19-40C-297760	NONE	483760	1351297	1/14/97	0.72	0.17		pCi/g	0.74	0.17	-	pCi/g	
P19-40	R	Thorium-232	P19-40C-333523	NONE	483523.65	1351333	1/8/97	0.99	0.22		pCi/g	1.00		-	pCi/g	
P19-40	R	Thorium-232	P19-40C-336769	NONE	483769	1351336	1/15/97	1.10	0.25		pCi/g	1.16	0.25	-	pCi/g	
P19-40	R	Thorium-232	P19-40C-340632	NONE	483632	1351340	3/19/97	1.10	0.22		pCi/g	1.13	0.22	J	pCi/g	
P19-40	R	Uranium, Total	P19-40C-001567	NONE	483567.78	1351001	1/14/97				ug/g	19.37	5.81	-	ug/g	
P19-40	R	Uranium, Total	P19-40C-009494	NONE	483494.28	1351010	1/14/97				ug/g	17.30	4.28	-	ug/g	
P19-40	R	Uranium, Total	P19-40C-018707	NONE	483707	1351018	3/19/97				ug/g	27.33	6.40	-	ug/g	
P19-40	R	Uranium, Total	P19-40C-046680	NONE	483680.89	1351046	1/14/97				ug/g	16.11	5.12	-	ug/g	
P19-40	R	Uranium, Total	P19-40C-131701	NONE	483701	1351131	3/19/97				ug/g	13.58	7.84	J	ug/g	
P19-40	R	Uranium, Total	P19-40C-163578	NONE	483578.06	1351163	1/14/97				ug/g	7.04	3.51	J	ug/g	
P19-40	R	Uranium, Total	P19-40C-176421	NONE	483421	1351176	1/8/97				ug/g	21.15		-	ug/g	
P19-40	R	Uranium, Total	P19-40C-179603	NONE	483603.59	1351179	1/14/97				ug/g	17.20	5.22	-	ug/g	
P19-40	R	Uranium, Total	P19-40C-235537	NONE	483537.45	1351235	1/8/97				ug/g	24.22		-	ug/g	
P19-40	R	Uranium, Total	P19-40C-237489	NONE	483489	1351237	3/19/97				ug/g	9.18	6.71	J	ug/g	
P19-40	R	Uranium, Total	P19-40C-252690	NONE	483690.81	1351252	1/14/97				ug/g	22.53	6.59	-	ug/g	
P19-40	R	Uranium, Total	P19-40C-297760	NONE	483760	1351297	1/14/97				ug/g	24.57	6.07	-	ug/g	
P19-40	R	Uranium, Total	P19-40C-333523	NONE	483523.65	1351333	1/8/97				ug/g	22.42		-	ug/g	
P19-40	R	Uranium, Total	P19-40C-336769	NONE	483769	1351336	1/15/97				ug/g	19.09	6.02	-	ug/g	
P19-40	R	Uranium, Total	P19-40C-340632	NONE	483632	1351340	3/19/97				ug/g	18.50	5.44	-	ug/g	
P19-40	R	Uranium-238	P19-40C-001567	NONE	483567.78	1351001	1/14/97	6.50	1.90		pCi/g	6.46	1.94	-	pCi/g	
P19-40	R	Uranium-238	P19-40C-009494	NONE	483494.28	1351010	1/14/97	5.80	1.40		pCi/g	5.77	1.43	-	pCi/g	
P19-40	R	Uranium-238	P19-40C-018707	NONE	483707	1351018	3/19/97	9.10	2.10		pCi/g	9.11	2.13	-	pCi/g	
P19-40	R	Uranium-238	P19-40C-046680	NONE	483680.89	1351046	1/14/97	5.40	1.70		pCi/g	5.37	1.71	-	pCi/g	
P19-40	R	Uranium-238	P19-40C-131701	NONE	483701	1351131	3/19/97	4.50	2.60		pCi/g	4.53	2.61	J	pCi/g	
P19-40	R	Uranium-238	P19-40C-163578	NONE	483578.06	1351163	1/14/97	2.30	1.20		pCi/g	2.35	1.17	J	pCi/g	
P19-40	R	Uranium-238	P19-40C-176421	NONE	483421	1351176	1/8/97	7.10	1.90		pCi/g	7.05	1.86	-	pCi/g	
P19-40	R	Uranium-238	P19-40C-179603	NONE	483603.59	1351179	1/14/97	5.70	1.70		pCi/g	5.74	1.74	-	pCi/g	
P19-40	R	Uranium-238	P19-40C-235537	NONE	483537.45	1351235	1/8/97	8.10	2.00		pCi/g	8.08		-	pCi/g	
P19-40	R	Uranium-238	P19-40C-237489	NONE	483489	1351237	3/19/97	3.10	2.20		pCi/g	3.06	2.24	J	pCi/g	
P19-40	R	Uranium-238	P19-40C-252690	NONE	483690.81	1351252	1/14/97	7.50	2.20		pCi/g	7.51	2.20	-	pCi/g	
P19-40	R	Uranium-238	P19-40C-297760	NONE	483760	1351297	1/14/97	8.20	2.00		pCi/g	8.20	2.02	-	pCi/g	
P19-40	R	Uranium-238	P19-40C-333523	NONE	483523.65	1351333	1/8/97	7.50	1.90		pCi/g	7.48		-	pCi/g	
P19-40	R	Uranium-238	P19-40C-336769	NONE	483769	1351336	1/15/97	6.40	2.00		pCi/g	6.37	2.01	-	pCi/g	
P19-40	R	Uranium-238	P19-40C-340632	NONE	483632	1351340	3/19/97	6.20	1.80		pCi/g	6.17	1.81	-	pCi/g	
P20	M	Arsenic	P20-00C-1-M	NONE	483847.55	1350696	1/30/97	3.10			mg/kg	3.10		-	mg/kg	

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								Laboratory Data				Validation Data				
CU Name	CU Type	Parameter	Sample ID	Suffix	Northing	Easting	Sample Date	Lab Result	TPU	Qualifier	Units	Val. Result	TPU	Qualifier	Units	Duplicate of
P20	M	Arsenic	P20-00C-12-M	NONE	484213.49	1351334	1/29/97	6.80			mg/kg	6.80		-	mg/kg	
P20	M	Arsenic	P20-00C-2-M	NONE	483934.38	1350965	1/29/97	6.40			mg/kg	6.40		-	mg/kg	
P20	M	Arsenic	P20-00C-3-M	NONE	483825.59	1351082	1/29/97	6.50			mg/kg	6.50		-	mg/kg	
P20	M	Arsenic	P20-00C-4-M	NONE	483958.82	1351303	1/30/97	5.80			mg/kg	5.80		-	mg/kg	
P20	M	Arsenic	P20-00C-5-M	NONE	484081.27	1350677	1/29/97	5.90			mg/kg	5.90		-	mg/kg	
P20	M	Arsenic	P20-00C-6-M	NONE	484085.79	1350967	1/29/97	6.30			mg/kg	6.30		-	mg/kg	
P20	M	Arsenic	P20-00C-7-M	NONE	484113.88	1351072	1/29/97	8.80			mg/kg	8.80		J	mg/kg	
P20	M	Arsenic	P20-00C-8-M	NONE	484144.61	1351229	1/29/97	9.80			mg/kg	9.80		-	mg/kg	
P20	M	Beryllium	P20-00C-1-M	NONE	483847.55	1350696	1/30/97	0.44		B	mg/kg	0.44		U	mg/kg	
P20	M	Beryllium	P20-00C-12-M	NONE	484213.49	1351334	1/29/97	1.10			mg/kg	1.10		U	mg/kg	
P20	M	Beryllium	P20-00C-2-M	NONE	483934.38	1350965	1/29/97	0.89		B	mg/kg	0.89		U	mg/kg	
P20	M	Beryllium	P20-00C-3-M	NONE	483825.59	1351082	1/29/97	0.95			mg/kg	0.95		U	mg/kg	
P20	M	Beryllium	P20-00C-4-M	NONE	483958.82	1351303	1/30/97	0.82		B	mg/kg	0.82		U	mg/kg	
P20	M	Beryllium	P20-00C-5-M	NONE	484081.27	1350677	1/29/97	1.00			mg/kg	1.00		-	mg/kg	
P20	M	Beryllium	P20-00C-6-M	NONE	484085.79	1350967	1/29/97	1.00			mg/kg	1.00		U	mg/kg	
P20	M	Beryllium	P20-00C-7-M	NONE	484113.88	1351072	1/29/97	1.30			mg/kg	1.30		UJ	mg/kg	
P20	M	Beryllium	P20-00C-8-M	NONE	484144.61	1351229	1/29/97	1.00			mg/kg	1.00		U	mg/kg	
P20-30	R	Moisture Content	P20-20C-1-R	NONE	483858.16	1351001	1/29/97	29.47			Percent			NV	Percent	
P20-30	R	Moisture Content	P20-20C-10-R	NONE	484042.21	1351184	1/29/97	31.51			Percent			NV	Percent	
P20-30	R	Moisture Content	P20-20C-11-R	NONE	484076.69	1351292	1/29/97	28.85			Percent			NV	Percent	
P20-30	R	Moisture Content	P20-20C-12-R	NONE	484088.39	1351386	1/29/97	33.00			Percent	33.00		NV	Percent	
P20-30	R	Moisture Content	P20-20C-13-R	NONE	484145.46	1351034	1/29/97	29.35			Percent			NV	Percent	
P20-30	R	Moisture Content	P20-20C-14-R	NONE	484141.67	1351187	1/29/97	26.58			Percent			NV	Percent	
P20-30	R	Moisture Content	P20-20C-16-R	NONE	484147.13	1351357	1/29/97	30.91			Percent			NV	Percent	
P20-30	R	Moisture Content	P20-20C-2-R	NONE	483813.16	1351136	1/29/97	20.95			Percent			NV	Percent	
P20-30	R	Moisture Content	P20-20C-4-R	NONE	483865.92	1351331	1/29/97	40.70			Percent	40.70		NV	Percent	
P20-30	R	Moisture Content	P20-20C-5-R	NONE	483962.85	1351074	1/29/97	37.18			Percent			NV	Percent	
P20-30	R	Moisture Content	P20-20C-6-R	NONE	483935.38	1351135	1/29/97	23.72			Percent			NV	Percent	
P20-30	R	Moisture Content	P20-20C-8-R	NONE	483924.14	1351376	1/29/97	28.20			Percent			NV	Percent	
P20-30	R	Radium-226	P20-20C-1-R	NONE	483858.16	1351001	1/29/97	0.97	0.20		pCi/g	0.97	0.20	-	pCi/g	
P20-30	R	Radium-226	P20-20C-10-R	NONE	484042.21	1351184	1/29/97	1.10	0.17		pCi/g	1.11	0.17	-	pCi/g	
P20-30	R	Radium-226	P20-20C-11-R	NONE	484076.69	1351292	1/29/97	0.97	0.15		pCi/g	0.97	0.15	-	pCi/g	
P20-30	R	Radium-226	P20-20C-12-R	NONE	484088.39	1351386	1/29/97	1.22	0.29		pCi/g	1.22	0.29	-	pCi/g	
P20-30	R	Radium-226	P20-20C-13-R	NONE	484145.46	1351034	1/29/97	0.82	0.13		pCi/g	0.82	0.12	-	pCi/g	
P20-30	R	Radium-226	P20-20C-14-R	NONE	484141.67	1351187	1/29/97	0.92	0.14		pCi/g	0.92	0.14	-	pCi/g	
P20-30	R	Radium-226	P20-20C-16-R	NONE	484147.13	1351357	1/29/97	1.10	0.16		pCi/g	1.06	0.16	-	pCi/g	
P20-30	R	Radium-226	P20-20C-2-R	NONE	483813.16	1351136	1/29/97	1.20	0.17		pCi/g	1.16	0.17	-	pCi/g	
P20-30	R	Radium-226	P20-20C-4-R	NONE	483865.92	1351331	1/29/97	1.66	0.33		pCi/g	1.66	0.33	-	pCi/g	
P20-30	R	Radium-226	P20-20C-5-R	NONE	483962.85	1351074	1/29/97	1.00	0.15		pCi/g	1.02	0.15	-	pCi/g	

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								Laboratory Data				Validation Data				
CU Name	CU Type	Parameter	Sample ID	Suffix	Northing	Easting	Sample Date	Lab Result	TPU	Qualifier	Units	Val. Result	TPU	Qualifier	Units	Duplicate of
P20-30	R	Radium-226	P20-20C-6-R	NONE	483935.38	1351135	1/29/97	1.00	0.15		pCi/g	1.01	0.15	-	pCi/g	
P20-30	R	Radium-226	P20-20C-8-R	NONE	483924.14	1351376	1/29/97	1.00	0.16		pCi/g	1.05	0.16	-	pCi/g	
P20-30	R	Radium-228	P20-20C-1-R	NONE	483858.16	1351001	1/29/97	1.20	0.26		pCi/g	1.22	0.26	-	pCi/g	
P20-30	R	Radium-228	P20-20C-10-R	NONE	484042.21	1351184	1/29/97	1.30	0.24		pCi/g	1.28	0.24	-	pCi/g	
P20-30	R	Radium-228	P20-20C-11-R	NONE	484076.69	1351292	1/29/97	1.20	0.25		pCi/g	1.18	0.25	-	pCi/g	
P20-30	R	Radium-228	P20-20C-12-R	NONE	484088.39	1351386	1/29/97	2.21	0.65		pCi/g	2.21	0.65	-	pCi/g	
P20-30	R	Radium-228	P20-20C-13-R	NONE	484145.46	1351034	1/29/97	1.20	0.22		pCi/g	1.16	0.22	-	pCi/g	
P20-30	R	Radium-228	P20-20C-14-R	NONE	484141.67	1351187	1/29/97	1.20	0.21		pCi/g	1.23	0.21	-	pCi/g	
P20-30	R	Radium-228	P20-20C-16-R	NONE	484147.13	1351357	1/29/97	1.20	0.26		pCi/g	1.20	0.26	-	pCi/g	
P20-30	R	Radium-228	P20-20C-2-R	NONE	483813.16	1351136	1/29/97	1.30	0.25		pCi/g	1.30	0.25	-	pCi/g	
P20-30	R	Radium-228	P20-20C-4-R	NONE	483865.92	1351331	1/29/97	2.05	0.73		pCi/g	2.05	0.73	-	pCi/g	
P20-30	R	Radium-228	P20-20C-5-R	NONE	483962.85	1351074	1/29/97	1.30	0.24		pCi/g	1.26	0.24	-	pCi/g	
P20-30	R	Radium-228	P20-20C-6-R	NONE	483935.38	1351135	1/29/97	1.10	0.24		pCi/g	1.11	0.24	-	pCi/g	
P20-30	R	Radium-228	P20-20C-8-R	NONE	483924.14	1351376	1/29/97	1.10	0.23		pCi/g	1.07	0.23	-	pCi/g	
P20-30	R	Thorium-228	P20-20C-1-R	NONE	483858.16	1351001	1/29/97	1.00	0.30		pCi/g	1.24	0.26	-	pCi/g	
P20-30	R	Thorium-228	P20-20C-10-R	NONE	484042.21	1351184	1/29/97	1.60	0.38		pCi/g	1.85	0.35	-	pCi/g	
P20-30	R	Thorium-228	P20-20C-11-R	NONE	484076.69	1351292	1/29/97	0.97	0.31		pCi/g	1.23	0.27	-	pCi/g	
P20-30	R	Thorium-228	P20-20C-12-R	NONE	484088.39	1351386	1/29/97	1.42	0.12		pCi/g	1.42	0.12	J	pCi/g	
P20-30	R	Thorium-228	P20-20C-13-R	NONE	484145.46	1351034	1/29/97	0.92	0.30		pCi/g	1.16	0.26	J	pCi/g	
P20-30	R	Thorium-228	P20-20C-14-R	NONE	484141.67	1351187	1/29/97	0.91	0.28		pCi/g	1.16	0.23	J	pCi/g	
P20-30	R	Thorium-228	P20-20C-16-R	NONE	484147.13	1351357	1/29/97	1.00	0.31		pCi/g	1.27	0.28	-	pCi/g	
P20-30	R	Thorium-228	P20-20C-2-R	NONE	483813.16	1351136	1/29/97	0.65	0.32		pCi/g	0.91	0.28	-	pCi/g	
P20-30	R	Thorium-228	P20-20C-4-R	NONE	483865.92	1351331	1/29/97	1.41	0.11		pCi/g	1.41	0.11	J	pCi/g	
P20-30	R	Thorium-228	P20-20C-5-R	NONE	483962.85	1351074	1/29/97	0.86	0.27		pCi/g	1.09	0.23	J	pCi/g	
P20-30	R	Thorium-228	P20-20C-6-R	NONE	483935.38	1351135	1/29/97	1.10	0.29		pCi/g	1.32	0.26	-	pCi/g	
P20-30	R	Thorium-228	P20-20C-8-R	NONE	483924.14	1351376	1/29/97	1.30	0.34		pCi/g	1.58	0.31	-	pCi/g	
P20-30	R	Thorium-232	P20-20C-1-R	NONE	483858.16	1351001	1/29/97	1.00	0.22		pCi/g	1.06	0.21	-	pCi/g	
P20-30	R	Thorium-232	P20-20C-10-R	NONE	484042.21	1351184	1/29/97	1.10	0.25		pCi/g	1.18	0.25	-	pCi/g	
P20-30	R	Thorium-232	P20-20C-11-R	NONE	484076.69	1351292	1/29/97	1.10	0.23		pCi/g	1.13	0.23	-	pCi/g	
P20-30	R	Thorium-232	P20-20C-12-R	NONE	484088.39	1351386	1/29/97	1.42	0.12		pCi/g	1.42	0.12	-	pCi/g	
P20-30	R	Thorium-232	P20-20C-13-R	NONE	484145.46	1351034	1/29/97	1.10	0.22		pCi/g	1.09	0.22	J	pCi/g	
P20-30	R	Thorium-232	P20-20C-14-R	NONE	484141.67	1351187	1/29/97	1.10	0.22		pCi/g	1.10	0.22	J	pCi/g	
P20-30	R	Thorium-232	P20-20C-16-R	NONE	484147.13	1351357	1/29/97	1.10	0.25		pCi/g	1.18	0.24	-	pCi/g	
P20-30	R	Thorium-232	P20-20C-2-R	NONE	483813.16	1351136	1/29/97	0.89	0.24		pCi/g	0.93	0.24	-	pCi/g	
P20-30	R	Thorium-232	P20-20C-4-R	NONE	483865.92	1351331	1/29/97	1.32	0.10		pCi/g	1.32	0.10	-	pCi/g	
P20-30	R	Thorium-232	P20-20C-5-R	NONE	483962.85	1351074	1/29/97	0.98	0.20		pCi/g	1.01	0.20	J	pCi/g	
P20-30	R	Thorium-232	P20-20C-6-R	NONE	483935.38	1351135	1/29/97	0.97	0.21		pCi/g	1.01	0.20	-	pCi/g	
P20-30	R	Thorium-232	P20-20C-8-R	NONE	483924.14	1351376	1/29/97	1.10	0.24		pCi/g	1.17	0.24	-	pCi/g	
P20-30	R	Uranium, Total	P20-20C-1-R	NONE	483858.16	1351001	1/29/97				ug/g	20.02	5.76	-	ug/g	
P20-30	R	Uranium, Total	P20-20C-10-R	NONE	484042.21	1351184	1/29/97				ug/g	23.84	6.66	-	ug/g	

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								Laboratory Data				Validation Data				
CU Name	CU Type	Parameter	Sample ID	Suffix	Northing	Easting	Sample Date	Lab Result	TPU	Qualifier	Units	Val. Result	TPU	Qualifier	Units	Duplicate of
P20-30	R	Uranium, Total	P20-20C-11-R	NONE	484076.69	1351292	1/29/97				ug/g	17.01	5.64	-	ug/g	
P20-30	R	Uranium, Total	P20-20C-12-R	NONE	484088.39	1351386	1/29/97				ug/g	22.23	8.40	-	ug/g	
P20-30	R	Uranium, Total	P20-20C-13-R	NONE	484145.46	1351034	1/29/97				ug/g	26.88	6.57	-	ug/g	
P20-30	R	Uranium, Total	P20-20C-14-R	NONE	484141.67	1351187	1/29/97				ug/g	16.52	4.05	-	ug/g	
P20-30	R	Uranium, Total	P20-20C-16-R	NONE	484147.13	1351357	1/29/97				ug/g	18.59	5.79	-	ug/g	
P20-30	R	Uranium, Total	P20-20C-2-R	NONE	483813.16	1351136	1/29/97				ug/g	19.27	5.40	-	ug/g	
P20-30	R	Uranium, Total	P20-20C-4-R	NONE	483865.92	1351331	1/29/97				ug/g	23.31	12.59	J	ug/g	
P20-30	R	Uranium, Total	P20-20C-5-R	NONE	483962.85	1351074	1/29/97				ug/g	18.95	5.79	-	ug/g	
P20-30	R	Uranium, Total	P20-20C-6-R	NONE	483935.38	1351135	1/29/97				ug/g	25.42	7.05	-	ug/g	
P20-30	R	Uranium, Total	P20-20C-8-R	NONE	483924.14	1351376	1/29/97				ug/g	20.48	5.70	-	ug/g	
P20-30	R	Uranium-238	P20-20C-1-R	NONE	483858.16	1351001	1/29/97	6.70	1.90		pCi/g	6.68	1.92	-	pCi/g	
P20-30	R	Uranium-238	P20-20C-10-R	NONE	484042.21	1351184	1/29/97	8.00	2.20		pCi/g	7.95	2.22	-	pCi/g	
P20-30	R	Uranium-238	P20-20C-11-R	NONE	484076.69	1351292	1/29/97	5.70	1.90		pCi/g	5.67	1.88	-	pCi/g	
P20-30	R	Uranium-238	P20-20C-12-R	NONE	484088.39	1351386	1/29/97	7.41	2.80		pCi/g	7.41	2.80	-	pCi/g	
P20-30	R	Uranium-238	P20-20C-13-R	NONE	484145.46	1351034	1/29/97	9.00	2.20		pCi/g	8.97	2.19	-	pCi/g	
P20-30	R	Uranium-238	P20-20C-14-R	NONE	484141.67	1351187	1/29/97	5.50	1.40		pCi/g	5.51	1.35	-	pCi/g	
P20-30	R	Uranium-238	P20-20C-16-R	NONE	484147.13	1351357	1/29/97	6.20	1.90		pCi/g	6.20	1.93	-	pCi/g	
P20-30	R	Uranium-238	P20-20C-2-R	NONE	483813.16	1351136	1/29/97	6.40	1.80		pCi/g	6.43	1.80	-	pCi/g	
P20-30	R	Uranium-238	P20-20C-4-R	NONE	483865.92	1351331	1/29/97	7.77	4.20		pCi/g	7.77	4.20	J	pCi/g	
P20-30	R	Uranium-238	P20-20C-5-R	NONE	483962.85	1351074	1/29/97	6.30	1.90		pCi/g	6.32	1.93	-	pCi/g	
P20-30	R	Uranium-238	P20-20C-6-R	NONE	483935.38	1351135	1/29/97	8.50	2.40		pCi/g	8.48	2.35	-	pCi/g	
P20-30	R	Uranium-238	P20-20C-8-R	NONE	483924.14	1351376	1/29/97	6.80	1.90		pCi/g	6.83	1.90	-	pCi/g	
PUMP-1	M	Aroclor-1260	PUMP1-C-1-MP	NONE	479461	1350576	3/7/97	43.00		U	ug/kg	43.00		U	ug/kg	
PUMP-1	M	Aroclor-1260	PUMP1-C-10-MP	NONE	479499	1350598	3/9/97	37.00		U	ug/kg	37.00		U	ug/kg	
PUMP-1	M	Aroclor-1260	PUMP1-C-11-MP	NONE	479516	1350616	3/9/97	38.00		U	ug/kg	38.00		U	ug/kg	
PUMP-1	M	Aroclor-1260	PUMP1-C-11-MP-D	NONE	479516	1350616	3/9/97	40.00		U	ug/kg	40.00		U	ug/kg	PUMP1-C-11-MP
PUMP-1	M	Aroclor-1260	PUMP1-C-12-MP	NONE	479511	1350630	3/9/97	39.00		U	ug/kg	39.00		U	ug/kg	
PUMP-1	M	Aroclor-1260	PUMP1-C-13-MP	NONE	479538	1350583	3/9/97	38.00		U	ug/kg	38.00		U	ug/kg	
PUMP-1	M	Aroclor-1260	PUMP1-C-14-MP	NONE	479541	1350596	3/9/97	39.00		U	ug/kg	39.00		U	ug/kg	
PUMP-1	M	Aroclor-1260	PUMP1-C-15-MP	NONE	479520	1350607	3/9/97	40.00		U	ug/kg	40.00		U	ug/kg	
PUMP-1	M	Aroclor-1260	PUMP1-C-16-MP	NONE	479541	1350624	3/9/97	37.00		U	ug/kg	37.00		U	ug/kg	
PUMP-1	M	Aroclor-1260	PUMP1-C-2-MP	NONE	479452	1350600	3/7/97	38.00		U	ug/kg	38.00		U	ug/kg	
PUMP-1	M	Aroclor-1260	PUMP1-C-3-MP	NONE	479460	1350617	3/7/97	40.00		U	ug/kg	40.00		Z	ug/kg	
PUMP-1	M	Aroclor-1260	PUMP1-C-3-MP	RE	479460	1350617	3/7/97	40.00		U	ug/kg	40.00		UJ	ug/kg	
PUMP-1	M	Aroclor-1260	PUMP1-C-4-MP	NONE	479451	1350629	3/7/97	42.00		U	ug/kg	42.00		U	ug/kg	
PUMP-1	M	Aroclor-1260	PUMP1-C-5-MP	NONE	479475	1350576	3/7/97	44.00		U	ug/kg	44.00		U	ug/kg	
PUMP-1	M	Aroclor-1260	PUMP1-C-6-MP	NONE	479480	1350600	3/7/97	40.00		U	ug/kg	40.00		U	ug/kg	
PUMP-1	M	Aroclor-1260	PUMP1-C-7-MP	NONE	479484	1350617	3/9/97	39.00		U	ug/kg	39.00		U	ug/kg	
PUMP-1	M	Aroclor-1260	PUMP1-C-8-MP	NONE	479486	1350640	3/9/97	38.00		U	ug/kg	38.00		U	ug/kg	

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								Laboratory Data				Validation Data				
CU Name	CU Type	Parameter	Sample ID	Suffix	Northing	Easting	Sample Date	Lab Result	TPU	Qualifier	Units	Val. Result	TPU	Qualifier	Units	Duplicate of
PUMP-1	M	Aroclor-1260	PUMP1-C-9-MP	NONE	479503	1350581	3/9/97	39.00		U	ug/kg	39.00		U	ug/kg	
PUMP-1	M	Arsenic	PUMP1-C-1-MP	NONE	479461	1350576	3/7/97	8.00			mg/kg	8.00		-	mg/kg	
PUMP-1	M	Arsenic	PUMP1-C-10-MP	NONE	479499	1350598	3/9/97	9.30			mg/kg	9.30		-	mg/kg	
PUMP-1	M	Arsenic	PUMP1-C-11-MP	NONE	479516	1350616	3/9/97	9.20			mg/kg	9.20		-	mg/kg	
PUMP-1	M	Arsenic	PUMP1-C-11-MP-D	NONE	479516	1350616	3/9/97	9.90			mg/kg	9.90		-	mg/kg	PUMP1-C-11-MP
PUMP-1	M	Arsenic	PUMP1-C-12-MP	NONE	479511	1350630	3/9/97	8.20			mg/kg	8.20		-	mg/kg	
PUMP-1	M	Arsenic	PUMP1-C-13-MP	NONE	479538	1350583	3/9/97	7.20			mg/kg	7.20		-	mg/kg	
PUMP-1	M	Arsenic	PUMP1-C-14-MP	NONE	479541	1350596	3/9/97	12.60			mg/kg	12.60		-	mg/kg	
PUMP-1	M	Arsenic	PUMP1-C-15-MP	NONE	479520	1350607	3/9/97	7.90			mg/kg	7.90		-	mg/kg	
PUMP-1	M	Arsenic	PUMP1-C-16-MP	NONE	479541	1350624	3/9/97	8.50			mg/kg	8.50		-	mg/kg	
PUMP-1	M	Arsenic	PUMP1-C-2-MP	NONE	479452	1350600	3/7/97	9.10			mg/kg	9.10		-	mg/kg	
PUMP-1	M	Arsenic	PUMP1-C-3-MP	NONE	479460	1350617	3/7/97	8.50			mg/kg	8.50		-	mg/kg	
PUMP-1	M	Arsenic	PUMP1-C-4-MP	NONE	479451	1350629	3/7/97	10.70			mg/kg	10.70		-	mg/kg	
PUMP-1	M	Arsenic	PUMP1-C-5-MP	NONE	479475	1350576	3/7/97	8.00			mg/kg	8.00		-	mg/kg	
PUMP-1	M	Arsenic	PUMP1-C-6-MP	NONE	479480	1350600	3/7/97	8.60			mg/kg	8.60		-	mg/kg	
PUMP-1	M	Arsenic	PUMP1-C-7-MP	NONE	479484	1350617	3/9/97	8.20			mg/kg	8.20		-	mg/kg	
PUMP-1	M	Arsenic	PUMP1-C-8-MP	NONE	479486	1350640	3/9/97	10.00			mg/kg	10.00		-	mg/kg	
PUMP-1	M	Arsenic	PUMP1-C-9-MP	NONE	479503	1350581	3/9/97	10.20			mg/kg	10.20		-	mg/kg	
PUMP-1	M	Beryllium	PUMP1-C-1-MP	NONE	479461	1350576	3/7/97	1.40			mg/kg	1.40		U	mg/kg	
PUMP-1	M	Beryllium	PUMP1-C-10-MP	NONE	479499	1350598	3/9/97	0.92			mg/kg	0.92		U	mg/kg	
PUMP-1	M	Beryllium	PUMP1-C-11-MP	NONE	479516	1350616	3/9/97	0.92			mg/kg	0.92		U	mg/kg	
PUMP-1	M	Beryllium	PUMP1-C-11-MP-D	NONE	479516	1350616	3/9/97	1.00			mg/kg	1.00		U	mg/kg	PUMP1-C-11-MP
PUMP-1	M	Beryllium	PUMP1-C-12-MP	NONE	479511	1350630	3/9/97	0.86			mg/kg	0.86		U	mg/kg	
PUMP-1	M	Beryllium	PUMP1-C-13-MP	NONE	479538	1350583	3/9/97	0.75			mg/kg	0.75		U	mg/kg	
PUMP-1	M	Beryllium	PUMP1-C-14-MP	NONE	479541	1350596	3/9/97	1.10			mg/kg	1.10		U	mg/kg	
PUMP-1	M	Beryllium	PUMP1-C-15-MP	NONE	479520	1350607	3/9/97	0.76			mg/kg	0.76		U	mg/kg	
PUMP-1	M	Beryllium	PUMP1-C-16-MP	NONE	479541	1350624	3/9/97	0.95			mg/kg	0.95		U	mg/kg	
PUMP-1	M	Beryllium	PUMP1-C-2-MP	NONE	479452	1350600	3/7/97	0.93			mg/kg	0.93		U	mg/kg	
PUMP-1	M	Beryllium	PUMP1-C-3-MP	NONE	479460	1350617	3/7/97	0.90			mg/kg	0.90		U	mg/kg	
PUMP-1	M	Beryllium	PUMP1-C-4-MP	NONE	479451	1350629	3/7/97	1.10			mg/kg	1.10		U	mg/kg	
PUMP-1	M	Beryllium	PUMP1-C-5-MP	NONE	479475	1350576	3/7/97	1.50			mg/kg	1.50		U	mg/kg	
PUMP-1	M	Beryllium	PUMP1-C-6-MP	NONE	479480	1350600	3/7/97	1.10			mg/kg	1.10		U	mg/kg	
PUMP-1	M	Beryllium	PUMP1-C-7-MP	NONE	479484	1350617	3/9/97	0.90			mg/kg	0.90		U	mg/kg	
PUMP-1	M	Beryllium	PUMP1-C-8-MP	NONE	479486	1350640	3/9/97	1.00			mg/kg	1.00		U	mg/kg	
PUMP-1	M	Beryllium	PUMP1-C-9-MP	NONE	479503	1350581	3/9/97	1.20			mg/kg	1.20		U	mg/kg	
PUMP-1	R	Cesium-137	PUMP1-C-1-RS	NONE	479461	1350576	3/7/97	-0.02	0.10	U	pCi/g	0.10		U	pCi/g	
PUMP-1	R	Cesium-137	PUMP1-C-10-RS	NONE	479499	1350598	3/9/97	0.00	0.09	U	pCi/g	0.09		U	pCi/g	
PUMP-1	R	Cesium-137	PUMP1-C-11-RS	NONE	479516	1350616	3/9/97	0.15	0.07		pCi/g	0.15	0.07	-	pCi/g	
PUMP-1	R	Cesium-137	PUMP1-C-11-RS-D	NONE	479516	1350616	3/9/97	0.07	0.08	U	pCi/g	0.10		U	pCi/g	PUMP1-C-11-RS
PUMP-1	R	Cesium-137	PUMP1-C-12-RS	NONE	479511	1350630	3/9/97	0.23	0.08		pCi/g	0.23	0.08	-	pCi/g	

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A1P1 CERTIFICATION REPORT - APPENDIX B

								Laboratory Data					Validation Data				
CU Name	CU Type	Parameter	Sample ID	Suffix	Northing	Easting	Sample Date	Lab Result	TPU	Qualifier	Units	Val. Result	TPU	Qualifier	Units	Duplicate of
PUMP-1	R	Cesium-137	PUMP1-C-13-RS	NONE	479538	1350583	3/9/97	0.10	0.14	U	pCi/g	0.12		U	pCi/g	
PUMP-1	R	Cesium-137	PUMP1-C-14-RS	NONE	479541	1350596	3/9/97	0.03	0.07	U	pCi/g	0.09		U	pCi/g	
PUMP-1	R	Cesium-137	PUMP1-C-15-RS	NONE	479520	1350607	3/9/97	0.15	0.09	U	pCi/g	0.15	0.09	J	pCi/g	
PUMP-1	R	Cesium-137	PUMP1-C-16-RS	NONE	479541	1350624	3/9/97	0.03	0.08	U	pCi/g	0.09		U	pCi/g	
PUMP-1	R	Cesium-137	PUMP1-C-2-RS	NONE	479452	1350600	3/7/97	0.28	0.06		pCi/g	0.28	0.06	-	pCi/g	
PUMP-1	R	Cesium-137	PUMP1-C-3-RS	NONE	479460	1350617	3/7/97	0.15	0.13		pCi/g	0.15	0.13	J	pCi/g	
PUMP-1	R	Cesium-137	PUMP1-C-4-RS	NONE	479451	1350629	3/7/97	0.11	0.08	U	pCi/g	0.13		U	pCi/g	
PUMP-1	R	Cesium-137	PUMP1-C-5-RS	NONE	479475	1350576	3/7/97	0.11	0.04		pCi/g	0.11	0.04	-	pCi/g	
PUMP-1	R	Cesium-137	PUMP1-C-6-RS	NONE	479480	1350600	3/7/97	0.01	0.08	U	pCi/g	0.09		U	pCi/g	
PUMP-1	R	Cesium-137	PUMP1-C-7-RS	NONE	479484	1350617	3/9/97	0.06	0.10	U	pCi/g	0.10		U	pCi/g	
PUMP-1	R	Cesium-137	PUMP1-C-8-RS	NONE	479486	1350640	3/9/97	0.16	0.12		pCi/g	0.16	0.12	J	pCi/g	
PUMP-1	R	Cesium-137	PUMP1-C-9-RS	NONE	479503	1350581	3/9/97	0.09	0.06	U	pCi/g	0.10		U	pCi/g	
PUMP-1	R	Moisture Content	PUMP1-C-1-RS	NONE	479461	1350576	3/7/97	22.20			Percent			NV	Percent	
PUMP-1	R	Moisture Content	PUMP1-C-10-RS	NONE	479499	1350598	3/9/97	13.90			Percent			NV	Percent	
PUMP-1	R	Moisture Content	PUMP1-C-11-RS	NONE	479516	1350616	3/9/97	15.10			Percent			NV	Percent	
PUMP-1	R	Moisture Content	PUMP1-C-11-RS-D	NONE	479516	1350616	3/9/97	15.60			Percent			NV	Percent	PUMP1-C-11-RS
PUMP-1	R	Moisture Content	PUMP1-C-12-RS	NONE	479511	1350630	3/9/97	14.70			Percent			NV	Percent	
PUMP-1	R	Moisture Content	PUMP1-C-13-RS	NONE	479538	1350583	3/9/97	14.90			Percent			NV	Percent	
PUMP-1	R	Moisture Content	PUMP1-C-14-RS	NONE	479541	1350596	3/9/97	15.70			Percent			NV	Percent	
PUMP-1	R	Moisture Content	PUMP1-C-15-RS	NONE	479520	1350607	3/9/97	14.60			Percent			NV	Percent	
PUMP-1	R	Moisture Content	PUMP1-C-16-RS	NONE	479541	1350624	3/9/97	13.80			Percent			NV	Percent	
PUMP-1	R	Moisture Content	PUMP1-C-2-RS	NONE	479452	1350600	3/7/97	16.80			Percent			NV	Percent	
PUMP-1	R	Moisture Content	PUMP1-C-3-RS	NONE	479460	1350617	3/7/97	16.80			Percent			NV	Percent	
PUMP-1	R	Moisture Content	PUMP1-C-4-RS	NONE	479451	1350629	3/7/97	16.20			Percent			NV	Percent	
PUMP-1	R	Moisture Content	PUMP1-C-5-RS	NONE	479475	1350576	3/7/97	22.70			Percent			NV	Percent	
PUMP-1	R	Moisture Content	PUMP1-C-6-RS	NONE	479480	1350600	3/7/97	16.70			Percent			NV	Percent	
PUMP-1	R	Moisture Content	PUMP1-C-7-RS	NONE	479484	1350617	3/9/97	15.10			Percent			NV	Percent	
PUMP-1	R	Moisture Content	PUMP1-C-8-RS	NONE	479486	1350640	3/9/97	16.20			Percent			NV	Percent	
PUMP-1	R	Moisture Content	PUMP1-C-9-RS	NONE	479503	1350581	3/9/97	12.10			Percent			NV	Percent	
PUMP-1	R	Radium-226	PUMP1-C-1-RS	NONE	479461	1350576	3/7/97	1.60	0.16		pCi/g	1.64	0.16	-	pCi/g	
PUMP-1	R	Radium-226	PUMP1-C-10-RS	NONE	479499	1350598	3/9/97	1.40	0.15		pCi/g	1.40	0.15	-	pCi/g	
PUMP-1	R	Radium-226	PUMP1-C-11-RS	NONE	479516	1350616	3/9/97	1.30	0.17		pCi/g	1.32	0.17	-	pCi/g	
PUMP-1	R	Radium-226	PUMP1-C-11-RS-D	NONE	479516	1350616	3/9/97	1.30	0.14		pCi/g	1.29	0.14	-	pCi/g	PUMP1-C-11-RS
PUMP-1	R	Radium-226	PUMP1-C-12-RS	NONE	479511	1350630	3/9/97	1.30	0.15		pCi/g	1.33	0.15	-	pCi/g	
PUMP-1	R	Radium-226	PUMP1-C-13-RS	NONE	479538	1350583	3/9/97	1.20	0.15		pCi/g	1.19	0.15	-	pCi/g	
PUMP-1	R	Radium-226	PUMP1-C-14-RS	NONE	479541	1350596	3/9/97	1.40	0.15		pCi/g	1.35	0.15	-	pCi/g	
PUMP-1	R	Radium-226	PUMP1-C-15-RS	NONE	479520	1350607	3/9/97	1.40	0.15		pCi/g	1.37	0.15	-	pCi/g	
PUMP-1	R	Radium-226	PUMP1-C-16-RS	NONE	479541	1350624	3/9/97	1.30	0.16		pCi/g	1.35	0.16	-	pCi/g	
PUMP-1	R	Radium-226	PUMP1-C-2-RS	NONE	479452	1350600	3/7/97	1.30	0.15		pCi/g	1.33	0.15	-	pCi/g	
PUMP-1	R	Radium-226	PUMP1-C-3-RS	NONE	479460	1350617	3/7/97	1.20	0.17		pCi/g	1.22	0.17	-	pCi/g	

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A1P1 CERTIFICATION REPORT - APPENDIX B

								Laboratory Data				Validation Data					
CU Name	CU Type	Parameter	Sample ID	Suffix	Northing	Easting	Sample Date	Lab Result	TPU	Qualifier	Units	Val. Result	TPU	Qualifier	Units	Duplicate of
PUMP-1	R	Radium-226	PUMP1-C-4-RS	NONE	479451	1350629	3/7/97	1.30	0.15		pCi/g	1.32	0.15	-	pCi/g	
PUMP-1	R	Radium-226	PUMP1-C-5-RS	NONE	479475	1350576	3/7/97	1.60	0.18		pCi/g	1.59	0.18	-	pCi/g	
PUMP-1	R	Radium-226	PUMP1-C-6-RS	NONE	479480	1350600	3/7/97	1.50	0.19		pCi/g	1.47	0.19	-	pCi/g	
PUMP-1	R	Radium-226	PUMP1-C-7-RS	NONE	479484	1350617	3/9/97	1.40	0.16		pCi/g	1.43	0.16	-	pCi/g	
PUMP-1	R	Radium-226	PUMP1-C-8-RS	NONE	479486	1350640	3/9/97	1.50	0.17		pCi/g	1.50	0.17	-	pCi/g	
PUMP-1	R	Radium-226	PUMP1-C-9-RS	NONE	479503	1350581	3/9/97	1.20	0.16		pCi/g	1.23	0.16	-	pCi/g	
PUMP-1	R	Radium-228	PUMP1-C-1-RS	NONE	479461	1350576	3/7/97	1.50	0.39		pCi/g	1.47	0.39	-	pCi/g	
PUMP-1	R	Radium-228	PUMP1-C-10-RS	NONE	479499	1350598	3/9/97	1.30	0.34		pCi/g	1.32	0.34	-	pCi/g	
PUMP-1	R	Radium-228	PUMP1-C-11-RS	NONE	479516	1350616	3/9/97	1.10	0.35		pCi/g	1.06	0.35	-	pCi/g	
PUMP-1	R	Radium-228	PUMP1-C-11-RS-D	NONE	479516	1350616	3/9/97	1.40	0.38		pCi/g	1.39	0.38	-	pCi/g	PUMP1-C-11-RS
PUMP-1	R	Radium-228	PUMP1-C-12-RS	NONE	479511	1350630	3/9/97	1.10	0.30		pCi/g	1.12	0.30	-	pCi/g	
PUMP-1	R	Radium-228	PUMP1-C-13-RS	NONE	479538	1350583	3/9/97	1.10	0.35		pCi/g	1.11	0.35	-	pCi/g	
PUMP-1	R	Radium-228	PUMP1-C-14-RS	NONE	479541	1350596	3/9/97	1.20	0.33		pCi/g	1.22	0.33	-	pCi/g	
PUMP-1	R	Radium-228	PUMP1-C-15-RS	NONE	479520	1350607	3/9/97	1.00	0.29		pCi/g	1.03	0.29	-	pCi/g	
PUMP-1	R	Radium-228	PUMP1-C-16-RS	NONE	479541	1350624	3/9/97	1.30	0.35		pCi/g	1.28	0.35	-	pCi/g	
PUMP-1	R	Radium-228	PUMP1-C-2-RS	NONE	479452	1350600	3/7/97	1.10	0.31		pCi/g	1.11	0.31	-	pCi/g	
PUMP-1	R	Radium-228	PUMP1-C-3-RS	NONE	479460	1350617	3/7/97	1.20	0.36		pCi/g	1.22	0.36	-	pCi/g	
PUMP-1	R	Radium-228	PUMP1-C-4-RS	NONE	479451	1350629	3/7/97	1.40	0.38		pCi/g	1.44	0.38	-	pCi/g	
PUMP-1	R	Radium-228	PUMP1-C-5-RS	NONE	479475	1350576	3/7/97	1.40	0.36		pCi/g	1.42	0.36	-	pCi/g	
PUMP-1	R	Radium-228	PUMP1-C-6-RS	NONE	479480	1350600	3/7/97	1.30	0.35		pCi/g	1.31	0.35	-	pCi/g	
PUMP-1	R	Radium-228	PUMP1-C-7-RS	NONE	479484	1350617	3/9/97	1.30	0.36		pCi/g	1.31	0.36	-	pCi/g	
PUMP-1	R	Radium-228	PUMP1-C-8-RS	NONE	479486	1350640	3/9/97	1.20	0.38		pCi/g	1.23	0.38	-	pCi/g	
PUMP-1	R	Radium-228	PUMP1-C-9-RS	NONE	479503	1350581	3/9/97	1.10	0.35		pCi/g	1.08	0.35	-	pCi/g	
PUMP-1	R	Thorium-228	PUMP1-C-1-RS	NONE	479461	1350576	3/7/97	1.40	0.51		pCi/g	1.42	0.51	-	pCi/g	
PUMP-1	R	Thorium-228	PUMP1-C-10-RS	NONE	479499	1350598	3/9/97	1.40	0.52		pCi/g	1.39	0.52	J	pCi/g	
PUMP-1	R	Thorium-228	PUMP1-C-11-RS	NONE	479516	1350616	3/9/97	1.60	0.61		pCi/g	1.55	0.61	J	pCi/g	
PUMP-1	R	Thorium-228	PUMP1-C-11-RS-D	NONE	479516	1350616	3/9/97	1.30	0.47		pCi/g	1.25	0.47	J	pCi/g	PUMP1-C-11-RS
PUMP-1	R	Thorium-228	PUMP1-C-12-RS	NONE	479511	1350630	3/9/97	1.30	0.49		pCi/g	1.28	0.49	J	pCi/g	
PUMP-1	R	Thorium-228	PUMP1-C-13-RS	NONE	479538	1350583	3/9/97	1.20	0.46		pCi/g	1.24	0.46	J	pCi/g	
PUMP-1	R	Thorium-228	PUMP1-C-14-RS	NONE	479541	1350596	3/9/97	1.30	0.51		pCi/g	1.34	0.51	J	pCi/g	
PUMP-1	R	Thorium-228	PUMP1-C-15-RS	NONE	479520	1350607	3/9/97	1.30	0.47	U	pCi/g	1.28	0.47	J	pCi/g	
PUMP-1	R	Thorium-228	PUMP1-C-16-RS	NONE	479541	1350624	3/9/97	1.30	0.50		pCi/g	1.32	0.50	J	pCi/g	
PUMP-1	R	Thorium-228	PUMP1-C-2-RS	NONE	479452	1350600	3/7/97	1.40	0.53		pCi/g	1.42	0.53	J	pCi/g	
PUMP-1	R	Thorium-228	PUMP1-C-3-RS	NONE	479460	1350617	3/7/97	1.30	0.51		pCi/g	1.35	0.51	-	pCi/g	
PUMP-1	R	Thorium-228	PUMP1-C-4-RS	NONE	479451	1350629	3/7/97	1.40	0.58		pCi/g	1.37	0.58	-	pCi/g	
PUMP-1	R	Thorium-228	PUMP1-C-5-RS	NONE	479475	1350576	3/7/97	1.60	0.67		pCi/g	1.61	0.67	-	pCi/g	
PUMP-1	R	Thorium-228	PUMP1-C-6-RS	NONE	479480	1350600	3/7/97	1.20	0.55		pCi/g	1.23	0.55	J	pCi/g	
PUMP-1	R	Thorium-228	PUMP1-C-7-RS	NONE	479484	1350617	3/9/97	1.30	0.55		pCi/g	1.34	0.55	-	pCi/g	
PUMP-1	R	Thorium-228	PUMP1-C-8-RS	NONE	479486	1350640	3/9/97	1.40	0.55		pCi/g	1.43	0.55	-	pCi/g	
PUMP-1	R	Thorium-228	PUMP1-C-9-RS	NONE	479503	1350581	3/9/97	1.40	0.54		pCi/g	1.44	0.54	-	pCi/g	

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A1P1 CERTIFICATION REPORT - APPENDIX B

							Laboratory Data				Validation Data				
CU Name	CU Type	Parameter	Sample ID	Suffix	Northing	Easting	Sample Date	Lab Result	TPU	Qualifier	Units	Val. Result	TPU	Qualifier	Units	Duplicate of
PUMP-1	R	Thorium-230	PUMP1-C-1-RS	NONE	479461	1350576	3/7/97	1.80	0.64		pCi/g	1.80	0.64	-	pCi/g	
PUMP-1	R	Thorium-230	PUMP1-C-10-RS	NONE	479499	1350598	3/9/97	1.50	0.56		pCi/g	1.50	0.56	-	pCi/g	
PUMP-1	R	Thorium-230	PUMP1-C-11-RS	NONE	479516	1350616	3/9/97	1.80	0.69		pCi/g	1.78	0.69	-	pCi/g	
PUMP-1	R	Thorium-230	PUMP1-C-11-RS-D	NONE	479516	1350616	3/9/97	1.60	0.59		pCi/g	1.58	0.59	-	pCi/g	PUMP1-C-11-RS
PUMP-1	R	Thorium-230	PUMP1-C-12-RS	NONE	479511	1350630	3/9/97	1.60	0.61		pCi/g	1.60	0.61	-	pCi/g	
PUMP-1	R	Thorium-230	PUMP1-C-13-RS	NONE	479538	1350583	3/9/97	1.60	0.60		pCi/g	1.63	0.60	J	pCi/g	
PUMP-1	R	Thorium-230	PUMP1-C-14-RS	NONE	479541	1350596	3/9/97	1.50	0.55		pCi/g	1.46	0.55	-	pCi/g	
PUMP-1	R	Thorium-230	PUMP1-C-15-RS	NONE	479520	1350607	3/9/97	1.40	0.51		pCi/g	1.41	0.51	-	pCi/g	
PUMP-1	R	Thorium-230	PUMP1-C-16-RS	NONE	479541	1350624	3/9/97	1.50	0.54		pCi/g	1.45	0.54	J	pCi/g	
PUMP-1	R	Thorium-230	PUMP1-C-2-RS	NONE	479452	1350600	3/7/97	1.80	0.66		pCi/g	1.76	0.66	J	pCi/g	
PUMP-1	R	Thorium-230	PUMP1-C-3-RS	NONE	479460	1350617	3/7/97	1.60	0.60		pCi/g	1.61	0.60	-	pCi/g	
PUMP-1	R	Thorium-230	PUMP1-C-4-RS	NONE	479451	1350629	3/7/97	1.60	0.68		pCi/g	1.60	0.68	-	pCi/g	
PUMP-1	R	Thorium-230	PUMP1-C-5-RS	NONE	479475	1350576	3/7/97	1.90	0.80		pCi/g	1.92	0.80	-	pCi/g	
PUMP-1	R	Thorium-230	PUMP1-C-6-RS	NONE	479480	1350600	3/7/97	1.60	0.69		pCi/g	1.56	0.69	J	pCi/g	
PUMP-1	R	Thorium-230	PUMP1-C-7-RS	NONE	479484	1350617	3/9/97	1.50	0.59		pCi/g	1.46	0.59	-	pCi/g	
PUMP-1	R	Thorium-230	PUMP1-C-8-RS	NONE	479486	1350640	3/9/97	1.60	0.61		pCi/g	1.60	0.61	-	pCi/g	
PUMP-1	R	Thorium-230	PUMP1-C-9-RS	NONE	479503	1350581	3/9/97	1.70	0.62		pCi/g	1.66	0.62	-	pCi/g	
PUMP-1	R	Thorium-232	PUMP1-C-1-RS	NONE	479461	1350576	3/7/97	1.30	0.45		pCi/g	1.26	0.45	-	pCi/g	
PUMP-1	R	Thorium-232	PUMP1-C-10-RS	NONE	479499	1350598	3/9/97	1.00	0.39		pCi/g	1.01	0.39	-	pCi/g	
PUMP-1	R	Thorium-232	PUMP1-C-11-RS	NONE	479516	1350616	3/9/97	1.10	0.45		pCi/g	1.15	0.45	-	pCi/g	
PUMP-1	R	Thorium-232	PUMP1-C-11-RS-D	NONE	479516	1350616	3/9/97	1.10	0.41		pCi/g	1.08	0.41	-	pCi/g	PUMP1-C-11-RS
PUMP-1	R	Thorium-232	PUMP1-C-12-RS	NONE	479511	1350630	3/9/97	0.95	0.37		pCi/g	0.95	0.37	-	pCi/g	
PUMP-1	R	Thorium-232	PUMP1-C-13-RS	NONE	479538	1350583	3/9/97	1.10	0.41		pCi/g	1.09	0.41	J	pCi/g	
PUMP-1	R	Thorium-232	PUMP1-C-14-RS	NONE	479541	1350596	3/9/97	0.94	0.36		pCi/g	0.94	0.36	-	pCi/g	
PUMP-1	R	Thorium-232	PUMP1-C-15-RS	NONE	479520	1350607	3/9/97	0.89	0.33		pCi/g	0.89	0.33	-	pCi/g	
PUMP-1	R	Thorium-232	PUMP1-C-16-RS	NONE	479541	1350624	3/9/97	1.10	0.43		pCi/g	1.13	0.43	-	pCi/g	
PUMP-1	R	Thorium-232	PUMP1-C-2-RS	NONE	479452	1350600	3/7/97	1.20	0.45		pCi/g	1.20	0.45	J	pCi/g	
PUMP-1	R	Thorium-232	PUMP1-C-3-RS	NONE	479460	1350617	3/7/97	1.10	0.43		pCi/g	1.15	0.43	-	pCi/g	
PUMP-1	R	Thorium-232	PUMP1-C-4-RS	NONE	479451	1350629	3/7/97	1.20	0.52		pCi/g	1.20	0.52	-	pCi/g	
PUMP-1	R	Thorium-232	PUMP1-C-5-RS	NONE	479475	1350576	3/7/97	1.50	0.63		pCi/g	1.49	0.63	-	pCi/g	
PUMP-1	R	Thorium-232	PUMP1-C-6-RS	NONE	479480	1350600	3/7/97	1.10	0.49		pCi/g	1.08	0.49	J	pCi/g	
PUMP-1	R	Thorium-232	PUMP1-C-7-RS	NONE	479484	1350617	3/9/97	0.94	0.39		pCi/g	0.94	0.39	-	pCi/g	
PUMP-1	R	Thorium-232	PUMP1-C-8-RS	NONE	479486	1350640	3/9/97	1.10	0.44		pCi/g	1.13	0.44	-	pCi/g	
PUMP-1	R	Thorium-232	PUMP1-C-9-RS	NONE	479503	1350581	3/9/97	0.94	0.36		pCi/g	0.94	0.36	-	pCi/g	
PUMP-1	R	Uranium, Total	PUMP1-C-1-RS	NONE	479461	1350576	3/7/97				ug/g	7.81	1.74	-	ug/g	
PUMP-1	R	Uranium, Total	PUMP1-C-10-RS	NONE	479499	1350598	3/9/97				ug/g	3.54	1.22	-	ug/g	
PUMP-1	R	Uranium, Total	PUMP1-C-11-RS	NONE	479516	1350616	3/9/97				ug/g	11.88	3.21	-	ug/g	
PUMP-1	R	Uranium, Total	PUMP1-C-11-RS-D	NONE	479516	1350616	3/9/97				ug/g	9.10	2.62	-	ug/g	PUMP1-C-11-RS
PUMP-1	R	Uranium, Total	PUMP1-C-12-RS	NONE	479511	1350630	3/9/97				ug/g	8.02	1.74	-	ug/g	
PUMP-1	R	Uranium, Total	PUMP1-C-13-RS	NONE	479538	1350583	3/9/97				ug/g	8.81	2.65	-	ug/g	

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								Laboratory Data				Validation Data				
CU Name	CU Type	Parameter	Sample ID	Suffix	Northing	Easting	Sample Date	Lab Result	TPU	Qualifier	Units	Val. Result	TPU	Qualifier	Units	Duplicate of
PUMP-1	R	Uranium, Total	PUMP1-C-14-RS	NONE	479541	1350596	3/9/97				ug/g	3.63	1.98	J	ug/g	
PUMP-1	R	Uranium, Total	PUMP1-C-15-RS	NONE	479520	1350607	3/9/97				ug/g	6.05	1.46	-	ug/g	
PUMP-1	R	Uranium, Total	PUMP1-C-16-RS	NONE	479541	1350624	3/9/97				ug/g	6.51	2.57	-	ug/g	
PUMP-1	R	Uranium, Total	PUMP1-C-2-RS	NONE	479452	1350600	3/7/97				ug/g	15.00	3.05	-	ug/g	
PUMP-1	R	Uranium, Total	PUMP1-C-3-RS	NONE	479460	1350617	3/7/97				ug/g	9.52	2.56	-	ug/g	
PUMP-1	R	Uranium, Total	PUMP1-C-4-RS	NONE	479451	1350629	3/7/97				ug/g	8.49	2.77	-	ug/g	
PUMP-1	R	Uranium, Total	PUMP1-C-5-RS	NONE	479475	1350576	3/7/97				ug/g	7.92	1.53	-	ug/g	
PUMP-1	R	Uranium, Total	PUMP1-C-6-RS	NONE	479480	1350600	3/7/97				ug/g	3.72	2.24	J	ug/g	
PUMP-1	R	Uranium, Total	PUMP1-C-7-RS	NONE	479484	1350617	3/9/97				ug/g	6.87	1.61	-	ug/g	
PUMP-1	R	Uranium, Total	PUMP1-C-8-RS	NONE	479486	1350640	3/9/97				ug/g	6.10	3.18	J	ug/g	
PUMP-1	R	Uranium, Total	PUMP1-C-9-RS	NONE	479503	1350581	3/9/97				ug/g	10.49	2.85	-	ug/g	
PUMP-1	R	Uranium-238	PUMP1-C-1-RS	NONE	479461	1350576	3/7/97	2.60	0.58		pCi/g	2.60	0.58	-	pCi/g	
PUMP-1	R	Uranium-238	PUMP1-C-10-RS	NONE	479499	1350598	3/9/97	1.20	0.41		pCi/g	1.18	0.41	-	pCi/g	
PUMP-1	R	Uranium-238	PUMP1-C-11-RS	NONE	479516	1350616	3/9/97	4.00	1.10		pCi/g	3.96	1.07	-	pCi/g	
PUMP-1	R	Uranium-238	PUMP1-C-11-RS-D	NONE	479516	1350616	3/9/97	3.00	0.87		pCi/g	3.03	0.87	-	pCi/g	PUMP1-C-11-RS
PUMP-1	R	Uranium-238	PUMP1-C-12-RS	NONE	479511	1350630	3/9/97	2.70	0.58		pCi/g	2.67	0.58	-	pCi/g	
PUMP-1	R	Uranium-238	PUMP1-C-13-RS	NONE	479538	1350583	3/9/97	2.90	0.88		pCi/g	2.94	0.88	-	pCi/g	
PUMP-1	R	Uranium-238	PUMP1-C-14-RS	NONE	479541	1350596	3/9/97	1.20	0.66		pCi/g	1.21	0.66	J	pCi/g	
PUMP-1	R	Uranium-238	PUMP1-C-15-RS	NONE	479520	1350607	3/9/97	2.00	0.49		pCi/g	2.02	0.49	-	pCi/g	
PUMP-1	R	Uranium-238	PUMP1-C-16-RS	NONE	479541	1350624	3/9/97	2.20	0.86		pCi/g	2.17	0.86	-	pCi/g	
PUMP-1	R	Uranium-238	PUMP1-C-2-RS	NONE	479452	1350600	3/7/97	5.00	1.00		pCi/g	5.00	1.02	-	pCi/g	
PUMP-1	R	Uranium-238	PUMP1-C-3-RS	NONE	479460	1350617	3/7/97	3.20	0.85		pCi/g	3.18	0.85	-	pCi/g	
PUMP-1	R	Uranium-238	PUMP1-C-4-RS	NONE	479451	1350629	3/7/97	2.80	0.92		pCi/g	2.83	0.92	-	pCi/g	
PUMP-1	R	Uranium-238	PUMP1-C-5-RS	NONE	479475	1350576	3/7/97	2.60	0.51		pCi/g	2.64	0.51	-	pCi/g	
PUMP-1	R	Uranium-238	PUMP1-C-6-RS	NONE	479480	1350600	3/7/97	1.20	0.75	U	pCi/g	1.24	0.75	J	pCi/g	
PUMP-1	R	Uranium-238	PUMP1-C-7-RS	NONE	479484	1350617	3/9/97	2.30	0.54		pCi/g	2.29	0.54	-	pCi/g	
PUMP-1	R	Uranium-238	PUMP1-C-8-RS	NONE	479486	1350640	3/9/97	2.00	1.10		pCi/g	2.04	1.06	J	pCi/g	
PUMP-1	R	Uranium-238	PUMP1-C-9-RS	NONE	479503	1350581	3/9/97	3.50	0.95		pCi/g	3.50	0.95	-	pCi/g	
Q16-33	R	Moisture Content	P17-22C-400417	NONE	481400.42	1351418	12/6/96	24.80			Percent	24.80		NV	Percent	
Q16-33	R	Moisture Content	Q16-33C-415297	NONE	481297.49	1351416	12/3/96	20.30			Percent	20.30		NV	Percent	
Q16-33	R	Moisture Content	Q16-33C-419394	NONE	481394.86	1351420	12/3/96	22.00			Percent	22.00		NV	Percent	
Q16-33	R	Moisture Content	Q16-33C-443311	NONE	481311.33	1351444	12/3/96	20.80			Percent	20.80		NV	Percent	
Q16-33	R	Moisture Content	Q16-33C-476366	NONE	481366.76	1351477	12/3/96	24.60			Percent	24.60		NV	Percent	
Q16-33	R	Moisture Content	Q16-33C-478339	NONE	481339.25	1351479	12/3/96	24.00			Percent	24.00		NV	Percent	
Q16-33	R	Moisture Content	Q16-33C-495260	NONE	481260.39	1351496	12/3/96	25.10			Percent	25.10		NV	Percent	
Q16-33	R	Moisture Content	Q16-33C-532385	NONE	481385.83	1351533	12/3/96	19.00			Percent	19.00		NV	Percent	
Q16-33	R	Moisture Content	Q16-33C-534284	NONE	481284.77	1351534	12/3/96	20.50			Percent	20.50		NV	Percent	
Q16-33	R	Moisture Content	Q16-33C-540239	NONE	481239.55	1351541	12/3/96	21.40			Percent				Percent	
Q16-33	R	Moisture Content	Q16-33C-546349	NONE	481349.7	1351465	12/3/96	19.60			Percent	19.60		NV	Percent	

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								Laboratory Data				Validation Data				
CU Name	CU Type	Parameter	Sample ID	Suffix	Northing	Easting	Sample Date	Lab Result	TPU	Qualifier	Units	Val. Result	TPU	Qualifier	Units	Duplicate of
Q16-33	R	Moisture Content	Q16-33C-553248	NONE	481248.89	1351554	12/3/96	18.90			Percent	18.90		NV	Percent	
Q16-33	R	Moisture Content	Q16-33C-590295	NONE	481295.94	1351590	12/3/96	17.90			Percent	17.90		NV	Percent	
Q16-33	R	Radium-226	P17-22C-400417	NONE	481400.42	1351418	12/6/96	1.40	0.16		pCi/g	1.40	0.16	-	pCi/g	
Q16-33	R	Radium-226	Q16-33C-415297	NONE	481297.49	1351416	12/3/96	1.35	0.30		pCi/g	1.35	0.30	-	pCi/g	
Q16-33	R	Radium-226	Q16-33C-419394	NONE	481394.86	1351420	12/3/96	1.03	0.36		pCi/g	1.03	0.36	-	pCi/g	
Q16-33	R	Radium-226	Q16-33C-443311	NONE	481311.33	1351444	12/3/96	1.36	0.28		pCi/g	1.36	0.28	-	pCi/g	
Q16-33	R	Radium-226	Q16-33C-476366	NONE	481366.76	1351477	12/3/96	1.03	0.30		pCi/g	1.03	0.30	-	pCi/g	
Q16-33	R	Radium-226	Q16-33C-478339	NONE	481339.25	1351479	12/3/96	0.99	0.34		pCi/g	0.99	0.34	-	pCi/g	
Q16-33	R	Radium-226	Q16-33C-495260	NONE	481260.39	1351496	12/3/96	1.09	0.15		pCi/g	1.09	0.15	-	pCi/g	
Q16-33	R	Radium-226	Q16-33C-532385	NONE	481385.83	1351533	12/3/96	1.47	0.39		pCi/g	1.47	0.39	-	pCi/g	
Q16-33	R	Radium-226	Q16-33C-534284	NONE	481284.77	1351534	12/3/96	0.90	0.32		pCi/g	0.90	0.32	-	pCi/g	
Q16-33	R	Radium-226	Q16-33C-540239	NONE	481239.55	1351541	12/3/96	1.84	0.53		pCi/g	1.84	0.53	-	pCi/g	
Q16-33	R	Radium-226	Q16-33C-546349	NONE	481349.7	1351465	12/3/96	1.44	0.39		pCi/g	1.44	0.39	-	pCi/g	
Q16-33	R	Radium-226	Q16-33C-553248	NONE	481248.89	1351554	12/3/96	1.34	0.32		pCi/g	1.34	0.32	-	pCi/g	
Q16-33	R	Radium-226	Q16-33C-590295	NONE	481295.94	1351590	12/3/96	0.69	0.32		pCi/g	0.69	0.32	-	pCi/g	
Q16-33	R	Radium-228	P17-22C-400417	NONE	481400.42	1351418	12/6/96	1.30	0.34		pCi/g	1.30	0.34	-	pCi/g	
Q16-33	R	Radium-228	Q16-33C-415297	NONE	481297.49	1351416	12/3/96	1.40	0.59		pCi/g	1.40	0.59	-	pCi/g	
Q16-33	R	Radium-228	Q16-33C-419394	NONE	481394.86	1351420	12/3/96	1.14	0.57		pCi/g	1.14	0.57	-	pCi/g	
Q16-33	R	Radium-228	Q16-33C-443311	NONE	481311.33	1351444	12/3/96	0.62	0.62	U	pCi/g	0.86		UJ	pCi/g	
Q16-33	R	Radium-228	Q16-33C-476366	NONE	481366.76	1351477	12/3/96	1.32	0.68		pCi/g	1.32	0.68	J	pCi/g	
Q16-33	R	Radium-228	Q16-33C-478339	NONE	481339.25	1351479	12/3/96	1.18	0.71		pCi/g	1.18	0.71	J	pCi/g	
Q16-33	R	Radium-228	Q16-33C-495260	NONE	481260.39	1351496	12/3/96	1.41	0.37		pCi/g	1.41	0.37	-	pCi/g	
Q16-33	R	Radium-228	Q16-33C-532385	NONE	481385.83	1351533	12/3/96	1.35	0.74		pCi/g	1.35	0.74	J	pCi/g	
Q16-33	R	Radium-228	Q16-33C-534284	NONE	481284.77	1351534	12/3/96	1.49	0.68		pCi/g	1.49	0.68	-	pCi/g	
Q16-33	R	Radium-228	Q16-33C-540239	NONE	481239.55	1351541	12/3/96	1.61	0.84		pCi/g	1.61	0.84	J	pCi/g	
Q16-33	R	Radium-228	Q16-33C-546349	NONE	481349.7	1351465	12/3/96	1.71	0.71		pCi/g	1.71	0.71	-	pCi/g	
Q16-33	R	Radium-228	Q16-33C-553248	NONE	481248.89	1351554	12/3/96	1.75	0.74		pCi/g	1.75	0.74	-	pCi/g	
Q16-33	R	Radium-228	Q16-33C-590295	NONE	481295.94	1351590	12/3/96	0.92	0.49		pCi/g	0.92	0.49	J	pCi/g	
Q16-33	R	Thorium-228	P17-22C-400417	NONE	481400.42	1351418	12/6/96	1.30	0.51		pCi/g	1.30	0.51	J	pCi/g	
Q16-33	R	Thorium-228	Q16-33C-415297	NONE	481297.49	1351416	12/3/96	1.22	0.14		pCi/g	1.25	0.14	J	pCi/g	
Q16-33	R	Thorium-228	Q16-33C-419394	NONE	481394.86	1351420	12/3/96	1.11	0.10		pCi/g	1.14	0.10	-	pCi/g	
Q16-33	R	Thorium-228	Q16-33C-443311	NONE	481311.33	1351444	12/3/96	1.19	0.10		pCi/g	1.22	0.10	-	pCi/g	
Q16-33	R	Thorium-228	Q16-33C-476366	NONE	481366.76	1351477	12/3/96	1.11	0.10		pCi/g	1.14	0.09	-	pCi/g	
Q16-33	R	Thorium-228	Q16-33C-478339	NONE	481339.25	1351479	12/3/96	1.23	0.10		pCi/g	1.26	0.10	-	pCi/g	
Q16-33	R	Thorium-228	Q16-33C-495260	NONE	481260.39	1351496	12/3/96	1.26	0.10		pCi/g	1.29	0.10	-	pCi/g	
Q16-33	R	Thorium-228	Q16-33C-532385	NONE	481385.83	1351533	12/3/96	1.12	0.10		pCi/g	1.15	0.09	-	pCi/g	
Q16-33	R	Thorium-228	Q16-33C-534284	NONE	481284.77	1351534	12/3/96	1.46	0.12		pCi/g	1.49	0.12	J	pCi/g	
Q16-33	R	Thorium-228	Q16-33C-540239	NONE	481239.55	1351541	12/3/96	1.61	0.18		pCi/g	1.64	0.18	J	pCi/g	
Q16-33	R	Thorium-228	Q16-33C-546349	NONE	481349.7	1351465	12/3/96	1.32	0.14		pCi/g	1.37	0.14	J	pCi/g	
Q16-33	R	Thorium-228	Q16-33C-553248	NONE	481248.89	1351554	12/3/96	1.24	0.16		pCi/g	1.29	0.16	J	pCi/g	

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A1P1 CERTIFICATION REPORT - APPENDIX B

							Laboratory Data				Validation Data				
CU Name	CU Type	Parameter	Sample ID	Suffix	Northing	Easting	Sample Date	Lab Result	TPU	Qualifier	Units	Val. Result	TPU	Qualifier	Units	Duplicate of
Q16-33	R	Thorium-228	Q16-33C-590295	NONE	481295.94	1351590	12/3/96	1.39	0.11		pCi/g	1.42	0.11	-	pCi/g	
Q16-33	R	Thorium-232	P17-22C-400417	NONE	481400.42	1351418	12/6/96	1.30	0.49		pCi/g	1.30	0.49	J	pCi/g	
Q16-33	R	Thorium-232	Q16-33C-415297	NONE	481297.49	1351416	12/3/96	1.25	0.13		pCi/g	1.25	0.13	J	pCi/g	
Q16-33	R	Thorium-232	Q16-33C-419394	NONE	481394.86	1351420	12/3/96	1.17	0.09		pCi/g	1.17	0.09	-	pCi/g	
Q16-33	R	Thorium-232	Q16-33C-443311	NONE	481311.33	1351444	12/3/96	1.24	0.09		pCi/g	1.24	0.09	-	pCi/g	
Q16-33	R	Thorium-232	Q16-33C-476366	NONE	481366.76	1351477	12/3/96	1.18	0.09		pCi/g	1.18	0.09	-	pCi/g	
Q16-33	R	Thorium-232	Q16-33C-478339	NONE	481339.25	1351479	12/3/96	1.22	0.09		pCi/g	1.22	0.09	-	pCi/g	
Q16-33	R	Thorium-232	Q16-33C-495260	NONE	481260.39	1351496	12/3/96	1.21	0.09		pCi/g	1.21	0.09	-	pCi/g	
Q16-33	R	Thorium-232	Q16-33C-532385	NONE	481385.83	1351533	12/3/96	1.32	0.10		pCi/g	1.32	0.10	-	pCi/g	
Q16-33	R	Thorium-232	Q16-33C-534284	NONE	481284.77	1351534	12/3/96	1.38	0.11		pCi/g	1.38	0.11	-	pCi/g	
Q16-33	R	Thorium-232	Q16-33C-540239	NONE	481239.55	1351541	12/3/96	1.34	0.16		pCi/g	1.34	0.16	J	pCi/g	
Q16-33	R	Thorium-232	Q16-33C-546349	NONE	481349.7	1351465	12/3/96	1.26	0.13		pCi/g	1.26	0.13	J	pCi/g	
Q16-33	R	Thorium-232	Q16-33C-553248	NONE	481248.89	1351554	12/3/96	1.37	0.16		pCi/g	1.37	0.16	J	pCi/g	
Q16-33	R	Thorium-232	Q16-33C-590295	NONE	481295.94	1351590	12/3/96	1.22	0.10		pCi/g	1.22	0.10	-	pCi/g	
Q16-33	R	Uranium, Total	P17-22C-400417	NONE	481400.42	1351418	12/6/96				ug/g	29.99	4.80	-	ug/g	
Q16-33	R	Uranium, Total	Q16-33C-415297	NONE	481297.49	1351416	12/3/96				ug/g	13.14		U	ug/g	
Q16-33	R	Uranium, Total	Q16-33C-419394	NONE	481394.86	1351420	12/3/96				ug/g	23.96		-	ug/g	
Q16-33	R	Uranium, Total	Q16-33C-443311	NONE	481311.33	1351444	12/3/96				ug/g	7.50		U	ug/g	
Q16-33	R	Uranium, Total	Q16-33C-476366	NONE	481366.76	1351477	12/3/96				ug/g	33.58		-	ug/g	
Q16-33	R	Uranium, Total	Q16-33C-478339	NONE	481339.25	1351479	12/3/96				ug/g	30.59		-	ug/g	
Q16-33	R	Uranium, Total	Q16-33C-495260	NONE	481260.39	1351496	12/3/96				ug/g	35.23		-	ug/g	
Q16-33	R	Uranium, Total	Q16-33C-532385	NONE	481385.83	1351533	12/3/96				ug/g	29.21		-	ug/g	
Q16-33	R	Uranium, Total	Q16-33C-534284	NONE	481284.77	1351534	12/3/96				ug/g	26.36		-	ug/g	
Q16-33	R	Uranium, Total	Q16-33C-540239	NONE	481239.55	1351541	12/3/96				ug/g	15.29		U	ug/g	
Q16-33	R	Uranium, Total	Q16-33C-546349	NONE	481349.7	1351465	12/3/96				ug/g	8.70		U	ug/g	
Q16-33	R	Uranium, Total	Q16-33C-553248	NONE	481248.89	1351554	12/3/96				ug/g	20.73		J	ug/g	
Q16-33	R	Uranium, Total	Q16-33C-590295	NONE	481295.94	1351590	12/3/96				ug/g	9.30		U	ug/g	
Q16-33	R	Uranium-238	P17-22C-400417	NONE	481400.42	1351418	12/6/96	10.00	1.60		pCi/g	10.00	1.60	-	pCi/g	
Q16-33	R	Uranium-238	Q16-33C-415297	NONE	481297.49	1351416	12/3/96	0.34	2.70	U	pCi/g	4.38		U	pCi/g	
Q16-33	R	Uranium-238	Q16-33C-419394	NONE	481394.86	1351420	12/3/96	7.99	2.30		pCi/g	7.99		-	pCi/g	
Q16-33	R	Uranium-238	Q16-33C-443311	NONE	481311.33	1351444	12/3/96	1.31	1.60	U	pCi/g	2.50		U	pCi/g	
Q16-33	R	Uranium-238	Q16-33C-476366	NONE	481366.76	1351477	12/3/96	11.20	2.60		pCi/g	11.20		-	pCi/g	
Q16-33	R	Uranium-238	Q16-33C-478339	NONE	481339.25	1351479	12/3/96	10.20	3.20		pCi/g	10.20		-	pCi/g	
Q16-33	R	Uranium-238	Q16-33C-495260	NONE	481260.39	1351496	12/3/96	11.80	2.20		pCi/g	11.75		-	pCi/g	
Q16-33	R	Uranium-238	Q16-33C-532385	NONE	481385.83	1351533	12/3/96	9.74	2.50		pCi/g	9.74		-	pCi/g	
Q16-33	R	Uranium-238	Q16-33C-534284	NONE	481284.77	1351534	12/3/96	8.79	2.70		pCi/g	8.79		-	pCi/g	
Q16-33	R	Uranium-238	Q16-33C-540239	NONE	481239.55	1351541	12/3/96	2.53	3.20	U	pCi/g	5.10		U	pCi/g	
Q16-33	R	Uranium-238	Q16-33C-546349	NONE	481349.7	1351465	12/3/96	1.27	1.80	U	pCi/g	2.90		U	pCi/g	
Q16-33	R	Uranium-238	Q16-33C-553248	NONE	481248.89	1351554	12/3/96	6.91	3.90		pCi/g	6.91		J	pCi/g	
Q16-33	R	Uranium-238	Q16-33C-590295	NONE	481295.94	1351590	12/3/96	1.57	1.90	U	pCi/g	3.10		U	pCi/g	

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							Laboratory Data				Validation Data				
CU Name	CU Type	Parameter	Sample ID	Suffix	Northing	Easting	Sample Date	Lab Result	TPU	Qualifier	Units	Val. Result	TPU	Qualifier	Units	Duplicate of
Q16-34	R	Moisture Content	Q16-34C-641312	NONE	481312.67	1351641	11/15/96	17.33			Percent	17.33		NV	Percent	
Q16-34	R	Moisture Content	Q16-34C-649355	NONE	481355.63	1351649	11/15/96	17.79			Percent	17.79		NV	Percent	
Q16-34	R	Moisture Content	Q16-34C-690392	NONE	481392.45	1351691	11/15/96	17.85			Percent	17.85		NV	Percent	
Q16-34	R	Moisture Content	Q16-34C-709292	NONE	481292.81	1351710	11/15/96	17.52			Percent	17.52		NV	Percent	
Q16-34	R	Moisture Content	Q16-34C-711328	NONE	481328.92	1351711	11/15/96	17.03			Percent	17.03		NV	Percent	
Q16-34	R	Moisture Content	Q16-34C-711328-D	NONE	481328.92	1351711	11/15/96	20.41			Percent	20.41		NV	Percent	Q16-34C-711328
Q16-34	R	Moisture Content	Q16-34C-726243	NONE	481243.52	1351727	11/15/96	16.32			Percent	16.32		NV	Percent	
Q16-34	R	Moisture Content	Q16-34C-776325	NONE	481325.68	1351776	11/15/96	17.39			Percent	17.39		NV	Percent	
Q16-34	R	Moisture Content	Q16-34C-795356	NONE	481356.73	1351795	11/19/96	19.30			Percent				Percent	
Q16-34	R	Moisture Content	Q16-34C-796258	NONE	481258.53	1351797	11/15/96	18.42			Percent	18.42		NV	Percent	
Q16-34	R	Moisture Content	Q16-34C-815206	NONE	481206.58	1351815	11/15/96	19.43			Percent	19.43		NV	Percent	
Q16-34	R	Moisture Content	Q16-34C-821347	NONE	481325.76	1351833	11/19/96	23.00			Percent			NV	Percent	
Q16-34	R	Moisture Content	Q16-34C2-R-1	NONE	481312.67	1351641	3/5/97	17.28			Percent			NV	Percent	
Q16-34	R	Moisture Content	Q16-34C2-R-10	NONE	481258.53	1351797	3/5/97	17.16			Percent			NV	Percent	
Q16-34	R	Moisture Content	Q16-34C2-R-11	NONE	481206.58	1351815	3/5/97	18.08			Percent			NV	Percent	
Q16-34	R	Moisture Content	Q16-34C2-R-2	NONE	481355.63	1351649	3/5/97	20.50			Percent			NV	Percent	
Q16-34	R	Moisture Content	Q16-34C2-R-4	NONE	481292.81	1351710	3/5/97	15.61			Percent			NV	Percent	
Q16-34	R	Moisture Content	Q16-34C2-R-5	NONE	481328.92	1351711	3/5/97	17.50			Percent			NV	Percent	
Q16-34	R	Moisture Content	Q16-34C2-R-6	NONE	481328.92	1351711	3/5/97	17.90			Percent			NV	Percent	
Q16-34	R	Moisture Content	Q16-34C2-R-8	NONE	481243.52	1351727	3/5/97	18.33			Percent			NV	Percent	
Q16-34	R	Moisture Content	Q16-34C2-R-9	NONE	481325.68	1351776	3/5/97	16.08			Percent			NV	Percent	
Q16-34	R	Moisture Content	Q16-34C2-R-9-D	NONE	481325.68	1351776	3/5/97	14.55			Percent			NV	Percent	Q16-34C2-R-9
Q16-34	R	Moisture Content	Q16-34C3-R-1	NONE	481215	1351721	3/24/97	16.60			Percent			NV	Percent	
Q16-34	R	Radium-226	Q16-34C-641312	NONE	481312.67	1351641	11/15/96	1.10	0.22		pCi/g	1.08		-	pCi/g	
Q16-34	R	Radium-226	Q16-34C-649355	NONE	481355.63	1351649	11/15/96	1.30	0.21		pCi/g	1.30		J	pCi/g	
Q16-34	R	Radium-226	Q16-34C-690392	NONE	481392.45	1351691	11/15/96	1.20	0.28		pCi/g	1.20		J	pCi/g	
Q16-34	R	Radium-226	Q16-34C-709292	NONE	481292.81	1351710	11/15/96	1.10	0.21		pCi/g	1.10		J	pCi/g	
Q16-34	R	Radium-226	Q16-34C-711328	NONE	481328.92	1351711	11/15/96	1.10	0.19		pCi/g	1.08		-	pCi/g	
Q16-34	R	Radium-226	Q16-34C-711328-D	NONE	481328.92	1351711	11/15/96	1.40	0.23		pCi/g	1.35		J	pCi/g	Q16-34C-711328
Q16-34	R	Radium-226	Q16-34C-726243	NONE	481243.52	1351727	11/15/96	1.20	0.20		pCi/g	1.20		J	pCi/g	
Q16-34	R	Radium-226	Q16-34C-776325	NONE	481325.68	1351776	11/15/96	1.10	0.26		pCi/g	1.10		J	pCi/g	
Q16-34	R	Radium-226	Q16-34C-795356	NONE	481356.73	1351795	11/19/96	1.45	0.30		pCi/g	1.45	0.30	-	pCi/g	
Q16-34	R	Radium-226	Q16-34C-796258	NONE	481258.53	1351797	11/15/96	1.20	0.23		pCi/g	1.16		-	pCi/g	
Q16-34	R	Radium-226	Q16-34C-815206	NONE	481206.58	1351815	11/15/96	1.20	0.20		pCi/g	1.20		J	pCi/g	
Q16-34	R	Radium-226	Q16-34C-821347	NONE	481325.76	1351833	11/19/96	1.08	0.25		pCi/g	1.08	0.25	-	pCi/g	
Q16-34	R	Radium-226	Q16-34C3-R-1	NONE	481215	1351721	3/24/97	1.50	0.18		pCi/g	1.47	0.18	-	pCi/g	
Q16-34	R	Radium-228	Q16-34C-641312	NONE	481312.67	1351641	11/15/96	1.30	0.34		pCi/g	1.25		-	pCi/g	
Q16-34	R	Radium-228	Q16-34C-649355	NONE	481355.63	1351649	11/15/96	1.40	0.32		pCi/g	1.40		-	pCi/g	
Q16-34	R	Radium-228	Q16-34C-690392	NONE	481392.45	1351691	11/15/96	1.30	0.31		pCi/g	1.30		-	pCi/g	

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CU Name	CU Type	Parameter	Sample ID	Suffix	Northing	Easting	Laboratory Data					Validation Data				
							Sample Date	Lab Result	TPU	Qualifier	Units	Val. Result	TPU	Qualifier	Units	Duplicate of
Q16-34	R	Radium-228	Q16-34C-709292	NONE	481292.81	1351710	11/15/96	1.10	0.33		pCi/g	1.10		-	pCi/g	
Q16-34	R	Radium-228	Q16-34C-711328	NONE	481328.92	1351711	11/15/96	1.40	0.36		pCi/g	1.35		-	pCi/g	
Q16-34	R	Radium-228	Q16-34C-711328-D	NONE	481328.92	1351711	11/15/96	1.30	0.34		pCi/g	1.28		-	pCi/g	Q16-34C-711328
Q16-34	R	Radium-228	Q16-34C-726243	NONE	481243.52	1351727	11/15/96	0.95	0.30		pCi/g	0.95		-	pCi/g	
Q16-34	R	Radium-228	Q16-34C-776325	NONE	481325.68	1351776	11/15/96	0.95	0.35		pCi/g	0.95		-	pCi/g	
Q16-34	R	Radium-228	Q16-34C-795356	NONE	481356.73	1351795	11/19/96	1.57	0.63		pCi/g	1.57	0.63	-	pCi/g	
Q16-34	R	Radium-228	Q16-34C-796258	NONE	481258.53	1351797	11/15/96	1.20	0.42		pCi/g	1.24		-	pCi/g	
Q16-34	R	Radium-228	Q16-34C-815206	NONE	481206.58	1351815	11/15/96	1.40	0.30		pCi/g	1.40		-	pCi/g	
Q16-34	R	Radium-228	Q16-34C-821347	NONE	481325.76	1351833	11/19/96	1.36	0.45		pCi/g	1.36	0.45	-	pCi/g	
Q16-34	R	Radium-228	Q16-34C3-R-1	NONE	481215	1351721	3/24/97	1.40	0.37		pCi/g	1.43	0.37	-	pCi/g	
Q16-34	R	Thorium-228	Q16-34C-795356	NONE	481356.73	1351795	11/19/96	1.26	0.12		pCi/g	1.29	0.11	J	pCi/g	
Q16-34	R	Thorium-228	Q16-34C-821347	NONE	481325.76	1351833	11/19/96	1.39	0.12		pCi/g	1.43	0.12	-	pCi/g	
Q16-34	R	Thorium-228	Q16-34C2-R-1	NONE	481312.67	1351641	3/5/97	0.92	0.29		pCi/g	1.12	0.25	-	pCi/g	
Q16-34	R	Thorium-228	Q16-34C2-R-10	NONE	481258.53	1351797	3/5/97	1.10	0.33		pCi/g	1.22	0.30	-	pCi/g	
Q16-34	R	Thorium-228	Q16-34C2-R-11	NONE	481206.58	1351815	3/5/97	0.71	0.28		pCi/g	0.91	0.23	J	pCi/g	
Q16-34	R	Thorium-228	Q16-34C2-R-2	NONE	481355.63	1351649	3/5/97	1.00	0.28		pCi/g	1.20	0.24	-	pCi/g	
Q16-34	R	Thorium-228	Q16-34C2-R-3	NONE	481392.45	1351691	3/5/97	1.10	0.27		pCi/g	1.14	0.25	-	pCi/g	
Q16-34	R	Thorium-228	Q16-34C2-R-4	NONE	481292.81	1351710	3/5/97	1.00	0.30		pCi/g	1.22	0.27	-	pCi/g	
Q16-34	R	Thorium-228	Q16-34C2-R-5	NONE	481328.92	1351711	3/5/97	1.00	0.32		pCi/g	1.20	0.28	-	pCi/g	
Q16-34	R	Thorium-228	Q16-34C2-R-6	NONE	481328.92	1351711	3/5/97	1.20	0.28		pCi/g	1.32	0.27	-	pCi/g	Q16-34C2-R-5
Q16-34	R	Thorium-228	Q16-34C2-R-8	NONE	481243.52	1351727	3/5/97	0.92	0.30		pCi/g	1.12	0.26	-	pCi/g	
Q16-34	R	Thorium-228	Q16-34C2-R-9	NONE	481325.68	1351776	3/5/97	0.82	0.27		pCi/g	1.00	0.23	-	pCi/g	
Q16-34	R	Thorium-228	Q16-34C2-R-9-D	NONE	481325.68	1351776	3/5/97	0.93	0.29		pCi/g	1.12	0.25	-	pCi/g	Q16-34C2-R-9
Q16-34	R	Thorium-228	Q16-34C3-R-1	NONE	481215	1351721	3/24/97	1.40	0.50		pCi/g	1.45	0.50	-	pCi/g	
Q16-34	R	Thorium-232	Q16-34C-795356	NONE	481356.73	1351795	11/19/96	1.24	0.10		pCi/g	1.24	0.10	-	pCi/g	
Q16-34	R	Thorium-232	Q16-34C-821347	NONE	481325.76	1351833	11/19/96	1.33	0.11		pCi/g	1.32	0.11	-	pCi/g	
Q16-34	R	Thorium-232	Q16-34C2-R-1	NONE	481312.67	1351641	3/5/97	1.10	0.23		pCi/g	1.06	0.23	-	pCi/g	
Q16-34	R	Thorium-232	Q16-34C2-R-10	NONE	481258.53	1351797	3/5/97	1.30	0.27		pCi/g	1.31	0.26	-	pCi/g	
Q16-34	R	Thorium-232	Q16-34C2-R-11	NONE	481206.58	1351815	3/5/97	1.10	0.23		pCi/g	1.10	0.23	J	pCi/g	
Q16-34	R	Thorium-232	Q16-34C2-R-2	NONE	481355.63	1351649	3/5/97	1.10	0.23		pCi/g	1.13	0.22	-	pCi/g	
Q16-34	R	Thorium-232	Q16-34C2-R-3	NONE	481392.45	1351691	3/5/97	0.88	0.22		pCi/g	0.88	0.20	-	pCi/g	
Q16-34	R	Thorium-232	Q16-34C2-R-4	NONE	481292.81	1351710	3/5/97	0.96	0.21		pCi/g	0.96	0.20	-	pCi/g	
Q16-34	R	Thorium-232	Q16-34C2-R-5	NONE	481328.92	1351711	3/5/97	0.91	0.21		pCi/g	0.91	0.21	-	pCi/g	
Q16-34	R	Thorium-232	Q16-34C2-R-6	NONE	481328.92	1351711	3/5/97	1.00	0.21		pCi/g	1.02	0.21	-	pCi/g	Q16-34C2-R-5
Q16-34	R	Thorium-232	Q16-34C2-R-8	NONE	481243.52	1351727	3/5/97	1.10	0.23		pCi/g	1.05	0.23	-	pCi/g	
Q16-34	R	Thorium-232	Q16-34C2-R-9	NONE	481325.68	1351776	3/5/97	1.00	0.22		pCi/g	1.04	0.21	-	pCi/g	
Q16-34	R	Thorium-232	Q16-34C2-R-9-D	NONE	481325.68	1351776	3/5/97	0.94	0.20		pCi/g	0.94	0.20	-	pCi/g	Q16-34C2-R-9
Q16-34	R	Thorium-232	Q16-34C3-R-1	NONE	481215	1351721	3/24/97	1.10	0.40		pCi/g	1.15	0.40	-	pCi/g	
Q16-34	R	Uranium, Total	Q16-34C-641312	NONE	481312.67	1351641	11/15/96				ug/g	9.96		J	ug/g	
Q16-34	R	Uranium, Total	Q16-34C-649355	NONE	481355.63	1351649	11/15/96				ug/g	11.10		J	ug/g	

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								Laboratory Data				Validation Data				
CU Name	CU Type	Parameter	Sample ID	Suffix	Northing	Easting	Sample Date	Lab Result	TPU	Qualifier	Units	Val. Result	TPU	Qualifier	Units	Duplicate of
Q16-34	R	Uranium, Total	Q16-34C-690392	NONE	481392.45	1351691	11/15/96				ug/g	17.69		-	ug/g	
Q16-34	R	Uranium, Total	Q16-34C-709292	NONE	481292.81	1351710	11/15/96				ug/g	8.10		J	ug/g	
Q16-34	R	Uranium, Total	Q16-34C-711328	NONE	481328.92	1351711	11/15/96				ug/g	6.86		J	ug/g	
Q16-34	R	Uranium, Total	Q16-34C-711328-D	NONE	481328.92	1351711	11/15/96				ug/g	45.67		-	ug/g	Q16-34C-711328
Q16-34	R	Uranium, Total	Q16-34C-726243	NONE	481243.52	1351727	11/15/96				ug/g	23.69		-	ug/g	
Q16-34	R	Uranium, Total	Q16-34C-776325	NONE	481325.68	1351776	11/15/96				ug/g	11.39		J	ug/g	
Q16-34	R	Uranium, Total	Q16-34C-795356	NONE	481356.73	1351795	11/19/96				ug/g	21.83	11.39	J	ug/g	
Q16-34	R	Uranium, Total	Q16-34C-796258	NONE	481258.53	1351797	11/15/96				ug/g	15.13		-	ug/g	
Q16-34	R	Uranium, Total	Q16-34C-815206	NONE	481206.58	1351815	11/15/96				ug/g	32.98		-	ug/g	
Q16-34	R	Uranium, Total	Q16-34C-821347	NONE	481325.76	1351833	11/19/96				ug/g	21.05	10.50	-	ug/g	
Q16-34	R	Uranium, Total	Q16-34C3-R-1	NONE	481215	1351721	3/24/97				ug/g	10.93	2.47	J	ug/g	
Q16-34	R	Uranium-238	Q16-34C-641312	NONE	481312.67	1351641	11/15/96	3.30	2.20		pCi/g	3.32		J	pCi/g	
Q16-34	R	Uranium-238	Q16-34C-649355	NONE	481355.63	1351649	11/15/96	3.70	2.30		pCi/g	3.70		J	pCi/g	
Q16-34	R	Uranium-238	Q16-34C-690392	NONE	481392.45	1351691	11/15/96	5.90	2.70		pCi/g	5.90		-	pCi/g	
Q16-34	R	Uranium-238	Q16-34C-709292	NONE	481292.81	1351710	11/15/96	2.70	2.10		pCi/g	2.70		J	pCi/g	
Q16-34	R	Uranium-238	Q16-34C-711328	NONE	481328.92	1351711	11/15/96	2.30	1.90		pCi/g	2.29		J	pCi/g	
Q16-34	R	Uranium-238	Q16-34C-711328-D	NONE	481328.92	1351711	11/15/96	15.00	4.30		pCi/g	15.23		-	pCi/g	Q16-34C-711328
Q16-34	R	Uranium-238	Q16-34C-726243	NONE	481243.52	1351727	11/15/96	7.90	3.00		pCi/g	7.90		-	pCi/g	
Q16-34	R	Uranium-238	Q16-34C-776325	NONE	481325.68	1351776	11/15/96	3.80	2.50		pCi/g	3.80		J	pCi/g	
Q16-34	R	Uranium-238	Q16-34C-795356	NONE	481356.73	1351795	11/19/96	7.28	3.80		pCi/g	7.28	3.80	J	pCi/g	
Q16-34	R	Uranium-238	Q16-34C-796258	NONE	481258.53	1351797	11/15/96	5.00	2.30		pCi/g	5.05		-	pCi/g	
Q16-34	R	Uranium-238	Q16-34C-815206	NONE	481206.58	1351815	11/15/96	11.00	3.80		pCi/g	11.00		-	pCi/g	
Q16-34	R	Uranium-238	Q16-34C-821347	NONE	481325.76	1351833	11/19/96	7.02	3.50		pCi/g	7.02	3.50	-	pCi/g	
Q16-34	R	Uranium-238	Q16-34C3-R-1	NONE	481215	1351721	3/24/97	3.60	0.82		pCi/g	3.65	0.82	J	pCi/g	
Q17	M	Arsenic	Q17C-556087	NONE	482087.31	1351557	11/14/96	9.50			mg/kg	9.50		-	mg/kg	
Q17	M	Arsenic	Q17C-561796	NONE	481796.19	1351561	11/27/96	8.70			mg/kg	8.70		-	mg/kg	
Q17	M	Arsenic	Q17C-589600	NONE	481600.82	1351590	11/15/96	7.40			mg/kg	7.40		-	mg/kg	
Q17	M	Arsenic	Q17C-697433	NONE	481433.71	1351697	11/15/96	9.10			mg/kg	9.10		-	mg/kg	
Q17	M	Arsenic	Q17C-749987	NONE	481987.52	1351749	11/14/96	6.90			mg/kg	6.90		-	mg/kg	
Q17	M	Arsenic	Q17C-750121	NONE	482121.72	1351751	11/14/96	15.20			mg/kg	15.20		-	mg/kg	
Q17	M	Arsenic	Q17C-833783	NONE	481783.87	1351833	11/14/96	6.30			mg/kg	6.30		-	mg/kg	
Q17	M	Arsenic	Q17C2-M-1	NONE	481230	1351604	3/24/97	12.50		N	mg/kg	12.50		J	mg/kg	
Q17	M	Arsenic	Q17C2-M-2	NONE	481220	1351606	3/24/97	11.50		N	mg/kg	11.50		J	mg/kg	
Q17	M	Arsenic	Q17C2-M-2-D	NONE	481220	1351606	3/24/97	10.10		N	mg/kg	10.10		J	mg/kg	Q17C2-M-2
Q17	M	Arsenic	Q17C2-M-3	NONE	481220	1351687	3/24/97	9.20		N	mg/kg	9.20		J	mg/kg	
Q17	M	Arsenic	Q17C2-M-3-D	NONE	481220	1351687	3/24/97	9.60		N	mg/kg	9.60		J	mg/kg	Q17C2-M-3
Q17	M	Beryllium	Q17C-556087	NONE	482087.31	1351557	11/14/96	1.10			mg/kg	1.10		-	mg/kg	
Q17	M	Beryllium	Q17C-561796	NONE	481796.19	1351561	11/27/96	0.75			mg/kg	0.75		U	mg/kg	
Q17	M	Beryllium	Q17C-589600	NONE	481600.82	1351590	11/15/96	0.51		B	mg/kg	0.51		U	mg/kg	

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								Laboratory Data				Validation Data				
CU Name	CU Type	Parameter	Sample ID	Suffix	Northing	Easting	Sample Date	Lab Result	TPU	Qualifier	Units	Val. Result	TPU	Qualifier	Units	Duplicate of
Q17	M	Beryllium	Q17C-697433	NONE	481433.71	1351697	11/15/96	0.70			mg/kg	0.70		-	mg/kg	
Q17	M	Beryllium	Q17C-749987	NONE	481987.52	1351749	11/14/96	0.57		B	mg/kg	0.57		U	mg/kg	
Q17	M	Beryllium	Q17C-750121	NONE	482121.72	1351751	11/14/96	0.49		U	mg/kg	0.49		U	mg/kg	
Q17	M	Beryllium	Q17C-833783	NONE	481783.87	1351833	11/14/96	0.57		B	mg/kg	0.57		U	mg/kg	
Q17	M	Beryllium	Q17C2-M-1	NONE	481230	1351604	3/24/97	1.00			mg/kg	1.00		U	mg/kg	
Q17	M	Beryllium	Q17C2-M-2	NONE	481220	1351606	3/24/97	1.00			mg/kg	1.00		U	mg/kg	
Q17	M	Beryllium	Q17C2-M-2-D	NONE	481220	1351606	3/24/97	0.84			mg/kg	0.84		U	mg/kg	Q17C2-M-2
Q17	M	Beryllium	Q17C2-M-3	NONE	481220	1351687	3/24/97	0.79			mg/kg	0.79		U	mg/kg	
Q17	M	Beryllium	Q17C2-M-3-D	NONE	481220	1351687	3/24/97	0.96			mg/kg	0.96		U	mg/kg	Q17C2-M-3
Q17-10	R	Cesium-137	Q17-10C-444513	NONE	481513.76	1351445	12/2/96	0.22	0.10		pCi/g	0.22		-	pCi/g	
Q17-10	R	Cesium-137	Q17-10C-446405	NONE	481405.61	1351447	12/2/96	0.45	0.14		pCi/g	0.45	0.14	-	pCi/g	
Q17-10	R	Cesium-137	Q17-10C-507678	NONE	481678.74	1351507	12/2/96	0.02	0.07	U	pCi/g	0.11		U	pCi/g	
Q17-10	R	Cesium-137	Q17-10C-524504	NONE	481504	1351524	12/2/96	0.46	0.16		pCi/g	0.46		-	pCi/g	
Q17-10	R	Cesium-137	Q17-10C-524504	NONE	481524.05	1351504	12/2/96	0.46	0.16		pCi/g	0.46		-	pCi/g	
Q17-10	R	Cesium-137	Q17-10C-533635	NONE	481635.8	1351534	12/2/96	0.00	0.07	U	pCi/g	0.11		U	pCi/g	
Q17-10	R	Cesium-137	Q17-10C-578761	NONE	481761.89	1351578	11/14/96	0.19	0.06		pCi/g	0.19		-	pCi/g	
Q17-10	R	Cesium-137	Q17-10C-630774	NONE	481774.55	1351630	11/14/96	-0.01	0.10		pCi/g	0.16		U	pCi/g	
Q17-10	R	Cesium-137	Q17-10C-685560	NONE	481560.64	1351685	11/15/96	0.36	0.10		pCi/g	0.36		-	pCi/g	
Q17-10	R	Cesium-137	Q17-10C-717642	NONE	481642.83	1351718	11/15/96	0.00	0.03	U	pCi/g	0.04		U	pCi/g	
Q17-10	R	Cesium-137	Q17-10C-743541	NONE	481541.88	1351744	11/15/96	0.05	0.04		pCi/g	0.05		J	pCi/g	
Q17-10	R	Cesium-137	Q17-10C-823709	NONE	481709.66	1351824	11/14/96	0.20	0.08		pCi/g	0.20	0.08	-	pCi/g	
Q17-10	R	Cesium-137	Q17-10C-831651	NONE	481651.67	1351831	11/14/96	0.41	0.10		pCi/g	0.41		-	pCi/g	
Q17-10	R	Moisture Content	Q17-10C-444513	NONE	481513.76	1351445	12/2/96	27.30			Percent	27.30		NV	Percent	
Q17-10	R	Moisture Content	Q17-10C-446405	NONE	481405.61	1351447	12/2/96	20.30			Percent	20.30		NV	Percent	
Q17-10	R	Moisture Content	Q17-10C-507678	NONE	481678.74	1351507	12/2/96	16.70			Percent	16.70		NV	Percent	
Q17-10	R	Moisture Content	Q17-10C-524504	NONE	481504	1351524	12/2/96	29.30			Percent	29.30		NV	Percent	
Q17-10	R	Moisture Content	Q17-10C-524504	NONE	481524.05	1351504	12/2/96	29.30			Percent	29.30		NV	Percent	
Q17-10	R	Moisture Content	Q17-10C-533635	NONE	481635.8	1351534	12/2/96	21.50			Percent				Percent	
Q17-10	R	Moisture Content	Q17-10C-578761	NONE	481761.89	1351578	11/14/96	17.63			Percent	17.63		NV	Percent	
Q17-10	R	Moisture Content	Q17-10C-630774	NONE	481774.55	1351630	11/14/96	17.30			Percent			NV	Percent	
Q17-10	R	Moisture Content	Q17-10C-685560	NONE	481560.64	1351685	11/15/96	17.63			Percent	17.63		NV	Percent	
Q17-10	R	Moisture Content	Q17-10C-717642	NONE	481642.83	1351718	11/15/96	16.24			Percent	16.24		NV	Percent	
Q17-10	R	Moisture Content	Q17-10C-743541	NONE	481541.88	1351744	11/15/96	15.55			Percent	15.55		NV	Percent	
Q17-10	R	Moisture Content	Q17-10C-823709	NONE	481709.66	1351824	11/14/96	16.70			Percent			NV	Percent	
Q17-10	R	Moisture Content	Q17-10C-831651	NONE	481651.67	1351831	11/14/96	15.22			Percent	15.22		NV	Percent	
Q17-10	R	Moisture Content	Q17-10C2-R-12	NONE	481761.89	1351578	3/5/97	13.33			Percent			NV	Percent	
Q17-10	R	Moisture Content	Q17-10C2-R-13	NONE	481642.83	1351718	3/5/97	16.39			Percent			NV	Percent	
Q17-10	R	Radium-226	Q17-10C-444513	NONE	481513.76	1351445	12/2/96	1.28	0.29		pCi/g	1.28		-	pCi/g	
Q17-10	R	Radium-226	Q17-10C-446405	NONE	481405.61	1351447	12/2/96	1.14	0.32		pCi/g	1.14	0.32	-	pCi/g	

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								Laboratory Data				Validation Data				
CU Name	CU Type	Parameter	Sample ID	Suffix	Northing	Easting	Sample Date	Lab Result	TPU	Qualifier	Units	Val. Result	TPU	Qualifier	Units	Duplicate of
Q17-10	R	Radium-226	Q17-10C-507678	NONE	481678.74	1351507	12/2/96	0.96	0.26		pCi/g	0.96	0.26	-	pCi/g	
Q17-10	R	Radium-226	Q17-10C-524504	NONE	481504	1351524	12/2/96	1.18	0.26		pCi/g	1.18		-	pCi/g	
Q17-10	R	Radium-226	Q17-10C-524504	NONE	481524.05	1351504	12/2/96	1.18	0.26		pCi/g	1.18		-	pCi/g	
Q17-10	R	Radium-226	Q17-10C-533635	NONE	481635.8	1351534	12/2/96	1.04	0.23		pCi/g	1.04		-	pCi/g	
Q17-10	R	Radium-226	Q17-10C-578761	NONE	481761.89	1351578	11/14/96	1.30	0.25		pCi/g	1.26		-	pCi/g	
Q17-10	R	Radium-226	Q17-10C-630774	NONE	481774.55	1351630	11/14/96	1.12	0.28		pCi/g	1.12	0.28	J	pCi/g	
Q17-10	R	Radium-226	Q17-10C-685560	NONE	481560.64	1351685	11/15/96	1.20	0.23		pCi/g	1.22		-	pCi/g	
Q17-10	R	Radium-226	Q17-10C-717642	NONE	481642.83	1351718	11/15/96	1.10	0.20		pCi/g	1.12		-	pCi/g	
Q17-10	R	Radium-226	Q17-10C-743541	NONE	481541.88	1351744	11/15/96	1.20	0.20		pCi/g	1.17		-	pCi/g	
Q17-10	R	Radium-226	Q17-10C-823709	NONE	481709.66	1351824	11/14/96	1.37	0.18		pCi/g	1.37	0.18	J	pCi/g	
Q17-10	R	Radium-226	Q17-10C-831651	NONE	481651.67	1351831	11/14/96	1.20	0.23		pCi/g	1.21		-	pCi/g	
Q17-10	R	Radium-228	Q17-10C-444513	NONE	481513.76	1351445	12/2/96	1.58	0.54		pCi/g	1.58		-	pCi/g	
Q17-10	R	Radium-228	Q17-10C-446405	NONE	481405.61	1351447	12/2/96	1.33	0.49		pCi/g	1.33		-	pCi/g	
Q17-10	R	Radium-228	Q17-10C-507678	NONE	481678.74	1351507	12/2/96	1.43	0.48		pCi/g	1.43	0.48	-	pCi/g	
Q17-10	R	Radium-228	Q17-10C-524504	NONE	481504	1351524	12/2/96	1.27	0.67		pCi/g	1.27		J	pCi/g	
Q17-10	R	Radium-228	Q17-10C-524504	NONE	481524.05	1351504	12/2/96	1.27	0.67		pCi/g	1.27		J	pCi/g	
Q17-10	R	Radium-228	Q17-10C-533635	NONE	481635.8	1351534	12/2/96	1.28	0.53		pCi/g	1.28		-	pCi/g	
Q17-10	R	Radium-228	Q17-10C-578761	NONE	481761.89	1351578	11/14/96	1.20	0.35		pCi/g	1.19		-	pCi/g	
Q17-10	R	Radium-228	Q17-10C-630774	NONE	481774.55	1351630	11/14/96	1.33	0.54		pCi/g	1.33	0.54	-	pCi/g	
Q17-10	R	Radium-228	Q17-10C-685560	NONE	481560.64	1351685	11/15/96	1.40	0.36		pCi/g	1.43		-	pCi/g	
Q17-10	R	Radium-228	Q17-10C-717642	NONE	481642.83	1351718	11/15/96	1.50	0.34		pCi/g	1.46		-	pCi/g	
Q17-10	R	Radium-228	Q17-10C-743541	NONE	481541.88	1351744	11/15/96	1.40	0.29		pCi/g	1.41		-	pCi/g	
Q17-10	R	Radium-228	Q17-10C-823709	NONE	481709.66	1351824	11/14/96	1.06	0.29		pCi/g	1.06	0.29	-	pCi/g	
Q17-10	R	Radium-228	Q17-10C-831651	NONE	481651.67	1351831	11/14/96	1.20	0.32		pCi/g	1.20		-	pCi/g	
Q17-10	R	Thorium-228	Q17-10C-444513	NONE	481513.76	1351445	12/2/96	1.29	0.17		pCi/g	1.29	0.17	J	pCi/g	
Q17-10	R	Thorium-228	Q17-10C-446405	NONE	481405.61	1351447	12/2/96	1.10	0.11		pCi/g	1.10	0.11	-	pCi/g	
Q17-10	R	Thorium-228	Q17-10C-507678	NONE	481678.74	1351507	12/2/96	1.02	0.10		pCi/g	1.05	0.09	-	pCi/g	
Q17-10	R	Thorium-228	Q17-10C-524504	NONE	481504	1351524	12/2/96	1.28	0.13		pCi/g	1.28	0.13	-	pCi/g	
Q17-10	R	Thorium-228	Q17-10C-524504	NONE	481524.05	1351504	12/2/96	1.28	0.13		pCi/g	1.28	0.13	-	pCi/g	
Q17-10	R	Thorium-228	Q17-10C-533635	NONE	481635.8	1351534	12/2/96	1.08	0.13		pCi/g	1.08	0.13	J	pCi/g	
Q17-10	R	Thorium-228	Q17-10C-630774	NONE	481774.55	1351630	11/14/96	1.22	0.14		pCi/g	1.22	0.14	J	pCi/g	
Q17-10	R	Thorium-228	Q17-10C-685560	NONE	481560.64	1351685	11/15/96	1.10	0.18		pCi/g	1.15	0.18	-	pCi/g	
Q17-10	R	Thorium-228	Q17-10C-717642	NONE	481642.83	1351718	11/15/96	0.61	0.35		pCi/g	0.15	0.31	Z	pCi/g	
Q17-10	R	Thorium-228	Q17-10C-743541	NONE	481541.88	1351744	11/15/96	1.20	0.20		pCi/g	1.20	0.20	-	pCi/g	
Q17-10	R	Thorium-228	Q17-10C-823709	NONE	481709.66	1351824	11/14/96	1.01	0.09		pCi/g	1.01	0.09	-	pCi/g	
Q17-10	R	Thorium-228	Q17-10C-831651	NONE	481651.67	1351831	11/14/96	1.10	0.16		pCi/g	1.08	0.16	-	pCi/g	
Q17-10	R	Thorium-228	Q17-10C2-R-12	NONE	481761.89	1351578	3/5/97	0.82	0.24		pCi/g	0.97	0.21	-	pCi/g	
Q17-10	R	Thorium-228	Q17-10C2-R-13	NONE	481642.83	1351718	3/5/97	0.82	0.27		pCi/g	1.01	0.23	-	pCi/g	
Q17-10	R	Thorium-230	Q17-10C-444513	NONE	481513.76	1351445	12/2/96	1.61	0.18		pCi/g	1.61	0.18	J	pCi/g	
Q17-10	R	Thorium-230	Q17-10C-446405	NONE	481405.61	1351447	12/2/96	1.45	0.12		pCi/g	1.45	0.12	-	pCi/g	

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								Laboratory Data				Validation Data				
CU Name	CU Type	Parameter	Sample ID	Suffix	Northing	Easting	Sample Date	Lab Result	TPU	Qualifier	Units	Val. Result	TPU	Qualifier	Units	Duplicate of
Q17-10	R	Thorium-230	Q17-10C-507678	NONE	481678.74	1351507	12/2/96	1.22	0.10		pCi/g	1.23	0.10	-	pCi/g	
Q17-10	R	Thorium-230	Q17-10C-524504	NONE	481504	1351524	12/2/96	1.67	0.14		pCi/g	1.67	0.14	-	pCi/g	
Q17-10	R	Thorium-230	Q17-10C-524504	NONE	481524.05	1351504	12/2/96	1.67	0.14		pCi/g	1.67	0.14	-	pCi/g	
Q17-10	R	Thorium-230	Q17-10C-533635	NONE	481635.8	1351534	12/2/96	1.32	0.14		pCi/g	1.32	0.14	J	pCi/g	
Q17-10	R	Thorium-230	Q17-10C-630774	NONE	481774.55	1351630	11/14/96	1.26	0.13		pCi/g	1.26	0.13	J	pCi/g	
Q17-10	R	Thorium-230	Q17-10C-685560	NONE	481560.64	1351685	11/15/96	1.50	0.22		pCi/g	1.53	0.22	-	pCi/g	
Q17-10	R	Thorium-230	Q17-10C-717642	NONE	481642.83	1351718	11/15/96	1.30	0.29		pCi/g	1.38	0.28	Z	pCi/g	
Q17-10	R	Thorium-230	Q17-10C-743541	NONE	481541.88	1351744	11/15/96	1.70	0.26		pCi/g	1.68	0.26	-	pCi/g	
Q17-10	R	Thorium-230	Q17-10C-823709	NONE	481709.66	1351824	11/14/96	1.29	0.10		pCi/g	1.29	0.10	J	pCi/g	
Q17-10	R	Thorium-230	Q17-10C-831651	NONE	481651.67	1351831	11/14/96	1.40	0.19		pCi/g	1.39	0.19	-	pCi/g	
Q17-10	R	Thorium-230	Q17-10C2-R-12	NONE	481761.89	1351578	3/5/97	0.99	0.23		pCi/g	1.18	0.23	-	pCi/g	
Q17-10	R	Thorium-230	Q17-10C2-R-13	NONE	481642.83	1351718	3/5/97	1.00	0.26		pCi/g	1.28	0.26	-	pCi/g	
Q17-10	R	Thorium-232	Q17-10C-444513	NONE	481513.76	1351445	12/2/96	1.26	0.15		pCi/g	1.26	0.15	J	pCi/g	
Q17-10	R	Thorium-232	Q17-10C-446405	NONE	481405.61	1351447	12/2/96	1.08	0.10		pCi/g	1.08	0.10	-	pCi/g	
Q17-10	R	Thorium-232	Q17-10C-507678	NONE	481678.74	1351507	12/2/96	1.12	0.10		pCi/g	1.12	0.10	-	pCi/g	
Q17-10	R	Thorium-232	Q17-10C-524504	NONE	481504	1351524	12/2/96	1.17	0.11		pCi/g	1.17	0.11	-	pCi/g	
Q17-10	R	Thorium-232	Q17-10C-524504	NONE	481524.05	1351504	12/2/96	1.17	0.11		pCi/g	1.17	0.11	-	pCi/g	
Q17-10	R	Thorium-232	Q17-10C-533635	NONE	481635.8	1351534	12/2/96	1.15	0.13		pCi/g	1.15	0.13	J	pCi/g	
Q17-10	R	Thorium-232	Q17-10C-630774	NONE	481774.55	1351630	11/14/96	1.27	0.14		pCi/g	1.27	0.14	J	pCi/g	
Q17-10	R	Thorium-232	Q17-10C-685560	NONE	481560.64	1351685	11/15/96	1.10	0.17		pCi/g	1.14		-	pCi/g	
Q17-10	R	Thorium-232	Q17-10C-717642	NONE	481642.83	1351718	11/15/96	1.10	0.25		pCi/g	1.12	0.25	Z	pCi/g	
Q17-10	R	Thorium-232	Q17-10C-743541	NONE	481541.88	1351744	11/15/96	1.20	0.20		pCi/g	1.21		-	pCi/g	
Q17-10	R	Thorium-232	Q17-10C-823709	NONE	481709.66	1351824	11/14/96	1.01	0.09		pCi/g	1.01	0.09	-	pCi/g	
Q17-10	R	Thorium-232	Q17-10C-831651	NONE	481651.67	1351831	11/14/96	0.98	0.14		pCi/g	0.98		-	pCi/g	
Q17-10	R	Thorium-232	Q17-10C2-R-12	NONE	481761.89	1351578	3/5/97	0.88	0.19		pCi/g	0.88	0.19	-	pCi/g	
Q17-10	R	Thorium-232	Q17-10C2-R-13	NONE	481642.83	1351718	3/5/97	1.20	0.25		pCi/g	1.17	0.24	-	pCi/g	
Q17-10	R	Uranium, Total	Q17-10C-444513	NONE	481513.76	1351445	12/2/96				ug/g	25.55		-	ug/g	
Q17-10	R	Uranium, Total	Q17-10C-446405	NONE	481405.61	1351447	12/2/96				ug/g	37.48		-	ug/g	
Q17-10	R	Uranium, Total	Q17-10C-507678	NONE	481678.74	1351507	12/2/96				ug/g	11.44		U	ug/g	
Q17-10	R	Uranium, Total	Q17-10C-524504	NONE	481504	1351524	12/2/96				ug/g	37.63		-	ug/g	
Q17-10	R	Uranium, Total	Q17-10C-524504	NONE	481524.05	1351504	12/2/96				ug/g	37.63		-	ug/g	
Q17-10	R	Uranium, Total	Q17-10C-533635	NONE	481635.8	1351534	12/2/96				ug/g	12.37		U	ug/g	
Q17-10	R	Uranium, Total	Q17-10C-578761	NONE	481761.89	1351578	11/14/96				ug/g	30.86		-	ug/g	
Q17-10	R	Uranium, Total	Q17-10C-630774	NONE	481774.55	1351630	11/14/96				ug/g	9.11		U	ug/g	
Q17-10	R	Uranium, Total	Q17-10C-685560	NONE	481560.64	1351685	11/15/96				ug/g	19.72		-	ug/g	
Q17-10	R	Uranium, Total	Q17-10C-717642	NONE	481642.83	1351718	11/15/96				ug/g	8.77		J	ug/g	
Q17-10	R	Uranium, Total	Q17-10C-743541	NONE	481541.88	1351744	11/15/96				ug/g	9.76		J	ug/g	
Q17-10	R	Uranium, Total	Q17-10C-823709	NONE	481709.66	1351824	11/14/96				ug/g	18.24	6.30	-	ug/g	
Q17-10	R	Uranium, Total	Q17-10C-831651	NONE	481651.67	1351831	11/14/96				ug/g	23.21		-	ug/g	
Q17-10	R	Uranium-238	Q17-10C-444513	NONE	481513.76	1351445	12/2/96	8.52	3.80		pCi/g	8.52		-	pCi/g	

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								Laboratory Data				Validation Data				
CU Name	CU Type	Parameter	Sample ID	Suffix	Northing	Easting	Sample Date	Lab Result	TPU	Qualifier	Units	Val. Result	TPU	Qualifier	Units	Duplicate of
Q17-10	R	Uranium-238	Q17-10C-446405	NONE	481405.61	1351447	12/2/96	12.50	3.90		pCi/g	12.50		-	pCi/g	
Q17-10	R	Uranium-238	Q17-10C-507678	NONE	481678.74	1351507	12/2/96	3.34	2.50	U	pCi/g	3.82		U	pCi/g	
Q17-10	R	Uranium-238	Q17-10C-524504	NONE	481504	1351524	12/2/96	12.60	4.70		pCi/g	12.55		-	pCi/g	
Q17-10	R	Uranium-238	Q17-10C-524504	NONE	481524.05	1351504	12/2/96	12.60	4.70		pCi/g	12.55		-	pCi/g	
Q17-10	R	Uranium-238	Q17-10C-533635	NONE	481635.8	1351534	12/2/96	3.06	2.60	U	pCi/g	4.12		U	pCi/g	
Q17-10	R	Uranium-238	Q17-10C-578761	NONE	481761.89	1351578	11/14/96	10.00	3.20		pCi/g	10.29		-	pCi/g	
Q17-10	R	Uranium-238	Q17-10C-630774	NONE	481774.55	1351630	11/14/96	1.13	1.90		pCi/g	3.04		U	pCi/g	
Q17-10	R	Uranium-238	Q17-10C-685560	NONE	481560.64	1351685	11/15/96	6.60	2.70		pCi/g	6.58		-	pCi/g	
Q17-10	R	Uranium-238	Q17-10C-717642	NONE	481642.83	1351718	11/15/96	2.90	2.10		pCi/g	2.93		J	pCi/g	
Q17-10	R	Uranium-238	Q17-10C-743541	NONE	481541.88	1351744	11/15/96	3.30	1.70		pCi/g	3.26		J	pCi/g	
Q17-10	R	Uranium-238	Q17-10C-823709	NONE	481709.66	1351824	11/14/96	6.08	2.10		pCi/g	6.08	2.10	-	pCi/g	
Q17-10	R	Uranium-238	Q17-10C-831651	NONE	481651.67	1351831	11/14/96	7.70	3.10		pCi/g	7.74		-	pCi/g	
Q17-30	R	Cesium-137	Q17-30C-457860	NONE	481860.9	1351458	11/27/96	0.17	0.11		pCi/g	0.17		J	pCi/g	
Q17-30	R	Cesium-137	Q17-30C-465922	NONE	481922.26	1351465	11/27/96	0.08	0.09	U	pCi/g	0.12		U	pCi/g	
Q17-30	R	Cesium-137	Q17-30C-477106	NONE	482106.81	1351478	11/27/96	0.19	0.14	U	pCi/g	0.20		U	pCi/g	
Q17-30	R	Cesium-137	Q17-30C-571997	NONE	481997.48	1351572	11/14/96	0.00	0.04	U	pCi/g	0.05		U	pCi/g	
Q17-30	R	Cesium-137	Q17-30C-573853	NONE	481853.59	1351574	11/14/96	0.18	0.07		pCi/g	0.18		-	pCi/g	
Q17-30	R	Cesium-137	Q17-30C-621146	NONE	482146.74	1351621	11/14/96	0.04	0.04	U	pCi/g	0.06		U	pCi/g	
Q17-30	R	Cesium-137	Q17-30C-631819	NONE	481819.44	1351631	11/14/96	0.02	0.03	U	pCi/g	0.05		U	pCi/g	
Q17-30	R	Cesium-137	Q17-30C-653173	NONE	482173.71	1351653	11/14/96	0.43	0.08		pCi/g	0.43		-	pCi/g	
Q17-30	R	Cesium-137	Q17-30C-693998	NONE	481998.63	1351693	11/14/96	0.02	0.03	U	pCi/g	0.04		U	pCi/g	
Q17-30	R	Cesium-137	Q17-30C-715029	NONE	482029.67	1351716	11/14/96	0.05	0.10		pCi/g	0.14		U	pCi/g	
Q17-30	R	Cesium-137	Q17-30C-753114	NONE	482114.38	1351754	11/14/96	0.01	0.06	U	pCi/g	0.08		U	pCi/g	
Q17-30	R	Cesium-137	Q17-30C-781023	NONE	482023.74	1351782	11/14/96	-0.02	0.04	U	pCi/g	0.05		U	pCi/g	
Q17-30	R	Moisture Content	Q17-30C-457860	NONE	481860.9	1351458	11/27/96	15.80			Percent				Percent	
Q17-30	R	Moisture Content	Q17-30C-465922	NONE	481922.26	1351465	11/27/96	18.30			Percent				Percent	
Q17-30	R	Moisture Content	Q17-30C-477106	NONE	482106.81	1351478	11/27/96	22.80			Percent				Percent	
Q17-30	R	Moisture Content	Q17-30C-571997	NONE	481997.48	1351572	11/14/96	20.93			Percent	20.93		NV	Percent	
Q17-30	R	Moisture Content	Q17-30C-573853	NONE	481853.59	1351574	11/14/96	18.60			Percent	18.60		NV	Percent	
Q17-30	R	Moisture Content	Q17-30C-621146	NONE	482146.74	1351621	11/14/96	18.74			Percent	18.74		NV	Percent	
Q17-30	R	Moisture Content	Q17-30C-631819	NONE	481819.44	1351631	11/14/96	17.18			Percent	17.18		NV	Percent	
Q17-30	R	Moisture Content	Q17-30C-653173	NONE	482173.71	1351653	11/14/96	24.21			Percent	24.21		NV	Percent	
Q17-30	R	Moisture Content	Q17-30C-693998	NONE	481998.63	1351693	11/14/96	18.03			Percent	18.03		NV	Percent	
Q17-30	R	Moisture Content	Q17-30C-715029	NONE	482029.67	1351716	11/14/96	18.98			Percent	18.98		NV	Percent	
Q17-30	R	Moisture Content	Q17-30C-753114	NONE	482114.38	1351754	11/14/96	16.55			Percent	16.55		NV	Percent	
Q17-30	R	Moisture Content	Q17-30C-781023	NONE	482023.74	1351782	11/14/96	16.87			Percent	16.87		NV	Percent	
Q17-30	R	Moisture Content	Q17-30C2-R-14	NONE	481819.44	1351631	3/5/97	18.49			Percent			NV	Percent	
Q17-30	R	Moisture Content	Q17-30C2-R-15	NONE	482023.74	1351782	3/5/97	18.14			Percent			NV	Percent	
Q17-30	R	Radium-226	Q17-30C-457860	NONE	481860.9	1351458	11/27/96	1.16	0.34		pCi/g	1.16		-	pCi/g	

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A1P1 CERTIFICATION REPORT - APPENDIX B

								Laboratory Data				Validation Data				
CU Name	CU Type	Parameter	Sample ID	Suffix	Northing	Easting	Sample Date	Lab Result	TPU	Qualifier	Units	Val. Result	TPU	Qualifier	Units	Duplicate of
Q17-30	R	Radium-226	Q17-30C-465922	NONE	481922.26	1351465	11/27/96	1.33	0.39		pCi/g	1.33		-	pCi/g	
Q17-30	R	Radium-226	Q17-30C-477106	NONE	482106.81	1351478	11/27/96	0.95	0.35		pCi/g	0.95		-	pCi/g	
Q17-30	R	Radium-226	Q17-30C-571997	NONE	481997.48	1351572	11/14/96	1.50	0.24		pCi/g	1.49		-	pCi/g	
Q17-30	R	Radium-226	Q17-30C-573853	NONE	481853.59	1351574	11/14/96	1.10	0.20		pCi/g	1.09		-	pCi/g	
Q17-30	R	Radium-226	Q17-30C-621146	NONE	482146.74	1351621	11/14/96	1.30	0.21		pCi/g	1.29		-	pCi/g	
Q17-30	R	Radium-226	Q17-30C-631819	NONE	481819.44	1351631	11/14/96	1.20	0.22		pCi/g	1.24		-	pCi/g	
Q17-30	R	Radium-226	Q17-30C-653173	NONE	482173.71	1351653	11/14/96	1.30	0.24		pCi/g	1.34		-	pCi/g	
Q17-30	R	Radium-226	Q17-30C-693998	NONE	481998.63	1351693	11/14/96	1.20	0.20		pCi/g	1.22		-	pCi/g	
Q17-30	R	Radium-226	Q17-30C-715029	NONE	482029.67	1351716	11/14/96	1.40	0.45		pCi/g	1.37		-	pCi/g	
Q17-30	R	Radium-226	Q17-30C-753114	NONE	482114.38	1351754	11/14/96	1.30	0.31		pCi/g	1.33		-	pCi/g	
Q17-30	R	Radium-226	Q17-30C-781023	NONE	482023.74	1351782	11/14/96	1.30	0.21		pCi/g	1.34		-	pCi/g	
Q17-30	R	Radium-228	Q17-30C-457860	NONE	481860.9	1351458	11/27/96	1.25	0.53		pCi/g	1.25		-	pCi/g	
Q17-30	R	Radium-228	Q17-30C-465922	NONE	481922.26	1351465	11/27/96	1.52	0.71		pCi/g	1.52		-	pCi/g	
Q17-30	R	Radium-228	Q17-30C-477106	NONE	482106.81	1351478	11/27/96	1.14	0.57		pCi/g	1.14		-	pCi/g	
Q17-30	R	Radium-228	Q17-30C-571997	NONE	481997.48	1351572	11/14/96	1.40	0.33		pCi/g	1.37		-	pCi/g	
Q17-30	R	Radium-228	Q17-30C-573853	NONE	481853.59	1351574	11/14/96	1.00	0.35		pCi/g	1.03		-	pCi/g	
Q17-30	R	Radium-228	Q17-30C-621146	NONE	482146.74	1351621	11/14/96	1.30	0.33		pCi/g	1.26		-	pCi/g	
Q17-30	R	Radium-228	Q17-30C-631819	NONE	481819.44	1351631	11/14/96	1.50	0.33		pCi/g	1.45		-	pCi/g	
Q17-30	R	Radium-228	Q17-30C-653173	NONE	482173.71	1351653	11/14/96	1.30	0.34		pCi/g	1.30		-	pCi/g	
Q17-30	R	Radium-228	Q17-30C-693998	NONE	481998.63	1351693	11/14/96	1.50	0.30		pCi/g	1.54		-	pCi/g	
Q17-30	R	Radium-228	Q17-30C-715029	NONE	482029.67	1351716	11/14/96	1.60	0.69		pCi/g	1.65		-	pCi/g	
Q17-30	R	Radium-228	Q17-30C-753114	NONE	482114.38	1351754	11/14/96	1.40	0.39		pCi/g	1.43		-	pCi/g	
Q17-30	R	Radium-228	Q17-30C-781023	NONE	482023.74	1351782	11/14/96	1.20	0.33		pCi/g	1.23		-	pCi/g	
Q17-30	R	Thorium-228	Q17-30C-457860	NONE	481860.9	1351458	11/27/96	1.16	0.10		pCi/g	1.16	0.10	-	pCi/g	
Q17-30	R	Thorium-228	Q17-30C-465922	NONE	481922.26	1351465	11/27/96	1.25	0.12		pCi/g	1.28	0.11	J	pCi/g	
Q17-30	R	Thorium-228	Q17-30C-477106	NONE	482106.81	1351478	11/27/96	1.30	0.12		pCi/g	1.29	0.11	-	pCi/g	
Q17-30	R	Thorium-228	Q17-30C-571997	NONE	481997.48	1351572	11/14/96	1.30	0.20		pCi/g	1.31	0.21	-	pCi/g	
Q17-30	R	Thorium-228	Q17-30C-573853	NONE	481853.59	1351574	11/14/96	1.20	0.19		pCi/g	1.17	0.20	-	pCi/g	
Q17-30	R	Thorium-228	Q17-30C-621146	NONE	482146.74	1351621	11/14/96	1.10	0.19		pCi/g	1.09	0.19	-	pCi/g	
Q17-30	R	Thorium-228	Q17-30C-631819	NONE	481819.44	1351631	11/14/96	-1.50	1.20	U	pCi/g	2.91	0.66	Z	pCi/g	
Q17-30	R	Thorium-228	Q17-30C-653173	NONE	482173.71	1351653	11/14/96	1.20	0.21		pCi/g	1.21	0.21	-	pCi/g	
Q17-30	R	Thorium-228	Q17-30C-693998	NONE	481998.63	1351693	11/14/96	1.30	0.27		pCi/g	1.34	0.28	-	pCi/g	
Q17-30	R	Thorium-228	Q17-30C-693998	RE	481998.63	1351693	11/14/96	0.82	0.30		pCi/g	1.24	0.28	Z	pCi/g	
Q17-30	R	Thorium-228	Q17-30C-715029	NONE	482029.67	1351716	11/14/96	1.20	0.17		pCi/g	1.20	0.17	-	pCi/g	
Q17-30	R	Thorium-228	Q17-30C-715029	RE	482029.67	1351716	11/14/96	3.10	0.59		pCi/g	3.54	0.60	Z	pCi/g	
Q17-30	R	Thorium-228	Q17-30C-753114	NONE	482114.38	1351754	11/14/96	1.20	0.24		pCi/g	1.24	0.24	-	pCi/g	
Q17-30	R	Thorium-228	Q17-30C2-R-14	NONE	481819.44	1351631	3/5/97	1.00	0.30		pCi/g	1.19	0.28	-	pCi/g	
Q17-30	R	Thorium-228	Q17-30C2-R-15	NONE	482023.74	1351782	3/5/97	1.10	0.33		pCi/g	1.34	0.29	-	pCi/g	
Q17-30	R	Thorium-230	Q17-30C-457860	NONE	481860.9	1351458	11/27/96	1.35	0.10		pCi/g	1.35	0.10	-	pCi/g	
Q17-30	R	Thorium-230	Q17-30C-465922	NONE	481922.26	1351465	11/27/96	1.41	0.12		pCi/g	1.42	0.12	-	pCi/g	

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A1P1 CERTIFICATION REPORT - APPENDIX B

								Laboratory Data				Validation Data					
CU Name	CU Type	Parameter	Sample ID	Suffix	Northing	Easting	Sample Date	Lab Result	TPU	Qualifier	Units	Val. Result	TPU	Qualifier	Units	Duplicate of
Q17-30	R	Thorium-230	Q17-30C-477106	NONE	482106.81	1351478	11/27/96	1.51	0.11		pCi/g	1.54	0.11	-	pCi/g	
Q17-30	R	Thorium-230	Q17-30C-571997	NONE	481997.48	1351572	11/14/96	1.40	0.21		pCi/g	1.40	0.21	-	pCi/g	
Q17-30	R	Thorium-230	Q17-30C-573853	NONE	481853.59	1351574	11/14/96	1.40	0.23		pCi/g	1.47	0.23	-	pCi/g	
Q17-30	R	Thorium-230	Q17-30C-621146	NONE	482146.74	1351621	11/14/96	1.30	0.21		pCi/g	1.30	0.21	-	pCi/g	
Q17-30	R	Thorium-230	Q17-30C-631819	NONE	481819.44	1351631	11/14/96	2.20	0.52		pCi/g	2.28	0.51	Z	pCi/g	
Q17-30	R	Thorium-230	Q17-30C-653173	NONE	482173.71	1351653	11/14/96	1.80	0.29		pCi/g	1.80	0.29	-	pCi/g	
Q17-30	R	Thorium-230	Q17-30C-693998	NONE	481998.63	1351693	11/14/96	1.50	0.29		pCi/g	1.57	0.29	-	pCi/g	
Q17-30	R	Thorium-230	Q17-30C-693998	RE	481998.63	1351693	11/14/96	1.40	0.28		pCi/g	1.50	0.28	Z	pCi/g	
Q17-30	R	Thorium-230	Q17-30C-715029	NONE	482029.67	1351716	11/14/96	1.40	0.20		pCi/g	1.47	0.20	-	pCi/g	
Q17-30	R	Thorium-230	Q17-30C-715029	RE	482029.67	1351716	11/14/96	2.00	0.37		pCi/g	2.01	0.37	Z	pCi/g	
Q17-30	R	Thorium-230	Q17-30C-753114	NONE	482114.38	1351754	11/14/96	1.60	0.29		pCi/g	1.62	0.29	-	pCi/g	
Q17-30	R	Thorium-230	Q17-30C2-R-14	NONE	481819.44	1351631	3/5/97	1.20	0.28		pCi/g	1.36	0.28	-	pCi/g	
Q17-30	R	Thorium-230	Q17-30C2-R-15	NONE	482023.74	1351782	3/5/97	1.20	0.28		pCi/g	1.43	0.28	-	pCi/g	
Q17-30	R	Thorium-232	Q17-30C-457860	NONE	481860.9	1351458	11/27/96	1.23	0.10		pCi/g	1.23	0.10	-	pCi/g	
Q17-30	R	Thorium-232	Q17-30C-465922	NONE	481922.26	1351465	11/27/96	1.26	0.11		pCi/g	1.26	0.11	-	pCi/g	
Q17-30	R	Thorium-232	Q17-30C-477106	NONE	482106.81	1351478	11/27/96	1.28	0.10		pCi/g	1.29	0.10	-	pCi/g	
Q17-30	R	Thorium-232	Q17-30C-571997	NONE	481997.48	1351572	11/14/96	1.10	0.18		pCi/g	1.11		-	pCi/g	
Q17-30	R	Thorium-232	Q17-30C-573853	NONE	481853.59	1351574	11/14/96	1.10	0.18		pCi/g	1.14	0.19	-	pCi/g	
Q17-30	R	Thorium-232	Q17-30C-621146	NONE	482146.74	1351621	11/14/96	1.00	0.17		pCi/g	1.02		-	pCi/g	
Q17-30	R	Thorium-232	Q17-30C-631819	NONE	481819.44	1351631	11/14/96	2.10	0.48		pCi/g	2.12	0.48	Z	pCi/g	
Q17-30	R	Thorium-232	Q17-30C-653173	NONE	482173.71	1351653	11/14/96	1.30	0.22		pCi/g	1.32		-	pCi/g	
Q17-30	R	Thorium-232	Q17-30C-693998	NONE	481998.63	1351693	11/14/96	1.30	0.25		pCi/g	1.29		-	pCi/g	
Q17-30	R	Thorium-232	Q17-30C-693998	RE	481998.63	1351693	11/14/96	0.96	0.20		pCi/g	0.96	0.20	Z	pCi/g	
Q17-30	R	Thorium-232	Q17-30C-715029	NONE	482029.67	1351716	11/14/96	1.10	0.16		pCi/g	1.13		-	pCi/g	
Q17-30	R	Thorium-232	Q17-30C-715029	RE	482029.67	1351716	11/14/96	3.30	0.55		pCi/g	3.31	0.55	Z	pCi/g	
Q17-30	R	Thorium-232	Q17-30C-753114	NONE	482114.38	1351754	11/14/96	1.30	0.24		pCi/g	1.26		-	pCi/g	
Q17-30	R	Thorium-232	Q17-30C2-R-14	NONE	481819.44	1351631	3/5/97	0.96	0.22		pCi/g	0.96	0.22	-	pCi/g	
Q17-30	R	Thorium-232	Q17-30C2-R-15	NONE	482023.74	1351782	3/5/97	1.20	0.26		pCi/g	1.18	0.25	-	pCi/g	
Q17-30	R	Uranium, Total	Q17-30C-457860	NONE	481860.9	1351458	11/27/96				ug/g	15.77		-	ug/g	
Q17-30	R	Uranium, Total	Q17-30C-465922	NONE	481922.26	1351465	11/27/96				ug/g	10.80		U	ug/g	
Q17-30	R	Uranium, Total	Q17-30C-477106	NONE	482106.81	1351478	11/27/96				ug/g	13.61		-	ug/g	
Q17-30	R	Uranium, Total	Q17-30C-571997	NONE	481997.48	1351572	11/14/96				ug/g	7.70	6.57	J	ug/g	
Q17-30	R	Uranium, Total	Q17-30C-573853	NONE	481853.59	1351574	11/14/96				ug/g	21.13		-	ug/g	
Q17-30	R	Uranium, Total	Q17-30C-621146	NONE	482146.74	1351621	11/14/96				ug/g	10.29		J	ug/g	
Q17-30	R	Uranium, Total	Q17-30C-631819	NONE	481819.44	1351631	11/14/96				ug/g	9.27		J	ug/g	
Q17-30	R	Uranium, Total	Q17-30C-653173	NONE	482173.71	1351653	11/14/96				ug/g	22.31		-	ug/g	
Q17-30	R	Uranium, Total	Q17-30C-693998	NONE	481998.63	1351693	11/14/96				ug/g	9.51		J	ug/g	
Q17-30	R	Uranium, Total	Q17-30C-715029	NONE	482029.67	1351716	11/14/96				ug/g	10.29		J	ug/g	
Q17-30	R	Uranium, Total	Q17-30C-753114	NONE	482114.38	1351754	11/14/96				ug/g	6.45		U	ug/g	
Q17-30	R	Uranium, Total	Q17-30C-781023	NONE	482023.74	1351782	11/14/96				ug/g	7.02		J	ug/g	

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								Laboratory Data				Validation Data				
CU Name	CU Type	Parameter	Sample ID	Suffix	Northing	Easting	Sample Date	Lab Result	TPU	Qualifier	Units	Val. Result	TPU	Qualifier	Units	Duplicate of
Q17-30	R	Uranium-238	Q17-30C-457860	NONE	481860.9	1351458	11/27/96	5.26	2.40		pCi/g	5.26		-	pCi/g	
Q17-30	R	Uranium-238	Q17-30C-465922	NONE	481922.26	1351465	11/27/96	3.34	2.30	U	pCi/g	3.60		U	pCi/g	
Q17-30	R	Uranium-238	Q17-30C-477106	NONE	482106.81	1351478	11/27/96	4.54	2.10		pCi/g	4.54		-	pCi/g	
Q17-30	R	Uranium-238	Q17-30C-571997	NONE	481997.48	1351572	11/14/96	2.60	2.20		pCi/g	2.57		J	pCi/g	
Q17-30	R	Uranium-238	Q17-30C-573853	NONE	481853.59	1351574	11/14/96	7.00	3.20		pCi/g	7.05		-	pCi/g	
Q17-30	R	Uranium-238	Q17-30C-621146	NONE	482146.74	1351621	11/14/96	3.40	2.20		pCi/g	3.43		J	pCi/g	
Q17-30	R	Uranium-238	Q17-30C-631819	NONE	481819.44	1351631	11/14/96	3.10	2.20		pCi/g	3.09		J	pCi/g	
Q17-30	R	Uranium-238	Q17-30C-653173	NONE	482173.71	1351653	11/14/96	7.40	2.90		pCi/g	7.44		-	pCi/g	
Q17-30	R	Uranium-238	Q17-30C-693998	NONE	481998.63	1351693	11/14/96	3.20	1.70		pCi/g	3.17		J	pCi/g	
Q17-30	R	Uranium-238	Q17-30C-715029	NONE	482029.67	1351716	11/14/96	3.40	5.70	U	pCi/g	3.43		J	pCi/g	
Q17-30	R	Uranium-238	Q17-30C-753114	NONE	482114.38	1351754	11/14/96	1.50	2.20	U	pCi/g	2.15		U	pCi/g	
Q17-30	R	Uranium-238	Q17-30C-781023	NONE	482023.74	1351782	11/14/96	2.30	2.60		pCi/g	2.34		J	pCi/g	
Q18	M	Arsenic	Q18C-456620	NONE	482620.23	1351457	11/26/96	7.50			mg/kg	7.50		-	mg/kg	
Q18	M	Arsenic	Q18C-468410	NONE	482410.28	1351468	11/27/96	11.70			mg/kg	11.70		-	mg/kg	
Q18	M	Arsenic	Q18C-472805	NONE	482805.68	1351473	11/26/96	9.60			mg/kg	9.60		-	mg/kg	
Q18	M	Arsenic	Q18C-499367	NONE	482367.1	1351500	11/27/96	4.30			mg/kg	4.30		-	mg/kg	
Q18	M	Arsenic	Q18C-609538	NONE	482538.66	1351609	11/14/96	9.20			mg/kg	9.20		-	mg/kg	
Q18	M	Arsenic	Q18C-676337	NONE	482337.92	1351677	11/14/96	10.90			mg/kg	10.90		-	mg/kg	
Q18	M	Arsenic	Q18C-770703	NONE	482703.97	1351770	11/13/96	7.60			mg/kg	7.60		-	mg/kg	
Q18	M	Arsenic	Q18C-845776	NONE	482776.59	1351845	11/13/96	11.20			mg/kg	11.20		-	mg/kg	
Q18	M	Arsenic	Q18C-850814	NONE	482814.23	1351850	11/13/96	10.80			mg/kg	10.80		-	mg/kg	
Q18	M	Beryllium	Q18C-456620	NONE	482620.23	1351457	11/26/96	0.58		B	mg/kg	0.58		U	mg/kg	
Q18	M	Beryllium	Q18C-468410	NONE	482410.28	1351468	11/27/96	0.99			mg/kg	0.99		-	mg/kg	
Q18	M	Beryllium	Q18C-472805	NONE	482805.68	1351473	11/26/96	0.58		B	mg/kg	0.58		U	mg/kg	
Q18	M	Beryllium	Q18C-499367	NONE	482367.1	1351500	11/27/96	0.34		B	mg/kg	0.34		U	mg/kg	
Q18	M	Beryllium	Q18C-609538	NONE	482538.66	1351609	11/14/96	0.83			mg/kg	0.83		-	mg/kg	
Q18	M	Beryllium	Q18C-676337	NONE	482337.92	1351677	11/14/96	0.82			mg/kg	0.82		-	mg/kg	
Q18	M	Beryllium	Q18C-770703	NONE	482703.97	1351770	11/13/96	0.57		B	mg/kg	0.57		U	mg/kg	
Q18	M	Beryllium	Q18C-845776	NONE	482776.59	1351845	11/13/96	0.45		B	mg/kg	0.45		U	mg/kg	
Q18	M	Beryllium	Q18C-850814	NONE	482814.23	1351850	11/13/96	0.74			mg/kg	0.74		-	mg/kg	
Q18-10	R	Cesium-137	Q18-10C-422483	NONE	482483.63	1351422	11/27/96	0.14	0.07	U	pCi/g	0.14		-	pCi/g	
Q18-10	R	Cesium-137	Q18-10C-485247	NONE	482247.51	1351485	11/27/96	0.32	0.16		pCi/g	0.32		-	pCi/g	
Q18-10	R	Cesium-137	Q18-10C-487528	NONE	482528.32	1351488	11/22/96	0.05	0.08	U	pCi/g	0.08		U	pCi/g	
Q18-10	R	Cesium-137	Q18-10C-509599	NONE	482599.83	1351509	11/22/96	0.09	0.08	U	pCi/g	0.10		U	pCi/g	
Q18-10	R	Cesium-137	Q18-10C-517303	NONE	482303.66	1351518	11/27/96	0.65	0.28		pCi/g	0.65		-	pCi/g	
Q18-10	R	Cesium-137	Q18-10C-542232	NONE	482232.37	1351543	11/27/96	-0.05	0.15	U	pCi/g	0.25		U	pCi/g	
Q18-10	R	Cesium-137	Q18-10C-588407	NONE	482407.86	1351588	11/14/96	0.07	0.06		pCi/g	0.07		J	pCi/g	
Q18-10	R	Cesium-137	Q18-10C-638515	NONE	482515.57	1351639	11/14/96	0.03	0.04	U	pCi/g	0.05		U	pCi/g	
Q18-10	R	Cesium-137	Q18-10C-679345	NONE	482345.76	1351679	11/14/96	0.01	0.04	U	pCi/g	0.05		U	pCi/g	

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								Laboratory Data				Validation Data				
CU Name	CU Type	Parameter	Sample ID	Suffix	Northing	Easting	Sample Date	Lab Result	TPU	Qualifier	Units	Val. Result	TPU	Qualifier	Units	Duplicate of
Q18-10	R	Cesium-137	Q18-10C-725517	NONE	482517	1351725	11/14/96	0.08	0.05		pCi/g	0.08		J	pCi/g	
Q18-10	R	Cesium-137	Q18-10C-734434	NONE	482434.92	1351734	11/14/96	0.01	0.07	U	pCi/g	0.09		U	pCi/g	
Q18-10	R	Cesium-137	Q18-10C-747320	NONE	482320.45	1351748	11/14/96	0.01	0.04	U	pCi/g	0.05		U	pCi/g	
Q18-10	R	Moisture Content	Q18-10C-422483	NONE	482483.63	1351422	11/27/96	18.50			Percent				Percent	
Q18-10	R	Moisture Content	Q18-10C-485247	NONE	482247.51	1351485	11/27/96	17.00			Percent				Percent	
Q18-10	R	Moisture Content	Q18-10C-487528	NONE	482528.32	1351488	11/22/96	18.40			Percent			NV	Percent	
Q18-10	R	Moisture Content	Q18-10C-509599	NONE	482599.83	1351509	11/22/96	19.90			Percent			NV	Percent	
Q18-10	R	Moisture Content	Q18-10C-517303	NONE	482303.66	1351518	11/27/96	12.70			Percent				Percent	
Q18-10	R	Moisture Content	Q18-10C-542232	NONE	482232.37	1351543	11/27/96	20.80			Percent				Percent	
Q18-10	R	Moisture Content	Q18-10C-588407	NONE	482407.86	1351588	11/14/96	17.71			Percent	17.71		NV	Percent	
Q18-10	R	Moisture Content	Q18-10C-638515	NONE	482515.57	1351639	11/14/96	21.85			Percent	21.85		NV	Percent	
Q18-10	R	Moisture Content	Q18-10C-679345	NONE	482345.76	1351679	11/14/96	17.48			Percent	17.48		NV	Percent	
Q18-10	R	Moisture Content	Q18-10C-725517	NONE	482517	1351725	11/14/96	17.01			Percent	17.01		NV	Percent	
Q18-10	R	Moisture Content	Q18-10C-734434	NONE	482434.92	1351734	11/14/96	20.72			Percent	20.72		NV	Percent	
Q18-10	R	Moisture Content	Q18-10C-747320	NONE	482320.45	1351748	11/14/96	17.70			Percent				Percent	
Q18-10	R	Moisture Content	Q18-10C2-R-16	NONE	482407.86	1351588	3/5/97	16.37			Percent			NV	Percent	
Q18-10	R	Moisture Content	Q18-10C2-R-17	NONE	482515.57	1351639	3/5/97	19.63			Percent			NV	Percent	
Q18-10	R	Moisture Content	Q18-10C2-R-18	NONE	482345.76	1351679	3/5/97	14.28			Percent			NV	Percent	
Q18-10	R	Moisture Content	Q18-10C2-R-19	NONE	482517	1351725	3/5/97	19.93			Percent			NV	Percent	
Q18-10	R	Moisture Content	Q18-10C2-R-20	NONE	482434.92	1351734	3/5/97	19.53			Percent			NV	Percent	
Q18-10	R	Moisture Content	Q18-10C2-R-21	NONE	482320.45	1351748	3/5/97	16.41			Percent			NV	Percent	
Q18-10	R	Radium-226	Q18-10C-422483	NONE	482483.63	1351422	11/27/96	1.40	0.27		pCi/g	1.40		-	pCi/g	
Q18-10	R	Radium-226	Q18-10C-485247	NONE	482247.51	1351485	11/27/96	1.49	0.39		pCi/g	1.49		-	pCi/g	
Q18-10	R	Radium-226	Q18-10C-487528	NONE	482528.32	1351488	11/22/96	1.50	0.13		pCi/g	1.50	0.13	-	pCi/g	
Q18-10	R	Radium-226	Q18-10C-509599	NONE	482599.83	1351509	11/22/96	1.50	0.16		pCi/g	1.50	0.16	-	pCi/g	
Q18-10	R	Radium-226	Q18-10C-517303	NONE	482303.66	1351518	11/27/96	0.90	0.35		pCi/g	0.90		-	pCi/g	
Q18-10	R	Radium-226	Q18-10C-542232	NONE	482232.37	1351543	11/27/96	1.19	0.35		pCi/g	1.19		-	pCi/g	
Q18-10	R	Radium-226	Q18-10C-588407	NONE	482407.86	1351588	11/14/96	1.20	0.22		pCi/g	1.20		J	pCi/g	
Q18-10	R	Radium-226	Q18-10C-638515	NONE	482515.57	1351639	11/14/96	1.40	0.24		pCi/g	1.40		J	pCi/g	
Q18-10	R	Radium-226	Q18-10C-679345	NONE	482345.76	1351679	11/14/96	1.10	0.21		pCi/g	1.10		J	pCi/g	
Q18-10	R	Radium-226	Q18-10C-725517	NONE	482517	1351725	11/14/96	1.20	0.25		pCi/g	1.20		J	pCi/g	
Q18-10	R	Radium-226	Q18-10C-734434	NONE	482434.92	1351734	11/14/96	1.30	0.35		pCi/g	1.30		J	pCi/g	
Q18-10	R	Radium-226	Q18-10C-747320	NONE	482320.45	1351748	11/14/96	1.30	0.21		pCi/g	1.30		J	pCi/g	
Q18-10	R	Radium-228	Q18-10C-422483	NONE	482483.63	1351422	11/27/96	1.96	0.55		pCi/g	1.96		-	pCi/g	
Q18-10	R	Radium-228	Q18-10C-485247	NONE	482247.51	1351485	11/27/96	1.43	0.81		pCi/g	1.43		J	pCi/g	
Q18-10	R	Radium-228	Q18-10C-487528	NONE	482528.32	1351488	11/22/96	1.30	0.34		pCi/g	1.30	0.34	-	pCi/g	
Q18-10	R	Radium-228	Q18-10C-509599	NONE	482599.83	1351509	11/22/96	1.60	0.41		pCi/g	1.60	0.41	-	pCi/g	
Q18-10	R	Radium-228	Q18-10C-517303	NONE	482303.66	1351518	11/27/96	1.20	0.64		pCi/g	1.20		J	pCi/g	
Q18-10	R	Radium-228	Q18-10C-542232	NONE	482232.37	1351543	11/27/96	1.56	0.83		pCi/g	1.56		J	pCi/g	
Q18-10	R	Radium-228	Q18-10C-588407	NONE	482407.86	1351588	11/14/96	1.30	0.39		pCi/g	1.30		-	pCi/g	

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CU Name	CU Type	Parameter	Sample ID	Suffix	Northing	Easting	Sample Date	Laboratory Data				Validation Data				Duplicate of
								Lab Result	TPU	Qualifier	Units	Val. Result	TPU	Qualifier	Units	
Q18-10	R	Radium-228	Q18-10C-638515	NONE	482515.57	1351639	11/14/96	1.60	0.37		pCi/g	1.60		-	pCi/g	
Q18-10	R	Radium-228	Q18-10C-679345	NONE	482345.76	1351679	11/14/96	1.30	0.31		pCi/g	1.30		-	pCi/g	
Q18-10	R	Radium-228	Q18-10C-725517	NONE	482517	1351725	11/14/96	1.40	0.29		pCi/g	1.40		-	pCi/g	
Q18-10	R	Radium-228	Q18-10C-734434	NONE	482434.92	1351734	11/14/96	1.40	0.45		pCi/g	1.40		-	pCi/g	
Q18-10	R	Radium-228	Q18-10C-747320	NONE	482320.45	1351748	11/14/96	1.30	0.38		pCi/g	1.30		-	pCi/g	
Q18-10	R	Thorium-228	Q18-10C-422483	NONE	482483.63	1351422	11/27/96	1.50	0.22		pCi/g	1.55	0.22	J	pCi/g	
Q18-10	R	Thorium-228	Q18-10C-485247	NONE	482247.51	1351485	11/27/96	1.15	0.11		pCi/g	1.14	0.10	-	pCi/g	
Q18-10	R	Thorium-228	Q18-10C-487528	NONE	482528.32	1351488	11/22/96	1.30	0.49		pCi/g	1.30	0.49	-	pCi/g	
Q18-10	R	Thorium-228	Q18-10C-509599	NONE	482599.83	1351509	11/22/96	1.30	0.53		pCi/g	1.30	0.53	-	pCi/g	
Q18-10	R	Thorium-228	Q18-10C-517303	NONE	482303.66	1351518	11/27/96	1.25	0.11		pCi/g	1.24	0.10	-	pCi/g	
Q18-10	R	Thorium-228	Q18-10C-542232	NONE	482232.37	1351543	11/27/96	1.35	0.22		pCi/g	1.38	0.22	J	pCi/g	
Q18-10	R	Thorium-228	Q18-10C-638515	NONE	482515.57	1351639	11/14/96	0.84	0.33		pCi/g	1.38	0.29	Z	pCi/g	
Q18-10	R	Thorium-228	Q18-10C2-R-16	NONE	482407.86	1351588	3/5/97	0.74	0.28		pCi/g	0.95	0.23	-	pCi/g	
Q18-10	R	Thorium-228	Q18-10C2-R-17	NONE	482515.57	1351639	3/5/97	1.20	0.28		pCi/g	1.23	0.27	-	pCi/g	
Q18-10	R	Thorium-228	Q18-10C2-R-18	NONE	482345.76	1351679	3/5/97	1.00	0.27		pCi/g	1.18	0.23	-	pCi/g	
Q18-10	R	Thorium-228	Q18-10C2-R-19	NONE	482517	1351725	3/5/97	0.98	0.32		pCi/g	1.19	0.28	J	pCi/g	
Q18-10	R	Thorium-228	Q18-10C2-R-20	NONE	482434.92	1351734	3/5/97	1.00	0.26		pCi/g	1.18	0.23	-	pCi/g	
Q18-10	R	Thorium-228	Q18-10C2-R-21	NONE	482320.45	1351748	3/5/97	0.89	0.35		pCi/g	1.10	0.31	-	pCi/g	
Q18-10	R	Thorium-230	Q18-10C-422483	NONE	482483.63	1351422	11/27/96	1.49	0.20		pCi/g	1.50	0.20	J	pCi/g	
Q18-10	R	Thorium-230	Q18-10C-485247	NONE	482247.51	1351485	11/27/96	1.29	0.11		pCi/g	1.32	0.11	-	pCi/g	
Q18-10	R	Thorium-230	Q18-10C-487528	NONE	482528.32	1351488	11/22/96	1.20	0.46		pCi/g	1.20	0.46	-	pCi/g	
Q18-10	R	Thorium-230	Q18-10C-509599	NONE	482599.83	1351509	11/22/96	1.70	0.67		pCi/g	1.70	0.67	-	pCi/g	
Q18-10	R	Thorium-230	Q18-10C-517303	NONE	482303.66	1351518	11/27/96	1.36	0.11		pCi/g	1.39	0.11	-	pCi/g	
Q18-10	R	Thorium-230	Q18-10C-542232	NONE	482232.37	1351543	11/27/96	1.43	0.21		pCi/g	1.44	0.21	J	pCi/g	
Q18-10	R	Thorium-230	Q18-10C-638515	NONE	482515.57	1351639	11/14/96	1.20	0.27		pCi/g	1.28	0.26	Z	pCi/g	
Q18-10	R	Thorium-230	Q18-10C2-R-16	NONE	482407.86	1351588	3/5/97	1.10	0.27		pCi/g	1.30	0.26	-	pCi/g	
Q18-10	R	Thorium-230	Q18-10C2-R-17	NONE	482515.57	1351639	3/5/97	1.10	0.30		pCi/g	1.41	0.29	J	pCi/g	
Q18-10	R	Thorium-230	Q18-10C2-R-18	NONE	482345.76	1351679	3/5/97	1.00	0.24		pCi/g	1.22	0.24	-	pCi/g	
Q18-10	R	Thorium-230	Q18-10C2-R-19	NONE	482517	1351725	3/5/97	0.92	0.26		pCi/g	1.20	0.25	J	pCi/g	
Q18-10	R	Thorium-230	Q18-10C2-R-20	NONE	482434.92	1351734	3/5/97	1.40	0.27		pCi/g	1.63	0.28	-	pCi/g	
Q18-10	R	Thorium-230	Q18-10C2-R-21	NONE	482320.45	1351748	3/5/97	1.10	0.29		pCi/g	1.34	0.29	J	pCi/g	
Q18-10	R	Thorium-232	Q18-10C-422483	NONE	482483.63	1351422	11/27/96	1.08	0.17		pCi/g	1.08	0.17	J	pCi/g	
Q18-10	R	Thorium-232	Q18-10C-485247	NONE	482247.51	1351485	11/27/96	1.12	0.10		pCi/g	1.13	0.10	-	pCi/g	
Q18-10	R	Thorium-232	Q18-10C-487528	NONE	482528.32	1351488	11/22/96	1.10	0.44		pCi/g	1.10	0.44	-	pCi/g	
Q18-10	R	Thorium-232	Q18-10C-509599	NONE	482599.83	1351509	11/22/96	1.20	0.49		pCi/g	1.20	0.49	-	pCi/g	
Q18-10	R	Thorium-232	Q18-10C-517303	NONE	482303.66	1351518	11/27/96	1.10	0.10		pCi/g	1.11	0.09	-	pCi/g	
Q18-10	R	Thorium-232	Q18-10C-542232	NONE	482232.37	1351543	11/27/96	1.14	0.18		pCi/g	1.14	0.18	J	pCi/g	
Q18-10	R	Thorium-232	Q18-10C-638515	NONE	482515.57	1351639	11/14/96	1.10	0.24		pCi/g	1.10	0.24	Z	pCi/g	
Q18-10	R	Thorium-232	Q18-10C2-R-16	NONE	482407.86	1351588	3/5/97	1.10	0.23		pCi/g	1.05	0.23	-	pCi/g	
Q18-10	R	Thorium-232	Q18-10C2-R-17	NONE	482515.57	1351639	3/5/97	1.40	0.29		pCi/g	1.38	0.28	-	pCi/g	

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								Laboratory Data				Validation Data				
CU Name	CU Type	Parameter	Sample ID	Suffix	Northing	Easting	Sample Date	Lab Result	TPU	Qualifier	Units	Val. Result	TPU	Qualifier	Units	Duplicate of
Q18-10	R	Thorium-232	Q18-10C2-R-18	NONE	482345.76	1351679	3/5/97	1.00	0.21		pCi/g	1.04	0.21	-	pCi/g	
Q18-10	R	Thorium-232	Q18-10C2-R-19	NONE	482517	1351725	3/5/97	0.95	0.22		pCi/g	0.95	0.22	J	pCi/g	
Q18-10	R	Thorium-232	Q18-10C2-R-20	NONE	482434.92	1351734	3/5/97	1.10	0.21		pCi/g	1.10	0.21	-	pCi/g	
Q18-10	R	Thorium-232	Q18-10C2-R-21	NONE	482320.45	1351748	3/5/97	1.00	0.25		pCi/g	1.03	0.24	-	pCi/g	
Q18-10	R	Uranium, Total	Q18-10C-422483	NONE	482483.63	1351422	11/27/96				ug/g	9.93		J	ug/g	
Q18-10	R	Uranium, Total	Q18-10C-485247	NONE	482247.51	1351485	11/27/96				ug/g	13.19		U	ug/g	
Q18-10	R	Uranium, Total	Q18-10C-487528	NONE	482528.32	1351488	11/22/96				ug/g	18.29	2.97	-	ug/g	
Q18-10	R	Uranium, Total	Q18-10C-509599	NONE	482599.83	1351509	11/22/96				ug/g	6.60	2.13	-	ug/g	
Q18-10	R	Uranium, Total	Q18-10C-517303	NONE	482303.66	1351518	11/27/96				ug/g	21.83		-	ug/g	
Q18-10	R	Uranium, Total	Q18-10C-542232	NONE	482232.37	1351543	11/27/96				ug/g	8.10		U	ug/g	
Q18-10	R	Uranium, Total	Q18-10C-588407	NONE	482407.86	1351588	11/14/96				ug/g	8.40		J	ug/g	
Q18-10	R	Uranium, Total	Q18-10C-638515	NONE	482515.57	1351639	11/14/96				ug/g	4.80		U	ug/g	
Q18-10	R	Uranium, Total	Q18-10C-679345	NONE	482345.76	1351679	11/14/96				ug/g	4.50		J	ug/g	
Q18-10	R	Uranium, Total	Q18-10C-725517	NONE	482517	1351725	11/14/96				ug/g	4.50	6.00	J	ug/g	
Q18-10	R	Uranium, Total	Q18-10C-734434	NONE	482434.92	1351734	11/14/96				ug/g	11.69		J	ug/g	
Q18-10	R	Uranium, Total	Q18-10C-747320	NONE	482320.45	1351748	11/14/96				ug/g	7.20		J	ug/g	
Q18-10	R	Uranium-238	Q18-10C-422483	NONE	482483.63	1351422	11/27/96	3.31	1.90		pCi/g	3.31		J	pCi/g	
Q18-10	R	Uranium-238	Q18-10C-485247	NONE	482247.51	1351485	11/27/96	3.25	2.80	U	pCi/g	4.40		U	pCi/g	
Q18-10	R	Uranium-238	Q18-10C-487528	NONE	482528.32	1351488	11/22/96	6.10	0.99		pCi/g	6.10	0.99	-	pCi/g	
Q18-10	R	Uranium-238	Q18-10C-509599	NONE	482599.83	1351509	11/22/96	2.20	0.71		pCi/g	2.20	0.71	-	pCi/g	
Q18-10	R	Uranium-238	Q18-10C-517303	NONE	482303.66	1351518	11/27/96	7.28	2.70		pCi/g	7.28		-	pCi/g	
Q18-10	R	Uranium-238	Q18-10C-542232	NONE	482232.37	1351543	11/27/96	2.18	1.70	U	pCi/g	2.70		U	pCi/g	
Q18-10	R	Uranium-238	Q18-10C-588407	NONE	482407.86	1351588	11/14/96	2.80	1.80		pCi/g	2.80		J	pCi/g	
Q18-10	R	Uranium-238	Q18-10C-638515	NONE	482515.57	1351639	11/14/96	1.20	1.70	U	pCi/g	1.60		U	pCi/g	
Q18-10	R	Uranium-238	Q18-10C-679345	NONE	482345.76	1351679	11/14/96	1.50	1.50		pCi/g	1.50		J	pCi/g	
Q18-10	R	Uranium-238	Q18-10C-725517	NONE	482517	1351725	11/14/96	1.50	2.00		pCi/g	1.50		J	pCi/g	
Q18-10	R	Uranium-238	Q18-10C-734434	NONE	482434.92	1351734	11/14/96	3.90	4.00		pCi/g	3.90		J	pCi/g	
Q18-10	R	Uranium-238	Q18-10C-747320	NONE	482320.45	1351748	11/14/96	2.40	2.20		pCi/g	2.40		J	pCi/g	
Q18-30	R	Moisture Content	Q18-30C-404861	NONE	482861.28	1351404	11/22/96	20.70			Percent			NV	Percent	
Q18-30	R	Moisture Content	Q18-30C-440916	NONE	482916.24	1351440	11/22/96	20.20			Percent			NV	Percent	
Q18-30	R	Moisture Content	Q18-30C-479618	NONE	482618.5	1351480	11/22/96	17.80			Percent			NV	Percent	
Q18-30	R	Moisture Content	Q18-30C-538810	NONE	482810.79	1351539	11/22/96	21.30			Percent			NV	Percent	
Q18-30	R	Moisture Content	Q18-30C-563663	NONE	482663.85	1351564	11/14/96	17.96			Percent	17.96		NV	Percent	
Q18-30	R	Moisture Content	Q18-30C-587936	NONE	482936.61	1351588	11/13/96	17.20			Percent			NV	Percent	
Q18-30	R	Moisture Content	Q18-30C-616928	NONE	482928.25	1351616	11/13/96	18.90			Percent			NV	Percent	
Q18-30	R	Moisture Content	Q18-30C-640877	NONE	482877.74	1351641	11/13/96	20.10			Percent			NV	Percent	
Q18-30	R	Moisture Content	Q18-30C-704635	NONE	482635.77	1351705	11/14/96	17.79			Percent	17.79		NV	Percent	
Q18-30	R	Moisture Content	Q18-30C-753949	NONE	482949.14	1351754	11/13/96	18.30			Percent			NV	Percent	
Q18-30	R	Moisture Content	Q18-30C-772773	NONE	482773.71	1351773	11/13/96	19.40			Percent			NV	Percent	

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								Laboratory Data				Validation Data				
CU Name	CU Type	Parameter	Sample ID	Suffix	Northing	Easting	Sample Date	Lab Result	TPU	Qualifier	Units	Val. Result	TPU	Qualifier	Units	Duplicate of
Q18-30	R	Moisture Content	Q18-30C-774831	NONE	482831.37	1351775	11/13/96	19.80			Percent			NV	Percent	
Q18-30	R	Moisture Content	Q18-30C2-R-22	NONE	482663.85	1351564	3/5/97	15.53			Percent			NV	Percent	
Q18-30	R	Moisture Content	Q18-30C2-R-23	NONE	482635.77	1351705	3/5/97	18.72			Percent			NV	Percent	
Q18-30	R	Moisture Content	Q18-30C2-R-23-D	NONE	482635.77	1351705	3/5/97	15.04			Percent			NV	Percent	Q18-30C2-R-23
Q18-30	R	Radium-226	Q18-30C-404861	NONE	482861.28	1351404	11/22/96	1.40	0.17		pCi/g	1.40	0.17	-	pCi/g	
Q18-30	R	Radium-226	Q18-30C-440916	NONE	482916.24	1351440	11/22/96	1.30	0.17		pCi/g	1.30	0.17	-	pCi/g	
Q18-30	R	Radium-226	Q18-30C-479618	NONE	482618.5	1351480	11/22/96	1.30	0.16		pCi/g	1.30	0.16	-	pCi/g	
Q18-30	R	Radium-226	Q18-30C-538810	NONE	482810.79	1351539	11/22/96	1.30	0.16		pCi/g	1.20	0.13	-	pCi/g	
Q18-30	R	Radium-226	Q18-30C-563663	NONE	482663.85	1351564	11/14/96	1.40	0.30		pCi/g	1.40		J	pCi/g	
Q18-30	R	Radium-226	Q18-30C-587936	NONE	482936.61	1351588	11/13/96	1.25	0.31		pCi/g	1.25	0.31	-	pCi/g	
Q18-30	R	Radium-226	Q18-30C-616928	NONE	482928.25	1351616	11/13/96	1.28	0.33		pCi/g	1.28	0.33	-	pCi/g	
Q18-30	R	Radium-226	Q18-30C-640877	NONE	482877.74	1351641	11/13/96	1.30	0.32		pCi/g	1.30	0.32	-	pCi/g	
Q18-30	R	Radium-226	Q18-30C-704635	NONE	482635.77	1351705	11/14/96	1.10	0.20		pCi/g	1.10		J	pCi/g	
Q18-30	R	Radium-226	Q18-30C-753949	NONE	482949.14	1351754	11/13/96	1.09	0.28		pCi/g	1.09	0.28	-	pCi/g	
Q18-30	R	Radium-226	Q18-30C-772773	NONE	482773.71	1351773	11/13/96	1.13	0.30		pCi/g	1.13	0.30	-	pCi/g	
Q18-30	R	Radium-226	Q18-30C-774831	NONE	482831.37	1351775	11/13/96	1.53	0.29		pCi/g	1.53	0.29	-	pCi/g	
Q18-30	R	Radium-228	Q18-30C-404861	NONE	482861.28	1351404	11/22/96	1.30	0.34		pCi/g	1.30	0.34	-	pCi/g	
Q18-30	R	Radium-228	Q18-30C-440916	NONE	482916.24	1351440	11/22/96	1.20	0.36		pCi/g	1.20	0.36	-	pCi/g	
Q18-30	R	Radium-228	Q18-30C-479618	NONE	482618.5	1351480	11/22/96	1.20	0.37		pCi/g	1.20	0.37	-	pCi/g	
Q18-30	R	Radium-228	Q18-30C-538810	NONE	482810.79	1351539	11/22/96	1.20	0.32		pCi/g	1.20	0.32	-	pCi/g	
Q18-30	R	Radium-228	Q18-30C-563663	NONE	482663.85	1351564	11/14/96	1.30	0.34		pCi/g	1.30		-	pCi/g	
Q18-30	R	Radium-228	Q18-30C-587936	NONE	482936.61	1351588	11/13/96	1.48	0.89		pCi/g	1.48	0.89	J	pCi/g	
Q18-30	R	Radium-228	Q18-30C-616928	NONE	482928.25	1351616	11/13/96	1.13	0.46		pCi/g	1.13	0.46	-	pCi/g	
Q18-30	R	Radium-228	Q18-30C-640877	NONE	482877.74	1351641	11/13/96	1.34	0.54		pCi/g	1.34	0.54	-	pCi/g	
Q18-30	R	Radium-228	Q18-30C-704635	NONE	482635.77	1351705	11/14/96	1.20	0.28		pCi/g	1.20		-	pCi/g	
Q18-30	R	Radium-228	Q18-30C-753949	NONE	482949.14	1351754	11/13/96	0.74	0.61	U	pCi/g	0.88		UJ	pCi/g	
Q18-30	R	Radium-228	Q18-30C-772773	NONE	482773.71	1351773	11/13/96	1.21	0.46		pCi/g	1.21	0.46	-	pCi/g	
Q18-30	R	Radium-228	Q18-30C-774831	NONE	482831.37	1351775	11/13/96	1.05	0.51		pCi/g	1.05	0.51	-	pCi/g	
Q18-30	R	Thorium-228	Q18-30C-404861	NONE	482861.28	1351404	11/22/96	1.10	0.44		pCi/g	1.10	0.44	-	pCi/g	
Q18-30	R	Thorium-228	Q18-30C-440916	NONE	482916.24	1351440	11/22/96	1.20	0.47		pCi/g	1.20	0.47	-	pCi/g	
Q18-30	R	Thorium-228	Q18-30C-479618	NONE	482618.5	1351480	11/22/96	0.78	0.34		pCi/g	0.78	0.34	-	pCi/g	
Q18-30	R	Thorium-228	Q18-30C-538810	NONE	482810.79	1351539	11/22/96	1.10	0.42		pCi/g	1.10	0.42	-	pCi/g	
Q18-30	R	Thorium-228	Q18-30C-587936	NONE	482936.61	1351588	11/13/96	1.04	0.10		pCi/g	1.07	0.10	J	pCi/g	
Q18-30	R	Thorium-228	Q18-30C-616928	NONE	482928.25	1351616	11/13/96	1.20	0.10		pCi/g	1.22	0.10	-	pCi/g	
Q18-30	R	Thorium-228	Q18-30C-640877	NONE	482877.74	1351641	11/13/96	1.16	0.11		pCi/g	1.19	0.11	-	pCi/g	
Q18-30	R	Thorium-228	Q18-30C-753949	NONE	482949.14	1351754	11/13/96	1.17	0.10		pCi/g	1.19	0.10	-	pCi/g	
Q18-30	R	Thorium-228	Q18-30C-772773	NONE	482773.71	1351773	11/13/96	1.12	0.10		pCi/g	1.15	0.10	-	pCi/g	
Q18-30	R	Thorium-228	Q18-30C-774831	NONE	482831.37	1351775	11/13/96	1.11	0.10		pCi/g	1.13	0.10	-	pCi/g	
Q18-30	R	Thorium-228	Q18-30C2-R-22	NONE	482663.85	1351564	3/5/97	1.20	0.29		pCi/g	1.19	0.27	-	pCi/g	
Q18-30	R	Thorium-228	Q18-30C2-R-23	NONE	482635.77	1351705	3/5/97	1.20	0.28		pCi/g	1.18	0.26	-	pCi/g	

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								Laboratory Data				Validation Data				
CU Name	CU Type	Parameter	Sample ID	Suffix	Northing	Easting	Sample Date	Lab Result	TPU	Qualifier	Units	Val. Result	TPU	Qualifier	Units	Duplicate of
Q18-30	R	Thorium-228	Q18-30C2-R-23-D	NONE	482635.77	1351705	3/5/97	0.91	0.27		pCi/g	0.91	0.25	J	pCi/g	Q18-30C2-R-23
Q18-30	R	Thorium-232	Q18-30C-404861	NONE	482861.28	1351404	11/22/96	1.10	0.41		pCi/g	1.10	0.41	-	pCi/g	
Q18-30	R	Thorium-232	Q18-30C-440916	NONE	482916.24	1351440	11/22/96	1.10	0.45		pCi/g	1.10	0.45	-	pCi/g	
Q18-30	R	Thorium-232	Q18-30C-479618	NONE	482618.5	1351480	11/22/96	1.00	0.42		pCi/g	1.00	0.42	-	pCi/g	
Q18-30	R	Thorium-232	Q18-30C-538810	NONE	482810.79	1351539	11/22/96	1.20	0.41		pCi/g	1.20	0.41	-	pCi/g	
Q18-30	R	Thorium-232	Q18-30C-587936	NONE	482936.61	1351588	11/13/96	1.07	0.09		pCi/g	1.07	0.09	-	pCi/g	
Q18-30	R	Thorium-232	Q18-30C-616928	NONE	482928.25	1351616	11/13/96	1.10	0.09		pCi/g	1.10	0.09	-	pCi/g	
Q18-30	R	Thorium-232	Q18-30C-640877	NONE	482877.74	1351641	11/13/96	1.09	0.10		pCi/g	1.09	0.10	-	pCi/g	
Q18-30	R	Thorium-232	Q18-30C-753949	NONE	482949.14	1351754	11/13/96	1.12	0.10		pCi/g	1.12	0.10	-	pCi/g	
Q18-30	R	Thorium-232	Q18-30C-772773	NONE	482773.71	1351773	11/13/96	1.26	0.10		pCi/g	1.26	0.10	-	pCi/g	
Q18-30	R	Thorium-232	Q18-30C-774831	NONE	482831.37	1351775	11/13/96	1.23	0.10		pCi/g	1.23	0.10	-	pCi/g	
Q18-30	R	Thorium-232	Q18-30C2-R-22	NONE	482663.85	1351564	3/5/97	1.20	0.26		pCi/g	1.15	0.25	-	pCi/g	
Q18-30	R	Thorium-232	Q18-30C2-R-23	NONE	482635.77	1351705	3/5/97	0.98	0.23		pCi/g	0.98	0.22	-	pCi/g	
Q18-30	R	Thorium-232	Q18-30C2-R-23-D	NONE	482635.77	1351705	3/5/97	1.00	0.23		pCi/g	1.02	0.22	J	pCi/g	Q18-30C2-R-23
Q18-30	R	Uranium, Total	Q18-30C-404861	NONE	482861.28	1351404	11/22/96				ug/g	6.30	1.80	-	ug/g	
Q18-30	R	Uranium, Total	Q18-30C-440916	NONE	482916.24	1351440	11/22/96				ug/g	5.10	2.07	-	ug/g	
Q18-30	R	Uranium, Total	Q18-30C-479618	NONE	482618.5	1351480	11/22/96				ug/g	5.70	3.00	J	ug/g	
Q18-30	R	Uranium, Total	Q18-30C-538810	NONE	482810.79	1351539	11/22/96				ug/g	6.90	2.58	-	ug/g	
Q18-30	R	Uranium, Total	Q18-30C-563663	NONE	482663.85	1351564	11/14/96				ug/g	4.20		J	ug/g	
Q18-30	R	Uranium, Total	Q18-30C-587936	NONE	482936.61	1351588	11/13/96				ug/g	5.40		U	ug/g	
Q18-30	R	Uranium, Total	Q18-30C-616928	NONE	482928.25	1351616	11/13/96				ug/g	9.00		U	ug/g	
Q18-30	R	Uranium, Total	Q18-30C-640877	NONE	482877.74	1351641	11/13/96				ug/g	5.40		U	ug/g	
Q18-30	R	Uranium, Total	Q18-30C-704635	NONE	482635.77	1351705	11/14/96				ug/g	10.20		J	ug/g	
Q18-30	R	Uranium, Total	Q18-30C-753949	NONE	482949.14	1351754	11/13/96				ug/g	13.28		J	ug/g	
Q18-30	R	Uranium, Total	Q18-30C-772773	NONE	482773.71	1351773	11/13/96				ug/g	8.13		J	ug/g	
Q18-30	R	Uranium, Total	Q18-30C-774831	NONE	482831.37	1351775	11/13/96				ug/g	5.10		U	ug/g	
Q18-30	R	Uranium-238	Q18-30C-404861	NONE	482861.28	1351404	11/22/96	2.10	0.60		pCi/g	2.10	0.60	-	pCi/g	
Q18-30	R	Uranium-238	Q18-30C-440916	NONE	482916.24	1351440	11/22/96	1.70	0.69		pCi/g	1.70	0.69	-	pCi/g	
Q18-30	R	Uranium-238	Q18-30C-479618	NONE	482618.5	1351480	11/22/96	1.90	1.00		pCi/g	1.90	1.00	J	pCi/g	
Q18-30	R	Uranium-238	Q18-30C-538810	NONE	482810.79	1351539	11/22/96	2.30	0.86		pCi/g	2.30	0.86	-	pCi/g	
Q18-30	R	Uranium-238	Q18-30C-563663	NONE	482663.85	1351564	11/14/96	1.40	1.60		pCi/g	1.40		J	pCi/g	
Q18-30	R	Uranium-238	Q18-30C-587936	NONE	482936.61	1351588	11/13/96	0.44	1.10	U	pCi/g	1.80		U	pCi/g	
Q18-30	R	Uranium-238	Q18-30C-616928	NONE	482928.25	1351616	11/13/96	1.82	1.90	U	pCi/g	3.00		U	pCi/g	
Q18-30	R	Uranium-238	Q18-30C-640877	NONE	482877.74	1351641	11/13/96	0.90	1.20	U	pCi/g	1.80		U	pCi/g	
Q18-30	R	Uranium-238	Q18-30C-704635	NONE	482635.77	1351705	11/14/96	3.40	2.10		pCi/g	3.40		J	pCi/g	
Q18-30	R	Uranium-238	Q18-30C-753949	NONE	482949.14	1351754	11/13/96	4.43	2.50		pCi/g	4.43	2.50	J	pCi/g	
Q18-30	R	Uranium-238	Q18-30C-772773	NONE	482773.71	1351773	11/13/96	2.71	1.60		pCi/g	2.71	1.60	J	pCi/g	
Q18-30	R	Uranium-238	Q18-30C-774831	NONE	482831.37	1351775	11/13/96	0.63	1.10	U	pCi/g	1.70		U	pCi/g	
Q18-40	R	Moisture Content	Q18-40C-811654	NONE	482654.93	1351811	11/13/96	20.20			Percent			NV	Percent	

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								Laboratory Data				Validation Data				
CU Name	CU Type	Parameter	Sample ID	Suffix	Northing	Easting	Sample Date	Lab Result	TPU	Qualifier	Units	Val. Result	TPU	Qualifier	Units	Duplicate of
Q18-40	R	Moisture Content	Q18-40C-870874	NONE	482874.8	1351870	11/13/96	21.20			Percent			NV	Percent	
Q18-40	R	Moisture Content	Q18-40C-872764	NONE	482764.93	1351872	11/13/96	22.40			Percent			NV	Percent	
Q18-40	R	Moisture Content	Q18-40C-891658	NONE	482658.95	1351892	11/13/96	18.90			Percent			NV	Percent	
Q18-40	R	Moisture Content	Q18-40C-898975	NONE	482975.94	1351899	11/13/96	21.70			Percent			NV	Percent	
Q18-40	R	Moisture Content	Q18-40C-914679	NONE	482679.36	1351915	11/13/96	21.30			Percent			NV	Percent	
Q18-40	R	Moisture Content	Q18-40C-920785	NONE	482785.36	1351921	11/13/96	17.80			Percent			NV	Percent	
Q18-40	R	Moisture Content	Q18-40C-926871	NONE	482871.7	1351926	11/13/96	20.80			Percent			NV	Percent	
Q18-40	R	Moisture Content	Q18-40C-977977	NONE	482977.79	1351978	11/13/96	21.70			Percent	21.70		NV	Percent	
Q18-40	R	Moisture Content	Q18-40C-977977-D	NONE	482977.79	1351978	11/13/96	22.20			Percent			NV	Percent	Q18-40C-977977
Q18-40	R	Moisture Content	Q18-40C-981808	NONE	482808.19	1351981	11/13/96	20.60			Percent			NV	Percent	
Q18-40	R	Moisture Content	Q18-40C-986850	NONE	482850.57	1351986	11/13/96	18.60			Percent			NV	Percent	
Q18-40	R	Moisture Content	Q18-40C-987728	NONE	482728.82	1351987	11/13/96	22.20			Percent			NV	Percent	
Q18-40	R	Radium-226	Q18-40A-C1-1-R	NONE	482843	1351848	5/6/97	0.94	0.50		pCi/g	0.88	0.41	Z	pCi/g	
Q18-40	R	Radium-226	Q18-40A-C1-1-R	RE	482843	1351848	5/6/97	1.20	0.21		pCi/g	1.24	0.22	-	pCi/g	
Q18-40	R	Radium-226	Q18-40A-C1-10-R	RE	482939	1351864	5/7/97	1.20	0.28		pCi/g	1.26	0.30	-	pCi/g	
Q18-40	R	Radium-226	Q18-40A-C1-10-R	NONE	482939	1351864	5/7/97	0.72	0.39		pCi/g	0.65	0.27	Z	pCi/g	
Q18-40	R	Radium-226	Q18-40A-C1-11-R	RE	482924	1351923	5/7/97	1.20	00000		pCi/g	1.30	0.24	-	pCi/g	
Q18-40	R	Radium-226	Q18-40A-C1-11-R	NONE	482924	1351923	5/7/97	0.74	0.42		pCi/g	0.67	0.30	Z	pCi/g	
Q18-40	R	Radium-226	Q18-40A-C1-12-R	NONE	482941	1352016	5/7/97	0.91	0.56		pCi/g	0.84	0.48	Z	pCi/g	
Q18-40	R	Radium-226	Q18-40A-C1-12-R	RE	482941	1352016	5/7/97	1.10	0.22		pCi/g	1.14	0.24	-	pCi/g	
Q18-40	R	Radium-226	Q18-40A-C1-13-R	NONE	482999	1351857	5/6/97	0.59	0.30		pCi/g	0.52	0.26	Z	pCi/g	
Q18-40	R	Radium-226	Q18-40A-C1-13-R	RE	482999	1351857	5/6/97	1.20	0.24		pCi/g	1.28	0.25	-	pCi/g	
Q18-40	R	Radium-226	Q18-40A-C1-16-R	NONE	482965	1352001	5/7/97	1.10	0.61		pCi/g	1.10	0.53	Z	pCi/g	
Q18-40	R	Radium-226	Q18-40A-C1-16-R	RE	482965	1352001	5/7/97	1.20	0.35		pCi/g	1.30	0.37	-	pCi/g	
Q18-40	R	Radium-226	Q18-40A-C1-2-R	RE	482852	1351893	5/7/97	1.10	0.22		pCi/g	1.16	0.24	-	pCi/g	
Q18-40	R	Radium-226	Q18-40A-C1-2-R	NONE	482852	1351893	5/7/97	1.20	0.61		pCi/g	1.10	0.52	Z	pCi/g	
Q18-40	R	Radium-226	Q18-40A-C1-3-R	NONE	482837	1351948	5/7/97	1.30	0.53		pCi/g	1.20	0.45	Z	pCi/g	
Q18-40	R	Radium-226	Q18-40A-C1-3-R	RE	482837	1351948	5/7/97	1.10	0.27		pCi/g	1.12	0.28	-	pCi/g	
Q18-40	R	Radium-226	Q18-40A-C1-5-R	NONE	482900	1351838	5/6/97	1.10	0.62		pCi/g	1.10	0.53	Z	pCi/g	
Q18-40	R	Radium-226	Q18-40A-C1-5-R	RE	482900	1351838	5/6/97	1.10	0.22		pCi/g	1.22	0.23	-	pCi/g	
Q18-40	R	Radium-226	Q18-40A-C1-5-R-D	RE	482900	1351838	5/6/97	1.10	0.31		pCi/g	1.20	0.33	-	pCi/g	Q18-40A-C1-5-R
Q18-40	R	Radium-226	Q18-40A-C1-5-R-D	NONE	482900	1351838	5/6/97	1.40	0.67		pCi/g	1.40	0.60	Z	pCi/g	Q18-40A-C1-5-R
Q18-40	R	Radium-226	Q18-40A-C1-8-R	RE	482907	1352004	5/7/97	1.10	0.21		pCi/g	1.19	0.22	-	pCi/g	
Q18-40	R	Radium-226	Q18-40A-C1-8-R	NONE	482907	1352004	5/7/97	1.90	0.63		pCi/g	1.80	0.56	Z	pCi/g	
Q18-40	R	Radium-226	Q18-40A-C1-9-R	NONE	482949	1351816	5/6/97	1.10	0.81		pCi/g	1.10	0.73	Z	pCi/g	
Q18-40	R	Radium-226	Q18-40A-C1-9-R	RE	482949	1351816	5/6/97	0.92	0.23		pCi/g	0.98	0.25	-	pCi/g	
Q18-40	R	Radium-226	Q18-40B-C2-1-R	NONE	482636	1351834	5/6/97	1.40	0.70		pCi/g	1.20	0.61	Z	pCi/g	
Q18-40	R	Radium-226	Q18-40B-C2-1-R	RE	482636	1351834	5/6/97	1.40	0.32		pCi/g	1.50	0.34	-	pCi/g	
Q18-40	R	Radium-226	Q18-40B-C2-10-R	RE	482755	1351905	5/6/97	1.40	0.24		pCi/g	1.50	0.25	-	pCi/g	
Q18-40	R	Radium-226	Q18-40B-C2-10-R	NONE	482755	1351905	5/6/97	1.80	0.79		pCi/g	1.60	0.71	Z	pCi/g	

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								Laboratory Data				Validation Data				
CU Name	CU Type	Parameter	Sample ID	Suffix	Northing	Easting	Sample Date	Lab Result	TPU	Qualifier	Units	Val. Result	TPU	Qualifier	Units	Duplicate of
Q18-40	R	Radium-226	Q18-40B-C2-11-R	NONE	482735	1351948	5/6/97	1.20	0.52		pCi/g	0.99	0.44	Z	pCi/g	
Q18-40	R	Radium-226	Q18-40B-C2-11-R	RE	482735	1351948	5/6/97	1.40	0.23		pCi/g	1.47	0.25	-	pCi/g	
Q18-40	R	Radium-226	Q18-40B-C2-12-R	RE	482773	1351981	5/6/97	1.50	0.31		pCi/g	1.60	0.33	-	pCi/g	
Q18-40	R	Radium-226	Q18-40B-C2-12-R	NONE	482773	1351981	5/6/97	1.30	0.47		pCi/g	1.10	0.38	Z	pCi/g	
Q18-40	R	Radium-226	Q18-40B-C2-13-R	NONE	482821	1351805	5/6/97	1.30	0.61		pCi/g	1.10	0.55	Z	pCi/g	
Q18-40	R	Radium-226	Q18-40B-C2-13-R	RE	482821	1351805	5/6/97	1.30	0.23		pCi/g	1.38	0.24	-	pCi/g	
Q18-40	R	Radium-226	Q18-40B-C2-14-R	NONE	482803	1351862	5/6/97	2.50	1.00		pCi/g	2.30	0.95	Z	pCi/g	
Q18-40	R	Radium-226	Q18-40B-C2-14-R	RE	482803	1351862	5/6/97	1.10	0.20		pCi/g	1.17	0.22	-	pCi/g	
Q18-40	R	Radium-226	Q18-40B-C2-15-R	NONE	482814	1351950	5/6/97	1.70	0.71		pCi/g	1.60	0.63	Z	pCi/g	
Q18-40	R	Radium-226	Q18-40B-C2-15-R	RE	482814	1351950	5/6/97	1.50	0.33		pCi/g	1.59	0.36	-	pCi/g	
Q18-40	R	Radium-226	Q18-40B-C2-16-R	RE	482790	1352009	5/6/97	1.40	0.32		pCi/g	1.48	0.34	-	pCi/g	
Q18-40	R	Radium-226	Q18-40B-C2-16-R	NONE	482790	1352009	5/6/97	2.00	0.98		pCi/g	1.80	0.90	Z	pCi/g	
Q18-40	R	Radium-226	Q18-40B-C2-2-R	NONE	482646	1351863	5/6/97	0.94	0.75		pCi/g	0.76	0.61	Z	pCi/g	
Q18-40	R	Radium-226	Q18-40B-C2-2-R	RE	482646	1351863	5/6/97	1.20	0.29		pCi/g	1.28	0.31	-	pCi/g	
Q18-40	R	Radium-226	Q18-40B-C2-3-R	NONE	482653	1351942	5/6/97	1.80	0.67		pCi/g	1.60	0.60	Z	pCi/g	
Q18-40	R	Radium-226	Q18-40B-C2-3-R	RE	482653	1351942	5/6/97	1.20	0.23		pCi/g	1.34	0.24	-	pCi/g	
Q18-40	R	Radium-226	Q18-40B-C2-4-R	NONE	482646	1351969	5/6/97	1.20	0.53		pCi/g	1.00	0.45	Z	pCi/g	
Q18-40	R	Radium-226	Q18-40B-C2-4-R	RE	482646	1351969	5/6/97	1.30	0.29		pCi/g	1.35	0.31	-	pCi/g	
Q18-40	R	Radium-226	Q18-40B-C2-5-R	NONE	482686	1351832	5/6/97	1.50	0.75		pCi/g	1.30	0.65	Z	pCi/g	
Q18-40	R	Radium-226	Q18-40B-C2-5-R	RE	482686	1351832	5/6/97	1.40	0.32		pCi/g	1.45	0.34	-	pCi/g	
Q18-40	R	Radium-226	Q18-40B-C2-5-R-D	RE	482686	1351832	5/6/97	1.30	0.22		pCi/g	1.43	0.23	-	pCi/g	Q18-40B-C2-5-R
Q18-40	R	Radium-226	Q18-40B-C2-5-R-D	NONE	482686	1351832	5/6/97	2.10	0.93		pCi/g	1.90	0.85	Z	pCi/g	Q18-40B-C2-5-R
Q18-40	R	Radium-226	Q18-40B-C2-6-R	RE	482708	1351885	5/6/97	1.20	0.27		pCi/g	1.28	0.29	-	pCi/g	
Q18-40	R	Radium-226	Q18-40B-C2-6-R	NONE	482708	1351885	5/6/97	1.30	0.55		pCi/g	1.10	0.46	Z	pCi/g	
Q18-40	R	Radium-226	Q18-40B-C2-7-R	NONE	482691	1351937	5/6/97	1.70	0.63		pCi/g	1.50	0.55	Z	pCi/g	
Q18-40	R	Radium-226	Q18-40B-C2-7-R	RE	482691	1351937	5/6/97	1.60	0.32		pCi/g	1.71	0.35	-	pCi/g	
Q18-40	R	Radium-226	Q18-40B-C2-8-R	RE	482695	1351970	5/6/97	1.40	0.22		pCi/g	1.51	0.24	-	pCi/g	
Q18-40	R	Radium-226	Q18-40B-C2-8-R	NONE	482695	1351970	5/6/97	1.30	0.51		pCi/g	1.10	0.42	Z	pCi/g	
Q18-40	R	Radium-226	Q18-40B-C2-9-R	RE	482741	1351816	5/6/97	1.20	0.23		pCi/g	1.30	0.24	-	pCi/g	
Q18-40	R	Radium-226	Q18-40B-C2-9-R	NONE	482741	1351816	5/6/97	2.00	1.40		pCi/g	1.90	1.20	Z	pCi/g	
Q18-40	R	Radium-226	Q18-40C-870874	NONE	482874.8	1351870	11/13/96	1.57	0.30		pCi/g	1.57	0.30	-	pCi/g	
Q18-40	R	Radium-226	Q18-40C-872764	NONE	482764.93	1351872	11/13/96	1.25	0.21		pCi/g	1.25	0.21	-	pCi/g	
Q18-40	R	Radium-226	Q18-40C-898975	NONE	482975.94	1351899	11/13/96	1.94	0.33		pCi/g	1.94	0.33	-	pCi/g	
Q18-40	R	Radium-226	Q18-40C-926871	NONE	482871.7	1351926	11/13/96	1.07	0.22		pCi/g	1.07	0.22	-	pCi/g	
Q18-40	R	Radium-226	Q18-40C-977977	NONE	482977.79	1351978	11/13/96	1.40	0.31		pCi/g	1.40	0.31	-	pCi/g	
Q18-40	R	Radium-226	Q18-40C-977977-D	NONE	482977.79	1351978	11/13/96	1.64	0.31		pCi/g	1.64	0.31	-	pCi/g	Q18-40C-977977
Q18-40	R	Radium-228	Q18-40C-811654	NONE	482654.93	1351811	11/13/96	1.38	0.43		pCi/g	1.38	0.43	-	pCi/g	
Q18-40	R	Radium-228	Q18-40C-870874	NONE	482874.8	1351870	11/13/96	1.13	0.54		pCi/g	1.13	0.55	-	pCi/g	
Q18-40	R	Radium-228	Q18-40C-872764	NONE	482764.93	1351872	11/13/96	1.11	0.41		pCi/g	1.11	0.41	-	pCi/g	
Q18-40	R	Radium-228	Q18-40C-891658	NONE	482658.95	1351892	11/13/96	1.14	0.42		pCi/g	1.14	0.42	-	pCi/g	

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								Laboratory Data				Validation Data				
CU Name	CU Type	Parameter	Sample ID	Suffix	Northing	Easting	Sample Date	Lab Result	TPU	Qualifier	Units	Val. Result	TPU	Qualifier	Units	Duplicate of
Q18-40	R	Radium-228	Q18-40C-898975	NONE	482975.94	1351899	11/13/96	1.58	0.59		pCi/g	1.58	0.59	-	pCi/g	
Q18-40	R	Radium-228	Q18-40C-914679	NONE	482679.36	1351915	11/13/96	1.40	0.60		pCi/g	1.40	0.60	-	pCi/g	
Q18-40	R	Radium-228	Q18-40C-920785	NONE	482785.36	1351921	11/13/96	1.49	0.39		pCi/g	1.49	0.39	-	pCi/g	
Q18-40	R	Radium-228	Q18-40C-926871	NONE	482871.7	1351926	11/13/96	1.43	0.39		pCi/g	1.43	0.39	-	pCi/g	
Q18-40	R	Radium-228	Q18-40C-977977	NONE	482977.79	1351978	11/13/96	1.74	0.58		pCi/g	1.74	0.58	-	pCi/g	
Q18-40	R	Radium-228	Q18-40C-977977-D	NONE	482977.79	1351978	11/13/96	1.66	0.57		pCi/g	1.66	0.57	-	pCi/g	Q18-40C-977977
Q18-40	R	Radium-228	Q18-40C-981808	NONE	482808.19	1351981	11/13/96	1.25	0.40		pCi/g	1.25	0.40	-	pCi/g	
Q18-40	R	Radium-228	Q18-40C-986850	NONE	482850.57	1351986	11/13/96	1.39	0.59		pCi/g	1.39	0.59	-	pCi/g	
Q18-40	R	Radium-228	Q18-40C-987728	NONE	482728.82	1351987	11/13/96	2.10	0.58		pCi/g	2.10	0.58	-	pCi/g	
Q18-40	R	Thorium-228	Q18-40C-811654	NONE	482654.93	1351811	11/13/96	1.12	0.10		pCi/g	1.11	0.09	-	pCi/g	
Q18-40	R	Thorium-228	Q18-40C-870874	NONE	482874.8	1351870	11/13/96	1.15	0.11		pCi/g	1.14	0.10	-	pCi/g	
Q18-40	R	Thorium-228	Q18-40C-872764	NONE	482764.93	1351872	11/13/96	1.18	0.10		pCi/g	1.17	0.10	-	pCi/g	
Q18-40	R	Thorium-228	Q18-40C-891658	NONE	482658.95	1351892	11/13/96	1.13	0.12		pCi/g	1.12	0.11	-	pCi/g	
Q18-40	R	Thorium-228	Q18-40C-898975	NONE	482975.94	1351899	11/13/96	1.30	0.12		pCi/g	1.33	0.11	J	pCi/g	
Q18-40	R	Thorium-228	Q18-40C-914679	NONE	482679.36	1351915	11/13/96	1.22	0.11		pCi/g	1.21	0.10	-	pCi/g	
Q18-40	R	Thorium-228	Q18-40C-920785	NONE	482785.36	1351921	11/13/96	1.06	0.10		pCi/g	1.09	0.09	J	pCi/g	
Q18-40	R	Thorium-228	Q18-40C-926871	NONE	482871.7	1351926	11/13/96	1.12	0.11		pCi/g	1.11	0.10	-	pCi/g	
Q18-40	R	Thorium-228	Q18-40C-977977	NONE	482977.79	1351978	11/13/96	1.14	0.19		pCi/g	1.19	0.19	J	pCi/g	
Q18-40	R	Thorium-228	Q18-40C-977977-D	NONE	482977.79	1351978	11/13/96	1.36	0.20		pCi/g	1.41	0.20	J	pCi/g	Q18-40C-977977
Q18-40	R	Thorium-228	Q18-40C-981808	NONE	482808.19	1351981	11/13/96	1.08	0.10		pCi/g	1.07	0.09	-	pCi/g	
Q18-40	R	Thorium-228	Q18-40C-986850	NONE	482850.57	1351986	11/13/96	1.10	0.12		pCi/g	1.09	0.11	-	pCi/g	
Q18-40	R	Thorium-228	Q18-40C-987728	NONE	482728.82	1351987	11/13/96	1.26	0.11		pCi/g	1.31	0.11	J	pCi/g	
Q18-40	R	Thorium-232	Q18-40C-811654	NONE	482654.93	1351811	11/13/96	1.07	0.09		pCi/g	1.08	0.09	-	pCi/g	
Q18-40	R	Thorium-232	Q18-40C-870874	NONE	482874.8	1351870	11/13/96	1.24	0.10		pCi/g	1.25	0.10	-	pCi/g	
Q18-40	R	Thorium-232	Q18-40C-872764	NONE	482764.93	1351872	11/13/96	1.10	0.09		pCi/g	1.11	0.09	-	pCi/g	
Q18-40	R	Thorium-232	Q18-40C-891658	NONE	482658.95	1351892	11/13/96	1.10	0.10		pCi/g	1.11	0.10	-	pCi/g	
Q18-40	R	Thorium-232	Q18-40C-898975	NONE	482975.94	1351899	11/13/96	1.31	0.11		pCi/g	1.31	0.11	-	pCi/g	
Q18-40	R	Thorium-232	Q18-40C-914679	NONE	482679.36	1351915	11/13/96	1.20	0.10		pCi/g	1.21	0.10	-	pCi/g	
Q18-40	R	Thorium-232	Q18-40C-920785	NONE	482785.36	1351921	11/13/96	1.08	0.09		pCi/g	1.08	0.09	-	pCi/g	
Q18-40	R	Thorium-232	Q18-40C-926871	NONE	482871.7	1351926	11/13/96	1.15	0.10		pCi/g	1.16	0.10	-	pCi/g	
Q18-40	R	Thorium-232	Q18-40C-977977	NONE	482977.79	1351978	11/13/96	1.27	0.19		pCi/g	1.27	0.19	J	pCi/g	
Q18-40	R	Thorium-232	Q18-40C-977977-D	NONE	482977.79	1351978	11/13/96	1.36	0.18		pCi/g	1.36	0.18	J	pCi/g	Q18-40C-977977
Q18-40	R	Thorium-232	Q18-40C-981808	NONE	482808.19	1351981	11/13/96	1.11	0.09		pCi/g	1.12	0.09	-	pCi/g	
Q18-40	R	Thorium-232	Q18-40C-986850	NONE	482850.57	1351986	11/13/96	1.06	0.10		pCi/g	1.07	0.10	-	pCi/g	
Q18-40	R	Thorium-232	Q18-40C-987728	NONE	482728.82	1351987	11/13/96	1.16	0.10		pCi/g	1.16	0.10	J	pCi/g	
Q18-40	R	Uranium, Total	Q18-40C-811654	NONE	482654.93	1351811	11/13/96				ug/g	11.69		U	ug/g	
Q18-40	R	Uranium, Total	Q18-40C-870874	NONE	482874.8	1351870	11/13/96				ug/g	14.39		U	ug/g	
Q18-40	R	Uranium, Total	Q18-40C-872764	NONE	482764.93	1351872	11/13/96				ug/g	9.00		U	ug/g	
Q18-40	R	Uranium, Total	Q18-40C-891658	NONE	482658.95	1351892	11/13/96				ug/g	8.70		U	ug/g	
Q18-40	R	Uranium, Total	Q18-40C-898975	NONE	482975.94	1351899	11/13/96				ug/g	12.89		U	ug/g	

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								Laboratory Data				Validation Data				
CU Name	CU Type	Parameter	Sample ID	Suffix	Northing	Easting	Sample Date	Lab Result	TPU	Qualifier	Units	Val. Result	TPU	Qualifier	Units	Duplicate of
Q18-40	R	Uranium, Total	Q18-40C-914679	NONE	482679.36	1351915	11/13/96				ug/g	22.67		J	ug/g	
Q18-40	R	Uranium, Total	Q18-40C-920785	NONE	482785.36	1351921	11/13/96				ug/g	7.80		U	ug/g	
Q18-40	R	Uranium, Total	Q18-40C-926871	NONE	482871.7	1351926	11/13/96				ug/g	9.60		U	ug/g	
Q18-40	R	Uranium, Total	Q18-40C-977977	NONE	482977.79	1351978	11/13/96				ug/g	11.10		U	ug/g	
Q18-40	R	Uranium, Total	Q18-40C-977977-D	NONE	482977.79	1351978	11/13/96				ug/g	16.49		U	ug/g	Q18-40C-977977
Q18-40	R	Uranium, Total	Q18-40C-981808	NONE	482808.19	1351981	11/13/96				ug/g	7.80		U	ug/g	
Q18-40	R	Uranium, Total	Q18-40C-986850	NONE	482850.57	1351986	11/13/96				ug/g	9.60		U	ug/g	
Q18-40	R	Uranium, Total	Q18-40C-987728	NONE	482728.82	1351987	11/13/96				ug/g	13.19		U	ug/g	
Q18-40	R	Uranium-238	Q18-40C-811654	NONE	482654.93	1351811	11/13/96	2.57	2.50	U	pCi/g	3.90		U	pCi/g	
Q18-40	R	Uranium-238	Q18-40C-870874	NONE	482874.8	1351870	11/13/96	2.97	3.00	U	pCi/g	4.80		U	pCi/g	
Q18-40	R	Uranium-238	Q18-40C-872764	NONE	482764.93	1351872	11/13/96	0.53	1.80	U	pCi/g	3.00		U	pCi/g	
Q18-40	R	Uranium-238	Q18-40C-891658	NONE	482658.95	1351892	11/13/96	2.81	1.90	U	pCi/g	2.90		U	pCi/g	
Q18-40	R	Uranium-238	Q18-40C-898975	NONE	482975.94	1351899	11/13/96	3.25	2.70	U	pCi/g	4.30		U	pCi/g	
Q18-40	R	Uranium-238	Q18-40C-914679	NONE	482679.36	1351915	11/13/96	7.56	4.30		pCi/g	7.56	4.30	J	pCi/g	
Q18-40	R	Uranium-238	Q18-40C-920785	NONE	482785.36	1351921	11/13/96	-1.60	1.50	U	pCi/g	2.60		U	pCi/g	
Q18-40	R	Uranium-238	Q18-40C-926871	NONE	482871.7	1351926	11/13/96	0.58	2.00	U	pCi/g	3.20		U	pCi/g	
Q18-40	R	Uranium-238	Q18-40C-977977	NONE	482977.79	1351978	11/13/96	2.39	2.30	U	pCi/g	3.70		U	pCi/g	
Q18-40	R	Uranium-238	Q18-40C-977977-D	NONE	482977.79	1351978	11/13/96	2.33	3.40	U	pCi/g	5.50		U	pCi/g	Q18-40C-977977
Q18-40	R	Uranium-238	Q18-40C-981808	NONE	482808.19	1351981	11/13/96	-0.22	1.60	U	pCi/g	2.60		U	pCi/g	
Q18-40	R	Uranium-238	Q18-40C-986850	NONE	482850.57	1351986	11/13/96	0.41	1.90	U	pCi/g	3.20		U	pCi/g	
Q18-40	R	Uranium-238	Q18-40C-987728	NONE	482728.82	1351987	11/13/96	1.59	2.70	U	pCi/g	4.40		U	pCi/g	
Q19	M	Arsenic	Q19C-413672	NONE	483672	1351413	3/24/97	8.70		N	mg/kg	8.70		J	mg/kg	
Q19	M	Arsenic	Q19C-464417	NONE	483417.31	1351464	11/22/96	9.00			mg/kg	9.00		-	mg/kg	
Q19	M	Arsenic	Q19C-564505	NONE	483502.33	1351564	11/5/96	9.00			mg/kg	9.00		-	mg/kg	
Q19	M	Arsenic	Q19C-592626	NONE	483626	1351592	11/15/96	7.90			mg/kg	7.90		-	mg/kg	
Q19	M	Arsenic	Q19C-631785	NONE	483785.49	1351632	11/5/96	10.30			mg/kg	10.30		-	mg/kg	
Q19	M	Arsenic	Q19C-640364	NONE	483364.89	1351641	11/22/96	7.60			mg/kg	7.60		-	mg/kg	
Q19	M	Arsenic	Q19C-655190	NONE	483190.37	1351656	11/22/96	7.30			mg/kg	7.30		-	mg/kg	
Q19	M	Arsenic	Q19C-858287	NONE	483278.56	1351858	11/5/96	10.90			mg/kg	10.90		-	mg/kg	
Q19	M	Arsenic	Q19C-890780	NONE	483780.72	1351890	11/5/96	8.00			mg/kg	8.00		-	mg/kg	
Q19	M	Beryllium	Q19C-413672	NONE	483672	1351413	3/24/97	0.89			mg/kg	0.89		J	mg/kg	
Q19	M	Beryllium	Q19C-464417	NONE	483417.31	1351464	11/22/96	0.76			mg/kg	0.76		U	mg/kg	
Q19	M	Beryllium	Q19C-564505	NONE	483502.33	1351564	11/5/96	0.81			mg/kg	0.81		-	mg/kg	
Q19	M	Beryllium	Q19C-592626	NONE	483626	1351592	11/15/96	0.80			mg/kg	0.80		U	mg/kg	
Q19	M	Beryllium	Q19C-631785	NONE	483785.49	1351632	11/5/96	0.95			mg/kg	0.95		-	mg/kg	
Q19	M	Beryllium	Q19C-640364	NONE	483364.89	1351641	11/22/96	0.66			mg/kg	0.66		U	mg/kg	
Q19	M	Beryllium	Q19C-655190	NONE	483190.37	1351656	11/22/96	0.67			mg/kg	0.67		U	mg/kg	
Q19	M	Beryllium	Q19C-858287	NONE	483278.56	1351858	11/5/96	0.96			mg/kg	0.96		-	mg/kg	
Q19	M	Beryllium	Q19C-890780	NONE	483780.72	1351890	11/5/96	0.79			mg/kg	0.79		-	mg/kg	

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								Laboratory Data				Validation Data				
CU Name	CU Type	Parameter	Sample ID	Suffix	Northing	Easting	Sample Date	Lab Result	TPU	Qualifier	Units	Val. Result	TPU	Qualifier	Units	Duplicate of
Q19-10	R	Moisture Content	Q19-10C-403377	NONE	483377.36	1351404	11/22/96	19.40			Percent			NV	Percent	
Q19-10	R	Moisture Content	Q19-10C-407286	NONE	483286.59	1351407	11/22/96	18.80			Percent			NV	Percent	
Q19-10	R	Moisture Content	Q19-10C-424101	NONE	483101.78	1351425	11/22/96	20.20			Percent			NV	Percent	
Q19-10	R	Moisture Content	Q19-10C-466170	NONE	483170.75	1351466	11/22/96	21.40			Percent			NV	Percent	
Q19-10	R	Moisture Content	Q19-10C-640364	NONE	483136.22	1351598	11/13/96	18.30			Percent			NV	Percent	
Q19-10	R	Moisture Content	Q19-10C-644025	NONE	483025.16	1351645	11/13/96	22.10			Percent			NV	Percent	
Q19-10	R	Moisture Content	Q19-10C-655190	NONE	483053.25	1351511	11/13/96	20.10			Percent			NV	Percent	
Q19-10	R	Moisture Content	Q19-10C-673281	NONE	483281.47	1351673	11/13/96	25.80			Percent			NV	Percent	
Q19-10	R	Moisture Content	Q19-10C-683145	NONE	483145.55	1351684	11/13/96	22.40			Percent			NV	Percent	
Q19-10	R	Moisture Content	Q19-10C-707234	NONE	483234.8	1351708	11/13/96	19.30			Percent			NV	Percent	
Q19-10	R	Moisture Content	Q19-10C-755391	NONE	483391.51	1351756	11/13/96	20.40			Percent			NV	Percent	
Q19-10	R	Moisture Content	Q19-10C-765036	NONE	483036.34	1351766	11/13/96	19.50			Percent			NV	Percent	
Q19-10	R	Radium-226	Q19-10C-403377	NONE	483377.36	1351404	11/22/96	1.40	0.16		pCi/g	1.40	0.16	-	pCi/g	
Q19-10	R	Radium-226	Q19-10C-407286	NONE	483286.59	1351407	11/22/96	1.30	0.18		pCi/g	1.30	0.18	-	pCi/g	
Q19-10	R	Radium-226	Q19-10C-424101	NONE	483101.78	1351425	11/22/96	1.40	0.15		pCi/g	1.40	0.15	-	pCi/g	
Q19-10	R	Radium-226	Q19-10C-466170	NONE	483170.75	1351466	11/22/96	1.20	0.12		pCi/g	1.20	0.12	-	pCi/g	
Q19-10	R	Radium-226	Q19-10C-640364	NONE	483136.22	1351598	11/13/96	1.12	0.26		pCi/g	1.12	0.26	-	pCi/g	
Q19-10	R	Radium-226	Q19-10C-644025	NONE	483025.16	1351645	11/13/96	1.55	0.36		pCi/g	1.55	0.36	-	pCi/g	
Q19-10	R	Radium-226	Q19-10C-655190	NONE	483053.25	1351511	11/13/96	0.84	0.28		pCi/g	0.84	0.28	-	pCi/g	
Q19-10	R	Radium-226	Q19-10C-673281	NONE	483281.47	1351673	11/13/96	1.67	0.39		pCi/g	1.67	0.39	-	pCi/g	
Q19-10	R	Radium-226	Q19-10C-683145	NONE	483145.55	1351684	11/13/96	1.47	0.36		pCi/g	1.47	0.36	-	pCi/g	
Q19-10	R	Radium-226	Q19-10C-707234	NONE	483234.8	1351708	11/13/96	1.66	0.47		pCi/g	1.66	0.47	-	pCi/g	
Q19-10	R	Radium-226	Q19-10C-755391	NONE	483391.51	1351756	11/13/96	1.64	0.43		pCi/g	1.64	0.43	-	pCi/g	
Q19-10	R	Radium-226	Q19-10C-765036	NONE	483036.34	1351766	11/13/96	1.21	0.34		pCi/g	1.21	0.34	-	pCi/g	
Q19-10	R	Radium-228	Q19-10C-403377	NONE	483377.36	1351404	11/22/96	1.30	0.34		pCi/g	1.30	0.34	-	pCi/g	
Q19-10	R	Radium-228	Q19-10C-407286	NONE	483286.59	1351407	11/22/96	1.40	0.41		pCi/g	1.40	0.41	-	pCi/g	
Q19-10	R	Radium-228	Q19-10C-424101	NONE	483101.78	1351425	11/22/96	1.20	0.35		pCi/g	1.20	0.35	-	pCi/g	
Q19-10	R	Radium-228	Q19-10C-466170	NONE	483170.75	1351466	11/22/96	1.10	0.29		pCi/g	1.10	0.29	-	pCi/g	
Q19-10	R	Radium-228	Q19-10C-640364	NONE	483136.22	1351598	11/13/96	1.11	0.52		pCi/g	1.11	0.52	-	pCi/g	
Q19-10	R	Radium-228	Q19-10C-644025	NONE	483025.16	1351645	11/13/96	1.01	0.65		pCi/g	1.01	0.65	J	pCi/g	
Q19-10	R	Radium-228	Q19-10C-655190	NONE	483053.25	1351511	11/13/96	0.83	0.46		pCi/g	0.83	0.46	J	pCi/g	
Q19-10	R	Radium-228	Q19-10C-673281	NONE	483281.47	1351673	11/13/96	1.71	0.89		pCi/g	1.71	0.89	J	pCi/g	
Q19-10	R	Radium-228	Q19-10C-683145	NONE	483145.55	1351684	11/13/96	1.68	0.59		pCi/g	1.68	0.59	-	pCi/g	
Q19-10	R	Radium-228	Q19-10C-707234	NONE	483234.8	1351708	11/13/96	1.72	0.65		pCi/g	1.72	0.65	-	pCi/g	
Q19-10	R	Radium-228	Q19-10C-755391	NONE	483391.51	1351756	11/13/96	1.86	0.71		pCi/g	1.86	0.71	-	pCi/g	
Q19-10	R	Radium-228	Q19-10C-765036	NONE	483036.34	1351766	11/13/96	1.36	0.71		pCi/g	1.36	0.72	J	pCi/g	
Q19-10	R	Thorium-228	Q19-10C-403377	NONE	483377.36	1351404	11/22/96	1.10	0.49		pCi/g	1.10	0.49	J	pCi/g	
Q19-10	R	Thorium-228	Q19-10C-407286	NONE	483286.59	1351407	11/22/96	1.10	0.42		pCi/g	1.10	0.42	J	pCi/g	
Q19-10	R	Thorium-228	Q19-10C-424101	NONE	483101.78	1351425	11/22/96	1.10	0.41		pCi/g	1.10	0.41	-	pCi/g	
Q19-10	R	Thorium-228	Q19-10C-466170	NONE	483170.75	1351466	11/22/96	1.00	0.40		pCi/g	1.00	0.40	J	pCi/g	

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								Laboratory Data				Validation Data					
CU Name	CU Type	Parameter	Sample ID	Suffix	Northing	Easting	Sample Date	Lab Result	TPU	Qualifier	Units	Val. Result	TPU	Qualifier	Units	Duplicate of
Q19-10	R	Thorium-228	Q19-10C-640364	NONE	483136.22	1351598	11/13/96	1.11	0.10		pCi/g	1.13	0.10	-	pCi/g	
Q19-10	R	Thorium-228	Q19-10C-644025	NONE	483025.16	1351645	11/13/96	1.15	0.10		pCi/g	1.17	0.10	-	pCi/g	
Q19-10	R	Thorium-228	Q19-10C-655190	NONE	483053.25	1351511	11/13/96	1.13	0.14		pCi/g	1.15	0.14	J	pCi/g	
Q19-10	R	Thorium-228	Q19-10C-673281	NONE	483281.47	1351673	11/13/96	1.24	0.10		pCi/g	1.29	0.10	J	pCi/g	
Q19-10	R	Thorium-228	Q19-10C-683145	NONE	483145.55	1351684	11/13/96	1.15	0.22		pCi/g	1.20	0.22	J	pCi/g	
Q19-10	R	Thorium-228	Q19-10C-707234	NONE	483234.8	1351708	11/13/96	1.24	0.11		pCi/g	1.29	0.11	J	pCi/g	
Q19-10	R	Thorium-228	Q19-10C-755391	NONE	483391.51	1351756	11/13/96	1.28	0.20		pCi/g	1.33	0.20	J	pCi/g	
Q19-10	R	Thorium-228	Q19-10C-765036	NONE	483036.34	1351766	11/13/96	1.38	0.11		pCi/g	1.40	0.11	-	pCi/g	
Q19-10	R	Thorium-232	Q19-10C-403377	NONE	483377.36	1351404	11/22/96	0.98	0.42		pCi/g	0.98	0.42	J	pCi/g	
Q19-10	R	Thorium-232	Q19-10C-407286	NONE	483286.59	1351407	11/22/96	0.96	0.36		pCi/g	0.96	0.36	J	pCi/g	
Q19-10	R	Thorium-232	Q19-10C-424101	NONE	483101.78	1351425	11/22/96	1.10	0.38		pCi/g	1.10	0.38	-	pCi/g	
Q19-10	R	Thorium-232	Q19-10C-466170	NONE	483170.75	1351466	11/22/96	1.00	0.39		pCi/g	1.00	0.39	J	pCi/g	
Q19-10	R	Thorium-232	Q19-10C-640364	NONE	483136.22	1351598	11/13/96	1.13	0.09		pCi/g	1.13	0.09	-	pCi/g	
Q19-10	R	Thorium-232	Q19-10C-644025	NONE	483025.16	1351645	11/13/96	1.31	0.10		pCi/g	1.31	0.10	-	pCi/g	
Q19-10	R	Thorium-232	Q19-10C-655190	NONE	483053.25	1351511	11/13/96	1.16	0.14		pCi/g	1.16	0.14	J	pCi/g	
Q19-10	R	Thorium-232	Q19-10C-673281	NONE	483281.47	1351673	11/13/96	1.03	0.09		pCi/g	1.03	0.09	J	pCi/g	
Q19-10	R	Thorium-232	Q19-10C-683145	NONE	483145.55	1351684	11/13/96	1.14	0.19		pCi/g	1.14	0.19	J	pCi/g	
Q19-10	R	Thorium-232	Q19-10C-707234	NONE	483234.8	1351708	11/13/96	1.19	0.10		pCi/g	1.19	0.10	J	pCi/g	
Q19-10	R	Thorium-232	Q19-10C-755391	NONE	483391.51	1351756	11/13/96	1.12	0.17		pCi/g	1.12	0.17	J	pCi/g	
Q19-10	R	Thorium-232	Q19-10C-765036	NONE	483036.34	1351766	11/13/96	1.24	0.10		pCi/g	1.24	0.10	-	pCi/g	
Q19-10	R	Uranium, Total	Q19-10C-403377	NONE	483377.36	1351404	11/22/96				ug/g	2.55	1.59	J	ug/g	
Q19-10	R	Uranium, Total	Q19-10C-407286	NONE	483286.59	1351407	11/22/96				ug/g	4.11	2.21	J	ug/g	
Q19-10	R	Uranium, Total	Q19-10C-424101	NONE	483101.78	1351425	11/22/96				ug/g	3.30		U	ug/g	
Q19-10	R	Uranium, Total	Q19-10C-466170	NONE	483170.75	1351466	11/22/96				ug/g	3.18	0.87	-	ug/g	
Q19-10	R	Uranium, Total	Q19-10C-640364	NONE	483136.22	1351598	11/13/96				ug/g	11.96	7.20	J	ug/g	
Q19-10	R	Uranium, Total	Q19-10C-644025	NONE	483025.16	1351645	11/13/96				ug/g	8.70		U	ug/g	
Q19-10	R	Uranium, Total	Q19-10C-655190	NONE	483053.25	1351511	11/13/96				ug/g	10.77	6.00	J	ug/g	
Q19-10	R	Uranium, Total	Q19-10C-673281	NONE	483281.47	1351673	11/13/96				ug/g	16.79		-	ug/g	
Q19-10	R	Uranium, Total	Q19-10C-683145	NONE	483145.55	1351684	11/13/96				ug/g	7.50		U	ug/g	
Q19-10	R	Uranium, Total	Q19-10C-707234	NONE	483234.8	1351708	11/13/96				ug/g	11.09		U	ug/g	
Q19-10	R	Uranium, Total	Q19-10C-755391	NONE	483391.51	1351756	11/13/96				ug/g	15.80		J	ug/g	
Q19-10	R	Uranium, Total	Q19-10C-765036	NONE	483036.34	1351766	11/13/96				ug/g	9.90		U	ug/g	
Q19-10	R	Uranium-238	Q19-10C-403377	NONE	483377.36	1351404	11/22/96	0.85	0.53	U	pCi/g	0.85	0.53	J	pCi/g	
Q19-10	R	Uranium-238	Q19-10C-407286	NONE	483286.59	1351407	11/22/96	0.54	0.49		pCi/g	1.37	0.74	J	pCi/g	
Q19-10	R	Uranium-238	Q19-10C-424101	NONE	483101.78	1351425	11/22/96	0.92	0.67	U	pCi/g	1.10		U	pCi/g	
Q19-10	R	Uranium-238	Q19-10C-466170	NONE	483170.75	1351466	11/22/96	0.05	0.39	U	pCi/g	2.04	0.57	-	pCi/g	
Q19-10	R	Uranium-238	Q19-10C-640364	NONE	483136.22	1351598	11/13/96	3.99	2.40		pCi/g	3.99	2.40	J	pCi/g	
Q19-10	R	Uranium-238	Q19-10C-644025	NONE	483025.16	1351645	11/13/96	2.58	1.80	U	pCi/g	2.90		U	pCi/g	
Q19-10	R	Uranium-238	Q19-10C-655190	NONE	483053.25	1351511	11/13/96	3.59	2.00		pCi/g	3.59	2.00	J	pCi/g	
Q19-10	R	Uranium-238	Q19-10C-673281	NONE	483281.47	1351673	11/13/96	5.60	2.40		pCi/g	5.60	2.40	-	pCi/g	

								Laboratory Data				Validation Data				
CU Name	CU Type	Parameter	Sample ID	Suffix	Northing	Easting	Sample Date	Lab Result	TPU	Qualifier	Units	Val. Result	TPU	Qualifier	Units	Duplicate of
Q19-10	R	Uranium-238	Q19-10C-683145	NONE	483145.55	1351684	11/13/96	1.97	1.60	U	pCi/g	2.50		U	pCi/g	
Q19-10	R	Uranium-238	Q19-10C-707234	NONE	483234.8	1351708	11/13/96	2.87	2.40	U	pCi/g	3.70		U	pCi/g	
Q19-10	R	Uranium-238	Q19-10C-755391	NONE	483391.51	1351756	11/13/96	5.27	3.00		pCi/g	5.27	3.00	J	pCi/g	
Q19-10	R	Uranium-238	Q19-10C-765036	NONE	483036.34	1351766	11/13/96	0.42	2.00	U	pCi/g	3.30		U	pCi/g	
Q19-20	R	Moisture Content	Q19-20C-817138	NONE	483138.23	1351817	11/5/96	14.89			Percent				Percent	
Q19-20	R	Moisture Content	Q19-20C-832024	NONE	483024.49	1351832	11/5/96	14.53			Percent				Percent	
Q19-20	R	Moisture Content	Q19-20C-853266	NONE	483266.81	1351853	11/5/96	15.77			Percent				Percent	
Q19-20	R	Moisture Content	Q19-20C-863173	NONE	483173.48	1351863	11/5/96	13.43			Percent				Percent	
Q19-20	R	Moisture Content	Q19-20C-890340	NONE	483340.54	1351890	11/5/96	11.74			Percent				Percent	
Q19-20	R	Moisture Content	Q19-20C-897327	NONE	483327.9	1351897	11/5/96	15.73			Percent				Percent	
Q19-20	R	Moisture Content	Q19-20C-927271	NONE	483271.51	1351927	11/5/96	16.81			Percent				Percent	
Q19-20	R	Moisture Content	Q19-20C-961179	NONE	483179.49	1351961	11/5/96	14.42			Percent				Percent	
Q19-20	R	Moisture Content	Q19-20C-967389	NONE	483389.08	1351968	11/5/96	17.74			Percent				Percent	
Q19-20	R	Moisture Content	Q19-20C-969016	NONE	483016.4	1351969	11/5/96	18.05			Percent				Percent	
Q19-20	R	Moisture Content	Q19-20C-995288	NONE	483288.32	1351995	11/5/96	13.94			Percent				Percent	
Q19-20	R	Moisture Content	Q19-20C-998104	NONE	483104.72	1351998	11/5/96	13.72			Percent				Percent	
Q19-20	R	Moisture Content	Q19-20C2-R-24	NONE	483138.23	1351817	3/5/97	15.81			Percent			NV	Percent	
Q19-20	R	Moisture Content	Q19-20C2-R-25	NONE	483024.49	1351832	3/5/97	16.37			Percent			NV	Percent	
Q19-20	R	Moisture Content	Q19-20C2-R-26	NONE	483266.81	1351853	3/5/97	18.67			Percent			NV	Percent	
Q19-20	R	Moisture Content	Q19-20C2-R-27	NONE	483173.48	1351863	3/5/97	13.47			Percent			NV	Percent	
Q19-20	R	Moisture Content	Q19-20C2-R-28	NONE	483340.54	1351890	3/5/97	16.90			Percent			NV	Percent	
Q19-20	R	Moisture Content	Q19-20C2-R-29	NONE	483327.9	1351897	3/5/97	14.49			Percent			NV	Percent	
Q19-20	R	Moisture Content	Q19-20C2-R-30	NONE	483271.51	1351927	3/5/97	17.79			Percent			NV	Percent	
Q19-20	R	Moisture Content	Q19-20C2-R-31	NONE	483179.49	1351961	3/5/97	12.63			Percent			NV	Percent	
Q19-20	R	Moisture Content	Q19-20C2-R-32	NONE	483389.08	1351968	3/5/97	15.04			Percent			NV	Percent	
Q19-20	R	Moisture Content	Q19-20C2-R-33	NONE	483016.4	1351969	3/5/97	20.42			Percent			NV	Percent	
Q19-20	R	Moisture Content	Q19-20C2-R-34	NONE	483288.34	1351995	3/5/97	17.65			Percent			NV	Percent	
Q19-20	R	Moisture Content	Q19-20C2-R-34-D	NONE	483288.34	1351995	3/5/97	14.73			Percent			NV	Percent	Q19-20C2-R-34
Q19-20	R	Moisture Content	Q19-20C2-R-35	NONE	483104.72	1351998	3/5/97	20.33			Percent			NV	Percent	
Q19-20	R	Radium-226	Q19-20C-817138	NONE	483138.23	1351817	11/5/96	1.10	0.23		pCi/g	1.13		-	pCi/g	
Q19-20	R	Radium-226	Q19-20C-832024	NONE	483024.49	1351832	11/5/96	1.10	0.19		pCi/g	1.10	0.20	-	pCi/g	
Q19-20	R	Radium-226	Q19-20C-853266	NONE	483266.81	1351853	11/5/96	1.20	0.19		pCi/g	1.15		-	pCi/g	
Q19-20	R	Radium-226	Q19-20C-863173	NONE	483173.48	1351863	11/5/96	0.98	0.15		pCi/g	0.98		-	pCi/g	
Q19-20	R	Radium-226	Q19-20C-890340	NONE	483340.54	1351890	11/5/96	1.10	0.21		pCi/g	1.10		-	pCi/g	
Q19-20	R	Radium-226	Q19-20C-897327	NONE	483327.9	1351897	11/5/96	1.10	0.21		pCi/g	1.09		-	pCi/g	
Q19-20	R	Radium-226	Q19-20C-927271	NONE	483271.51	1351927	11/5/96	1.20	0.20		pCi/g	1.23		-	pCi/g	
Q19-20	R	Radium-226	Q19-20C-961179	NONE	483179.49	1351961	11/5/96	1.20	0.21		pCi/g	1.16		-	pCi/g	
Q19-20	R	Radium-226	Q19-20C-967389	NONE	483389.08	1351968	11/5/96	1.20	0.20		pCi/g	1.15		-	pCi/g	
Q19-20	R	Radium-226	Q19-20C-969016	NONE	483016.4	1351969	11/5/96	0.86	0.19		pCi/g	0.86		-	pCi/g	

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A1P1 CERTIFICATION REPORT - APPENDIX B

								Laboratory Data				Validation Data				
CU Name	CU Type	Parameter	Sample ID	Suffix	Northing	Easting	Sample Date	Lab Result	TPU	Qualifier	Units	Val. Result	TPU	Qualifier	Units	Duplicate of
Q19-20	R	Radium-226	Q19-20C-995288	NONE	483288.32	1351995	11/5/96	1.20	0.19		pCi/g	1.23		-	pCi/g	
Q19-20	R	Radium-226	Q19-20C-998104	NONE	483104.72	1351998	11/5/96	1.10	0.24		pCi/g	1.07		-	pCi/g	
Q19-20	R	Radium-228	Q19-20C-817138	NONE	483138.23	1351817	11/5/96	1.40	0.34		pCi/g	1.43		-	pCi/g	
Q19-20	R	Radium-228	Q19-20C-832024	NONE	483024.49	1351832	11/5/96	1.10	0.26		pCi/g	1.14	0.26	-	pCi/g	
Q19-20	R	Radium-228	Q19-20C-853266	NONE	483266.81	1351853	11/5/96	1.10	0.28		pCi/g	1.14		-	pCi/g	
Q19-20	R	Radium-228	Q19-20C-863173	NONE	483173.48	1351863	11/5/96	1.10	0.21		pCi/g	1.11		-	pCi/g	
Q19-20	R	Radium-228	Q19-20C-890340	NONE	483340.54	1351890	11/5/96	1.10	0.29		pCi/g	1.12		-	pCi/g	
Q19-20	R	Radium-228	Q19-20C-897327	NONE	483327.9	1351897	11/5/96	1.00	0.29		pCi/g	1.01		-	pCi/g	
Q19-20	R	Radium-228	Q19-20C-927271	NONE	483271.51	1351927	11/5/96	1.30	0.30		pCi/g	1.27		-	pCi/g	
Q19-20	R	Radium-228	Q19-20C-961179	NONE	483179.49	1351961	11/5/96	1.30	0.30		pCi/g	1.33		-	pCi/g	
Q19-20	R	Radium-228	Q19-20C-967389	NONE	483389.08	1351968	11/5/96	1.20	0.27		pCi/g	1.18		-	pCi/g	
Q19-20	R	Radium-228	Q19-20C-969016	NONE	483016.4	1351969	11/5/96	1.10	0.29		pCi/g	1.06		-	pCi/g	
Q19-20	R	Radium-228	Q19-20C-995288	NONE	483288.32	1351995	11/5/96	1.10	0.26		pCi/g	1.11		-	pCi/g	
Q19-20	R	Radium-228	Q19-20C-998104	NONE	483104.72	1351998	11/5/96	1.10	0.39		pCi/g	1.12		-	pCi/g	
Q19-20	R	Thorium-228	Q19-20C2-R-24	NONE	483138.23	1351817	3/5/97	1.00	0.27		pCi/g	1.04	0.25	-	pCi/g	
Q19-20	R	Thorium-228	Q19-20C2-R-25	NONE	483024.49	1351832	3/5/97	1.00	0.27		pCi/g	1.04	0.25	-	pCi/g	
Q19-20	R	Thorium-228	Q19-20C2-R-26	NONE	483266.81	1351853	3/5/97	1.40	0.35		pCi/g	1.42	0.34	-	pCi/g	
Q19-20	R	Thorium-228	Q19-20C2-R-27	NONE	483173.48	1351863	3/5/97	1.00	0.25		pCi/g	1.04	0.23	-	pCi/g	
Q19-20	R	Thorium-228	Q19-20C2-R-28	NONE	483340.54	1351890	3/5/97	1.30	0.29		pCi/g	1.27	0.28	-	pCi/g	
Q19-20	R	Thorium-228	Q19-20C2-R-29	NONE	483327.9	1351897	3/5/97	1.10	0.28		pCi/g	1.12	0.26	-	pCi/g	
Q19-20	R	Thorium-228	Q19-20C2-R-30	NONE	483271.51	1351927	3/5/97	1.20	0.25		pCi/g	1.22	0.24	-	pCi/g	
Q19-20	R	Thorium-228	Q19-20C2-R-31	NONE	483179.49	1351961	3/5/97	1.20	0.27		pCi/g	1.18	0.25	-	pCi/g	
Q19-20	R	Thorium-228	Q19-20C2-R-32	NONE	483389.08	1351968	3/5/97	0.95	0.25		pCi/g	0.95	0.23	-	pCi/g	
Q19-20	R	Thorium-228	Q19-20C2-R-33	NONE	483016.4	1351969	3/5/97	1.30	0.31		pCi/g	1.33	0.29	-	pCi/g	
Q19-20	R	Thorium-228	Q19-20C2-R-34	NONE	483288.34	1351995	3/5/97	1.20	0.24		pCi/g	1.24	0.23	-	pCi/g	
Q19-20	R	Thorium-228	Q19-20C2-R-34-D	NONE	483288.34	1351995	3/5/97	1.00	0.24		pCi/g	1.04	0.22	-	pCi/g	Q19-20C2-R-34
Q19-20	R	Thorium-228	Q19-20C2-R-35	NONE	483104.72	1351998	3/5/97	1.20	0.30		pCi/g	1.15	0.28	-	pCi/g	
Q19-20	R	Thorium-232	Q19-20C2-R-24	NONE	483138.23	1351817	3/5/97	1.20	0.26		pCi/g	1.20	0.25	-	pCi/g	
Q19-20	R	Thorium-232	Q19-20C2-R-25	NONE	483024.49	1351832	3/5/97	0.98	0.22		pCi/g	0.98	0.21	-	pCi/g	
Q19-20	R	Thorium-232	Q19-20C2-R-26	NONE	483266.81	1351853	3/5/97	1.30	0.29		pCi/g	1.28	0.28	-	pCi/g	
Q19-20	R	Thorium-232	Q19-20C2-R-27	NONE	483173.48	1351863	3/5/97	0.87	0.20		pCi/g	0.87	0.19	-	pCi/g	
Q19-20	R	Thorium-232	Q19-20C2-R-28	NONE	483340.54	1351890	3/5/97	0.83	0.20		pCi/g	0.83	0.20	-	pCi/g	
Q19-20	R	Thorium-232	Q19-20C2-R-29	NONE	483327.9	1351897	3/5/97	1.10	0.24		pCi/g	1.12	0.23	-	pCi/g	
Q19-20	R	Thorium-232	Q19-20C2-R-30	NONE	483271.51	1351927	3/5/97	1.30	0.24		pCi/g	1.27	0.23	-	pCi/g	
Q19-20	R	Thorium-232	Q19-20C2-R-31	NONE	483179.49	1351961	3/5/97	1.20	0.25		pCi/g	1.19	0.24	-	pCi/g	
Q19-20	R	Thorium-232	Q19-20C2-R-32	NONE	483389.08	1351968	3/5/97	1.10	0.24		pCi/g	1.05	0.23	-	pCi/g	
Q19-20	R	Thorium-232	Q19-20C2-R-33	NONE	483016.4	1351969	3/5/97	1.00	0.24		pCi/g	1.04	0.23	-	pCi/g	
Q19-20	R	Thorium-232	Q19-20C2-R-34	NONE	483288.34	1351995	3/5/97	1.00	0.20		pCi/g	1.01	0.19	-	pCi/g	
Q19-20	R	Thorium-232	Q19-20C2-R-34-D	NONE	483288.34	1351995	3/5/97	1.00	0.22		pCi/g	1.03	0.21	-	pCi/g	Q19-20C2-R-34
Q19-20	R	Thorium-232	Q19-20C2-R-35	NONE	483104.72	1351998	3/5/97	1.20	0.27		pCi/g	1.17	0.26	-	pCi/g	

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A1P1 CERTIFICATION REPORT - APPENDIX B

								Laboratory Data				Validation Data				
CU Name	CU Type	Parameter	Sample ID	Suffix	Northing	Easting	Sample Date	Lab Result	TPU	Qualifier	Units	Val. Result	TPU	Qualifier	Units	Duplicate of
Q19-20	R	Uranium, Total	Q19-20C-817138	NONE	483138.23	1351817	11/5/96				ug/g	4.75		J	ug/g	
Q19-20	R	Uranium, Total	Q19-20C-832024	NONE	483024.49	1351832	11/5/96				ug/g	12.39		-	ug/g	
Q19-20	R	Uranium, Total	Q19-20C-853266	NONE	483266.81	1351853	11/5/96				ug/g	6.26		J	ug/g	
Q19-20	R	Uranium, Total	Q19-20C-863173	NONE	483173.48	1351863	11/5/96				ug/g	4.56		J	ug/g	
Q19-20	R	Uranium, Total	Q19-20C-890340	NONE	483340.54	1351890	11/5/96				ug/g	3.41		U	ug/g	
Q19-20	R	Uranium, Total	Q19-20C-897327	NONE	483327.9	1351897	11/5/96				ug/g	10.74		J	ug/g	
Q19-20	R	Uranium, Total	Q19-20C-927271	NONE	483271.51	1351927	11/5/96				ug/g	7.15		J	ug/g	
Q19-20	R	Uranium, Total	Q19-20C-961179	NONE	483179.49	1351961	11/5/96				ug/g	3.30		J	ug/g	
Q19-20	R	Uranium, Total	Q19-20C-967389	NONE	483389.08	1351968	11/5/96				ug/g	4.80		J	ug/g	
Q19-20	R	Uranium, Total	Q19-20C-969016	NONE	483016.4	1351969	11/5/96				ug/g	6.85		J	ug/g	
Q19-20	R	Uranium, Total	Q19-20C-995288	NONE	483288.32	1351995	11/5/96				ug/g	4.21		U	ug/g	
Q19-20	R	Uranium, Total	Q19-20C-998104	NONE	483104.72	1351998	11/5/96				ug/g	14.05		-	ug/g	
Q19-20	R	Uranium-238	Q19-20C-817138	NONE	483138.23	1351817	11/5/96	1.60	1.80		pCi/g	1.58		J	pCi/g	
Q19-20	R	Uranium-238	Q19-20C-832024	NONE	483024.49	1351832	11/5/96	4.10	1.60		pCi/g	4.13		-	pCi/g	
Q19-20	R	Uranium-238	Q19-20C-853266	NONE	483266.81	1351853	11/5/96	2.10	1.60		pCi/g	2.09		J	pCi/g	
Q19-20	R	Uranium-238	Q19-20C-863173	NONE	483173.48	1351863	11/5/96	1.50	0.85		pCi/g	1.52		J	pCi/g	
Q19-20	R	Uranium-238	Q19-20C-890340	NONE	483340.54	1351890	11/5/96	0.93	1.70	U	pCi/g	1.14		U	pCi/g	
Q19-20	R	Uranium-238	Q19-20C-897327	NONE	483327.9	1351897	11/5/96	3.60	2.30		pCi/g	3.58		J	pCi/g	
Q19-20	R	Uranium-238	Q19-20C-927271	NONE	483271.51	1351927	11/5/96	2.40	1.60		pCi/g	2.38		J	pCi/g	
Q19-20	R	Uranium-238	Q19-20C-961179	NONE	483179.49	1351961	11/5/96	1.10	1.30		pCi/g	1.10		J	pCi/g	
Q19-20	R	Uranium-238	Q19-20C-967389	NONE	483389.08	1351968	11/5/96	1.60	1.40		pCi/g	1.60		J	pCi/g	
Q19-20	R	Uranium-238	Q19-20C-969016	NONE	483016.4	1351969	11/5/96	2.30	1.90		pCi/g	2.28		J	pCi/g	
Q19-20	R	Uranium-238	Q19-20C-995288	NONE	483288.32	1351995	11/5/96	0.77	1.80	U	pCi/g	1.40		U	pCi/g	
Q19-20	R	Uranium-238	Q19-20C-998104	NONE	483104.72	1351998	11/5/96	4.70	2.30		pCi/g	4.69		-	pCi/g	
Q19-30	R	Moisture Content	Q19-30C-434472	NONE	483472.43	1351435	11/4/96	13.75			Percent				Percent	
Q19-30	R	Moisture Content	Q19-30C-487610	NONE	483610.63	1351487	11/4/96	15.79			Percent				Percent	
Q19-30	R	Moisture Content	Q19-30C-552565	NONE	483565.18	1351552	11/4/96	20.15			Percent				Percent	
Q19-30	R	Moisture Content	Q19-30C-562718	NONE	483718	1351562	11/4/96	14.55			Percent				Percent	
Q19-30	R	Moisture Content	Q19-30C-570659	NONE	483659.25	1351570	11/4/96	10.69			Percent				Percent	
Q19-30	R	Moisture Content	Q19-30C-573492	NONE	483492.13	1351573	11/4/96	14.78			Percent				Percent	
Q19-30	R	Moisture Content	Q19-30C-602626	NONE	483626.44	1351602	11/4/96	13.17			Percent				Percent	
Q19-30	R	Moisture Content	Q19-30C-657409	NONE	483409.85	1351657	11/4/96	20.70			Percent				Percent	
Q19-30	R	Moisture Content	Q19-30C-695738	NONE	483738.78	1351696	11/4/96	12.23			Percent				Percent	
Q19-30	R	Moisture Content	Q19-30C-718516	NONE	483516	1351718	11/4/96	11.66			Percent				Percent	
Q19-30	R	Moisture Content	Q19-30C-777429	NONE	483429.24	1351778	11/4/96	13.41			Percent				Percent	
Q19-30	R	Moisture Content	Q19-30C2-R-1	NONE	483647.15	1351704	3/13/97	15.86			Percent			NV	Percent	
Q19-30	R	Moisture Content	Q19-30C2-R-2	NONE	483420.45	1351515	3/14/97	19.38			Percent			NV	Percent	
Q19-30	R	Moisture Content	Q19-30C2-R-36	NONE	483472.43	1351435	3/6/97	14.96			Percent			NV	Percent	
Q19-30	R	Moisture Content	Q19-30C2-R-37	NONE	483610.63	1351487	3/6/97	17.95			Percent			NV	Percent	

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								Laboratory Data				Validation Data				
CU Name	CU Type	Parameter	Sample ID	Suffix	Northing	Easting	Sample Date	Lab Result	TPU	Qualifier	Units	Val. Result	TPU	Qualifier	Units	Duplicate of
Q19-30	R	Moisture Content	Q19-30C2-R-38	NONE	483565.18	1351552	3/6/97	15.11			Percent			NV	Percent	
Q19-30	R	Moisture Content	Q19-30C2-R-39	NONE	483718	1351562	3/6/97	11.88			Percent			NV	Percent	
Q19-30	R	Moisture Content	Q19-30C2-R-40	NONE	483718	1351562	3/6/97	18.67			Percent			NV	Percent	
Q19-30	R	Moisture Content	Q19-30C2-R-41	NONE	483659.25	1351571	3/6/97	11.99			Percent			NV	Percent	
Q19-30	R	Moisture Content	Q19-30C2-R-42	NONE	483492.13	1351573	3/6/97	13.52			Percent			NV	Percent	
Q19-30	R	Moisture Content	Q19-30C2-R-43	NONE	483626.44	1351602	3/6/97	18.64			Percent			NV	Percent	
Q19-30	R	Moisture Content	Q19-30C2-R-44	NONE	483409.85	1351657	3/6/97	13.90			Percent			NV	Percent	
Q19-30	R	Moisture Content	Q19-30C2-R-45	NONE	483738.78	1351696	3/6/97	20.21			Percent			NV	Percent	
Q19-30	R	Moisture Content	Q19-30C2-R-46	NONE	483516	1351718	3/6/97	16.40			Percent			NV	Percent	
Q19-30	R	Moisture Content	Q19-30C2-R-47	NONE	483429.24	1351778	3/6/97	15.67			Percent			NV	Percent	
Q19-30	R	Radium-226	Q19-30C-434472	NONE	483472.43	1351435	11/4/96	1.20	0.14		pCi/g	1.20		-	pCi/g	
Q19-30	R	Radium-226	Q19-30C-487610	NONE	483610.63	1351487	11/4/96	1.20	0.21		pCi/g	1.17	0.22	-	pCi/g	
Q19-30	R	Radium-226	Q19-30C-552565	NONE	483565.18	1351552	11/4/96	1.20	0.21		pCi/g	1.22	0.21	-	pCi/g	
Q19-30	R	Radium-226	Q19-30C-562718	NONE	483718	1351562	11/4/96	1.10	0.23		pCi/g	1.11	0.23	-	pCi/g	
Q19-30	R	Radium-226	Q19-30C-570659	NONE	483659.25	1351570	11/4/96	1.10	0.20		pCi/g	1.09	0.20	-	pCi/g	
Q19-30	R	Radium-226	Q19-30C-573492	NONE	483492.13	1351573	11/4/96	1.10	0.20		pCi/g	1.12	0.20	-	pCi/g	
Q19-30	R	Radium-226	Q19-30C-602626	NONE	483626.44	1351602	11/4/96	1.30	0.15		pCi/g	1.26	0.15	-	pCi/g	
Q19-30	R	Radium-226	Q19-30C-657409	NONE	483409.85	1351657	11/4/96	0.90	0.17		pCi/g	0.90	0.17	-	pCi/g	
Q19-30	R	Radium-226	Q19-30C-695738	NONE	483738.78	1351696	11/4/96	1.20	0.19		pCi/g	1.17	0.19	-	pCi/g	
Q19-30	R	Radium-226	Q19-30C-718516	NONE	483516	1351718	11/4/96	1.30	0.22		pCi/g	1.26	0.23	-	pCi/g	
Q19-30	R	Radium-226	Q19-30C-777429	NONE	483429.24	1351778	11/4/96	1.00	0.20		pCi/g	1.01	0.20	-	pCi/g	
Q19-30	R	Radium-226	Q19-30C2-R-1	NONE	483647.15	1351704	3/13/97	1.10	0.16		pCi/g	1.06	0.16	-	pCi/g	
Q19-30	R	Radium-226	Q19-30C2-R-2	NONE	483420.45	1351515	3/14/97	1.20	0.18		pCi/g	1.23	0.18	-	pCi/g	
Q19-30	R	Radium-228	Q19-30C-434472	NONE	483472.43	1351435	11/4/96	1.10	0.23		pCi/g	1.10		-	pCi/g	
Q19-30	R	Radium-228	Q19-30C-487610	NONE	483610.63	1351487	11/4/96	1.10	0.31		pCi/g	1.13	0.31	-	pCi/g	
Q19-30	R	Radium-228	Q19-30C-552565	NONE	483565.18	1351552	11/4/96	1.30	0.28		pCi/g	1.26	0.28	-	pCi/g	
Q19-30	R	Radium-228	Q19-30C-562718	NONE	483718	1351562	11/4/96	1.20	0.31		pCi/g	1.24	0.31	-	pCi/g	
Q19-30	R	Radium-228	Q19-30C-570659	NONE	483659.25	1351570	11/4/96	1.30	0.30		pCi/g	1.29	0.30	-	pCi/g	
Q19-30	R	Radium-228	Q19-30C-573492	NONE	483492.13	1351573	11/4/96	1.20	0.30		pCi/g	1.21	0.31	-	pCi/g	
Q19-30	R	Radium-228	Q19-30C-602626	NONE	483626.44	1351602	11/4/96	1.20	0.23		pCi/g	1.20	0.23	-	pCi/g	
Q19-30	R	Radium-228	Q19-30C-657409	NONE	483409.85	1351657	11/4/96	1.10	0.28		pCi/g	1.07	0.28	-	pCi/g	
Q19-30	R	Radium-228	Q19-30C-695738	NONE	483738.78	1351696	11/4/96	1.30	0.29		pCi/g	1.29	0.29	-	pCi/g	
Q19-30	R	Radium-228	Q19-30C-718516	NONE	483516	1351718	11/4/96	1.30	0.29		pCi/g	1.26	0.29	-	pCi/g	
Q19-30	R	Radium-228	Q19-30C-777429	NONE	483429.24	1351778	11/4/96	1.10	0.29		pCi/g	1.06	0.29	-	pCi/g	
Q19-30	R	Radium-228	Q19-30C2-R-1	NONE	483647.15	1351704	3/13/97	0.92	0.23		pCi/g	0.92	0.23	-	pCi/g	
Q19-30	R	Radium-228	Q19-30C2-R-2	NONE	483420.45	1351515	3/14/97	1.30	0.26		pCi/g	1.31	0.26	-	pCi/g	
Q19-30	R	Thorium-228	Q19-30C2-R-1	NONE	483647.15	1351704	3/13/97	1.00	0.24		pCi/g	1.05	0.23	-	pCi/g	
Q19-30	R	Thorium-228	Q19-30C2-R-2	NONE	483420.45	1351515	3/14/97	1.40	0.30		pCi/g	1.43	0.29	-	pCi/g	
Q19-30	R	Thorium-228	Q19-30C2-R-36	NONE	483472.43	1351435	3/6/97	1.00	0.26		pCi/g	1.11	0.24	-	pCi/g	
Q19-30	R	Thorium-228	Q19-30C2-R-37	NONE	483610.63	1351487	3/6/97	1.30	0.32		pCi/g	1.40	0.31	-	pCi/g	

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CU Name	CU Type	Parameter	Sample ID	Suffix	Northing	Easting	Laboratory Data				Validation Data				Duplicate of
							Sample Date	Lab Result	TPU	Qualifier	Units	Val. Result	TPU	Qualifier	Units	
Q19-30	R	Thorium-228	Q19-30C2-R-38	NONE	483565.18	1351552	3/6/97	1.20	0.27		pCi/g	1.23	0.26	J	pCi/g	
Q19-30	R	Thorium-228	Q19-30C2-R-39	NONE	483718	1351562	3/6/97	1.10	0.24		pCi/g	1.13	0.23	-	pCi/g	
Q19-30	R	Thorium-228	Q19-30C2-R-40	NONE	483718	1351562	3/6/97	1.20	0.30		pCi/g	1.27	0.28	-	pCi/g	
Q19-30	R	Thorium-228	Q19-30C2-R-41	NONE	483659.25	1351571	3/6/97	1.20	0.30		pCi/g	1.30	0.28	-	pCi/g	
Q19-30	R	Thorium-228	Q19-30C2-R-42	NONE	483492.13	1351573	3/6/97	1.10	0.23		pCi/g	1.14	0.22	-	pCi/g	
Q19-30	R	Thorium-228	Q19-30C2-R-43	NONE	483626.44	1351602	3/6/97	1.40	0.35		pCi/g	1.46	0.34	-	pCi/g	
Q19-30	R	Thorium-228	Q19-30C2-R-44	NONE	483409.85	1351657	3/6/97	1.10	0.29		pCi/g	1.20	0.28	-	pCi/g	
Q19-30	R	Thorium-228	Q19-30C2-R-45	NONE	483738.78	1351696	3/6/97	1.10	0.29		pCi/g	1.20	0.28	-	pCi/g	
Q19-30	R	Thorium-228	Q19-30C2-R-46	NONE	483516	1351718	3/6/97	0.94	0.25		pCi/g	1.01	0.23	-	pCi/g	
Q19-30	R	Thorium-228	Q19-30C2-R-47	NONE	483429.24	1351778	3/6/97	0.80	0.23		pCi/g	0.87	0.22	-	pCi/g	
Q19-30	R	Thorium-232	Q19-30C2-R-1	NONE	483647.15	1351704	3/13/97	0.94	0.20		pCi/g	0.95	0.20	-	pCi/g	
Q19-30	R	Thorium-232	Q19-30C2-R-2	NONE	483420.45	1351515	3/14/97	1.20	0.24		pCi/g	1.20	0.24	-	pCi/g	
Q19-30	R	Thorium-232	Q19-30C2-R-36	NONE	483472.43	1351435	3/6/97	1.20	0.24		pCi/g	1.24	0.24	-	pCi/g	
Q19-30	R	Thorium-232	Q19-30C2-R-37	NONE	483610.63	1351487	3/6/97	1.10	0.23		pCi/g	1.08	0.23	-	pCi/g	
Q19-30	R	Thorium-232	Q19-30C2-R-38	NONE	483565.18	1351552	3/6/97	0.99	0.20		pCi/g	1.00	0.20	J	pCi/g	
Q19-30	R	Thorium-232	Q19-30C2-R-39	NONE	483718	1351562	3/6/97	1.00	0.21		pCi/g	1.05	0.21	-	pCi/g	
Q19-30	R	Thorium-232	Q19-30C2-R-40	NONE	483718	1351562	3/6/97	1.00	0.22		pCi/g	1.04	0.22	-	pCi/g	
Q19-30	R	Thorium-232	Q19-30C2-R-41	NONE	483659.25	1351571	3/6/97	0.94	0.21		pCi/g	0.96	0.21	-	pCi/g	
Q19-30	R	Thorium-232	Q19-30C2-R-42	NONE	483492.13	1351573	3/6/97	1.10	0.20		pCi/g	1.09	0.20	-	pCi/g	
Q19-30	R	Thorium-232	Q19-30C2-R-43	NONE	483626.44	1351602	3/6/97	1.30	0.28		pCi/g	1.27	0.28	-	pCi/g	
Q19-30	R	Thorium-232	Q19-30C2-R-44	NONE	483409.85	1351657	3/6/97	1.10	0.23		pCi/g	1.08	0.23	-	pCi/g	
Q19-30	R	Thorium-232	Q19-30C2-R-45	NONE	483738.78	1351696	3/6/97	1.10	0.24		pCi/g	1.11	0.24	-	pCi/g	
Q19-30	R	Thorium-232	Q19-30C2-R-46	NONE	483516	1351718	3/6/97	0.99	0.21		pCi/g	1.01	0.21	-	pCi/g	
Q19-30	R	Thorium-232	Q19-30C2-R-47	NONE	483429.24	1351778	3/6/97	0.79	0.19		pCi/g	0.81	0.18	-	pCi/g	
Q19-30	R	Uranium, Total	Q19-30C-434472	NONE	483472.43	1351435	11/4/96				ug/g	6.50		J	ug/g	
Q19-30	R	Uranium, Total	Q19-30C-487610	NONE	483610.63	1351487	11/4/96				ug/g	6.10		J	ug/g	
Q19-30	R	Uranium, Total	Q19-30C-552565	NONE	483565.18	1351552	11/4/96				ug/g	18.77		-	ug/g	
Q19-30	R	Uranium, Total	Q19-30C-562718	NONE	483718	1351562	11/4/96				ug/g	6.27		J	ug/g	
Q19-30	R	Uranium, Total	Q19-30C-570659	NONE	483659.25	1351570	11/4/96				ug/g	4.42		J	ug/g	
Q19-30	R	Uranium, Total	Q19-30C-573492	NONE	483492.13	1351573	11/4/96				ug/g	9.54		J	ug/g	
Q19-30	R	Uranium, Total	Q19-30C-602626	NONE	483626.44	1351602	11/4/96				ug/g	9.05		J	ug/g	
Q19-30	R	Uranium, Total	Q19-30C-657409	NONE	483409.85	1351657	11/4/96				ug/g	19.47		-	ug/g	
Q19-30	R	Uranium, Total	Q19-30C-695738	NONE	483738.78	1351696	11/4/96				ug/g	8.02		J	ug/g	
Q19-30	R	Uranium, Total	Q19-30C-718516	NONE	483516	1351718	11/4/96				ug/g	9.60		J	ug/g	
Q19-30	R	Uranium, Total	Q19-30C-777429	NONE	483429.24	1351778	11/4/96				ug/g	4.21		J	ug/g	
Q19-30	R	Uranium, Total	Q19-30C2-R-1	NONE	483647.15	1351704	3/13/97				ug/g	2.61		U	ug/g	
Q19-30	R	Uranium, Total	Q19-30C2-R-2	NONE	483420.45	1351515	3/14/97				ug/g	5.39	4.17	J	ug/g	
Q19-30	R	Uranium-238	Q19-30C-434472	NONE	483472.43	1351435	11/4/96	2.20	2.00		pCi/g	2.17		J	pCi/g	
Q19-30	R	Uranium-238	Q19-30C-487610	NONE	483610.63	1351487	11/4/96	2.00	2.00		pCi/g	2.03		J	pCi/g	
Q19-30	R	Uranium-238	Q19-30C-552565	NONE	483565.18	1351552	11/4/96	6.30	2.00		pCi/g	6.26		-	pCi/g	

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							Laboratory Data				Validation Data				
CU Name	CU Type	Parameter	Sample ID	Suffix	Northing	Easting	Sample Date	Lab Result	TPU	Qualifier	Units	Val. Result	TPU	Qualifier	Units	Duplicate of
Q19-30	R	Uranium-238	Q19-30C-562718	NONE	483718	1351562	11/4/96	2.10	1.80		pCi/g	2.09		J	pCi/g	
Q19-30	R	Uranium-238	Q19-30C-570659	NONE	483659.25	1351570	11/4/96	1.50	2.00		pCi/g	1.47		J	pCi/g	
Q19-30	R	Uranium-238	Q19-30C-573492	NONE	483492.13	1351573	11/4/96	3.20	1.80		pCi/g	3.18		J	pCi/g	
Q19-30	R	Uranium-238	Q19-30C-602626	NONE	483626.44	1351602	11/4/96	3.00	1.90		pCi/g	3.02		J	pCi/g	
Q19-30	R	Uranium-238	Q19-30C-657409	NONE	483409.85	1351657	11/4/96	6.50	2.70		pCi/g	6.49		-	pCi/g	
Q19-30	R	Uranium-238	Q19-30C-695738	NONE	483738.78	1351696	11/4/96	2.70	1.80		pCi/g	2.67		J	pCi/g	
Q19-30	R	Uranium-238	Q19-30C-718516	NONE	483516	1351718	11/4/96	3.20	2.40		pCi/g	3.20		J	pCi/g	
Q19-30	R	Uranium-238	Q19-30C-777429	NONE	483429.24	1351778	11/4/96	1.40	1.80		pCi/g	1.40		J	pCi/g	
Q19-30	R	Uranium-238	Q19-30C2-R-1	NONE	483647.15	1351704	3/13/97	0.81	1.10	U	pCi/g	0.87		U	pCi/g	
Q19-30	R	Uranium-238	Q19-30C2-R-2	NONE	483420.45	1351515	3/14/97	1.80	1.40		pCi/g	1.80	1.39	J	pCi/g	
Q19-40	R	Moisture Content	Q19-40C-041550	NONE	483550.49	1352041	11/5/96	18.18			Percent				Percent	
Q19-40	R	Moisture Content	Q19-40C-079740	NONE	483740.76	1352079	11/5/96	17.29			Percent				Percent	
Q19-40	R	Moisture Content	Q19-40C-835755	NONE	483755.28	1351835	11/5/96	17.52			Percent				Percent	
Q19-40	R	Moisture Content	Q19-40C-849480	NONE	483480.62	1351850	11/4/96	16.31			Percent				Percent	
Q19-40	R	Moisture Content	Q19-40C-882465	NONE	483465.75	1351883	11/5/96	16.46			Percent				Percent	
Q19-40	R	Moisture Content	Q19-40C-882465-D	NONE	483465.75	1351883	11/5/96	17.68			Percent				Percent	Q19-40C-882465
Q19-40	R	Moisture Content	Q19-40C-904775	NONE	483775.23	1351904	11/5/96	16.89			Percent				Percent	
Q19-40	R	Moisture Content	Q19-40C-927651	NONE	483651.14	1351927	11/5/96	16.42			Percent				Percent	
Q19-40	R	Moisture Content	Q19-40C-999438	NONE	483438.51	1351999	11/5/96	17.02			Percent				Percent	
Q19-40	R	Moisture Content	Q19-40C2-R-1	NONE	483519.3	1351829	3/13/97	17.49			Percent			NV	Percent	
Q19-40	R	Moisture Content	Q19-40C2-R-2	NONE	483787.05	1351820	3/13/97	22.25			Percent			NV	Percent	
Q19-40	R	Moisture Content	Q19-40C2-R-3	NONE	483736.63	1351882	3/13/97	22.40			Percent			NV	Percent	
Q19-40	R	Moisture Content	Q19-40C2-R-4	NONE	483667.96	1351827	3/13/97	14.79			Percent			NV	Percent	
Q19-40	R	Moisture Content	Q19-40C2-R-48	NONE	483550.49	1352041	3/5/97	16.99			Percent			NV	Percent	
Q19-40	R	Moisture Content	Q19-40C2-R-49	NONE	483740.76	1352079	3/6/97	18.05			Percent			NV	Percent	
Q19-40	R	Moisture Content	Q19-40C2-R-5	NONE	483492.36	1352037	3/13/97	15.05			Percent			NV	Percent	
Q19-40	R	Moisture Content	Q19-40C2-R-50	NONE	483755.28	1351835	3/6/97	20.01			Percent			NV	Percent	
Q19-40	R	Moisture Content	Q19-40C2-R-50-D	NONE	483755.28	1351835	3/6/97	20.13			Percent			NV	Percent	Q19-40C2-R-50
Q19-40	R	Moisture Content	Q19-40C2-R-51	NONE	483480.62	1351850	3/5/97	18.34			Percent			NV	Percent	
Q19-40	R	Moisture Content	Q19-40C2-R-52	NONE	483465.75	1351883	3/5/97	17.34			Percent			NV	Percent	
Q19-40	R	Moisture Content	Q19-40C2-R-53	NONE	483775.23	1351904	3/6/97	18.80			Percent			NV	Percent	
Q19-40	R	Moisture Content	Q19-40C2-R-54	NONE	483438.51	1351999	3/5/97	14.18			Percent			NV	Percent	
Q19-40	R	Moisture Content	Q19-40C2-R-6	NONE	483601.89	1351869	3/13/97	17.83			Percent			NV	Percent	
Q19-40	R	Radium-226	Q19-40C-041550	NONE	483550.49	1352041	11/5/96	1.20	0.23		pCi/g	1.20		-	pCi/g	
Q19-40	R	Radium-226	Q19-40C-079740	NONE	483740.76	1352079	11/5/96	1.30	0.23		pCi/g	1.34		-	pCi/g	
Q19-40	R	Radium-226	Q19-40C-835755	NONE	483755.28	1351835	11/5/96	1.20	0.19		pCi/g	1.16		-	pCi/g	
Q19-40	R	Radium-226	Q19-40C-849480	NONE	483480.62	1351850	11/4/96	1.20	0.25		pCi/g	1.16		-	pCi/g	
Q19-40	R	Radium-226	Q19-40C-882465	NONE	483465.75	1351883	11/5/96	1.20	0.21		pCi/g	1.20		-	pCi/g	
Q19-40	R	Radium-226	Q19-40C-882465-D	NONE	483465.75	1351883	11/5/96	1.10	0.23		pCi/g	1.07		-	pCi/g	Q19-40C-882465

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								Laboratory Data				Validation Data				
CU Name	CU Type	Parameter	Sample ID	Suffix	Northing	Easting	Sample Date	Lab Result	TPU	Qualifier	Units	Val. Result	TPU	Qualifier	Units	Duplicate of
Q19-40	R	Radium-226	Q19-40C-904775	NONE	483775.23	1351904	11/5/96	1.30	0.24		pCi/g	1.32		-	pCi/g	
Q19-40	R	Radium-226	Q19-40C-927651	NONE	483651.14	1351927	11/5/96	1.40	0.23		pCi/g	1.39		-	pCi/g	
Q19-40	R	Radium-226	Q19-40C-999438	NONE	483438.51	1351999	11/5/96	1.20	0.20		pCi/g	1.23		-	pCi/g	
Q19-40	R	Radium-226	Q19-40C2-R-1	NONE	483519.3	1351829	3/13/97	1.10	0.16		pCi/g	1.08	0.16	-	pCi/g	
Q19-40	R	Radium-226	Q19-40C2-R-2	NONE	483787.05	1351820	3/13/97	1.30	0.21		pCi/g	1.31	0.21	-	pCi/g	
Q19-40	R	Radium-226	Q19-40C2-R-3	NONE	483736.63	1351882	3/13/97	1.50	0.24		pCi/g	1.45	0.24	-	pCi/g	
Q19-40	R	Radium-226	Q19-40C2-R-4	NONE	483667.96	1351827	3/13/97	1.20	0.23		pCi/g	1.20	0.23	-	pCi/g	
Q19-40	R	Radium-226	Q19-40C2-R-5	NONE	483492.36	1352037	3/13/97	1.20	0.19		pCi/g	1.22	0.19	-	pCi/g	
Q19-40	R	Radium-226	Q19-40C2-R-6	NONE	483601.89	1351869	3/13/97	1.30	0.19		pCi/g	1.32	0.19	-	pCi/g	
Q19-40	R	Radium-228	Q19-40C-041550	NONE	483550.49	1352041	11/5/96	1.50	0.38		pCi/g	1.54		-	pCi/g	
Q19-40	R	Radium-228	Q19-40C-079740	NONE	483740.76	1352079	11/5/96	1.10	0.31		pCi/g	1.14		-	pCi/g	
Q19-40	R	Radium-228	Q19-40C-835755	NONE	483755.28	1351835	11/5/96	1.30	0.26		pCi/g	1.25		-	pCi/g	
Q19-40	R	Radium-228	Q19-40C-849480	NONE	483480.62	1351850	11/4/96	1.30	0.35		pCi/g	1.33		-	pCi/g	
Q19-40	R	Radium-228	Q19-40C-882465	NONE	483465.75	1351883	11/5/96	1.20	0.33		pCi/g	1.23		-	pCi/g	
Q19-40	R	Radium-228	Q19-40C-882465-D	NONE	483465.75	1351883	11/5/96	1.10	0.34		pCi/g	1.06		-	pCi/g	Q19-40C-882465
Q19-40	R	Radium-228	Q19-40C-904775	NONE	483775.23	1351904	11/5/96	1.30	0.38		pCi/g	1.26		-	pCi/g	
Q19-40	R	Radium-228	Q19-40C-927651	NONE	483651.14	1351927	11/5/96	1.30	0.33		pCi/g	1.34		-	pCi/g	
Q19-40	R	Radium-228	Q19-40C-999438	NONE	483438.51	1351999	11/5/96	0.89	0.31		pCi/g	0.89		-	pCi/g	
Q19-40	R	Radium-228	Q19-40C2-R-1	NONE	483519.3	1351829	3/13/97	1.10	0.21		pCi/g	1.06	0.21	-	pCi/g	
Q19-40	R	Radium-228	Q19-40C2-R-2	NONE	483787.05	1351820	3/13/97	1.40	0.28		pCi/g	1.43	0.28	-	pCi/g	
Q19-40	R	Radium-228	Q19-40C2-R-3	NONE	483736.63	1351882	3/13/97	1.20	0.29		pCi/g	1.19	0.29	-	pCi/g	
Q19-40	R	Radium-228	Q19-40C2-R-4	NONE	483667.96	1351827	3/13/97	1.30	0.24		pCi/g	1.27	0.23	-	pCi/g	
Q19-40	R	Radium-228	Q19-40C2-R-5	NONE	483492.36	1352037	3/13/97	1.10	0.23		pCi/g	1.07	0.23	-	pCi/g	
Q19-40	R	Radium-228	Q19-40C2-R-6	NONE	483601.89	1351869	3/13/97	1.20	0.28		pCi/g	1.23	0.28	-	pCi/g	
Q19-40	R	Thorium-228	Q19-40C-041550	NONE	483550.49	1352041	11/5/96	0.54	0.31		pCi/g	1.03	0.26	Z	pCi/g	
Q19-40	R	Thorium-228	Q19-40C2-R-1	NONE	483519.3	1351829	3/13/97	1.00	0.25		pCi/g	1.06	0.23	-	pCi/g	
Q19-40	R	Thorium-228	Q19-40C2-R-2	NONE	483787.05	1351820	3/13/97	1.00	0.22		pCi/g	1.05	0.21	J	pCi/g	
Q19-40	R	Thorium-228	Q19-40C2-R-3	NONE	483736.63	1351882	3/13/97	1.10	0.26		pCi/g	1.12	0.25	-	pCi/g	
Q19-40	R	Thorium-228	Q19-40C2-R-4	NONE	483667.96	1351827	3/13/97	1.20	0.26		pCi/g	1.19	0.25	-	pCi/g	
Q19-40	R	Thorium-228	Q19-40C2-R-48	NONE	483550.49	1352041	3/5/97	1.20	0.26		pCi/g	1.15	0.25	-	pCi/g	
Q19-40	R	Thorium-228	Q19-40C2-R-49	NONE	483740.76	1352079	3/6/97	1.00	0.23		pCi/g	1.07	0.21	-	pCi/g	
Q19-40	R	Thorium-228	Q19-40C2-R-5	NONE	483492.36	1352037	3/13/97	1.00	0.22		pCi/g	1.00	0.21	J	pCi/g	
Q19-40	R	Thorium-228	Q19-40C2-R-50	NONE	483755.28	1351835	3/6/97	1.10	0.23		pCi/g	1.18	0.22	J	pCi/g	
Q19-40	R	Thorium-228	Q19-40C2-R-50-D	NONE	483755.28	1351835	3/6/97	1.30	0.32		pCi/g	1.42	0.30	-	pCi/g	Q19-40C2-R-50
Q19-40	R	Thorium-228	Q19-40C2-R-51	NONE	483480.62	1351850	3/5/97	1.20	0.32		pCi/g	1.31	0.31	-	pCi/g	
Q19-40	R	Thorium-228	Q19-40C2-R-52	NONE	483465.75	1351883	3/5/97	1.20	0.29		pCi/g	1.22	0.28	-	pCi/g	
Q19-40	R	Thorium-228	Q19-40C2-R-53	NONE	483775.23	1351904	3/6/97	1.30	0.29		pCi/g	1.37	0.28	-	pCi/g	
Q19-40	R	Thorium-228	Q19-40C2-R-54	NONE	483438.51	1351999	3/5/97	1.00	0.24		pCi/g	1.04	0.23	-	pCi/g	
Q19-40	R	Thorium-228	Q19-40C2-R-6	NONE	483601.89	1351869	3/13/97	1.10	0.26		pCi/g	1.12	0.24	-	pCi/g	
Q19-40	R	Thorium-232	Q19-40C-041550	NONE	483550.49	1352041	11/5/96	1.00	0.23		pCi/g	1.04	0.23	Z	pCi/g	

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								Laboratory Data				Validation Data					
CU Name	CU Type	Parameter	Sample ID	Suffix	Northing	Easting	Sample Date	Lab Result	TPU	Qualifier	Units	Val. Result	TPU	Qualifier	Units	Duplicate of
Q19-40	R	Thorium-232	Q19-40C2-R-1	NONE	483519.3	1351829	3/13/97	1.10	0.22		pCi/g	1.07	0.22	-	pCi/g	
Q19-40	R	Thorium-232	Q19-40C2-R-2	NONE	483787.05	1351820	3/13/97	0.84	0.18		pCi/g	0.85	0.17	J	pCi/g	
Q19-40	R	Thorium-232	Q19-40C2-R-3	NONE	483736.63	1351882	3/13/97	1.10	0.22		pCi/g	1.08	0.22	-	pCi/g	
Q19-40	R	Thorium-232	Q19-40C2-R-4	NONE	483667.96	1351827	3/13/97	1.20	0.24		pCi/g	1.24	0.24	-	pCi/g	
Q19-40	R	Thorium-232	Q19-40C2-R-48	NONE	483550.49	1352041	3/5/97	1.00	0.22		pCi/g	1.01	0.21	-	pCi/g	
Q19-40	R	Thorium-232	Q19-40C2-R-49	NONE	483740.76	1352079	3/6/97	0.93	0.18		pCi/g	0.94	0.18	-	pCi/g	
Q19-40	R	Thorium-232	Q19-40C2-R-5	NONE	483492.36	1352037	3/13/97	1.00	0.20		pCi/g	1.02	0.20	J	pCi/g	
Q19-40	R	Thorium-232	Q19-40C2-R-50	NONE	483755.28	1351835	3/6/97	1.00	0.19		pCi/g	1.01	0.19	J	pCi/g	
Q19-40	R	Thorium-232	Q19-40C2-R-50-D	NONE	483755.28	1351835	3/6/97	0.99	0.22		pCi/g	1.00	0.22	-	pCi/g	Q19-40C2-R-50
Q19-40	R	Thorium-232	Q19-40C2-R-51	NONE	483480.62	1351850	3/5/97	0.98	0.24		pCi/g	1.00	0.23	-	pCi/g	
Q19-40	R	Thorium-232	Q19-40C2-R-52	NONE	483465.75	1351883	3/5/97	1.00	0.23		pCi/g	1.06	0.23	-	pCi/g	
Q19-40	R	Thorium-232	Q19-40C2-R-53	NONE	483775.23	1351904	3/6/97	1.10	0.23		pCi/g	1.13	0.23	-	pCi/g	
Q19-40	R	Thorium-232	Q19-40C2-R-54	NONE	483438.51	1351999	3/5/97	1.00	0.22		pCi/g	1.00	0.21	-	pCi/g	
Q19-40	R	Thorium-232	Q19-40C2-R-6	NONE	483601.89	1351869	3/13/97	1.10	0.23		pCi/g	1.12	0.23	-	pCi/g	
Q19-40	R	Uranium, Total	Q19-40C-041550	NONE	483550.49	1352041	11/5/96				ug/g	17.17		J	ug/g	
Q19-40	R	Uranium, Total	Q19-40C-079740	NONE	483740.76	1352079	11/5/96				ug/g	7.74		J	ug/g	
Q19-40	R	Uranium, Total	Q19-40C-835755	NONE	483755.28	1351835	11/5/96				ug/g	4.04		J	ug/g	
Q19-40	R	Uranium, Total	Q19-40C-849480	NONE	483480.62	1351850	11/4/96				ug/g	9.15	8.00	J	ug/g	
Q19-40	R	Uranium, Total	Q19-40C-882465	NONE	483465.75	1351883	11/5/96				ug/g	11.17		J	ug/g	
Q19-40	R	Uranium, Total	Q19-40C-882465-D	NONE	483465.75	1351883	11/5/96				ug/g	10.65		J	ug/g	Q19-40C-882465
Q19-40	R	Uranium, Total	Q19-40C-904775	NONE	483775.23	1351904	11/5/96				ug/g	7.05		J	ug/g	
Q19-40	R	Uranium, Total	Q19-40C-927651	NONE	483651.14	1351927	11/5/96				ug/g	5.63		J	ug/g	
Q19-40	R	Uranium, Total	Q19-40C-999438	NONE	483438.51	1351999	11/5/96				ug/g	4.63		U	ug/g	
Q19-40	R	Uranium, Total	Q19-40C2-R-1	NONE	483519.3	1351829	3/13/97				ug/g	14.11	5.13	-	ug/g	
Q19-40	R	Uranium, Total	Q19-40C2-R-2	NONE	483787.05	1351820	3/13/97				ug/g	3.85	3.00	J	ug/g	
Q19-40	R	Uranium, Total	Q19-40C2-R-3	NONE	483736.63	1351882	3/13/97				ug/g	3.93		U	ug/g	
Q19-40	R	Uranium, Total	Q19-40C2-R-4	NONE	483667.96	1351827	3/13/97				ug/g	3.86	3.70	J	ug/g	
Q19-40	R	Uranium, Total	Q19-40C2-R-5	NONE	483492.36	1352037	3/13/97				ug/g	6.38	4.26	J	ug/g	
Q19-40	R	Uranium, Total	Q19-40C2-R-6	NONE	483601.89	1351869	3/13/97				ug/g	7.73	4.49	J	ug/g	
Q19-40	R	Uranium-238	Q19-40C-041550	NONE	483550.49	1352041	11/5/96	5.70	3.00		pCi/g	5.73		J	pCi/g	
Q19-40	R	Uranium-238	Q19-40C-079740	NONE	483740.76	1352079	11/5/96	2.60	1.70		pCi/g	2.58		J	pCi/g	
Q19-40	R	Uranium-238	Q19-40C-835755	NONE	483755.28	1351835	11/5/96	1.30	0.94		pCi/g	1.35		J	pCi/g	
Q19-40	R	Uranium-238	Q19-40C-849480	NONE	483480.62	1351850	11/4/96	3.10	2.70		pCi/g	3.05		J	pCi/g	
Q19-40	R	Uranium-238	Q19-40C-882465	NONE	483465.75	1351883	11/5/96	3.70	2.30		pCi/g	3.73		J	pCi/g	
Q19-40	R	Uranium-238	Q19-40C-882465-D	NONE	483465.75	1351883	11/5/96	3.60	2.30		pCi/g	3.55		J	pCi/g	Q19-40C-882465
Q19-40	R	Uranium-238	Q19-40C-904775	NONE	483775.23	1351904	11/5/96	2.40	2.30		pCi/g	2.35		J	pCi/g	
Q19-40	R	Uranium-238	Q19-40C-927651	NONE	483651.14	1351927	11/5/96	1.90	1.90		pCi/g	1.88		J	pCi/g	
Q19-40	R	Uranium-238	Q19-40C-999438	NONE	483438.51	1351999	11/5/96	0.40	2.00	U	pCi/g	1.54		U	pCi/g	
Q19-40	R	Uranium-238	Q19-40C2-R-1	NONE	483519.3	1351829	3/13/97	4.70	1.70		pCi/g	4.70	1.71	-	pCi/g	
Q19-40	R	Uranium-238	Q19-40C2-R-2	NONE	483787.05	1351820	3/13/97	1.30	1.00		pCi/g	1.29	1.00	J	pCi/g	

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							Laboratory Data					Validation Data				
CU Name	CU Type	Parameter	Sample ID	Suffix	Northing	Easting	Sample Date	Lab Result	TPU	Qualifier	Units	Val. Result	TPU	Qualifier	Units	Duplicate of
Q19-40	R	Uranium-238	Q19-40C2-R-3	NONE	483736.63	1351882	3/13/97	0.68	1.80	U	pCi/g	1.31		U	pCi/g	
Q19-40	R	Uranium-238	Q19-40C2-R-4	NONE	483667.96	1351827	3/13/97	1.30	1.20		pCi/g	1.29	1.24	J	pCi/g	
Q19-40	R	Uranium-238	Q19-40C2-R-5	NONE	483492.36	1352037	3/13/97	2.10	1.40		pCi/g	2.13	1.42	J	pCi/g	
Q19-40	R	Uranium-238	Q19-40C2-R-6	NONE	483601.89	1351869	3/13/97	2.60	1.50		pCi/g	2.58	1.50	J	pCi/g	
Q20	M	Arsenic	Q20C-006313	NONE	484313.74	1352006	2/10/97	6.70			mg/kg	6.70		-	mg/kg	
Q20	M	Arsenic	Q20C-113140	NONE	484140.46	1352114	2/10/97	2.80			mg/kg	2.80		-	mg/kg	
Q20	M	Arsenic	Q20C-509996	NONE	483996.58	1351510	2/11/97	8.00			mg/kg	8.00		R	mg/kg	
Q20	M	Arsenic	Q20C-567281	NONE	484281.15	1351568	2/11/97	8.40			mg/kg	8.40		R	mg/kg	
Q20	M	Arsenic	Q20C-714120	NONE	484120.22	1351715	2/11/97	6.80			mg/kg	6.80		R	mg/kg	
Q20	M	Arsenic	Q20C-870102	NONE	484102.32	1351870	2/10/97	8.00			mg/kg	8.00		-	mg/kg	
Q20	M	Arsenic	Q20C-891879	NONE	483879.15	1351892	11/5/96	6.60			mg/kg	6.60		-	mg/kg	
Q20	M	Arsenic	Q20C2-M-1	NONE	484289.89	1351455	3/17/97	5.00			mg/kg	5.00		U	mg/kg	
Q20	M	Arsenic	Q20C2-M-2	NONE	484216.29	1351674	3/17/97	4.10			mg/kg	4.10		UJ	mg/kg	
Q20	M	Arsenic	Q20C2-M-3	NONE	484157.41	1351994	3/14/97	8.50			mg/kg	8.50		-	mg/kg	
Q20	M	Arsenic	Q20C2-M-4	NONE	484534.77	1351979	3/14/97	7.00			mg/kg	7.00		U	mg/kg	
Q20	M	Arsenic	Q20C2-M-5	NONE	484426.38	1352121	3/14/97	8.00			mg/kg	8.00		-	mg/kg	
Q20	M	Arsenic	Q20C2-M-6	NONE	483905.84	1351710	3/13/97	8.30			mg/kg	8.30		-	mg/kg	
Q20	M	Beryllium	Q20C-006313	NONE	484313.74	1352006	2/10/97	0.88			mg/kg	0.88		-	mg/kg	
Q20	M	Beryllium	Q20C-113140	NONE	484140.46	1352114	2/10/97	1.00			mg/kg	1.00		-	mg/kg	
Q20	M	Beryllium	Q20C-509996	NONE	483996.58	1351510	2/11/97	1.10			mg/kg	1.10		R	mg/kg	
Q20	M	Beryllium	Q20C-567281	NONE	484281.15	1351568	2/11/97	0.93			mg/kg	0.93		R	mg/kg	
Q20	M	Beryllium	Q20C-714120	NONE	484120.22	1351715	2/11/97	0.91			mg/kg	0.91		R	mg/kg	
Q20	M	Beryllium	Q20C-870102	NONE	484102.32	1351870	2/10/97	0.89			mg/kg	0.89		-	mg/kg	
Q20	M	Beryllium	Q20C-891879	NONE	483879.15	1351892	11/5/96	0.69			mg/kg	0.69		-	mg/kg	
Q20	M	Beryllium	Q20C2-M-1	NONE	484289.89	1351455	3/17/97	1.20			mg/kg	1.20		-	mg/kg	
Q20	M	Beryllium	Q20C2-M-2	NONE	484216.29	1351674	3/17/97	1.00		B	mg/kg	1.00		J	mg/kg	
Q20	M	Beryllium	Q20C2-M-3	NONE	484157.41	1351994	3/14/97	1.20			mg/kg	1.20		-	mg/kg	
Q20	M	Beryllium	Q20C2-M-4	NONE	484534.77	1351979	3/14/97	1.10			mg/kg	1.10		-	mg/kg	
Q20	M	Beryllium	Q20C2-M-5	NONE	484426.38	1352121	3/14/97	1.20			mg/kg	1.20		-	mg/kg	
Q20	M	Beryllium	Q20C2-M-6	NONE	483905.84	1351710	3/13/97	1.40			mg/kg	1.40		-	mg/kg	
Q20-10	R	Moisture Content	Q20-10C-10-R	NONE	484036.27	1351563	2/19/97	21.98			Percent	21.98		NV	Percent	
Q20-10	R	Moisture Content	Q20-10C-11-R	NONE	484014.16	1351640	2/19/97	23.91			Percent	23.91		NV	Percent	
Q20-10	R	Moisture Content	Q20-10C-12-R	NONE	484076.79	1351720	2/19/97	20.43			Percent	20.43		NV	Percent	
Q20-10	R	Moisture Content	Q20-10C-13-R	NONE	484144.70	1351403	2/24/97	29.30			Percent			NV	Percent	
Q20-10	R	Moisture Content	Q20-10C-14-R	NONE	484146.61	1351593	2/19/97	27.54			Percent	27.54		NV	Percent	
Q20-10	R	Moisture Content	Q20-10C-15-R	NONE	484168.6	1351652	2/19/97	25.59			Percent	25.59		NV	Percent	
Q20-10	R	Moisture Content	Q20-10C-5-R	NONE	483961.61	1351494	2/24/97	27.87			Percent			NV	Percent	
Q20-10	R	Moisture Content	Q20-10C-6-R	NONE	483972.02	1351517	2/19/97	21.99			Percent	21.99		NV	Percent	
Q20-10	R	Moisture Content	Q20-10C-8-R	NONE	484001.11	1351668	2/25/97	28.30			Percent			NV	Percent	

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								Laboratory Data				Validation Data				
CU Name	CU Type	Parameter	Sample ID	Suffix	Northing	Easting	Sample Date	Lab Result	TPU	Qualifier	Units	Val. Result	TPU	Qualifier	Units	Duplicate of
Q20-10	R	Moisture Content	Q20-10C-8-R-D	NONE	484001.11	1351668	2/25/97	29.50			Percent			NV	Percent	Q20-10C-8-R
Q20-10	R	Moisture Content	Q20-10C-9-R	NONE	484053.04	1351453	2/24/97	28.86			Percent			NV	Percent	
Q20-10	R	Moisture Content	Q20-10C2-R-1	NONE	484169.26	1351703	3/14/97	30.60			Percent			NV	Percent	
Q20-10	R	Moisture Content	Q20-10C2-R-1-D	NONE	484169.26	1351703	3/14/97	27.90			Percent			NV	Percent	Q20-10C2-R-1
Q20-10	R	Moisture Content	Q20-10C2-R-2	NONE	484174.48	1351435	3/14/97	27.50			Percent			NV	Percent	
Q20-10	R	Moisture Content	Q20-10C2-R-3	NONE	484051.03	1351521	3/14/97	30.20			Percent			NV	Percent	
Q20-10	R	Moisture Content	Q20-10C2-R-4	NONE	483899.77	1351505	3/14/97	35.30			Percent			NV	Percent	
Q20-10	R	Radium-226	Q20-10C-10-R	NONE	484036.27	1351563	2/19/97	0.91	0.15		pCi/g	0.91	0.14	-	pCi/g	
Q20-10	R	Radium-226	Q20-10C-11-R	NONE	484014.16	1351640	2/19/97	0.91	0.15		pCi/g	0.91	0.15	-	pCi/g	
Q20-10	R	Radium-226	Q20-10C-12-R	NONE	484076.79	1351720	2/19/97	0.90	0.16		pCi/g	0.90	0.16	-	pCi/g	
Q20-10	R	Radium-226	Q20-10C-13-R	NONE	484144.70	1351403	2/24/97	1.20	0.22		pCi/g	1.20	0.22	-	pCi/g	
Q20-10	R	Radium-226	Q20-10C-14-R	NONE	484146.61	1351593	2/19/97	1.20	0.20		pCi/g	1.20	0.20	-	pCi/g	
Q20-10	R	Radium-226	Q20-10C-15-R	NONE	484168.6	1351652	2/19/97	0.48	0.14		pCi/g	0.48	0.14	-	pCi/g	
Q20-10	R	Radium-226	Q20-10C-5-R	NONE	483961.61	1351494	2/24/97	1.20	0.18		pCi/g	1.20	0.18	-	pCi/g	
Q20-10	R	Radium-226	Q20-10C-6-R	NONE	483972.02	1351517	2/19/97	1.00	0.19		pCi/g	1.00	0.19	-	pCi/g	
Q20-10	R	Radium-226	Q20-10C-8-R	NONE	484001.11	1351668	2/25/97	1.40	0.18		pCi/g	1.36	0.18	-	pCi/g	
Q20-10	R	Radium-226	Q20-10C-8-R-D	NONE	484001.11	1351668	2/25/97	1.20	0.15		pCi/g	1.20	0.15	-	pCi/g	Q20-10C-8-R
Q20-10	R	Radium-226	Q20-10C-9-R	NONE	484053.04	1351453	2/24/97	1.20	0.22		pCi/g	1.20	0.22	-	pCi/g	
Q20-10	R	Radium-226	Q20-10C2-R-1	NONE	484169.26	1351703	3/14/97	1.60	0.21		pCi/g	1.59	0.21	-	pCi/g	
Q20-10	R	Radium-226	Q20-10C2-R-1-D	NONE	484169.26	1351703	3/14/97	1.50	0.18		pCi/g	1.46	0.18	-	pCi/g	Q20-10C2-R-1
Q20-10	R	Radium-226	Q20-10C2-R-2	NONE	484174.48	1351435	3/14/97	1.10	0.14		pCi/g	1.06	0.14	-	pCi/g	
Q20-10	R	Radium-226	Q20-10C2-R-3	NONE	484051.03	1351521	3/14/97	1.50	0.18		pCi/g	1.47	0.18	-	pCi/g	
Q20-10	R	Radium-226	Q20-10C2-R-4	NONE	483899.77	1351505	3/14/97	1.60	0.19		pCi/g	1.60	0.19	-	pCi/g	
Q20-10	R	Radium-228	Q20-10C-10-R	NONE	484036.27	1351563	2/19/97	1.40	0.25		pCi/g	1.40	0.25	-	pCi/g	
Q20-10	R	Radium-228	Q20-10C-11-R	NONE	484014.16	1351640	2/19/97	1.20	0.24		pCi/g	1.20	0.24	-	pCi/g	
Q20-10	R	Radium-228	Q20-10C-12-R	NONE	484076.79	1351720	2/19/97	1.20	0.28		pCi/g	1.20	0.28	-	pCi/g	
Q20-10	R	Radium-228	Q20-10C-13-R	NONE	484144.70	1351403	2/24/97	1.40	0.32		pCi/g	1.40	0.32	-	pCi/g	
Q20-10	R	Radium-228	Q20-10C-14-R	NONE	484146.61	1351593	2/19/97	1.20	0.34		pCi/g	1.20	0.34	-	pCi/g	
Q20-10	R	Radium-228	Q20-10C-15-R	NONE	484168.6	1351652	2/19/97	0.66	0.22		pCi/g	0.66	0.22	-	pCi/g	
Q20-10	R	Radium-228	Q20-10C-5-R	NONE	483961.61	1351494	2/24/97	1.30	0.30		pCi/g	1.30	0.30	-	pCi/g	
Q20-10	R	Radium-228	Q20-10C-6-R	NONE	483972.02	1351517	2/19/97	1.40	0.32		pCi/g	1.40	0.32	-	pCi/g	
Q20-10	R	Radium-228	Q20-10C-8-R	NONE	484001.11	1351668	2/25/97	1.30	0.40		pCi/g	1.33	0.40	-	pCi/g	
Q20-10	R	Radium-228	Q20-10C-8-R-D	NONE	484001.11	1351668	2/25/97	1.30	0.35		pCi/g	1.29	0.35	-	pCi/g	Q20-10C-8-R
Q20-10	R	Radium-228	Q20-10C-9-R	NONE	484053.04	1351453	2/24/97	1.30	0.35		pCi/g	1.30	0.35	-	pCi/g	
Q20-10	R	Radium-228	Q20-10C2-R-1	NONE	484169.26	1351703	3/14/97	1.40	0.36		pCi/g	1.36	0.36	-	pCi/g	
Q20-10	R	Radium-228	Q20-10C2-R-1-D	NONE	484169.26	1351703	3/14/97	1.30	0.35		pCi/g	1.25	0.35	-	pCi/g	Q20-10C2-R-1
Q20-10	R	Radium-228	Q20-10C2-R-2	NONE	484174.48	1351435	3/14/97	1.30	0.33		pCi/g	1.34	0.33	-	pCi/g	
Q20-10	R	Radium-228	Q20-10C2-R-3	NONE	484051.03	1351521	3/14/97	1.70	0.43		pCi/g	1.70	0.43	-	pCi/g	
Q20-10	R	Radium-228	Q20-10C2-R-4	NONE	483899.77	1351505	3/14/97	1.50	0.40		pCi/g	1.54	0.40	-	pCi/g	
Q20-10	R	Thorium-228	Q20-10C-10-R	NONE	484036.27	1351563	2/19/97	1.00	0.29		pCi/g	1.14	0.29	-	pCi/g	

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CU Name	CU Type	Parameter	Sample ID	Suffix	Northing	Easting	Sample Date	Laboratory Data				Validation Data				Duplicate of
								Lab Result	TPU	Qualifier	Units	Val. Result	TPU	Qualifier	Units	
Q20-10	R	Thorium-228	Q20-10C-11-R	NONE	484014.16	1351640	2/19/97	0.96	0.25		pCi/g	1.08	0.24	-	pCi/g	
Q20-10	R	Thorium-228	Q20-10C-12-R	NONE	484076.79	1351720	2/19/97	0.96	0.24		pCi/g	1.10	0.24	-	pCi/g	
Q20-10	R	Thorium-228	Q20-10C-13-R	NONE	484144.70	1351403	2/24/97	1.40	0.32		pCi/g	1.38	0.29	J	pCi/g	
Q20-10	R	Thorium-228	Q20-10C-14-R	NONE	484146.61	1351593	2/19/97	0.98	0.27		pCi/g	1.12	0.27	-	pCi/g	
Q20-10	R	Thorium-228	Q20-10C-15-R	NONE	484168.6	1351652	2/19/97	1.10	0.30		pCi/g	1.22	0.29	-	pCi/g	
Q20-10	R	Thorium-228	Q20-10C-5-R	NONE	483961.61	1351494	2/24/97	1.10	0.27		pCi/g	1.11	0.23	J	pCi/g	
Q20-10	R	Thorium-228	Q20-10C-6-R	NONE	483972.02	1351517	2/19/97	1.10	0.32		pCi/g	1.23	0.31	-	pCi/g	
Q20-10	R	Thorium-228	Q20-10C-8-R	NONE	484001.11	1351668	2/25/97	1.50	0.56		pCi/g	1.51	0.56	J	pCi/g	
Q20-10	R	Thorium-228	Q20-10C-8-R-D	NONE	484001.11	1351668	2/25/97	1.70	0.71		pCi/g	1.68	0.71	-	pCi/g	Q20-10C-8-R
Q20-10	R	Thorium-228	Q20-10C-9-R	NONE	484053.04	1351453	2/24/97	1.10	0.26		pCi/g	1.08	0.23	J	pCi/g	
Q20-10	R	Thorium-228	Q20-10C2-R-1	NONE	484169.26	1351703	3/14/97	1.50	0.50		pCi/g	1.50	0.50	-	pCi/g	
Q20-10	R	Thorium-228	Q20-10C2-R-1-D	NONE	484169.26	1351703	3/14/97	1.30	0.47		pCi/g	1.32	0.47	J	pCi/g	Q20-10C2-R-1
Q20-10	R	Thorium-228	Q20-10C2-R-2	NONE	484174.48	1351435	3/14/97	1.30	0.53		pCi/g	1.31	0.53	J	pCi/g	
Q20-10	R	Thorium-228	Q20-10C2-R-3	NONE	484051.03	1351521	3/14/97	1.60	0.60		pCi/g	1.61	0.60	-	pCi/g	
Q20-10	R	Thorium-228	Q20-10C2-R-4	NONE	483899.77	1351505	3/14/97	1.60	0.59		pCi/g	1.56	0.59	-	pCi/g	
Q20-10	R	Thorium-232	Q20-10C-10-R	NONE	484036.27	1351563	2/19/97	0.92	0.21		pCi/g	0.94	0.21	-	pCi/g	
Q20-10	R	Thorium-232	Q20-10C-11-R	NONE	484014.16	1351640	2/19/97	1.10	0.22		pCi/g	1.07	0.22	-	pCi/g	
Q20-10	R	Thorium-232	Q20-10C-12-R	NONE	484076.79	1351720	2/19/97	1.00	0.22		pCi/g	1.03	0.22	-	pCi/g	
Q20-10	R	Thorium-232	Q20-10C-13-R	NONE	484144.70	1351403	2/24/97	1.20	0.27		pCi/g	1.26	0.26	-	pCi/g	
Q20-10	R	Thorium-232	Q20-10C-14-R	NONE	484146.61	1351593	2/19/97	1.10	0.25		pCi/g	1.13	0.25	-	pCi/g	
Q20-10	R	Thorium-232	Q20-10C-15-R	NONE	484168.6	1351652	2/19/97	1.10	0.24		pCi/g	1.13	0.25	-	pCi/g	
Q20-10	R	Thorium-232	Q20-10C-5-R	NONE	483961.61	1351494	2/24/97	1.00	0.22		pCi/g	1.04	0.21	-	pCi/g	
Q20-10	R	Thorium-232	Q20-10C-6-R	NONE	483972.02	1351517	2/19/97	1.10	0.25		pCi/g	1.09	0.25	-	pCi/g	
Q20-10	R	Thorium-232	Q20-10C-8-R	NONE	484001.11	1351668	2/25/97	1.30	0.47		pCi/g	1.27	0.47	J	pCi/g	
Q20-10	R	Thorium-232	Q20-10C-8-R-D	NONE	484001.11	1351668	2/25/97	1.30	0.56		pCi/g	1.31	0.56	-	pCi/g	Q20-10C-8-R
Q20-10	R	Thorium-232	Q20-10C-9-R	NONE	484053.04	1351453	2/24/97	0.87	0.20		pCi/g	0.88	0.19	-	pCi/g	
Q20-10	R	Thorium-232	Q20-10C2-R-1	NONE	484169.26	1351703	3/14/97	1.30	0.45		pCi/g	1.34	0.45	-	pCi/g	
Q20-10	R	Thorium-232	Q20-10C2-R-1-D	NONE	484169.26	1351703	3/14/97	1.10	0.41		pCi/g	1.15	0.41	J	pCi/g	Q20-10C2-R-1
Q20-10	R	Thorium-232	Q20-10C2-R-2	NONE	484174.48	1351435	3/14/97	1.20	0.48		pCi/g	1.20	0.48	J	pCi/g	
Q20-10	R	Thorium-232	Q20-10C2-R-3	NONE	484051.03	1351521	3/14/97	1.30	0.48		pCi/g	1.27	0.48	-	pCi/g	
Q20-10	R	Thorium-232	Q20-10C2-R-4	NONE	483899.77	1351505	3/14/97	1.40	0.54		pCi/g	1.45	0.54	-	pCi/g	
Q20-10	R	Uranium, Total	Q20-10C-10-R	NONE	484036.27	1351563	2/19/97				ug/g	17.09	5.70	-	ug/g	
Q20-10	R	Uranium, Total	Q20-10C-11-R	NONE	484014.16	1351640	2/19/97				ug/g	15.89	4.20	-	ug/g	
Q20-10	R	Uranium, Total	Q20-10C-12-R	NONE	484076.79	1351720	2/19/97				ug/g	11.10	5.40	-	ug/g	
Q20-10	R	Uranium, Total	Q20-10C-13-R	NONE	484144.70	1351403	2/24/97				ug/g	9.00	6.30	J	ug/g	
Q20-10	R	Uranium, Total	Q20-10C-14-R	NONE	484146.61	1351593	2/19/97				ug/g	21.29	7.80	-	ug/g	
Q20-10	R	Uranium, Total	Q20-10C-15-R	NONE	484168.6	1351652	2/19/97				ug/g	8.70	5.70	J	ug/g	
Q20-10	R	Uranium, Total	Q20-10C-5-R	NONE	483961.61	1351494	2/24/97				ug/g	26.99	9.30	-	ug/g	
Q20-10	R	Uranium, Total	Q20-10C-6-R	NONE	483972.02	1351517	2/19/97				ug/g	21.59	6.90	-	ug/g	
Q20-10	R	Uranium, Total	Q20-10C-8-R	NONE	484001.11	1351668	2/25/97				ug/g	11.91	2.55	-	ug/g	

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								Laboratory Data				Validation Data					
CU Name	CU Type	Parameter	Sample ID	Suffix	Northing	Easting	Sample Date	Lab Result	TPU	Qualifier	Units	Val. Result	TPU	Qualifier	Units	Duplicate of
Q20-10	R	Uranium, Total	Q20-10C-8-R-D	NONE	484001.11	1351668	2/25/97				ug/g	8.60	2.61	-	ug/g	Q20-10C-8-R
Q20-10	R	Uranium, Total	Q20-10C-9-R	NONE	484053.04	1351453	2/24/97				ug/g	15.29	6.30	-	ug/g	
Q20-10	R	Uranium, Total	Q20-10C2-R-1	NONE	484169.26	1351703	3/14/97				ug/g	9.47	2.71	-	ug/g	
Q20-10	R	Uranium, Total	Q20-10C2-R-1-D	NONE	484169.26	1351703	3/14/97				ug/g	9.05	2.16	-	ug/g	Q20-10C2-R-1
Q20-10	R	Uranium, Total	Q20-10C2-R-2	NONE	484174.48	1351435	3/14/97				ug/g	5.01	1.40	-	ug/g	
Q20-10	R	Uranium, Total	Q20-10C2-R-3	NONE	484051.03	1351521	3/14/97				ug/g	11.57	2.82	-	ug/g	
Q20-10	R	Uranium, Total	Q20-10C2-R-4	NONE	483899.77	1351505	3/14/97				ug/g	14.73	3.17	-	ug/g	
Q20-10	R	Uranium-238	Q20-10C-10-R	NONE	484036.27	1351563	2/19/97	5.70	1.90		pCi/g	5.70	1.90	-	pCi/g	
Q20-10	R	Uranium-238	Q20-10C-11-R	NONE	484014.16	1351640	2/19/97	5.30	1.40		pCi/g	5.30	1.40	-	pCi/g	
Q20-10	R	Uranium-238	Q20-10C-12-R	NONE	484076.79	1351720	2/19/97	3.70	1.80		pCi/g	3.70	1.80	-	pCi/g	
Q20-10	R	Uranium-238	Q20-10C-13-R	NONE	484144.70	1351403	2/24/97	3.00	2.10		pCi/g	3.00	2.10	J	pCi/g	
Q20-10	R	Uranium-238	Q20-10C-14-R	NONE	484146.61	1351593	2/19/97	7.10	2.60		pCi/g	7.10	2.60	-	pCi/g	
Q20-10	R	Uranium-238	Q20-10C-15-R	NONE	484168.6	1351652	2/19/97	2.90	1.90		pCi/g	2.90	1.90	J	pCi/g	
Q20-10	R	Uranium-238	Q20-10C-5-R	NONE	483961.61	1351494	2/24/97	9.00	3.10		pCi/g	9.00	3.10	-	pCi/g	
Q20-10	R	Uranium-238	Q20-10C-6-R	NONE	483972.02	1351517	2/19/97	7.20	2.30		pCi/g	7.20	2.30	-	pCi/g	
Q20-10	R	Uranium-238	Q20-10C-8-R	NONE	484001.11	1351668	2/25/97	3.97	0.85		pCi/g	3.97	0.85	-	pCi/g	
Q20-10	R	Uranium-238	Q20-10C-8-R-D	NONE	484001.11	1351668	2/25/97	2.90	1.30		pCi/g	2.87	0.87	-	pCi/g	Q20-10C-8-R
Q20-10	R	Uranium-238	Q20-10C-9-R	NONE	484053.04	1351453	2/24/97	5.10	2.20		pCi/g	5.10	2.10	-	pCi/g	
Q20-10	R	Uranium-238	Q20-10C2-R-1	NONE	484169.26	1351703	3/14/97	3.20	0.90		pCi/g	3.16	0.90	-	pCi/g	
Q20-10	R	Uranium-238	Q20-10C2-R-1-D	NONE	484169.26	1351703	3/14/97	3.00	0.72		pCi/g	3.02	0.72	-	pCi/g	Q20-10C2-R-1
Q20-10	R	Uranium-238	Q20-10C2-R-2	NONE	484174.48	1351435	3/14/97	1.70	0.47		pCi/g	1.67	0.47	-	pCi/g	
Q20-10	R	Uranium-238	Q20-10C2-R-3	NONE	484051.03	1351521	3/14/97	3.90	0.94		pCi/g	3.86	0.94	-	pCi/g	
Q20-10	R	Uranium-238	Q20-10C2-R-4	NONE	483899.77	1351505	3/14/97	4.90	1.00		pCi/g	4.91	1.06	-	pCi/g	
Q20-20	R	Moisture Content	Q20-10C-714896	NONE	483896.67	1351714	11/4/96	19.70			Percent	19.70		NV	Percent	
Q20-20	R	Moisture Content	Q20-20C-008111	NONE	484111.78	1352008	2/10/97	31.78			Percent				Percent	
Q20-20	R	Moisture Content	Q20-20C-064950	NONE	483950	1352064	11/4/96	11.37			Percent				Percent	
Q20-20	R	Moisture Content	Q20-20C-074915	NONE	483915.45	1352074	11/4/96	19.78			Percent				Percent	
Q20-20	R	Moisture Content	Q20-20C-815917	NONE	483917.37	1351815	11/4/96	13.50			Percent				Percent	
Q20-20	R	Moisture Content	Q20-20C-847132	NONE	484132.55	1351847	2/10/97	28.48			Percent	28.48		NV	Percent	
Q20-20	R	Moisture Content	Q20-20C-859980	NONE	483980	1351859	11/4/96	12.88			Percent				Percent	
Q20-20	R	Moisture Content	Q20-20C-875821	NONE	483821.87	1351875	11/4/96	12.25			Percent				Percent	
Q20-20	R	Moisture Content	Q20-20C-902959	NONE	483960.02	1351902	11/4/96	14.48			Percent				Percent	
Q20-20	R	Moisture Content	Q20-20C-947192	NONE	484192.75	1351948	2/10/97	28.69			Percent	28.69		NV	Percent	
Q20-20	R	Moisture Content	Q20-20C2-R-1	NONE	484186	1352079	3/24/97	40.90			Percent			NV	Percent	
Q20-20	R	Moisture Content	Q20-20C2-R-2	NONE	484061	1352069	3/24/97	29.00			Percent			NV	Percent	
Q20-20	R	Moisture Content	Q20-20C2-R-3	NONE	483837	1351676	3/24/97	23.00			Percent			NV	Percent	
Q20-20	R	Moisture Content	Q20-20C2-R-55	NONE	483950	1352064	3/6/97	24.09			Percent			NV	Percent	
Q20-20	R	Moisture Content	Q20-20C2-R-56	NONE	483915.45	1352074	3/6/97	22.46			Percent			NV	Percent	
Q20-20	R	Moisture Content	Q20-20C2-R-58	NONE	483917.37	1351815	3/6/97	20.74			Percent			NV	Percent	

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							Laboratory Data				Validation Data				
CU Name	CU Type	Parameter	Sample ID	Suffix	Northing	Easting	Sample Date	Lab Result	TPU	Qualifier	Units	Val. Result	TPU	Qualifier	Units	Duplicate of
Q20-20	R	Moisture Content	Q20-20C2-R-59	NONE	483980	1351859	3/6/97	22.70			Percent			NV	Percent	
Q20-20	R	Moisture Content	Q20-20C2-R-60	NONE	483821.87	1351875	3/6/97	20.53			Percent			NV	Percent	
Q20-20	R	Moisture Content	Q20-20C2-R-61	NONE	483960.02	1351902	3/6/97	17.60			Percent			NV	Percent	
Q20-20	R	Radium-226	Q20-10C-714896	NONE	483896.67	1351714	11/4/96	1.20	0.32		pCi/g	1.20	0.32	-	pCi/g	
Q20-20	R	Radium-226	Q20-20C-008111	NONE	484111.78	1352008	2/10/97	1.00	0.19		pCi/g	1.00	0.19	-	pCi/g	
Q20-20	R	Radium-226	Q20-20C-064950	NONE	483950	1352064	11/4/96	1.10	0.19		pCi/g	1.09		-	pCi/g	
Q20-20	R	Radium-226	Q20-20C-074915	NONE	483915.45	1352074	11/4/96	0.91	0.17		pCi/g	0.91		-	pCi/g	
Q20-20	R	Radium-226	Q20-20C-815917	NONE	483917.37	1351815	11/4/96	1.10	0.18		pCi/g	1.11		-	pCi/g	
Q20-20	R	Radium-226	Q20-20C-847132	NONE	484132.55	1351847	2/10/97	0.90	0.15		pCi/g	0.90	0.15	-	pCi/g	
Q20-20	R	Radium-226	Q20-20C-859980	NONE	483980	1351859	11/4/96	0.79	0.17		pCi/g	0.79	0.17	-	pCi/g	
Q20-20	R	Radium-226	Q20-20C-875821	NONE	483821.87	1351875	11/4/96	1.30	0.15		pCi/g	1.32		-	pCi/g	
Q20-20	R	Radium-226	Q20-20C-902959	NONE	483960.02	1351902	11/4/96	1.10	0.19		pCi/g	1.08		-	pCi/g	
Q20-20	R	Radium-226	Q20-20C-947192	NONE	484192.75	1351948	2/10/97	1.10	0.17		pCi/g	1.10	0.17	-	pCi/g	
Q20-20	R	Radium-226	Q20-20C2-R-1	NONE	484186	1352079	3/24/97	1.10	0.12		pCi/g	1.13	0.12	-	pCi/g	
Q20-20	R	Radium-226	Q20-20C2-R-2	NONE	484061	1352069	3/24/97	1.20	0.14		pCi/g	1.16	0.14	-	pCi/g	
Q20-20	R	Radium-226	Q20-20C2-R-3	NONE	483837	1351676	3/24/97	1.50	0.17		pCi/g	1.46	0.17	-	pCi/g	
Q20-20	R	Radium-228	Q20-10C-714896	NONE	483896.67	1351714	11/4/96	1.70	0.44		pCi/g	1.70	0.44	-	pCi/g	
Q20-20	R	Radium-228	Q20-20C-008111	NONE	484111.78	1352008	2/10/97	1.30	0.29		pCi/g	1.30	0.29	-	pCi/g	
Q20-20	R	Radium-228	Q20-20C-064950	NONE	483950	1352064	11/4/96	1.20	0.30		pCi/g	1.16		-	pCi/g	
Q20-20	R	Radium-228	Q20-20C-074915	NONE	483915.45	1352074	11/4/96	1.20	0.32		pCi/g	1.24		-	pCi/g	
Q20-20	R	Radium-228	Q20-20C-815917	NONE	483917.37	1351815	11/4/96	1.10	0.28		pCi/g	1.11		-	pCi/g	
Q20-20	R	Radium-228	Q20-20C-847132	NONE	484132.55	1351847	2/10/97	1.10	0.23		pCi/g	1.10	0.23	-	pCi/g	
Q20-20	R	Radium-228	Q20-20C-859980	NONE	483980	1351859	11/4/96	0.97	0.30		pCi/g	0.97	0.30	-	pCi/g	
Q20-20	R	Radium-228	Q20-20C-875821	NONE	483821.87	1351875	11/4/96	1.20	0.27		pCi/g	1.18		-	pCi/g	
Q20-20	R	Radium-228	Q20-20C-902959	NONE	483960.02	1351902	11/4/96	1.20	0.26		pCi/g	1.23		-	pCi/g	
Q20-20	R	Radium-228	Q20-20C-947192	NONE	484192.75	1351948	2/10/97	1.20	0.26		pCi/g	1.20	0.26	-	pCi/g	
Q20-20	R	Radium-228	Q20-20C2-R-1	NONE	484186	1352079	3/24/97	1.10	0.29		pCi/g	1.11	0.29	-	pCi/g	
Q20-20	R	Radium-228	Q20-20C2-R-2	NONE	484061	1352069	3/24/97	1.20	0.31		pCi/g	1.16	0.31	-	pCi/g	
Q20-20	R	Radium-228	Q20-20C2-R-3	NONE	483837	1351676	3/24/97	1.10	0.31		pCi/g	1.07	0.31	-	pCi/g	
Q20-20	R	Thorium-228	Q20-10C-714896	NONE	483896.67	1351714	11/4/96	1.30	0.33		pCi/g	1.50	0.32	-	pCi/g	
Q20-20	R	Thorium-228	Q20-20C-008111	NONE	484111.78	1352008	2/10/97	1.20	0.31		pCi/g	1.40	0.30	-	pCi/g	
Q20-20	R	Thorium-228	Q20-20C-847132	NONE	484132.55	1351847	2/10/97	1.30	0.32		pCi/g	1.50	0.32	-	pCi/g	
Q20-20	R	Thorium-228	Q20-20C-947192	NONE	484192.75	1351948	2/10/97	1.40	0.35		pCi/g	1.60	0.34	-	pCi/g	
Q20-20	R	Thorium-228	Q20-20C2-R-1	NONE	484186	1352079	3/24/97	1.20	0.47		pCi/g	1.25	0.47	J	pCi/g	
Q20-20	R	Thorium-228	Q20-20C2-R-2	NONE	484061	1352069	3/24/97	1.20	0.48		pCi/g	1.23	0.48	J	pCi/g	
Q20-20	R	Thorium-228	Q20-20C2-R-3	NONE	483837	1351676	3/24/97	1.40	0.51		pCi/g	1.36	0.51	J	pCi/g	
Q20-20	R	Thorium-228	Q20-20C2-R-55	NONE	483950	1352064	3/6/97	1.00	0.29		pCi/g	1.10	0.27	-	pCi/g	
Q20-20	R	Thorium-228	Q20-20C2-R-56	NONE	483915.45	1352074	3/6/97	0.95	0.31		pCi/g	1.04	0.28	-	pCi/g	
Q20-20	R	Thorium-228	Q20-20C2-R-58	NONE	483917.37	1351815	3/6/97	0.97	0.28		pCi/g	1.06	0.26	-	pCi/g	
Q20-20	R	Thorium-228	Q20-20C2-R-59	NONE	483980	1351859	3/6/97	1.30	0.31		pCi/g	1.36	0.29	-	pCi/g	

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							Laboratory Data				Validation Data				
CU Name	CU Type	Parameter	Sample ID	Suffix	Northing	Easting	Sample Date	Lab Result	TPU	Qualifier	Units	Val. Result	TPU	Qualifier	Units	Duplicate of
Q20-20	R	Thorium-228	Q20-20C2-R-60	NONE	483821.87	1351875	3/6/97	1.10	0.27		pCi/g	1.20	0.26	-	pCi/g	
Q20-20	R	Thorium-228	Q20-20C2-R-61	NONE	483960.02	1351902	3/6/97	1.10	0.30		pCi/g	1.21	0.28	-	pCi/g	
Q20-20	R	Thorium-232	Q20-10C-714896	NONE	483896.67	1351714	11/4/96	1.20	0.25		pCi/g	1.20	0.25	-	pCi/g	
Q20-20	R	Thorium-232	Q20-20C-008111	NONE	484111.78	1352008	2/10/97	1.20	0.26		pCi/g	1.20	0.26	-	pCi/g	
Q20-20	R	Thorium-232	Q20-20C-847132	NONE	484132.55	1351847	2/10/97	1.30	0.28		pCi/g	1.30	0.28	-	pCi/g	
Q20-20	R	Thorium-232	Q20-20C-947192	NONE	484192.75	1351948	2/10/97	1.40	0.29		pCi/g	1.40	0.29	-	pCi/g	
Q20-20	R	Thorium-232	Q20-20C2-R-1	NONE	484186	1352079	3/24/97	1.10	0.41		pCi/g	1.08	0.41	J	pCi/g	
Q20-20	R	Thorium-232	Q20-20C2-R-2	NONE	484061	1352069	3/24/97	0.95	0.37		pCi/g	0.95	0.37	J	pCi/g	
Q20-20	R	Thorium-232	Q20-20C2-R-3	NONE	483837	1351676	3/24/97	1.10	0.42		pCi/g	1.11	0.42	J	pCi/g	
Q20-20	R	Thorium-232	Q20-20C2-R-55	NONE	483950	1352064	3/6/97	1.30	0.26		pCi/g	1.27	0.26	-	pCi/g	
Q20-20	R	Thorium-232	Q20-20C2-R-56	NONE	483915.45	1352074	3/6/97	1.00	0.24		pCi/g	1.02	0.24	-	pCi/g	
Q20-20	R	Thorium-232	Q20-20C2-R-58	NONE	483917.37	1351815	3/6/97	1.30	0.25		pCi/g	1.27	0.25	-	pCi/g	
Q20-20	R	Thorium-232	Q20-20C2-R-59	NONE	483980	1351859	3/6/97	1.20	0.25		pCi/g	1.23	0.25	-	pCi/g	
Q20-20	R	Thorium-232	Q20-20C2-R-60	NONE	483821.87	1351875	3/6/97	1.30	0.25		pCi/g	1.25	0.25	-	pCi/g	
Q20-20	R	Thorium-232	Q20-20C2-R-61	NONE	483960.02	1351902	3/6/97	0.96	0.22		pCi/g	0.97	0.22	-	pCi/g	
Q20-20	R	Uranium, Total	Q20-10C-714896	NONE	483896.67	1351714	11/4/96				ug/g	6.30	8.10	J	ug/g	
Q20-20	R	Uranium, Total	Q20-20C-008111	NONE	484111.78	1352008	2/10/97				ug/g	12.29	5.40	-	ug/g	
Q20-20	R	Uranium, Total	Q20-20C-064950	NONE	483950	1352064	11/4/96				ug/g	6.85		J	ug/g	
Q20-20	R	Uranium, Total	Q20-20C-074915	NONE	483915.45	1352074	11/4/96				ug/g	21.97		-	ug/g	
Q20-20	R	Uranium, Total	Q20-20C-815917	NONE	483917.37	1351815	11/4/96				ug/g	5.55		J	ug/g	
Q20-20	R	Uranium, Total	Q20-20C-847132	NONE	484132.55	1351847	2/10/97				ug/g	23.09	7.20	-	ug/g	
Q20-20	R	Uranium, Total	Q20-20C-859980	NONE	483980	1351859	11/4/96				ug/g	4.48		J	ug/g	
Q20-20	R	Uranium, Total	Q20-20C-875821	NONE	483821.87	1351875	11/4/96				ug/g	6.51		J	ug/g	
Q20-20	R	Uranium, Total	Q20-20C-902959	NONE	483960.02	1351902	11/4/96				ug/g	6.12		J	ug/g	
Q20-20	R	Uranium, Total	Q20-20C-947192	NONE	484192.75	1351948	2/10/97				ug/g	15.29	4.80	-	ug/g	
Q20-20	R	Uranium, Total	Q20-20C2-R-1	NONE	484186	1352079	3/24/97				ug/g	3.26	0.81	-	ug/g	
Q20-20	R	Uranium, Total	Q20-20C2-R-2	NONE	484061	1352069	3/24/97				ug/g	10.35	2.17	-	ug/g	
Q20-20	R	Uranium, Total	Q20-20C2-R-3	NONE	483837	1351676	3/24/97				ug/g	1.51	0.76	J	ug/g	
Q20-20	R	Uranium-238	Q20-10C-714896	NONE	483896.67	1351714	11/4/96	2.10	2.70		pCi/g	2.10	2.70	J	pCi/g	
Q20-20	R	Uranium-238	Q20-20C-008111	NONE	484111.78	1352008	2/10/97	4.10	1.80		pCi/g	4.10	1.80	-	pCi/g	
Q20-20	R	Uranium-238	Q20-20C-064950	NONE	483950	1352064	11/4/96	2.30	1.90		pCi/g	2.28		J	pCi/g	
Q20-20	R	Uranium-238	Q20-20C-074915	NONE	483915.45	1352074	11/4/96	7.30	2.90		pCi/g	7.33		-	pCi/g	
Q20-20	R	Uranium-238	Q20-20C-815917	NONE	483917.37	1351815	11/4/96	1.90	1.70		pCi/g	1.85		J	pCi/g	
Q20-20	R	Uranium-238	Q20-20C-847132	NONE	484132.55	1351847	2/10/97	7.70	2.40		pCi/g	7.70	2.40	-	pCi/g	
Q20-20	R	Uranium-238	Q20-20C-859980	NONE	483980	1351859	11/4/96	1.50	1.60		pCi/g	1.50		J	pCi/g	
Q20-20	R	Uranium-238	Q20-20C-875821	NONE	483821.87	1351875	11/4/96	2.20	1.80		pCi/g	2.17		J	pCi/g	
Q20-20	R	Uranium-238	Q20-20C-902959	NONE	483960.02	1351902	11/4/96	2.00	1.30		pCi/g	2.04		J	pCi/g	
Q20-20	R	Uranium-238	Q20-20C-947192	NONE	484192.75	1351948	2/10/97	5.10	1.60		pCi/g	5.10	1.60	-	pCi/g	
Q20-20	R	Uranium-238	Q20-20C2-R-1	NONE	484186	1352079	3/24/97	1.10	0.27		pCi/g	1.09	0.27	-	pCi/g	
Q20-20	R	Uranium-238	Q20-20C2-R-2	NONE	484061	1352069	3/24/97	3.50	0.72		pCi/g	3.45	0.72	-	pCi/g	

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								Laboratory Data				Validation Data				
CU Name	CU Type	Parameter	Sample ID	Suffix	Northing	Easting	Sample Date	Lab Result	TPU	Qualifier	Units	Val. Result	TPU	Qualifier	Units	Duplicate of
Q20-20	R	Uranium-238	Q20-20C2-R-3	NONE	483837	1351676	3/24/97	0.50	0.25		pCi/g	0.50	0.25	J	pCi/g	
Q20-30	R	Moisture Content	Q20-30C-1-R	NONE	484205.76	1351149	2/25/97	31.00			Percent			NV	Percent	
Q20-30	R	Moisture Content	Q20-30C-1-R-D	NONE	484205.76	1351149	2/25/97	29.60			Percent			NV	Percent	Q20-30C-1-R
Q20-30	R	Moisture Content	Q20-30C-10-R	NONE	484253	1351776	2/25/97	20.33			Percent			NV	Percent	
Q20-30	R	Moisture Content	Q20-30C-11-R	NONE	484340	1351477	2/25/97	24.40			Percent			NV	Percent	
Q20-30	R	Moisture Content	Q20-30C-12-R	NONE	484324	1351574	2/25/97	24.05			Percent			NV	Percent	
Q20-30	R	Moisture Content	Q20-30C-13-R	NONE	484369	1351799	2/25/97	18.49			Percent			NV	Percent	
Q20-30	R	Moisture Content	Q20-30C-14-R	NONE	484400	1351640	2/25/97	22.92			Percent			NV	Percent	
Q20-30	R	Moisture Content	Q20-30C-15-R	NONE	484369	1351714	2/25/97	21.06			Percent			NV	Percent	
Q20-30	R	Moisture Content	Q20-30C-3-R	NONE	484221	1351252	2/25/97	27.30			Percent			NV	Percent	
Q20-30	R	Moisture Content	Q20-30C-4-R	NONE	484210	1351333	2/25/97	28.10			Percent			NV	Percent	
Q20-30	R	Moisture Content	Q20-30C-5-R	NONE	484247	1351560	2/25/97	29.10			Percent			NV	Percent	
Q20-30	R	Moisture Content	Q20-30C-8-R	NONE	484302	1351484	2/25/97	29.50			Percent			NV	Percent	
Q20-30	R	Moisture Content	Q20-30C-9-R	NONE	484272	1351569	2/25/97	25.71			Percent			NV	Percent	
Q20-30	R	Moisture Content	Q20-40C-1-R	NONE	484232	1351820	2/25/97	26.70			Percent			NV	Percent	
Q20-30	R	Moisture Content	Q20-40C-10-R	NONE	484437	1351927	2/25/97	29.10			Percent			NV	Percent	
Q20-30	R	Moisture Content	Q20-40C-10-R-D	NONE	484437	1351927	2/25/97	29.00			Percent			NV	Percent	Q20-40C-10-R
Q20-30	R	Moisture Content	Q20-40C-13-R	NONE	484457	1351873	2/25/97	27.10			Percent			NV	Percent	
Q20-30	R	Moisture Content	Q20-40C-14-R	NONE	484532	1351970	2/25/97	28.40			Percent			NV	Percent	
Q20-30	R	Moisture Content	Q20-40C-9-R	NONE	484398	1351857	2/25/97	28.60			Percent			NV	Percent	
Q20-30	R	Radium-226	Q20-30C-1-R	NONE	484205.76	1351149	2/25/97	1.20	0.16		pCi/g	1.17	0.16	-	pCi/g	
Q20-30	R	Radium-226	Q20-30C-1-R-D	NONE	484205.76	1351149	2/25/97	1.20	0.16		pCi/g	1.18	0.16	-	pCi/g	Q20-30C-1-R
Q20-30	R	Radium-226	Q20-30C-10-R	NONE	484253	1351776	2/25/97	1.10	0.19		pCi/g	1.14	0.19	-	pCi/g	
Q20-30	R	Radium-226	Q20-30C-11-R	NONE	484340	1351477	2/25/97	1.10	0.14		pCi/g	1.11	0.14	-	pCi/g	
Q20-30	R	Radium-226	Q20-30C-12-R	NONE	484324	1351574	2/25/97	1.20	0.20		pCi/g	1.21	0.20	-	pCi/g	
Q20-30	R	Radium-226	Q20-30C-13-R	NONE	484369	1351799	2/25/97	0.88	0.19		pCi/g	0.88	0.19	-	pCi/g	
Q20-30	R	Radium-226	Q20-30C-14-R	NONE	484400	1351640	2/25/97	0.80	0.16		pCi/g	0.80	0.16	-	pCi/g	
Q20-30	R	Radium-226	Q20-30C-15-R	NONE	484369	1351714	2/25/97	1.10	0.18		pCi/g	1.10	0.18	-	pCi/g	
Q20-30	R	Radium-226	Q20-30C-3-R	NONE	484221	1351252	2/25/97	1.20	0.18		pCi/g	1.22	0.18	-	pCi/g	
Q20-30	R	Radium-226	Q20-30C-4-R	NONE	484210	1351333	2/25/97	1.30	0.17		pCi/g	1.29	0.17	-	pCi/g	
Q20-30	R	Radium-226	Q20-30C-5-R	NONE	484247	1351560	2/25/97	1.30	0.18		pCi/g	1.29	0.18	-	pCi/g	
Q20-30	R	Radium-226	Q20-30C-8-R	NONE	484302	1351484	2/25/97	0.89	0.11		pCi/g	0.89	0.11	-	pCi/g	
Q20-30	R	Radium-226	Q20-30C-9-R	NONE	484272	1351569	2/25/97	1.10	0.19		pCi/g	1.14	0.19	-	pCi/g	
Q20-30	R	Radium-226	Q20-40C-1-R	NONE	484232	1351820	2/25/97	1.40	0.18		pCi/g	1.40	0.18	-	pCi/g	
Q20-30	R	Radium-226	Q20-40C-10-R	NONE	484437	1351927	2/25/97	1.10	0.17		pCi/g	1.10	0.17	-	pCi/g	
Q20-30	R	Radium-226	Q20-40C-10-R-D	NONE	484437	1351927	2/25/97	1.10	0.15		pCi/g	1.10	0.15	-	pCi/g	Q20-40C-10-R
Q20-30	R	Radium-226	Q20-40C-13-R	NONE	484457	1351873	2/25/97	1.30	0.19		pCi/g	1.30	0.19	-	pCi/g	
Q20-30	R	Radium-226	Q20-40C-14-R	NONE	484532	1351970	2/25/97	1.00	0.17		pCi/g	1.00	0.17	-	pCi/g	
Q20-30	R	Radium-226	Q20-40C-9-R	NONE	484398	1351857	2/25/97	1.20	0.14		pCi/g	1.20	0.14	-	pCi/g	

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							Laboratory Data				Validation Data				
CU Name	CU Type	Parameter	Sample ID	Suffix	Northing	Easting	Sample Date	Lab Result	TPU	Qualifier	Units	Val. Result	TPU	Qualifier	Units	Duplicate of
Q20-30	R	Radium-228	Q20-30C-1-R	NONE	484205.76	1351149	2/25/97	1.30	0.35		pCi/g	1.27	0.35	-	pCi/g	
Q20-30	R	Radium-228	Q20-30C-1-R-D	NONE	484205.76	1351149	2/25/97	1.20	0.34		pCi/g	1.25	0.34	-	pCi/g	Q20-30C-1-R
Q20-30	R	Radium-228	Q20-30C-10-R	NONE	484253	1351776	2/25/97	1.10	0.30		pCi/g	1.12	0.30	-	pCi/g	
Q20-30	R	Radium-228	Q20-30C-11-R	NONE	484340	1351477	2/25/97	1.10	0.32		pCi/g	1.14	0.32	-	pCi/g	
Q20-30	R	Radium-228	Q20-30C-12-R	NONE	484324	1351574	2/25/97	1.30	0.33		pCi/g	1.33	0.33	-	pCi/g	
Q20-30	R	Radium-228	Q20-30C-13-R	NONE	484369	1351799	2/25/97	1.10	0.27		pCi/g	1.11	0.27	-	pCi/g	
Q20-30	R	Radium-228	Q20-30C-14-R	NONE	484400	1351640	2/25/97	1.20	0.29		pCi/g	1.18	0.29	-	pCi/g	
Q20-30	R	Radium-228	Q20-30C-15-R	NONE	484369	1351714	2/25/97	1.20	0.30		pCi/g	1.24	0.30	-	pCi/g	
Q20-30	R	Radium-228	Q20-30C-3-R	NONE	484221	1351252	2/25/97	1.20	0.37		pCi/g	1.18	0.37	-	pCi/g	
Q20-30	R	Radium-228	Q20-30C-4-R	NONE	484210	1351333	2/25/97	1.40	0.35		pCi/g	1.37	0.35	-	pCi/g	
Q20-30	R	Radium-228	Q20-30C-5-R	NONE	484247	1351560	2/25/97	1.50	0.44		pCi/g	1.47	0.44	-	pCi/g	
Q20-30	R	Radium-228	Q20-30C-8-R	NONE	484302	1351484	2/25/97	0.95	0.25		pCi/g	0.95	0.25	-	pCi/g	
Q20-30	R	Radium-228	Q20-30C-9-R	NONE	484272	1351569	2/25/97	1.40	0.32		pCi/g	1.42	0.32	-	pCi/g	
Q20-30	R	Radium-228	Q20-40C-1-R	NONE	484232	1351820	2/25/97	1.50	0.39		pCi/g	1.50	0.39	-	pCi/g	
Q20-30	R	Radium-228	Q20-40C-10-R	NONE	484437	1351927	2/25/97	1.25	0.40		pCi/g	1.25	0.40	-	pCi/g	
Q20-30	R	Radium-228	Q20-40C-10-R-D	NONE	484437	1351927	2/25/97	1.50	0.40		pCi/g	1.50	0.40	-	pCi/g	Q20-40C-10-R
Q20-30	R	Radium-228	Q20-40C-13-R	NONE	484457	1351873	2/25/97	1.40	0.39		pCi/g	1.40	0.39	-	pCi/g	
Q20-30	R	Radium-228	Q20-40C-14-R	NONE	484532	1351970	2/25/97	1.30	0.38		pCi/g	1.30	0.38	-	pCi/g	
Q20-30	R	Radium-228	Q20-40C-9-R	NONE	484398	1351857	2/25/97	1.30	0.35		pCi/g	1.30	0.35	-	pCi/g	
Q20-30	R	Thorium-228	Q20-30C-1-R	NONE	484205.76	1351149	2/25/97	1.50	0.56		pCi/g	1.33	0.50	-	pCi/g	
Q20-30	R	Thorium-228	Q20-30C-1-R-D	NONE	484205.76	1351149	2/25/97	1.40	0.61		pCi/g	1.44	0.61	-	pCi/g	Q20-30C-1-R
Q20-30	R	Thorium-228	Q20-30C-10-R	NONE	484253	1351776	2/25/97	1.10	0.27		pCi/g	1.15	0.24	-	pCi/g	
Q20-30	R	Thorium-228	Q20-30C-11-R	NONE	484340	1351477	2/25/97	1.10	0.41		pCi/g	1.08	0.41	J	pCi/g	
Q20-30	R	Thorium-228	Q20-30C-12-R	NONE	484324	1351574	2/25/97	1.40	0.34		pCi/g	1.44	0.31	-	pCi/g	
Q20-30	R	Thorium-228	Q20-30C-13-R	NONE	484369	1351799	2/25/97	0.78	0.23		pCi/g	0.80	0.19	-	pCi/g	
Q20-30	R	Thorium-228	Q20-30C-14-R	NONE	484400	1351640	2/25/97	1.10	0.29		pCi/g	1.16	0.26	-	pCi/g	
Q20-30	R	Thorium-228	Q20-30C-15-R	NONE	484369	1351714	2/25/97	1.20	0.30		pCi/g	1.26	0.28	-	pCi/g	
Q20-30	R	Thorium-228	Q20-30C-3-R	NONE	484221	1351252	2/25/97	1.50	0.57		pCi/g	1.51	0.57	-	pCi/g	
Q20-30	R	Thorium-228	Q20-30C-4-R	NONE	484210	1351333	2/25/97	1.60	0.56		pCi/g	1.57	0.56	-	pCi/g	
Q20-30	R	Thorium-228	Q20-30C-5-R	NONE	484247	1351560	2/25/97	1.50	0.54		pCi/g	1.52	0.54	-	pCi/g	
Q20-30	R	Thorium-228	Q20-30C-8-R	NONE	484302	1351484	2/25/97	1.50	0.50		pCi/g	1.51	0.50	-	pCi/g	
Q20-30	R	Thorium-228	Q20-30C-9-R	NONE	484272	1351569	2/25/97	1.40	0.34		pCi/g	1.40	0.31	-	pCi/g	
Q20-30	R	Thorium-228	Q20-40C-1-R	NONE	484232	1351820	2/25/97	1.65	0.62		pCi/g	1.65	0.62	-	pCi/g	
Q20-30	R	Thorium-228	Q20-40C-10-R	NONE	484437	1351927	2/25/97	1.80	0.68		pCi/g	1.80	0.68	-	pCi/g	
Q20-30	R	Thorium-228	Q20-40C-10-R-D	NONE	484437	1351927	2/25/97	1.40	0.54		pCi/g	1.40	0.54	J	pCi/g	Q20-40C-10-R
Q20-30	R	Thorium-228	Q20-40C-13-R	NONE	484457	1351873	2/25/97	1.70	0.61		pCi/g	1.70	0.61	-	pCi/g	
Q20-30	R	Thorium-228	Q20-40C-14-R	NONE	484532	1351970	2/25/97	1.40	0.56		pCi/g	1.40	0.56	J	pCi/g	
Q20-30	R	Thorium-228	Q20-40C-9-R	NONE	484398	1351857	2/25/97	1.50	0.56		pCi/g	1.50	0.56	-	pCi/g	
Q20-30	R	Thorium-232	Q20-30C-1-R	NONE	484205.76	1351149	2/25/97	1.20	0.46		pCi/g	1.21	0.46	-	pCi/g	
Q20-30	R	Thorium-232	Q20-30C-1-R-D	NONE	484205.76	1351149	2/25/97	1.40	0.60		pCi/g	1.41	0.60	-	pCi/g	Q20-30C-1-R

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								Laboratory Data				Validation Data				
CU Name	CU Type	Parameter	Sample ID	Suffix	Northing	Easting	Sample Date	Lab Result	TPU	Qualifier	Units	Val. Result	TPU	Qualifier	Units	Duplicate of
Q20-30	R	Thorium-232	Q20-30C-10-R	NONE	484253	1351776	2/25/97	1.00	0.22		pCi/g	1.02	0.22	-	pCi/g	
Q20-30	R	Thorium-232	Q20-30C-11-R	NONE	484340	1351477	2/25/97	0.96	0.36		pCi/g	0.96	0.36	J	pCi/g	
Q20-30	R	Thorium-232	Q20-30C-12-R	NONE	484324	1351574	2/25/97	1.30	0.29		pCi/g	1.33	0.29	-	pCi/g	
Q20-30	R	Thorium-232	Q20-30C-13-R	NONE	484369	1351799	2/25/97	0.85	0.19		pCi/g	0.85	0.19	-	pCi/g	
Q20-30	R	Thorium-232	Q20-30C-14-R	NONE	484400	1351640	2/25/97	1.10	0.24		pCi/g	1.08	0.24	-	pCi/g	
Q20-30	R	Thorium-232	Q20-30C-15-R	NONE	484369	1351714	2/25/97	1.10	0.24		pCi/g	1.14	0.24	-	pCi/g	
Q20-30	R	Thorium-232	Q20-30C-3-R	NONE	484221	1351252	2/25/97	1.30	0.48		pCi/g	1.26	0.48	-	pCi/g	
Q20-30	R	Thorium-232	Q20-30C-4-R	NONE	484210	1351333	2/25/97	1.40	0.50		pCi/g	1.40	0.50	-	pCi/g	
Q20-30	R	Thorium-232	Q20-30C-5-R	NONE	484247	1351560	2/25/97	1.30	0.46		pCi/g	1.27	0.46	-	pCi/g	
Q20-30	R	Thorium-232	Q20-30C-8-R	NONE	484302	1351484	2/25/97	1.40	0.47		pCi/g	1.40	0.47	-	pCi/g	
Q20-30	R	Thorium-232	Q20-30C-9-R	NONE	484272	1351569	2/25/97	0.95	0.22		pCi/g	0.95	0.22	-	pCi/g	
Q20-30	R	Thorium-232	Q20-40C-1-R	NONE	484232	1351820	2/25/97	1.30	0.51		pCi/g	1.30	0.51	-	pCi/g	
Q20-30	R	Thorium-232	Q20-40C-10-R	NONE	484437	1351927	2/25/97	1.50	0.58		pCi/g	1.50	0.58	-	pCi/g	
Q20-30	R	Thorium-232	Q20-40C-10-R-D	NONE	484437	1351927	2/25/97	1.30	0.49		pCi/g	1.30	0.49	J	pCi/g	Q20-40C-10-R
Q20-30	R	Thorium-232	Q20-40C-13-R	NONE	484457	1351873	2/25/97	1.30	0.46		pCi/g	1.30	0.46	-	pCi/g	
Q20-30	R	Thorium-232	Q20-40C-14-R	NONE	484532	1351970	2/25/97	1.30	0.51		pCi/g	1.30	0.51	J	pCi/g	
Q20-30	R	Thorium-232	Q20-40C-9-R	NONE	484398	1351857	2/25/97	1.30	0.48		pCi/g	1.30	0.48	-	pCi/g	
Q20-30	R	Uranium, Total	Q20-30C-1-R	NONE	484205.76	1351149	2/25/97				ug/g	9.98	2.59	J	ug/g	
Q20-30	R	Uranium, Total	Q20-30C-1-R-D	NONE	484205.76	1351149	2/25/97				ug/g	6.39	1.55	J	ug/g	Q20-30C-1-R
Q20-30	R	Uranium, Total	Q20-30C-10-R	NONE	484253	1351776	2/25/97				ug/g	13.13	5.22	-	ug/g	
Q20-30	R	Uranium, Total	Q20-30C-11-R	NONE	484340	1351477	2/25/97				ug/g	5.50	1.35	-	ug/g	
Q20-30	R	Uranium, Total	Q20-30C-12-R	NONE	484324	1351574	2/25/97				ug/g	15.84	5.60	-	ug/g	
Q20-30	R	Uranium, Total	Q20-30C-13-R	NONE	484369	1351799	2/25/97				ug/g	13.88	6.14	-	ug/g	
Q20-30	R	Uranium, Total	Q20-30C-14-R	NONE	484400	1351640	2/25/97				ug/g	10.05	5.34	J	ug/g	
Q20-30	R	Uranium, Total	Q20-30C-15-R	NONE	484369	1351714	2/25/97				ug/g	15.46	5.77	-	ug/g	
Q20-30	R	Uranium, Total	Q20-30C-3-R	NONE	484221	1351252	2/25/97				ug/g	11.04	2.72	-	ug/g	
Q20-30	R	Uranium, Total	Q20-30C-4-R	NONE	484210	1351333	2/25/97				ug/g	6.95	1.47	-	ug/g	
Q20-30	R	Uranium, Total	Q20-30C-5-R	NONE	484247	1351560	2/25/97				ug/g	13.01	2.49	-	ug/g	
Q20-30	R	Uranium, Total	Q20-30C-8-R	NONE	484302	1351484	2/25/97				ug/g	8.31	1.89	-	ug/g	
Q20-30	R	Uranium, Total	Q20-30C-9-R	NONE	484272	1351569	2/25/97				ug/g	12.94	5.46	-	ug/g	
Q20-30	R	Uranium, Total	Q20-40C-1-R	NONE	484232	1351820	2/25/97				ug/g	7.20	1.41	-	ug/g	
Q20-30	R	Uranium, Total	Q20-40C-10-R	NONE	484437	1351927	2/25/97				ug/g	11.99	2.88	-	ug/g	
Q20-30	R	Uranium, Total	Q20-40C-10-R-D	NONE	484437	1351927	2/25/97				ug/g	9.60	2.46	-	ug/g	Q20-40C-10-R
Q20-30	R	Uranium, Total	Q20-40C-13-R	NONE	484457	1351873	2/25/97				ug/g	10.20	2.55	-	ug/g	
Q20-30	R	Uranium, Total	Q20-40C-14-R	NONE	484532	1351970	2/25/97				ug/g	7.50	2.91	-	ug/g	
Q20-30	R	Uranium, Total	Q20-40C-9-R	NONE	484398	1351857	2/25/97				ug/g	6.60	1.53	-	ug/g	
Q20-30	R	Uranium-238	Q20-30C-1-R	NONE	484205.76	1351149	2/25/97	3.30	0.86		pCi/g	3.30	0.86	J	pCi/g	
Q20-30	R	Uranium-238	Q20-30C-1-R-D	NONE	484205.76	1351149	2/25/97	2.10	0.74		pCi/g	2.13	0.52	J	pCi/g	Q20-30C-1-R
Q20-30	R	Uranium-238	Q20-30C-10-R	NONE	484253	1351776	2/25/97	4.40	1.70		pCi/g	4.38	1.74	-	pCi/g	
Q20-30	R	Uranium-238	Q20-30C-11-R	NONE	484340	1351477	2/25/97	1.80	0.45		pCi/g	1.83	0.45	-	pCi/g	

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								Laboratory Data				Validation Data				
CU Name	CU Type	Parameter	Sample ID	Suffix	Northing	Easting	Sample Date	Lab Result	TPU	Qualifier	Units	Val. Result	TPU	Qualifier	Units	Duplicate of
Q20-30	R	Uranium-238	Q20-30C-12-R	NONE	484324	1351574	2/25/97	5.30	1.90		pCi/g	5.28	1.87	-	pCi/g	
Q20-30	R	Uranium-238	Q20-30C-13-R	NONE	484369	1351799	2/25/97	4.60	2.10		pCi/g	4.63	2.05	-	pCi/g	
Q20-30	R	Uranium-238	Q20-30C-14-R	NONE	484400	1351640	2/25/97	3.40	1.80		pCi/g	3.35	1.78	J	pCi/g	
Q20-30	R	Uranium-238	Q20-30C-15-R	NONE	484369	1351714	2/25/97	5.20	1.90		pCi/g	5.16	1.92	-	pCi/g	
Q20-30	R	Uranium-238	Q20-30C-3-R	NONE	484221	1351252	2/25/97	3.70	0.91		pCi/g	3.68	0.91	-	pCi/g	
Q20-30	R	Uranium-238	Q20-30C-4-R	NONE	484210	1351333	2/25/97	2.30	0.49		pCi/g	2.32	0.49	-	pCi/g	
Q20-30	R	Uranium-238	Q20-30C-5-R	NONE	484247	1351560	2/25/97	4.30	0.83		pCi/g	4.34	0.83	-	pCi/g	
Q20-30	R	Uranium-238	Q20-30C-8-R	NONE	484302	1351484	2/25/97	2.80	0.95		pCi/g	2.77	0.64	-	pCi/g	
Q20-30	R	Uranium-238	Q20-30C-9-R	NONE	484272	1351569	2/25/97	4.30	1.80		pCi/g	4.32	1.82	-	pCi/g	
Q20-30	R	Uranium-238	Q20-40C-1-R	NONE	484232	1351820	2/25/97	2.40	0.47		pCi/g	2.40	0.47	-	pCi/g	
Q20-30	R	Uranium-238	Q20-40C-10-R	NONE	484437	1351927	2/25/97	4.00	0.96		pCi/g	4.00	0.96	-	pCi/g	
Q20-30	R	Uranium-238	Q20-40C-10-R-D	NONE	484437	1351927	2/25/97	3.20	0.82		pCi/g	3.20	0.82	-	pCi/g	Q20-40C-10-R
Q20-30	R	Uranium-238	Q20-40C-13-R	NONE	484457	1351873	2/25/97	3.40	0.85		pCi/g	3.40	0.85	-	pCi/g	
Q20-30	R	Uranium-238	Q20-40C-14-R	NONE	484532	1351970	2/25/97	2.50	0.97		pCi/g	2.50	0.97	-	pCi/g	
Q20-30	R	Uranium-238	Q20-40C-9-R	NONE	484398	1351857	2/25/97	2.20	0.51		pCi/g	2.20	0.51	-	pCi/g	
Q20-40	R	Moisture Content	Q20-40C-11-R	NONE	484423	1352049	2/25/97	27.00			Percent			NV	Percent	
Q20-40	R	Moisture Content	Q20-40C-12-R	NONE	484453	1352091	2/25/97	27.80			Percent			NV	Percent	
Q20-40	R	Moisture Content	Q20-40C-2-R	NONE	484260	1351930	2/25/97	27.00			Percent			NV	Percent	
Q20-40	R	Moisture Content	Q20-40C-4-R	NONE	484219	1352061	2/25/97	33.50			Percent			NV	Percent	
Q20-40	R	Moisture Content	Q20-40C-7-R	NONE	484347	1352038	2/25/97	26.00			Percent			NV	Percent	
Q20-40	R	Moisture Content	Q20-40C2-11-R	NONE	484371	1352087	3/4/97	26.70			Percent			NV	Percent	
Q20-40	R	Moisture Content	Q20-40C2-12-R	NONE	484341	1352111	3/4/97	27.10			Percent			NV	Percent	
Q20-40	R	Moisture Content	Q20-40C2-12-R-D	NONE	484341	1352111	3/4/97	28.30			Percent			NV	Percent	Q20-40C2-12-R
Q20-40	R	Moisture Content	Q20-40C2-15-RV	NONE	484490	1352124	3/4/97	26.70			Percent			NV	Percent	
Q20-40	R	Moisture Content	Q20-40C2-16-R	NONE	484525	1352127	3/4/97	25.50			Percent			NV	Percent	
Q20-40	R	Moisture Content	Q20-40C2-2-R	NONE	484230	1351945	3/4/97	29.80			Percent			NV	Percent	
Q20-40	R	Moisture Content	Q20-40C2-3-R	NONE	484266	1351990	3/4/97	28.50			Percent			NV	Percent	
Q20-40	R	Moisture Content	Q20-40C2-6-R	NONE	484220	1352096	3/4/97	30.80			Percent			NV	Percent	
Q20-40	R	Moisture Content	Q20-40C2-7-RV	NONE	484241	1352108	3/4/97	28.60			Percent			NV	Percent	
Q20-40	R	Moisture Content	Q20-40C2-8-R	NONE	484314	1351975	3/4/97	30.50			Percent			NV	Percent	
Q20-40	R	Radium-226	Q20-40C-11-R	NONE	484423	1352049	2/25/97	1.40	0.18		pCi/g	1.40	0.18	-	pCi/g	
Q20-40	R	Radium-226	Q20-40C-12-R	NONE	484453	1352091	2/25/97	0.74	0.09		pCi/g	0.74	0.09	-	pCi/g	
Q20-40	R	Radium-226	Q20-40C-2-R	NONE	484260	1351930	2/25/97	1.20	0.15		pCi/g	1.20	0.15	-	pCi/g	
Q20-40	R	Radium-226	Q20-40C-4-R	NONE	484219	1352061	2/25/97	1.30	0.16		pCi/g	1.30	0.16	-	pCi/g	
Q20-40	R	Radium-226	Q20-40C-7-R	NONE	484347	1352038	2/25/97	1.30	0.18		pCi/g	1.30	0.18	-	pCi/g	
Q20-40	R	Radium-226	Q20-40C2-11-R	NONE	484371	1352087	3/4/97	1.50	0.18		pCi/g	1.54	0.18	-	pCi/g	
Q20-40	R	Radium-226	Q20-40C2-12-R	NONE	484341	1352111	3/4/97	1.60	0.17		pCi/g	1.64	0.17	-	pCi/g	
Q20-40	R	Radium-226	Q20-40C2-12-R-D	NONE	484341	1352111	3/4/97	1.40	0.17		pCi/g	1.43	0.17	-	pCi/g	Q20-40C2-12-R
Q20-40	R	Radium-226	Q20-40C2-15-RV	NONE	484490	1352124	3/4/97	1.20	0.16		pCi/g	1.22	0.16	-	pCi/g	

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							Laboratory Data				Validation Data				
CU Name	CU Type	Parameter	Sample ID	Suffix	Northing	Easting	Sample Date	Lab Result	TPU	Qualifier	Units	Val. Result	TPU	Qualifier	Units	Duplicate of
Q20-40	R	Radium-226	Q20-40C2-16-R	NONE	484525	1352127	3/4/97	1.50	0.17		pCi/g	1.47	0.17	-	pCi/g	
Q20-40	R	Radium-226	Q20-40C2-2-R	RE	484230	1351945	3/4/97	1.42	0.17		pCi/g	1.42	0.17	Z	pCi/g	
Q20-40	R	Radium-226	Q20-40C2-2-R	NONE	484230	1351945	3/4/97	1.50	0.15		pCi/g	1.42	0.17	Z	pCi/g	
Q20-40	R	Radium-226	Q20-40C2-3-R	NONE	484266	1351990	3/4/97	1.20	0.16		pCi/g	1.25	0.16	-	pCi/g	
Q20-40	R	Radium-226	Q20-40C2-6-R	NONE	484220	1352096	3/4/97	1.60	0.16		pCi/g	1.55	0.16	-	pCi/g	
Q20-40	R	Radium-226	Q20-40C2-7-RV	NONE	484241	1352108	3/4/97	1.30	0.16		pCi/g	1.33	0.17	-	pCi/g	
Q20-40	R	Radium-226	Q20-40C2-8-R	NONE	484314	1351975	3/4/97	1.30	0.19		pCi/g	1.34	0.19	-	pCi/g	
Q20-40	R	Radium-228	Q20-40C-11-R	NONE	484423	1352049	2/25/97	1.30	0.39		pCi/g	1.30	0.39	-	pCi/g	
Q20-40	R	Radium-228	Q20-40C-12-R	NONE	484453	1352091	2/25/97	0.77	0.20		pCi/g	0.77	0.20	-	pCi/g	
Q20-40	R	Radium-228	Q20-40C-2-R	NONE	484260	1351930	2/25/97	1.10	0.32		pCi/g	1.10	0.32	-	pCi/g	
Q20-40	R	Radium-228	Q20-40C-4-R	NONE	484219	1352061	2/25/97	1.20	0.32		pCi/g	1.20	0.32	-	pCi/g	
Q20-40	R	Radium-228	Q20-40C-7-R	NONE	484347	1352038	2/25/97	1.46	0.39		pCi/g	1.46	0.39	-	pCi/g	
Q20-40	R	Radium-228	Q20-40C2-11-R	NONE	484371	1352087	3/4/97	1.20	0.38		pCi/g	1.24	0.38	-	pCi/g	
Q20-40	R	Radium-228	Q20-40C2-12-R	NONE	484341	1352111	3/4/97	1.30	0.34		pCi/g	1.31	0.34	-	pCi/g	
Q20-40	R	Radium-228	Q20-40C2-12-R-D	NONE	484341	1352111	3/4/97	1.10	0.30		pCi/g	1.14	0.30	-	pCi/g	Q20-40C2-12-R
Q20-40	R	Radium-228	Q20-40C2-15-RV	NONE	484490	1352124	3/4/97	1.20	0.33		pCi/g	1.21	0.33	-	pCi/g	
Q20-40	R	Radium-228	Q20-40C2-16-R	NONE	484525	1352127	3/4/97	1.20	0.38		pCi/g	1.20	0.38	-	pCi/g	
Q20-40	R	Radium-228	Q20-40C2-2-R	NONE	484230	1351945	3/4/97	1.40	0.36		pCi/g	1.46	0.39	Z	pCi/g	
Q20-40	R	Radium-228	Q20-40C2-2-R	RE	484230	1351945	3/4/97	1.46	0.39		pCi/g	1.46	0.39	Z	pCi/g	
Q20-40	R	Radium-228	Q20-40C2-3-R	NONE	484266	1351990	3/4/97	1.30	0.38		pCi/g	1.32	0.38	-	pCi/g	
Q20-40	R	Radium-228	Q20-40C2-6-R	NONE	484220	1352096	3/4/97	1.40	0.36		pCi/g	1.40	0.36	-	pCi/g	
Q20-40	R	Radium-228	Q20-40C2-7-RV	NONE	484241	1352108	3/4/97	1.40	0.40		pCi/g	1.45	0.40	-	pCi/g	
Q20-40	R	Radium-228	Q20-40C2-8-R	NONE	484314	1351975	3/4/97	1.10	0.31		pCi/g	1.15	0.31	-	pCi/g	
Q20-40	R	Thorium-228	Q20-40C-11-R	NONE	484423	1352049	2/25/97	1.50	0.64		pCi/g	1.50	0.64	-	pCi/g	
Q20-40	R	Thorium-228	Q20-40C-12-R	NONE	484453	1352091	2/25/97	1.40	0.62		pCi/g	1.40	0.62	-	pCi/g	
Q20-40	R	Thorium-228	Q20-40C-2-R	NONE	484260	1351930	2/25/97	1.30	0.60		pCi/g	1.30	0.60	J	pCi/g	
Q20-40	R	Thorium-228	Q20-40C-4-R	NONE	484219	1352061	2/25/97	1.50	0.60		pCi/g	1.50	0.60	-	pCi/g	
Q20-40	R	Thorium-228	Q20-40C-7-R	NONE	484347	1352038	2/25/97	1.40	0.53		pCi/g	1.40	0.53	-	pCi/g	
Q20-40	R	Thorium-228	Q20-40C2-11-R	NONE	484371	1352087	3/4/97	1.60	0.58		pCi/g	1.59	0.58	J	pCi/g	
Q20-40	R	Thorium-228	Q20-40C2-12-R	NONE	484341	1352111	3/4/97	1.40	0.51		pCi/g	1.44	0.51	J	pCi/g	
Q20-40	R	Thorium-228	Q20-40C2-12-R-D	NONE	484341	1352111	3/4/97	1.50	0.57		pCi/g	1.52	0.57	J	pCi/g	Q20-40C2-12-R
Q20-40	R	Thorium-228	Q20-40C2-15-RV	NONE	484490	1352124	3/4/97	1.10	0.42		pCi/g	1.11	0.42	J	pCi/g	
Q20-40	R	Thorium-228	Q20-40C2-16-R	NONE	484525	1352127	3/4/97	1.50	0.65		pCi/g	1.53	0.65	J	pCi/g	
Q20-40	R	Thorium-228	Q20-40C2-2-R	NONE	484230	1351945	3/4/97	1.70	0.72		pCi/g	1.73	0.72	J	pCi/g	
Q20-40	R	Thorium-228	Q20-40C2-3-R	NONE	484266	1351990	3/4/97	1.70	0.74		pCi/g	1.66	0.74	J	pCi/g	
Q20-40	R	Thorium-228	Q20-40C2-6-R	NONE	484220	1352096	3/4/97	1.70	0.64		pCi/g	1.69	0.64	J	pCi/g	
Q20-40	R	Thorium-228	Q20-40C2-7-RV	NONE	484241	1352108	3/4/97	1.50	0.57		pCi/g	1.46	0.57	-	pCi/g	
Q20-40	R	Thorium-228	Q20-40C2-8-R	NONE	484314	1351975	3/4/97	1.50	0.60		pCi/g	1.47	0.60	J	pCi/g	
Q20-40	R	Thorium-232	Q20-40C-11-R	NONE	484423	1352049	2/25/97	1.30	0.53		pCi/g	1.30	0.53	-	pCi/g	
Q20-40	R	Thorium-232	Q20-40C-12-R	NONE	484453	1352091	2/25/97	1.30	0.56		pCi/g	1.30	0.56	-	pCi/g	

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								Laboratory Data				Validation Data				
CU Name	CU Type	Parameter	Sample ID	Suffix	Northing	Easting	Sample Date	Lab Result	TPU	Qualifier	Units	Val. Result	TPU	Qualifier	Units	Duplicate of
Q20-40	R	Thorium-232	Q20-40C-2-R	NONE	484260	1351930	2/25/97	1.10	0.52		pCi/g	1.10	0.52	J	pCi/g	
Q20-40	R	Thorium-232	Q20-40C-4-R	NONE	484219	1352061	2/25/97	1.20	0.51		pCi/g	1.20	0.51	-	pCi/g	
Q20-40	R	Thorium-232	Q20-40C-7-R	NONE	484347	1352038	2/25/97	1.40	0.52		pCi/g	1.40	0.52	-	pCi/g	
Q20-40	R	Thorium-232	Q20-40C2-11-R	NONE	484371	1352087	3/4/97	1.40	0.51		pCi/g	1.39	0.51	J	pCi/g	
Q20-40	R	Thorium-232	Q20-40C2-12-R	NONE	484341	1352111	3/4/97	1.10	0.40		pCi/g	1.12	0.41	-	pCi/g	
Q20-40	R	Thorium-232	Q20-40C2-12-R-D	NONE	484341	1352111	3/4/97	1.20	0.46		pCi/g	1.23	0.46	J	pCi/g	Q20-40C2-12-R
Q20-40	R	Thorium-232	Q20-40C2-15-RV	NONE	484490	1352124	3/4/97	0.98	0.37		pCi/g	0.98	0.37	J	pCi/g	
Q20-40	R	Thorium-232	Q20-40C2-16-R	NONE	484525	1352127	3/4/97	1.30	0.54		pCi/g	1.25	0.54	-	pCi/g	
Q20-40	R	Thorium-232	Q20-40C2-2-R	NONE	484230	1351945	3/4/97	1.40	0.58		pCi/g	1.41	0.58	J	pCi/g	
Q20-40	R	Thorium-232	Q20-40C2-3-R	NONE	484266	1351990	3/4/97	1.20	0.56		pCi/g	1.24	0.56	J	pCi/g	
Q20-40	R	Thorium-232	Q20-40C2-6-R	NONE	484220	1352096	3/4/97	1.40	0.52		pCi/g	1.36	0.52	J	pCi/g	
Q20-40	R	Thorium-232	Q20-40C2-7-RV	NONE	484241	1352108	3/4/97	1.30	0.50		pCi/g	1.28	0.50	-	pCi/g	
Q20-40	R	Thorium-232	Q20-40C2-8-R	NONE	484314	1351975	3/4/97	1.30	0.51		pCi/g	1.26	0.51	-	pCi/g	
Q20-40	R	Uranium, Total	Q20-40C-11-R	NONE	484423	1352049	2/25/97				ug/g	11.69	2.94	-	ug/g	
Q20-40	R	Uranium, Total	Q20-40C-12-R	NONE	484453	1352091	2/25/97				ug/g	9.60	2.16	-	ug/g	
Q20-40	R	Uranium, Total	Q20-40C-2-R	NONE	484260	1351930	2/25/97				ug/g	7.20	1.92	-	ug/g	
Q20-40	R	Uranium, Total	Q20-40C-4-R	NONE	484219	1352061	2/25/97				ug/g	5.40	1.62	-	ug/g	
Q20-40	R	Uranium, Total	Q20-40C-7-R	NONE	484347	1352038	2/25/97				ug/g	10.80	3.30	-	ug/g	
Q20-40	R	Uranium, Total	Q20-40C2-11-R	NONE	484371	1352087	3/4/97				ug/g	5.33	1.61	-	ug/g	
Q20-40	R	Uranium, Total	Q20-40C2-12-R	NONE	484341	1352111	3/4/97				ug/g	4.89	1.03	J	ug/g	
Q20-40	R	Uranium, Total	Q20-40C2-12-R-D	NONE	484341	1352111	3/4/97				ug/g	12.38	2.98	J	ug/g	Q20-40C2-12-R
Q20-40	R	Uranium, Total	Q20-40C2-15-RV	NONE	484490	1352124	3/4/97				ug/g	13.10	2.54	-	ug/g	
Q20-40	R	Uranium, Total	Q20-40C2-16-R	NONE	484525	1352127	3/4/97				ug/g	6.69	1.89	-	ug/g	
Q20-40	R	Uranium, Total	Q20-40C2-2-R	NONE	484230	1351945	3/4/97				ug/g	8.80	2.60	Z	ug/g	
Q20-40	R	Uranium, Total	Q20-40C2-2-R	RE	484230	1351945	3/4/97				ug/g	8.80	2.60	Z	ug/g	
Q20-40	R	Uranium, Total	Q20-40C2-3-R	NONE	484266	1351990	3/4/97				ug/g	8.67	2.62	-	ug/g	
Q20-40	R	Uranium, Total	Q20-40C2-6-R	NONE	484220	1352096	3/4/97				ug/g	2.29		U	ug/g	
Q20-40	R	Uranium, Total	Q20-40C2-7-RV	NONE	484241	1352108	3/4/97				ug/g	10.21	2.81	-	ug/g	
Q20-40	R	Uranium, Total	Q20-40C2-8-R	NONE	484314	1351975	3/4/97				ug/g	6.83	2.31	-	ug/g	
Q20-40	R	Uranium-238	Q20-40C-11-R	NONE	484423	1352049	2/25/97	3.90	0.98		pCi/g	3.90	0.98	-	pCi/g	
Q20-40	R	Uranium-238	Q20-40C-12-R	NONE	484453	1352091	2/25/97	3.20	0.72		pCi/g	3.20	0.72	-	pCi/g	
Q20-40	R	Uranium-238	Q20-40C-2-R	NONE	484260	1351930	2/25/97	2.40	0.64		pCi/g	2.40	0.64	-	pCi/g	
Q20-40	R	Uranium-238	Q20-40C-4-R	NONE	484219	1352061	2/25/97	1.80	0.54		pCi/g	1.80	0.54	-	pCi/g	
Q20-40	R	Uranium-238	Q20-40C-7-R	NONE	484347	1352038	2/25/97	3.60	1.10		pCi/g	3.60	1.10	-	pCi/g	
Q20-40	R	Uranium-238	Q20-40C2-11-R	NONE	484371	1352087	3/4/97	1.80	0.54		pCi/g	1.78	0.54	-	pCi/g	
Q20-40	R	Uranium-238	Q20-40C2-12-R	NONE	484341	1352111	3/4/97	1.60	0.34		pCi/g	1.63	0.34	J	pCi/g	
Q20-40	R	Uranium-238	Q20-40C2-12-R-D	NONE	484341	1352111	3/4/97	4.10	1.00		pCi/g	4.13	1.00	J	pCi/g	Q20-40C2-12-R
Q20-40	R	Uranium-238	Q20-40C2-15-RV	NONE	484490	1352124	3/4/97	4.40	0.84		pCi/g	4.37	0.85	-	pCi/g	
Q20-40	R	Uranium-238	Q20-40C2-16-R	NONE	484525	1352127	3/4/97	2.20	0.63		pCi/g	2.23	0.63	-	pCi/g	
Q20-40	R	Uranium-238	Q20-40C2-2-R	NONE	484230	1351945	3/4/97	1.90	0.38		pCi/g	2.93	0.87	Z	pCi/g	

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A1P1 CERTIFICATION REPORT - APPENDIX B

							Laboratory Data					Validation Data				
CU Name	CU Type	Parameter	Sample ID	Suffix	Northing	Easting	Sample Date	Lab Result	TPU	Qualifier	Units	Val. Result	TPU	Qualifier	Units	Duplicate of
Q20-40	R	Uranium-238	Q20-40C2-2-R	RE	484230	1351945	3/4/97	2.93	0.87		pCi/g	2.93	0.87	Z	pCi/g	
Q20-40	R	Uranium-238	Q20-40C2-3-R	NONE	484266	1351990	3/4/97	2.90	0.87		pCi/g	2.89	0.87	-	pCi/g	
Q20-40	R	Uranium-238	Q20-40C2-6-R	NONE	484220	1352096	3/4/97	0.40	0.46	U	pCi/g	0.76		U	pCi/g	
Q20-40	R	Uranium-238	Q20-40C2-7-RV	NONE	484241	1352108	3/4/97	3.40	0.94		pCi/g	3.40	0.94	-	pCi/g	
Q20-40	R	Uranium-238	Q20-40C2-8-R	NONE	484314	1351975	3/4/97	2.30	0.77		pCi/g	2.28	0.77	-	pCi/g	

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A1P1 CERTIFICATION REPORT - APPENDIX B-1 Non-Certification Data

							Laboratory Data				Validation Data				
CU Name	CU Type	Parameter	Sample ID	Suffix	Northing	Easting	Sample Date	Lab Result	TPU	Qualifier	Units	Val. Result	TPU	Qualifier	Units	Duplicate of
A1P1ST-1	R	Thorium-228	A1P1ST1-10C-R	NONE	482766	1351075	3/11/97	0.66	0.08		pCi/g	0.66	0.09	-	pCi/g	
A1P1ST-1	R	Thorium-228	A1P1ST1-11C-R	NONE	482779	1351110	3/11/97	0.94	0.12		pCi/g	0.94	0.12	-	pCi/g	
A1P1ST-1	R	Thorium-228	A1P1ST1-12C-R	NONE	482786	1351160	3/11/97	1.40	0.15		pCi/g	1.40	0.15	-	pCi/g	
A1P1ST-1	R	Thorium-228	A1P1ST1-13C-R	NONE	482810	1351050	3/11/97	1.50	0.16		pCi/g	1.50	0.16	-	pCi/g	
A1P1ST-1	R	Thorium-228	A1P1ST1-13C-R-D	NONE	482810	1351050	3/11/97	1.40	0.15		pCi/g	1.40	0.16	-	pCi/g	A1P1ST1-13C-R
A1P1ST-1	R	Thorium-228	A1P1ST1-14C-R	NONE	482792	1351052	3/11/97	1.20	0.14		pCi/g	1.20	0.14	-	pCi/g	
A1P1ST-1	R	Thorium-228	A1P1ST1-15C-R	NONE	482815	1351122	3/11/97	1.30	0.15		pCi/g	1.30	0.15	-	pCi/g	
A1P1ST-1	R	Thorium-228	A1P1ST1-16C-R	NONE	482806	1351131	3/11/97	1.40	0.16		pCi/g	1.40	0.16	-	pCi/g	
A1P1ST-1	R	Thorium-228	A1P1ST1-2C-R	NONE	482729	1351058	3/12/97	1.10	0.17		pCi/g	1.10	0.17	-	pCi/g	
A1P1ST-1	R	Thorium-228	A1P1ST1-3C-R	NONE	482722	1351092	3/12/97	1.30	0.20		pCi/g	1.27	0.20	-	pCi/g	
A1P1ST-1	R	Thorium-228	A1P1ST1-4C-R	NONE	482702	1351179	3/12/97	1.40	0.19		pCi/g	1.35	0.19	-	pCi/g	
A1P1ST-1	R	Thorium-228	A1P1ST1-5C-R	NONE	482761	1351024	3/11/97	1.50	0.17		pCi/g	1.50	0.17	-	pCi/g	
A1P1ST-1	R	Thorium-228	A1P1ST1-6C-R	NONE	482739	1351045	3/11/97	1.50	0.16		pCi/g	1.50	0.16	-	pCi/g	
A1P1ST-1	R	Thorium-228	A1P1ST1-7C-R	NONE	482751	1351117	3/11/97	1.10	0.13		pCi/g	1.10	0.13	-	pCi/g	
A1P1ST-1	R	Thorium-228	A1P1ST1-8C-R	NONE	482747	1351130	3/11/97	1.40	0.16		pCi/g	1.40	0.16	-	pCi/g	
A1P1ST-1	R	Thorium-228	A1P1ST1-9C-R	NONE	482770	1351023	3/12/97	1.20	0.18		pCi/g	1.19	0.18	-	pCi/g	
A1P1ST-1	R	Thorium-232	A1P1ST1-10C-R	NONE	482766	1351075	3/11/97	0.66	0.09		pCi/g	0.66	0.09	-	pCi/g	
A1P1ST-1	R	Thorium-232	A1P1ST1-11C-R	NONE	482779	1351110	3/11/97	0.94	0.12		pCi/g	0.94	0.12	-	pCi/g	
A1P1ST-1	R	Thorium-232	A1P1ST1-12C-R	NONE	482786	1351160	3/11/97	1.40	0.15		pCi/g	1.40	0.15	-	pCi/g	
A1P1ST-1	R	Thorium-232	A1P1ST1-13C-R	NONE	482810	1351050	3/11/97	1.50	0.16		pCi/g	1.50	0.16	-	pCi/g	
A1P1ST-1	R	Thorium-232	A1P1ST1-13C-R-D	NONE	482810	1351050	3/11/97	1.40	0.16		pCi/g	1.40	0.16	-	pCi/g	A1P1ST1-13C-R
A1P1ST-1	R	Thorium-232	A1P1ST1-14C-R	NONE	482792	1351052	3/11/97	1.20	0.14		pCi/g	1.20	0.14	-	pCi/g	
A1P1ST-1	R	Thorium-232	A1P1ST1-15C-R	NONE	482815	1351122	3/11/97	1.30	0.15		pCi/g	1.30	0.15	-	pCi/g	
A1P1ST-1	R	Thorium-232	A1P1ST1-16C-R	NONE	482806	1351131	3/11/97	1.40	0.16		pCi/g	1.40	0.16	-	pCi/g	
A1P1ST-1	R	Thorium-232	A1P1ST1-2C-R	NONE	482729	1351058	3/12/97	1.10	0.16		pCi/g	1.07	0.16	-	pCi/g	
A1P1ST-1	R	Thorium-232	A1P1ST1-3C-R	NONE	482722	1351092	3/12/97	1.20	0.19		pCi/g	1.24	0.19	-	pCi/g	
A1P1ST-1	R	Thorium-232	A1P1ST1-4C-R	NONE	482702	1351179	3/12/97	1.30	0.18		pCi/g	1.32	0.18	-	pCi/g	
A1P1ST-1	R	Thorium-232	A1P1ST1-5C-R	NONE	482761	1351024	3/11/97	1.50	0.17		pCi/g	1.50	0.17	-	pCi/g	
A1P1ST-1	R	Thorium-232	A1P1ST1-6C-R	NONE	482739	1351045	3/11/97	1.50	0.16		pCi/g	1.50	0.16	-	pCi/g	
A1P1ST-1	R	Thorium-232	A1P1ST1-7C-R	NONE	482751	1351117	3/11/97	1.10	0.13		pCi/g	1.10	0.13	-	pCi/g	
A1P1ST-1	R	Thorium-232	A1P1ST1-8C-R	NONE	482747	1351130	3/11/97	1.40	0.16		pCi/g	1.40	0.16	-	pCi/g	
A1P1ST-1	R	Thorium-232	A1P1ST1-9C-R	NONE	482770	1351023	3/12/97	1.20	0.17		pCi/g	1.16	0.17	-	pCi/g	
N19	R	Thorium-228	N19-00C-1-R	NONE	483019.03	1349467	2/27/97	1.30	0.14		pCi/g	1.27	0.14	J	pCi/g	
N19	R	Thorium-228	N19-00C-11-R	NONE	483728.46	1349586	2/27/97	1.30	0.14		pCi/g	1.26	0.15	J	pCi/g	
N19	R	Thorium-228	N19-00C-12-R	NONE	483628.24	1349738	2/27/97	1.30	0.15		pCi/g	1.30	0.15	-	pCi/g	
N19	R	Thorium-228	N19-00C-12-R-D	NONE	483628.24	1349738	2/27/97	1.30	0.15		pCi/g	1.32	0.15	-	pCi/g	N19-00C-12-R
N19	R	Thorium-228	N19-00C-14-R	NONE	483885.37	1349693	2/27/97	1.50	0.16		pCi/g	1.49	0.16	J	pCi/g	
N19	R	Thorium-228	N19-00C-15-R	NONE	484014.63	1349584	2/27/97	1.40	0.19		pCi/g	1.39	0.17	J	pCi/g	
N19	R	Thorium-228	N19-00C-2-R	NONE	483047.01	1349722	2/27/97	1.20	0.14		pCi/g	1.19	0.14	J	pCi/g	

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A1P1 CERTIFICATION REPORT - APPENDIX B-1 Non-Certification Data

								Laboratory Data				Validation Data				
CU Name	CU Type	Parameter	Sample ID	Suffix	Northing	Easting	Sample Date	Lab Result	TPU	Qualifier	Units	Val. Result	TPU	Qualifier	Units	Duplicate of
N19	R	Thorium-228	N19-00C-3-R	NONE	483130.10	1349481	2/27/97	1.30	0.15		pCi/g	1.33	0.15	-	pCi/g	
N19	R	Thorium-228	N19-00C-5-R	NONE	483317.42	1349576	2/27/97	1.50	0.16		pCi/g	1.51	0.16	-	pCi/g	
N19	R	Thorium-228	N19-00C-6-R	NONE	483316.67	1349717	2/27/97	1.30	0.15		pCi/g	1.34	0.15	-	pCi/g	
N19	R	Thorium-228	N19-00C-7-R	NONE	483447.32	1349591	3/4/97	1.40	0.16		pCi/g	1.45	0.16	J	pCi/g	
N19	R	Thorium-228	N19-00C-8-R	NONE	483461.6	1349668	3/4/97	1.20	0.14		pCi/g	1.16	0.14	J	pCi/g	
N19	R	Thorium-228	N19-00C-9-R	NONE	483497.16	1349568	2/27/97	1.30	0.15		pCi/g	1.27	0.15	-	pCi/g	
N19	R	Thorium-232	N19-00C-1-R	NONE	483019.03	1349467	2/27/97	1.30	0.14		pCi/g	1.27	0.14	J	pCi/g	
N19	R	Thorium-232	N19-00C-11-R	NONE	483728.46	1349586	2/27/97	1.30	0.14		pCi/g	1.26	0.15	J	pCi/g	
N19	R	Thorium-232	N19-00C-12-R	NONE	483628.24	1349738	2/27/97	1.30	0.15		pCi/g	1.30	0.15	-	pCi/g	
N19	R	Thorium-232	N19-00C-12-R-D	NONE	483628.24	1349738	2/27/97	1.30	0.15		pCi/g	1.32	0.15	-	pCi/g	N19-00C-12-R
N19	R	Thorium-232	N19-00C-14-R	NONE	483885.37	1349693	2/27/97	1.50	0.16		pCi/g	1.49	0.16	J	pCi/g	
N19	R	Thorium-232	N19-00C-15-R	NONE	484014.63	1349584	2/27/97	1.40	0.19		pCi/g	1.39	0.17	J	pCi/g	
N19	R	Thorium-232	N19-00C-2-R	NONE	483047.01	1349722	2/27/97	1.20	0.14		pCi/g	1.19	0.14	J	pCi/g	
N19	R	Thorium-232	N19-00C-3-R	NONE	483130.10	1349481	2/27/97	1.30	0.15		pCi/g	1.33	0.15	-	pCi/g	
N19	R	Thorium-232	N19-00C-5-R	NONE	483317.42	1349576	2/27/97	1.50	0.16		pCi/g	1.51	0.16	-	pCi/g	
N19	R	Thorium-232	N19-00C-6-R	NONE	483316.67	1349717	2/27/97	1.30	0.15		pCi/g	1.34	0.15	-	pCi/g	
N19	R	Thorium-232	N19-00C-7-R	NONE	483447.32	1349591	3/4/97	1.40	0.16		pCi/g	1.45	0.16	J	pCi/g	
N19	R	Thorium-232	N19-00C-8-R	NONE	483461.6	1349668	3/4/97	1.20	0.14		pCi/g	1.16	0.14	J	pCi/g	
N19	R	Thorium-232	N19-00C-9-R	NONE	483497.16	1349568	2/27/97	1.30	0.15		pCi/g	1.27	0.15	-	pCi/g	
N19	R	Uranium-238	N19-00C-1-R	NONE	483019.03	1349467	2/27/97	8.00	3.00		pCi/g	8.02	2.97	-	pCi/g	
N19	R	Uranium-238	N19-00C-11-R	NONE	483728.46	1349586	2/27/97	5.60	2.30		pCi/g	5.62	2.28	-	pCi/g	
N19	R	Uranium-238	N19-00C-12-R	NONE	483628.24	1349738	2/27/97	5.00	2.00		pCi/g	5.01	1.97	-	pCi/g	
N19	R	Uranium-238	N19-00C-12-R-D	NONE	483628.24	1349738	2/27/97	4.60	1.70		pCi/g	4.61	1.71	-	pCi/g	N19-00C-12-R
N19	R	Uranium-238	N19-00C-14-R	NONE	483885.37	1349693	2/27/97	6.80	2.60		pCi/g	6.75	2.65	-	pCi/g	
N19	R	Uranium-238	N19-00C-15-R	NONE	484014.63	1349584	2/27/97	4.40	1.90		pCi/g	4.40	1.92	-	pCi/g	
N19	R	Uranium-238	N19-00C-2-R	NONE	483047.01	1349722	2/27/97	7.80	2.80		pCi/g	7.81	2.83	-	pCi/g	
N19	R	Uranium-238	N19-00C-3-R	NONE	483130.10	1349481	2/27/97	8.40	3.20		pCi/g	8.39	3.15	-	pCi/g	
N19	R	Uranium-238	N19-00C-5-R	NONE	483317.42	1349576	2/27/97	6.20	2.30		pCi/g	6.19	2.27	-	pCi/g	
N19	R	Uranium-238	N19-00C-6-R	NONE	483316.67	1349717	2/27/97	5.70	2.10		pCi/g	5.67	2.14	-	pCi/g	
N19	R	Uranium-238	N19-00C-7-R	NONE	483447.32	1349591	3/4/97	5.40	2.00		pCi/g	5.44	1.96	J	pCi/g	
N19	R	Uranium-238	N19-00C-8-R	NONE	483461.6	1349668	3/4/97	6.10	2.50		pCi/g	6.14	2.49	J	pCi/g	
N19	R	Uranium-238	N19-00C-9-R	NONE	483497.16	1349568	2/27/97	4.60	1.70		pCi/g	4.59	1.71	-	pCi/g	
NAR-1	R	Thorium-228	NAR-1-10C-R	NONE	482365.40	1350915	3/10/97	1.40	0.20		pCi/g	1.35	0.20	-	pCi/g	
NAR-1	R	Thorium-228	NAR-1-11C-R	NONE	482445.45	1350914	3/9/97	1.50	0.20		pCi/g	1.48	0.20	J	pCi/g	
NAR-1	R	Thorium-228	NAR-1-12C-R	NONE	482465.37	1350918	3/9/97	1.60	0.17		pCi/g	1.59	0.17	J	pCi/g	
NAR-1	R	Thorium-228	NAR-1-13C-R	NONE	482537.99	1350907	3/8/97	1.40	0.22		pCi/g	1.42	0.22	-	pCi/g	
NAR-1	R	Thorium-228	NAR-1-14C-R	NONE	482571.56	1350911	3/8/97	1.50	0.21		pCi/g	1.46	0.21	-	pCi/g	
NAR-1	R	Thorium-228	NAR-1-15C-R	NONE	482628.05	1350911	3/8/97	1.40	0.18		pCi/g	1.37	0.18	-	pCi/g	
NAR-1	R	Thorium-228	NAR-1-16C-R	NONE	482683.78	1350932	3/11/97	1.20	0.20		pCi/g	1.23	0.20	-	pCi/g	

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A1P1 CERTIFICATION REPORT - APPENDIX B-1 Non-Certification Data

								Laboratory Data				Validation Data				
CU Name	CU Type	Parameter	Sample ID	Suffix	Northing	Easting	Sample Date	Lab Result	TPU	Qualifier	Units	Val. Result	TPU	Qualifier	Units	Duplicate of
NAR-1	R	Thorium-228	NAR-1-16C-R-D	NONE	482571.56	1350911	3/11/97	1.40	0.20		pCi/g	1.40	0.20	-	pCi/g	NAR-1-16C-R
NAR-1	R	Thorium-228	NAR-1-1C-R	NONE	481949.60	1350902	3/8/97	0.99	0.12		pCi/g	0.99	0.12	J	pCi/g	
NAR-1	R	Thorium-228	NAR-1-2C-R	NONE	481957.72	1350897	3/8/97	1.30	0.18		pCi/g	1.26	0.18	J	pCi/g	
NAR-1	R	Thorium-228	NAR-1-3C-R	NONE	482035.7	1350899	3/8/97	0.74	0.10		pCi/g	0.74	0.10	J	pCi/g	
NAR-1	R	Thorium-228	NAR-1-4C-R	NONE	482060.54	1350906	3/10/97	1.00	0.13		pCi/g	1.05	0.13	-	pCi/g	
NAR-1	R	Thorium-228	NAR-1-5C-R	NONE	482142.79	1350897	3/8/97	1.30	0.19		pCi/g	1.28	0.19	-	pCi/g	
NAR-1	R	Thorium-228	NAR-1-6C-R	NONE	482154.78	1350897	3/8/97	1.30	0.18		pCi/g	1.31	0.18	-	pCi/g	
NAR-1	R	Thorium-228	NAR-1-7C-R	NONE	482221.81	1350897	3/8/97	1.30	0.19		pCi/g	1.32	0.19	-	pCi/g	
NAR-1	R	Thorium-228	NAR-1-8C-R	NONE	482264.55	1350908	3/25/97	0.86	0.14		pCi/g	0.86	0.14	-	pCi/g	
NAR-1	R	Thorium-228	NAR-1-9C-R	NONE	482343.56	1350909	3/9/97	1.60	0.21		pCi/g	1.58	0.21	J	pCi/g	
NAR-1	R	Thorium-232	NAR-1-10C-R	NONE	482365.40	1350915	3/10/97	1.30	0.19		pCi/g	1.31	0.19	-	pCi/g	
NAR-1	R	Thorium-232	NAR-1-11C-R	NONE	482445.45	1350914	3/9/97	1.50	0.20		pCi/g	1.48	0.20	J	pCi/g	
NAR-1	R	Thorium-232	NAR-1-12C-R	NONE	482465.37	1350918	3/9/97	1.60	0.17		pCi/g	1.59	0.17	J	pCi/g	
NAR-1	R	Thorium-232	NAR-1-13C-R	NONE	482537.99	1350907	3/8/97	1.40	0.21		pCi/g	1.38	0.21	-	pCi/g	
NAR-1	R	Thorium-232	NAR-1-14C-R	NONE	482571.56	1350911	3/8/97	1.40	0.20		pCi/g	1.41	0.20	-	pCi/g	
NAR-1	R	Thorium-232	NAR-1-15C-R	NONE	482628.05	1350911	3/8/97	1.30	0.17		pCi/g	1.33	0.17	-	pCi/g	
NAR-1	R	Thorium-232	NAR-1-16C-R	NONE	482683.78	1350932	3/11/97	1.20	0.19		pCi/g	1.19	0.19	-	pCi/g	
NAR-1	R	Thorium-232	NAR-1-16C-R-D	NONE	482571.56	1350911	3/11/97	1.40	0.19		pCi/g	1.37	0.19	-	pCi/g	NAR-1-16C-R
NAR-1	R	Thorium-232	NAR-1-1C-R	NONE	481949.60	1350902	3/8/97	0.99	0.12		pCi/g	0.99	0.12	J	pCi/g	
NAR-1	R	Thorium-232	NAR-1-2C-R	NONE	481957.72	1350897	3/8/97	1.30	0.18		pCi/g	1.26	0.18	J	pCi/g	
NAR-1	R	Thorium-232	NAR-1-3C-R	NONE	482035.7	1350899	3/8/97	0.74	0.10		pCi/g	0.74	0.10	J	pCi/g	
NAR-1	R	Thorium-232	NAR-1-4C-R	NONE	482060.54	1350906	3/10/97	1.00	0.13		pCi/g	1.05	0.13	-	pCi/g	
NAR-1	R	Thorium-232	NAR-1-5C-R	NONE	482142.79	1350897	3/8/97	1.20	0.18		pCi/g	1.24	0.18	-	pCi/g	
NAR-1	R	Thorium-232	NAR-1-6C-R	NONE	482154.78	1350897	3/8/97	1.30	0.18		pCi/g	1.27	0.18	-	pCi/g	
NAR-1	R	Thorium-232	NAR-1-7C-R	NONE	482221.81	1350897	3/8/97	1.30	0.19		pCi/g	1.28	0.19	-	pCi/g	
NAR-1	R	Thorium-232	NAR-1-8C-R	NONE	482264.55	1350908	3/25/97	0.86	0.14		pCi/g	0.86	0.14	-	pCi/g	
NAR-1	R	Thorium-232	NAR-1-9C-R	NONE	482343.56	1350909	3/9/97	1.60	0.21		pCi/g	1.58	0.21	J	pCi/g	
NAR-2	R	Thorium-228	NAR-2-10C-R	NONE	483799.56	1351553	3/11/97	1.40	0.21		pCi/g	1.35	0.21	-	pCi/g	
NAR-2	R	Thorium-228	NAR-2-11C-R	NONE	483938.19	1351639	3/12/97	1.40	0.20		pCi/g	1.39	0.20	-	pCi/g	
NAR-2	R	Thorium-228	NAR-2-12C-R	NONE	484123.23	1351774	3/12/97	0.94	0.13		pCi/g	0.94	0.13	-	pCi/g	
NAR-2	R	Thorium-228	NAR-2-13C-R	NONE	484215.39	1351829	3/12/97	1.40	0.20		pCi/g	1.42	0.20	-	pCi/g	
NAR-2	R	Thorium-228	NAR-2-14C-R	NONE	484369.79	1351926	3/8/97	1.30	0.18		pCi/g	1.32	0.18	-	pCi/g	
NAR-2	R	Thorium-228	NAR-2-15C-R	NONE	484408.77	1351959	3/8/97	1.40	0.17		pCi/g	1.35	0.17	-	pCi/g	
NAR-2	R	Thorium-228	NAR-2-16C-R	NONE	484539.33	1352052	3/8/97	1.10	0.17		pCi/g	1.13	0.17	-	pCi/g	
NAR-2	R	Thorium-228	NAR-2-1C-R	NONE	482786.46	1350954	3/11/97	1.60	0.23		pCi/g	1.55	0.23	-	pCi/g	
NAR-2	R	Thorium-228	NAR-2-2C-R	NONE	482960.44	1351018	3/10/97	1.40	0.21		pCi/g	1.35	0.21	-	pCi/g	
NAR-2	R	Thorium-228	NAR-2-3C-R	NONE	483053.93	1351061	3/10/97	0.83	0.13		pCi/g	0.83	0.13	-	pCi/g	
NAR-2	R	Thorium-228	NAR-2-4C-R	NONE	483202.49	1351148	3/10/97	0.86	0.12		pCi/g	0.86	0.12	-	pCi/g	
NAR-2	R	Thorium-228	NAR-2-5C-R	NONE	483266.47	1351190	3/11/97	0.85	0.13		pCi/g	0.86	0.13	-	pCi/g	

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							Laboratory Data				Validation Data				
CU Name	CU Type	Parameter	Sample ID	Suffix	Northing	Easting	Sample Date	Lab Result	TPU	Qualifier	Units	Val. Result	TPU	Qualifier	Units	Duplicate of
NAR-2	R	Thorium-228	NAR-2-5C-R-D	NONE	483266.47	1351190	3/11/97	0.90	0.14		pCi/g	0.90	0.14	-	pCi/g	NAR-2-5C-R
NAR-2	R	Thorium-228	NAR-2-6C-R	NONE	483414.75	1351292	3/11/97	0.69	0.13		pCi/g	0.69	0.13	-	pCi/g	
NAR-2	R	Thorium-228	NAR-2-7C-R	NONE	483494.4	1351350	3/11/97	0.61	0.16		pCi/g	0.61	0.16	-	pCi/g	
NAR-2	R	Thorium-228	NAR-2-8C-R	NONE	483611.14	1351434	3/11/97	0.83	0.13		pCi/g	0.83	0.13	-	pCi/g	
NAR-2	R	Thorium-228	NAR-2-9C-R	NONE	483748.36	1351524	3/11/97	1.40	0.21		pCi/g	1.42	0.21	-	pCi/g	
NAR-2	R	Thorium-232	NAR-2-10C-R	NONE	483799.56	1351553	3/11/97	1.30	0.20		pCi/g	1.32	0.20	-	pCi/g	
NAR-2	R	Thorium-232	NAR-2-11C-R	NONE	483938.19	1351639	3/12/97	1.40	0.19		pCi/g	1.36	0.19	-	pCi/g	
NAR-2	R	Thorium-232	NAR-2-12C-R	NONE	484123.23	1351774	3/12/97	0.91	0.13		pCi/g	0.91	0.13	-	pCi/g	
NAR-2	R	Thorium-232	NAR-2-13C-R	NONE	484215.39	1351829	3/12/97	1.40	0.20		pCi/g	1.38	0.20	-	pCi/g	
NAR-2	R	Thorium-232	NAR-2-14C-R	NONE	484369.79	1351926	3/8/97	1.30	0.18		pCi/g	1.28	0.18	-	pCi/g	
NAR-2	R	Thorium-232	NAR-2-15C-R	NONE	484408.77	1351959	3/8/97	1.30	0.17		pCi/g	1.31	0.17	-	pCi/g	
NAR-2	R	Thorium-232	NAR-2-16C-R	NONE	484539.33	1352052	3/8/97	1.10	0.17		pCi/g	1.10	0.17	-	pCi/g	
NAR-2	R	Thorium-232	NAR-2-1C-R	NONE	482786.46	1350954	3/11/97	1.50	0.23		pCi/g	1.51	0.23	-	pCi/g	
NAR-2	R	Thorium-232	NAR-2-2C-R	NONE	482960.44	1351018	3/10/97	1.30	0.20		pCi/g	1.31	0.20	-	pCi/g	
NAR-2	R	Thorium-232	NAR-2-3C-R	NONE	483053.93	1351061	3/10/97	0.81	0.12		pCi/g	0.81	0.12	-	pCi/g	
NAR-2	R	Thorium-232	NAR-2-4C-R	NONE	483202.49	1351148	3/10/97	0.83	0.12		pCi/g	0.83	0.12	-	pCi/g	
NAR-2	R	Thorium-232	NAR-2-5C-R	NONE	483266.47	1351190	3/11/97	0.83	0.12		pCi/g	0.83	0.12	-	pCi/g	
NAR-2	R	Thorium-232	NAR-2-5C-R-D	NONE	483266.47	1351190	3/11/97	0.87	0.13		pCi/g	0.88	0.13	-	pCi/g	NAR-2-5C-R
NAR-2	R	Thorium-232	NAR-2-6C-R	NONE	483414.75	1351292	3/11/97	0.67	0.12		pCi/g	0.67	0.12	-	pCi/g	
NAR-2	R	Thorium-232	NAR-2-7C-R	NONE	483494.4	1351350	3/11/97	0.59	0.16		pCi/g	0.59	0.16	-	pCi/g	
NAR-2	R	Thorium-232	NAR-2-8C-R	NONE	483611.14	1351434	3/11/97	0.81	0.12		pCi/g	0.81	0.12	-	pCi/g	
NAR-2	R	Thorium-232	NAR-2-9C-R	NONE	483748.36	1351524	3/11/97	1.40	0.20		pCi/g	1.38	0.20	-	pCi/g	
NAR-3	R	Thorium-228	NAR-3-10C-R	NONE	482394.95	1350934	3/9/97	1.70	0.22		pCi/g	1.69	0.22	-	pCi/g	
NAR-3	R	Thorium-228	NAR-3-11C-R	NONE	482424.89	1350937	3/9/97	1.70	0.22		pCi/g	1.68	0.22	-	pCi/g	
NAR-3	R	Thorium-228	NAR-3-12C-R	NONE	482499.19	1350925	3/11/97	1.20	0.18		pCi/g	1.22	0.18	-	pCi/g	
NAR-3	R	Thorium-228	NAR-3-13C-R	NONE	482542.69	1350941	3/11/97	1.20	0.18		pCi/g	1.20	0.18	-	pCi/g	
NAR-3	R	Thorium-228	NAR-3-14C-R	NONE	482597.05	1350935	3/11/97	0.88	0.13		pCi/g	0.88	0.13	-	pCi/g	
NAR-3	R	Thorium-228	NAR-3-15C-R	NONE	482629.60	1350950	3/13/97	1.40	0.21		pCi/g	1.37	0.21	-	pCi/g	
NAR-3	R	Thorium-228	NAR-3-16C-R	NONE	482677.38	1350946	3/11/97	1.40	0.19		pCi/g	1.42	0.19	-	pCi/g	
NAR-3	R	Thorium-228	NAR-3-1C-R	NONE	481901.50	1350911	3/8/97	1.00	0.15		pCi/g	1.04	0.15	J	pCi/g	
NAR-3	R	Thorium-228	NAR-3-2C-R	NONE	481998.34	1350913	3/8/97	0.78	0.11		pCi/g	0.78	0.11	J	pCi/g	
NAR-3	R	Thorium-228	NAR-3-3C-R	NONE	482018.06	1350925	3/11/97	1.10	0.15		pCi/g	1.07	0.15	R	pCi/g	
NAR-3	R	Thorium-228	NAR-3-3C-R-D	NONE	482018.06	1350925	3/11/97	1.20	0.18		pCi/g	1.20	0.18	R	pCi/g	NAR-3-3C-R
NAR-3	R	Thorium-228	NAR-3-4C-R	NONE	482083	1350928	3/8/97	1.30	0.15		pCi/g	1.25	0.15	-	pCi/g	
NAR-3	R	Thorium-228	NAR-3-5C-R	NONE	482129.01	1350928	3/8/97	1.20	0.14		pCi/g	1.18	0.14	-	pCi/g	
NAR-3	R	Thorium-228	NAR-3-6C-R	NONE	482194.31	1350930	3/8/97	1.20	0.16		pCi/g	1.17	0.16	-	pCi/g	
NAR-3	R	Thorium-228	NAR-3-7C-R	NONE	482208.96	1350931	3/8/97	0.99	0.12		pCi/g	0.99	0.12	-	pCi/g	
NAR-3	R	Thorium-228	NAR-3-8C-R	NONE	482283.13	1350925	3/8/97	1.70	0.23		pCi/g	1.66	0.23	-	pCi/g	
NAR-3	R	Thorium-228	NAR-3-9C-R	NONE	482303.08	1350928	3/9/97	1.70	0.18		pCi/g	1.67	0.18	-	pCi/g	

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								Laboratory Data				Validation Data				
CU Name	CU Type	Parameter	Sample ID	Suffix	Northing	Easting	Sample Date	Lab Result	TPU	Qualifier	Units	Val. Result	TPU	Qualifier	Units	Duplicate of
NAR-3	R	Thorium-232	NAR-3-10C-R	NONE	482394.95	1350934	3/9/97	1.70	0.22		pCi/g	1.69	0.22	-	pCi/g	
NAR-3	R	Thorium-232	NAR-3-11C-R	NONE	482424.89	1350937	3/9/97	1.70	0.22		pCi/g	1.68	0.22	-	pCi/g	
NAR-3	R	Thorium-232	NAR-3-12C-R	NONE	482499.19	1350925	3/11/97	1.20	0.17		pCi/g	1.19	0.17	-	pCi/g	
NAR-3	R	Thorium-232	NAR-3-13C-R	NONE	482542.69	1350941	3/11/97	1.20	0.17		pCi/g	1.17	0.17	-	pCi/g	
NAR-3	R	Thorium-232	NAR-3-14C-R	NONE	482597.05	1350935	3/11/97	0.85	0.12		pCi/g	0.85	0.12	-	pCi/g	
NAR-3	R	Thorium-232	NAR-3-15C-R	NONE	482629.60	1350950	3/13/97	1.30	0.20		pCi/g	1.34	0.20	-	pCi/g	
NAR-3	R	Thorium-232	NAR-3-16C-R	NONE	482677.38	1350946	3/11/97	1.40	0.19		pCi/g	1.38	0.19	-	pCi/g	
NAR-3	R	Thorium-232	NAR-3-1C-R	NONE	481901.50	1350911	3/8/97	1.00	0.15		pCi/g	1.04	0.15	J	pCi/g	
NAR-3	R	Thorium-232	NAR-3-2C-R	NONE	481998.34	1350913	3/8/97	0.78	0.11		pCi/g	0.78	0.11	J	pCi/g	
NAR-3	R	Thorium-232	NAR-3-3C-R	NONE	482018.06	1350925	3/11/97	1.00	0.15		pCi/g	1.04	0.15	R	pCi/g	
NAR-3	R	Thorium-232	NAR-3-3C-R-D	NONE	482018.06	1350925	3/11/97	1.20	0.17		pCi/g	1.17	0.17	R	pCi/g	NAR-3-3C-R
NAR-3	R	Thorium-232	NAR-3-4C-R	NONE	482083	1350928	3/8/97	1.30	0.15		pCi/g	1.25	0.15	-	pCi/g	
NAR-3	R	Thorium-232	NAR-3-5C-R	NONE	482129.01	1350928	3/8/97	1.20	0.14		pCi/g	1.18	0.14	-	pCi/g	
NAR-3	R	Thorium-232	NAR-3-6C-R	NONE	482194.31	1350930	3/8/97	1.20	0.16		pCi/g	1.17	0.16	-	pCi/g	
NAR-3	R	Thorium-232	NAR-3-7C-R	NONE	482208.96	1350931	3/8/97	0.99	0.12		pCi/g	0.99	0.12	-	pCi/g	
NAR-3	R	Thorium-232	NAR-3-8C-R	NONE	482283.13	1350925	3/8/97	1.70	0.23		pCi/g	1.66	0.23	-	pCi/g	
NAR-3	R	Thorium-232	NAR-3-9C-R	NONE	482303.08	1350928	3/9/97	1.70	0.18		pCi/g	1.67	0.18	-	pCi/g	
NAR-4	R	Thorium-228	NAR-4-10C-R	NONE	483888.04	1351626	3/12/97	1.10	0.17		pCi/g	1.08	0.17	-	pCi/g	
NAR-4	R	Thorium-228	NAR-4-10C2-R	NONE	483888.04	1351626	3/11/97	0.81	0.12		pCi/g	0.81	0.12	-	pCi/g	
NAR-4	R	Thorium-228	NAR-4-11C-R	NONE	484001.41	1351719	3/12/97	1.30	0.17		pCi/g	1.31	0.17	-	pCi/g	
NAR-4	R	Thorium-228	NAR-4-11C2-R	NONE	484001.41	1351719	3/12/97	1.40	0.19		pCi/g	1.39	0.19	-	pCi/g	
NAR-4	R	Thorium-228	NAR-4-12C-R	NONE	484033.83	1351726	3/12/97	1.10	0.18		pCi/g	1.09	0.18	-	pCi/g	
NAR-4	R	Thorium-228	NAR-4-12C2-R	NONE	484033.83	1351726	3/12/97	1.60	0.21		pCi/g	1.63	0.21	R	pCi/g	
NAR-4	R	Thorium-228	NAR-4-12C2-R	RE	484033.83	1351726	3/12/97	1.10	0.16		pCi/g	1.09	0.16	-	pCi/g	
NAR-4	R	Thorium-228	NAR-4-12C3-R	NONE	484033.83	1351726	3/12/97	0.97	0.14		pCi/g	0.97	0.14	-	pCi/g	
NAR-4	R	Thorium-228	NAR-4-13C-R	NONE	484251.01	1351871	3/12/97	1.40	0.16		pCi/g	1.37	0.16	-	pCi/g	
NAR-4	R	Thorium-228	NAR-4-13C2-R	NONE	484251.01	1351871	3/12/97	1.20	0.14		pCi/g	1.20	0.14	-	pCi/g	
NAR-4	R	Thorium-228	NAR-4-13C3-R	NONE	484251.01	1351871	3/12/97	0.97	0.15		pCi/g	0.97	0.15	-	pCi/g	
NAR-4	R	Thorium-228	NAR-4-14C-R	NONE	484364.10	1351963	3/12/97	1.20	0.16		pCi/g	1.21	0.16	-	pCi/g	
NAR-4	R	Thorium-228	NAR-4-14C2-R	NONE	484364.10	1351963	3/12/97	0.99	0.14		pCi/g	0.99	0.14	-	pCi/g	
NAR-4	R	Thorium-228	NAR-4-14C3-R	NONE	484364.1	1351963	3/20/97	1.10	0.13		pCi/g	1.08	0.13	-	pCi/g	
NAR-4	R	Thorium-228	NAR-4-14C3-R-D	NONE	484364.1	1351963	3/20/97	0.90	0.13		pCi/g	0.90	0.13	-	pCi/g	NAR-4-14C3-R
NAR-4	R	Thorium-228	NAR-4-14C4-R	NONE	484364.1	1351963	3/20/97	1.20	0.17		pCi/g	1.25	0.17	-	pCi/g	
NAR-4	R	Thorium-228	NAR-4-14C5-R	NONE	484364.1	1351963	3/20/97	0.88	0.15		pCi/g	0.88	0.15	-	pCi/g	
NAR-4	R	Thorium-228	NAR-4-14C6-R	NONE	484364.1	1351963	3/20/97	1.10	0.12		pCi/g	1.08	0.12	-	pCi/g	
NAR-4	R	Thorium-228	NAR-4-14C7-R	NONE	484364.1	1351963	3/20/97	1.50	0.20		pCi/g	1.51	0.20	-	pCi/g	
NAR-4	R	Thorium-228	NAR-4-14C8-R	NONE	484364.1	1351963	3/20/97	1.30	0.20		pCi/g	1.31	0.20	-	pCi/g	
NAR-4	R	Thorium-228	NAR-4-15C-R	NONE	484455.12	1352023	3/12/97	1.20	0.19		pCi/g	1.20	0.19	-	pCi/g	
NAR-4	R	Thorium-228	NAR-4-15C10-R	NONE	484455.12	1352023	3/20/97	1.20	0.17		pCi/g	1.20	0.17	-	pCi/g	

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							Laboratory Data				Validation Data				
CU Name	CU Type	Parameter	Sample ID	Suffix	Northing	Easting	Sample Date	Lab Result	TPU	Qualifier	Units	Val. Result	TPU	Qualifier	Units	Duplicate of
NAR-4	R	Thorium-228	NAR-4-15C11-R	NONE	484455.12	1352023	3/20/97	1.20	0.19		pCi/g	1.21	0.19	-	pCi/g	
NAR-4	R	Thorium-228	NAR-4-15C2-R	NONE	484455.12	1352023	3/12/97	1.10	0.15		pCi/g	1.09	0.15	-	pCi/g	
NAR-4	R	Thorium-228	NAR-4-15C3-R	NONE	484455.12	1352023	3/20/97	1.20	0.14		pCi/g	1.20	0.14	-	pCi/g	
NAR-4	R	Thorium-228	NAR-4-15C4-R	NONE	484455.12	1352023	3/20/97	1.30	0.18		pCi/g	1.31	0.18	-	pCi/g	
NAR-4	R	Thorium-228	NAR-4-15C5-R	NONE	484455.12	1352023	3/20/97	0.78	0.13		pCi/g	0.78	0.13	-	pCi/g	
NAR-4	R	Thorium-228	NAR-4-15C6-R	NONE	484455.12	1352023	3/20/97	1.00	0.12		pCi/g	1.01	0.12	-	pCi/g	
NAR-4	R	Thorium-228	NAR-4-15C7-R	NONE	484455.12	1352023	3/20/97	1.10	0.16		pCi/g	1.09	0.16	-	pCi/g	
NAR-4	R	Thorium-228	NAR-4-15C8-R	NONE	484455.12	1352023	3/20/97	0.80	0.13		pCi/g	0.80	0.13	-	pCi/g	
NAR-4	R	Thorium-228	NAR-4-15C9-R	NONE	484455.12	1352023	3/20/97	0.74	0.11		pCi/g	0.74	0.11	-	pCi/g	
NAR-4	R	Thorium-228	NAR-4-16C-R	NONE	484528.99	1352072	3/12/97	1.30	0.15		pCi/g	1.26	0.15	-	pCi/g	
NAR-4	R	Thorium-228	NAR-4-16C10-R	NONE	484528.99	1352072	3/20/97	1.00	0.16		pCi/g	1.03	0.16	-	pCi/g	
NAR-4	R	Thorium-228	NAR-4-16C11-R	NONE	484528.99	1352072	3/20/97	1.10	0.16		pCi/g	1.09	0.16	-	pCi/g	
NAR-4	R	Thorium-228	NAR-4-16C2-R	NONE	484528.99	1352072	3/12/97	1.00	0.12		pCi/g	1.00	0.12	-	pCi/g	
NAR-4	R	Thorium-228	NAR-4-16C3-R	NONE	484528.99	1352072	3/20/97	1.00	0.14		pCi/g	1.02	0.14	-	pCi/g	
NAR-4	R	Thorium-228	NAR-4-16C4-R	NONE	484528.99	1352072	3/20/97	1.10	0.16		pCi/g	1.07	0.16	-	pCi/g	
NAR-4	R	Thorium-228	NAR-4-16C5-R	NONE	484528.99	1352072	3/20/97	1.00	0.15		pCi/g	1.03	0.15	-	pCi/g	
NAR-4	R	Thorium-228	NAR-4-16C6-R	NONE	484528.99	1352072	3/20/97	0.94	0.15		pCi/g	0.94	0.15	-	pCi/g	
NAR-4	R	Thorium-228	NAR-4-16C7-R	NONE	484528.99	1352072	3/20/97	0.96	0.13		pCi/g	0.96	0.13	-	pCi/g	
NAR-4	R	Thorium-228	NAR-4-16C8-R	NONE	484528.99	1352072	3/20/97	0.84	0.13		pCi/g	0.84	0.13	-	pCi/g	
NAR-4	R	Thorium-228	NAR-4-16C9-R	NONE	484528.99	1352072	3/20/97	0.73	0.11		pCi/g	0.73	0.11	-	pCi/g	
NAR-4	R	Thorium-228	NAR-4-1C-R	NONE	482790.51	1350967	3/11/97	1.40	0.20		pCi/g	1.40	0.20	-	pCi/g	
NAR-4	R	Thorium-228	NAR-4-2C-R	NONE	482863.19	1351002	3/12/97	1.40	0.19		pCi/g	1.38	0.19	-	pCi/g	
NAR-4	R	Thorium-228	NAR-4-3C-R	NONE	483002.36	1351049	3/12/97	1.20	0.17		pCi/g	1.21	0.17	-	pCi/g	
NAR-4	R	Thorium-228	NAR-4-4C-R	NONE	483181.3	1351160	3/13/97	0.97	0.14		pCi/g	0.97	0.14	-	pCi/g	
NAR-4	R	Thorium-228	NAR-4-5C-R	NONE	483244.77	1351205	3/13/97	0.96	0.15		pCi/g	0.96	0.14	-	pCi/g	
NAR-4	R	Thorium-228	NAR-4-6C-R	NONE	483392.56	1351293	3/11/97	0.98	0.15		pCi/g	0.98	0.15	-	pCi/g	
NAR-4	R	Thorium-228	NAR-4-7C-R	NONE	483454.22	1351343	3/13/97	0.88	0.13		pCi/g	0.88	0.13	-	pCi/g	
NAR-4	R	Thorium-228	NAR-4-8C-R	NONE	483599.50	1351430	3/11/97	1.00	0.13		pCi/g	1.04	0.13	-	pCi/g	
NAR-4	R	Thorium-228	NAR-4-8C2-R	NONE	483599.50	1351430	3/11/97	0.92	0.12		pCi/g	0.92	0.12	-	pCi/g	
NAR-4	R	Thorium-228	NAR-4-9C-R	NONE	483704.32	1351515	3/12/97	1.40	0.21		pCi/g	1.38	0.22	-	pCi/g	
NAR-4	R	Thorium-228	NAR-4-9C-R-D	NONE	483704.32	1351515	3/12/97	1.30	0.17		pCi/g	1.27	0.17	-	pCi/g	NAR-4-9C-R
NAR-4	R	Thorium-228	NAR-4-9C2-R	NONE	483704.32	1351515	3/12/97	1.60	0.21		pCi/g	1.59	0.21	-	pCi/g	
NAR-4	R	Thorium-232	NAR-4-10C-R	NONE	483888.04	1351626	3/12/97	1.10	0.17		pCi/g	1.08	0.17	-	pCi/g	
NAR-4	R	Thorium-232	NAR-4-10C2-R	NONE	483888.04	1351626	3/11/97	0.81	0.12		pCi/g	0.81	0.12	-	pCi/g	
NAR-4	R	Thorium-232	NAR-4-11C-R	NONE	484001.41	1351719	3/12/97	1.30	0.17		pCi/g	1.31	0.17	-	pCi/g	
NAR-4	R	Thorium-232	NAR-4-11C2-R	NONE	484001.41	1351719	3/12/97	1.40	0.19		pCi/g	1.39	0.19	-	pCi/g	
NAR-4	R	Thorium-232	NAR-4-12C-R	NONE	484033.83	1351726	3/12/97	1.10	0.18		pCi/g	1.09	0.18	-	pCi/g	
NAR-4	R	Thorium-232	NAR-4-12C2-R	NONE	484033.83	1351726	3/12/97	1.60	0.21		pCi/g	1.63	0.21	R	pCi/g	
NAR-4	R	Thorium-232	NAR-4-12C2-R	RE	484033.83	1351726	3/12/97	1.10	0.16		pCi/g	1.09	0.16	-	pCi/g	
NAR-4	R	Thorium-232	NAR-4-12C3-R	NONE	484033.83	1351726	3/12/97	0.94	0.14		pCi/g	0.94	0.14	-	pCi/g	

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								Laboratory Data				Validation Data				
CU Name	CU Type	Parameter	Sample ID	Suffix	Northing	Easting	Sample Date	Lab Result	TPU	Qualifier	Units	Val. Result	TPU	Qualifier	Units	Duplicate of
NAR-4	R	Thorium-232	NAR-4-13C-R	NONE	484251.01	1351871	3/12/97	1.40	0.16		pCi/g	1.37	0.16	-	pCi/g	
NAR-4	R	Thorium-232	NAR-4-13C2-R	NONE	484251.01	1351871	3/12/97	1.20	0.14		pCi/g	1.20	0.14	-	pCi/g	
NAR-4	R	Thorium-232	NAR-4-13C3-R	NONE	484251.01	1351871	3/12/97	0.93	0.14		pCi/g	0.93	0.14	-	pCi/g	
NAR-4	R	Thorium-232	NAR-4-14C-R	NONE	484364.10	1351963	3/12/97	1.20	0.16		pCi/g	1.21	0.16	-	pCi/g	
NAR-4	R	Thorium-232	NAR-4-14C2-R	NONE	484364.10	1351963	3/12/97	0.99	0.14		pCi/g	0.99	0.14	-	pCi/g	
NAR-4	R	Thorium-232	NAR-4-14C3-R	NONE	484364.1	1351963	3/20/97	1.10	0.13		pCi/g	1.08	0.13	-	pCi/g	
NAR-4	R	Thorium-232	NAR-4-14C3-R-D	NONE	484364.1	1351963	3/20/97	0.90	0.13		pCi/g	0.90	0.13	-	pCi/g	NAR-4-14C3-R
NAR-4	R	Thorium-232	NAR-4-14C4-R	NONE	484364.1	1351963	3/20/97	1.20	0.17		pCi/g	1.25	0.17	-	pCi/g	
NAR-4	R	Thorium-232	NAR-4-14C5-R	NONE	484364.1	1351963	3/20/97	0.88	0.15		pCi/g	0.88	0.15	-	pCi/g	
NAR-4	R	Thorium-232	NAR-4-14C6-R	NONE	484364.1	1351963	3/20/97	1.10	0.12		pCi/g	1.08	0.12	-	pCi/g	
NAR-4	R	Thorium-232	NAR-4-14C7-R	NONE	484364.1	1351963	3/20/97	1.50	0.20		pCi/g	1.51	0.20	-	pCi/g	
NAR-4	R	Thorium-232	NAR-4-14C8-R	NONE	484364.1	1351963	3/20/97	1.30	0.20		pCi/g	1.31	0.20	-	pCi/g	
NAR-4	R	Thorium-232	NAR-4-15C-R	NONE	484455.12	1352023	3/12/97	1.20	0.19		pCi/g	1.20	0.19	-	pCi/g	
NAR-4	R	Thorium-232	NAR-4-15C10-R	NONE	484455.12	1352023	3/20/97	1.20	0.17		pCi/g	1.20	0.17	-	pCi/g	
NAR-4	R	Thorium-232	NAR-4-15C11-R	NONE	484455.12	1352023	3/20/97	1.20	0.19		pCi/g	1.21	0.19	-	pCi/g	
NAR-4	R	Thorium-232	NAR-4-15C2-R	NONE	484455.12	1352023	3/12/97	1.10	0.15		pCi/g	1.09	0.15	-	pCi/g	
NAR-4	R	Thorium-232	NAR-4-15C3-R	NONE	484455.12	1352023	3/20/97	1.20	0.14		pCi/g	1.20	0.14	-	pCi/g	
NAR-4	R	Thorium-232	NAR-4-15C4-R	NONE	484455.12	1352023	3/20/97	1.30	0.18		pCi/g	1.31	0.18	-	pCi/g	
NAR-4	R	Thorium-232	NAR-4-15C5-R	NONE	484455.12	1352023	3/20/97	0.78	0.13		pCi/g	0.78	0.13	-	pCi/g	
NAR-4	R	Thorium-232	NAR-4-15C6-R	NONE	484455.12	1352023	3/20/97	1.00	0.12		pCi/g	1.01	0.12	-	pCi/g	
NAR-4	R	Thorium-232	NAR-4-15C7-R	NONE	484455.12	1352023	3/20/97	1.10	0.16		pCi/g	1.09	0.16	-	pCi/g	
NAR-4	R	Thorium-232	NAR-4-15C8-R	NONE	484455.12	1352023	3/20/97	0.80	0.13		pCi/g	0.80	0.13	-	pCi/g	
NAR-4	R	Thorium-232	NAR-4-15C9-R	NONE	484455.12	1352023	3/20/97	0.74	0.11		pCi/g	0.74	0.11	-	pCi/g	
NAR-4	R	Thorium-232	NAR-4-16C-R	NONE	484528.99	1352072	3/12/97	1.30	0.15		pCi/g	1.26	0.15	-	pCi/g	
NAR-4	R	Thorium-232	NAR-4-16C10-R	NONE	484528.99	1352072	3/20/97	1.00	0.15		pCi/g	1.00	0.15	-	pCi/g	
NAR-4	R	Thorium-232	NAR-4-16C11-R	NONE	484528.99	1352072	3/20/97	1.10	0.16		pCi/g	1.07	0.16	-	pCi/g	
NAR-4	R	Thorium-232	NAR-4-16C2-R	NONE	484528.99	1352072	3/12/97	1.00	0.12		pCi/g	1.00	0.12	-	pCi/g	
NAR-4	R	Thorium-232	NAR-4-16C3-R	NONE	484528.99	1352072	3/20/97	0.99	0.14		pCi/g	0.99	0.14	-	pCi/g	
NAR-4	R	Thorium-232	NAR-4-16C4-R	NONE	484528.99	1352072	3/20/97	1.00	0.16		pCi/g	1.05	0.16	-	pCi/g	
NAR-4	R	Thorium-232	NAR-4-16C5-R	NONE	484528.99	1352072	3/20/97	1.00	0.15		pCi/g	1.00	0.15	-	pCi/g	
NAR-4	R	Thorium-232	NAR-4-16C6-R	NONE	484528.99	1352072	3/20/97	0.92	0.14		pCi/g	0.92	0.14	-	pCi/g	
NAR-4	R	Thorium-232	NAR-4-16C7-R	NONE	484528.99	1352072	3/20/97	0.94	0.13		pCi/g	0.94	0.13	-	pCi/g	
NAR-4	R	Thorium-232	NAR-4-16C8-R	NONE	484528.99	1352072	3/20/97	0.82	0.13		pCi/g	0.82	0.13	-	pCi/g	
NAR-4	R	Thorium-232	NAR-4-16C9-R	NONE	484528.99	1352072	3/20/97	0.71	0.11		pCi/g	0.71	0.11	-	pCi/g	
NAR-4	R	Thorium-232	NAR-4-1C-R	NONE	482790.51	1350967	3/11/97	1.40	0.19		pCi/g	1.36	0.19	-	pCi/g	
NAR-4	R	Thorium-232	NAR-4-2C-R	NONE	482863.19	1351002	3/12/97	1.30	0.19		pCi/g	1.34	0.19	-	pCi/g	
NAR-4	R	Thorium-232	NAR-4-3C-R	NONE	483002.36	1351049	3/12/97	1.20	0.17		pCi/g	1.17	0.17	-	pCi/g	
NAR-4	R	Thorium-232	NAR-4-4C-R	NONE	483181.3	1351160	3/13/97	0.95	0.13		pCi/g	0.95	0.13	-	pCi/g	
NAR-4	R	Thorium-232	NAR-4-5C-R	NONE	483244.77	1351205	3/13/97	0.94	0.14		pCi/g	0.94	0.14	-	pCi/g	
NAR-4	R	Thorium-232	NAR-4-6C-R	NONE	483392.56	1351293	3/11/97	0.95	0.15		pCi/g	0.95	0.15	-	pCi/g	

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							Laboratory Data				Validation Data				
CU Name	CU Type	Parameter	Sample ID	Suffix	Northing	Easting	Sample Date	Lab Result	TPU	Qualifier	Units	Val. Result	TPU	Qualifier	Units	Duplicate of
NAR-4	R	Thorium-232	NAR-4-7C-R	NONE	483454.22	1351343	3/13/97	0.86	0.12		pCi/g	0.86	0.12	-	pCi/g	
NAR-4	R	Thorium-232	NAR-4-8C-R	NONE	483599.50	1351430	3/11/97	1.00	0.13		pCi/g	1.04	0.13	-	pCi/g	
NAR-4	R	Thorium-232	NAR-4-8C2-R	NONE	483599.50	1351430	3/11/97	0.92	0.12		pCi/g	0.92	0.12	-	pCi/g	
NAR-4	R	Thorium-232	NAR-4-9C-R	NONE	483704.32	1351515	3/12/97	1.40	0.21		pCi/g	1.38	0.22	-	pCi/g	
NAR-4	R	Thorium-232	NAR-4-9C-R-D	NONE	483704.32	1351515	3/12/97	1.30	0.17		pCi/g	1.27	0.17	-	pCi/g	NAR-4-9C-R
NAR-4	R	Thorium-232	NAR-4-9C2-R	NONE	483704.32	1351515	3/12/97	1.60	0.21		pCi/g	1.59	0.21	-	pCi/g	
NAR-5	R	Thorium-228	NAR-5-10C-R	NONE	482398.36	1350958	3/17/97	1.40	0.16		pCi/g	1.43	0.16	J	pCi/g	
NAR-5	R	Thorium-228	NAR-5-11C-R	NONE	482410.58	1350949	3/17/97	1.70	0.23		pCi/g	1.75	0.23	J	pCi/g	
NAR-5	R	Thorium-228	NAR-5-12C-R	NONE	482492.45	1350955	3/17/97	1.50	0.16		pCi/g	1.48	0.17	J	pCi/g	
NAR-5	R	Thorium-228	NAR-5-13C-R	NONE	482512.45	1350956	3/17/97	1.40	0.19		pCi/g	1.42	0.19	J	pCi/g	
NAR-5	R	Thorium-228	NAR-5-14C-R	NONE	482557.55	1350959	3/17/97	1.20	0.16		pCi/g	1.21	0.16	J	pCi/g	
NAR-5	R	Thorium-228	NAR-5-15C-R	NONE	482627.45	1350968	3/13/97	1.40	0.22		pCi/g	1.41	0.22	-	pCi/g	
NAR-5	R	Thorium-228	NAR-5-16C-R	NONE	482664.30	1350966	3/19/97	1.40	0.22		pCi/g	1.41	0.22	-	pCi/g	
NAR-5	R	Thorium-228	NAR-5-1C-R	NONE	481905.56	1350944	3/19/97	0.75	0.12		pCi/g	0.75	0.12	-	pCi/g	
NAR-5	R	Thorium-228	NAR-5-1C-R-D	NONE	481905.56	1350944	3/19/97	0.85	0.13		pCi/g	0.85	0.13	-	pCi/g	NAR-5-1C-R
NAR-5	R	Thorium-228	NAR-5-2C-R	NONE	481949.77	1350936	3/19/97	1.40	0.17		pCi/g	1.38	0.17	-	pCi/g	
NAR-5	R	Thorium-228	NAR-5-3C-R	NONE	482019.62	1350943	3/19/97	0.85	0.13		pCi/g	0.85	0.13	-	pCi/g	
NAR-5	R	Thorium-228	NAR-5-4C-R	NONE	482096.55	1350946	3/19/97	0.98	0.16		pCi/g	0.98	0.16	-	pCi/g	
NAR-5	R	Thorium-228	NAR-5-5C-R	NONE	482108.52	1350948	3/19/97	1.20	0.17		pCi/g	1.22	0.17	-	pCi/g	
NAR-5	R	Thorium-228	NAR-5-6C-R	NONE	482194.81	1350937	3/19/97	1.30	0.18		pCi/g	1.31	0.18	-	pCi/g	
NAR-5	R	Thorium-228	NAR-5-7C-R	NONE	482211.49	1350950	3/19/97	1.20	0.18		pCi/g	1.24	0.18	-	pCi/g	
NAR-5	R	Thorium-228	NAR-5-8C-R	NONE	482258.57	1350947	3/19/97	1.30	0.22		pCi/g	1.30	0.22	-	pCi/g	
NAR-5	R	Thorium-228	NAR-5-9C-R	NONE	482337.55	1350949	3/17/97	1.10	0.15		pCi/g	1.13	0.15	J	pCi/g	
NAR-5	R	Thorium-232	NAR-5-10C-R	NONE	482398.36	1350958	3/17/97	1.40	0.16		pCi/g	1.43	0.16	J	pCi/g	
NAR-5	R	Thorium-232	NAR-5-11C-R	NONE	482410.58	1350949	3/17/97	1.70	0.23		pCi/g	1.75	0.23	J	pCi/g	
NAR-5	R	Thorium-232	NAR-5-12C-R	NONE	482492.45	1350955	3/17/97	1.50	0.16		pCi/g	1.48	0.17	J	pCi/g	
NAR-5	R	Thorium-232	NAR-5-13C-R	NONE	482512.45	1350956	3/17/97	1.40	0.19		pCi/g	1.42	0.19	J	pCi/g	
NAR-5	R	Thorium-232	NAR-5-14C-R	NONE	482557.55	1350959	3/17/97	1.20	0.16		pCi/g	1.21	0.16	J	pCi/g	
NAR-5	R	Thorium-232	NAR-5-15C-R	NONE	482627.45	1350968	3/13/97	1.40	0.21		pCi/g	1.38	0.21	-	pCi/g	
NAR-5	R	Thorium-232	NAR-5-16C-R	NONE	482664.30	1350966	3/19/97	1.40	0.21		pCi/g	1.37	0.21	-	pCi/g	
NAR-5	R	Thorium-232	NAR-5-1C-R	NONE	481905.56	1350944	3/19/97	0.73	0.11		pCi/g	0.73	0.11	-	pCi/g	
NAR-5	R	Thorium-232	NAR-5-1C-R-D	NONE	481905.56	1350944	3/19/97	0.82	0.13		pCi/g	0.83	0.13	-	pCi/g	NAR-5-1C-R
NAR-5	R	Thorium-232	NAR-5-2C-R	NONE	481949.77	1350936	3/19/97	1.30	0.17		pCi/g	1.34	0.17	-	pCi/g	
NAR-5	R	Thorium-232	NAR-5-3C-R	NONE	482019.62	1350943	3/19/97	0.83	0.12		pCi/g	0.83	0.12	-	pCi/g	
NAR-5	R	Thorium-232	NAR-5-4C-R	NONE	482096.55	1350946	3/19/97	0.96	0.15		pCi/g	0.96	0.15	-	pCi/g	
NAR-5	R	Thorium-232	NAR-5-5C-R	NONE	482108.52	1350948	3/19/97	1.20	0.17		pCi/g	1.19	0.17	-	pCi/g	
NAR-5	R	Thorium-232	NAR-5-6C-R	NONE	482194.81	1350937	3/19/97	1.30	0.18		pCi/g	1.27	0.18	-	pCi/g	
NAR-5	R	Thorium-232	NAR-5-7C-R	NONE	482211.49	1350950	3/19/97	1.20	0.18		pCi/g	1.21	0.18	-	pCi/g	
NAR-5	R	Thorium-232	NAR-5-8C-R	NONE	482258.57	1350947	3/19/97	1.30	0.21		pCi/g	1.27	0.21	-	pCi/g	

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							Laboratory Data				Validation Data				
CU Name	CU Type	Parameter	Sample ID	Suffix	Northing	Easting	Sample Date	Lab Result	TPU	Qualifier	Units	Val. Result	TPU	Qualifier	Units	Duplicate of
NAR-5	R	Thorium-232	NAR-5-9C-R	NONE	482337.55	1350949	3/17/97	1.10	0.15		pCi/g	1.13	0.15	J	pCi/g	
NAR-6	R	Thorium-228	NAR-6-10C-R	NONE	483859.70	1351639	3/25/97	1.20	0.19		pCi/g	1.19	0.19	-	pCi/g	
NAR-6	R	Thorium-228	NAR-6-11C-R	NONE	483949.37	1351692	3/12/97	1.30	0.21		pCi/g	1.33	0.21	-	pCi/g	
NAR-6	R	Thorium-228	NAR-6-12C-R	NONE	484086.81	1351798	3/12/97	1.30	0.19		pCi/g	1.28	0.19	-	pCi/g	
NAR-6	R	Thorium-228	NAR-6-13C-R	NONE	484216.88	1351873	3/12/97	1.20	0.17		pCi/g	1.18	0.17	-	pCi/g	
NAR-6	R	Thorium-228	NAR-6-14C-R	NONE	484359.62	1351973	3/12/97	0.83	0.13		pCi/g	0.83	0.13	-	pCi/g	
NAR-6	R	Thorium-228	NAR-6-15C-R	NONE	484487.4	1352070	3/20/97	1.20	0.18		pCi/g	1.21	0.18	-	pCi/g	
NAR-6	R	Thorium-228	NAR-6-16C-R	NONE	484508.16	1352080	3/20/97	0.98	0.14		pCi/g	0.98	0.14	-	pCi/g	
NAR-6	R	Thorium-228	NAR-6-16C-R-D	NONE	484508.16	1352080	3/20/97	1.10	0.16		pCi/g	1.13	0.16	-	pCi/g	NAR-6-16C-R
NAR-6	R	Thorium-228	NAR-6-1C-R	NONE	482702.33	1350980	3/19/97	1.40	0.15		pCi/g	1.36	0.16	J	pCi/g	
NAR-6	R	Thorium-228	NAR-6-2C-R	NONE	482893.38	1351029	3/13/97	0.95	0.13		pCi/g	0.95	1.33	J	pCi/g	
NAR-6	R	Thorium-228	NAR-6-3C-R	NONE	483013.78	1351075	3/13/97	0.87	0.12		pCi/g	0.87	0.12	-	pCi/g	
NAR-6	R	Thorium-228	NAR-6-4C-R	NONE	483122.71	1351144	3/17/97	0.86	0.13		pCi/g	0.86	0.13	-	pCi/g	
NAR-6	R	Thorium-228	NAR-6-5C-R	NONE	483294.77	1351261	3/17/97	0.76	0.12		pCi/g	0.76	0.12	-	pCi/g	
NAR-6	R	Thorium-228	NAR-6-6C-R	NONE	483337.96	1351283	3/13/97	0.84	0.13		pCi/g	0.84	0.13	-	pCi/g	
NAR-6	R	Thorium-228	NAR-6-7C-R	NONE	483465.2	1351373	3/17/97	0.82	0.13		pCi/g	0.82	0.13	-	pCi/g	
NAR-6	R	Thorium-228	NAR-6-8C-R	NONE	483606.32	1351461	3/12/97	0.90	0.14		pCi/g	0.90	0.14	-	pCi/g	
NAR-6	R	Thorium-228	NAR-6-9C-R	NONE	483695.95	1351521	3/13/97	1.00	0.15		pCi/g	1.04	0.15	-	pCi/g	
NAR-6	R	Thorium-232	NAR-6-10C-R	NONE	483859.70	1351639	3/25/97	1.20	0.19		pCi/g	1.19	0.19	-	pCi/g	
NAR-6	R	Thorium-232	NAR-6-11C-R	NONE	483949.37	1351692	3/12/97	1.30	0.20		pCi/g	1.29	0.20	-	pCi/g	
NAR-6	R	Thorium-232	NAR-6-12C-R	NONE	484086.81	1351798	3/12/97	1.20	0.18		pCi/g	1.25	0.18	-	pCi/g	
NAR-6	R	Thorium-232	NAR-6-13C-R	NONE	484216.88	1351873	3/12/97	1.10	0.16		pCi/g	1.15	0.16	-	pCi/g	
NAR-6	R	Thorium-232	NAR-6-14C-R	NONE	484359.62	1351973	3/12/97	0.80	0.13		pCi/g	0.80	0.13	-	pCi/g	
NAR-6	R	Thorium-232	NAR-6-15C-R	NONE	484487.4	1352070	3/20/97	1.20	0.17		pCi/g	1.18	0.17	-	pCi/g	
NAR-6	R	Thorium-232	NAR-6-16C-R	NONE	484508.16	1352080	3/20/97	0.95	0.14		pCi/g	0.95	0.14	-	pCi/g	
NAR-6	R	Thorium-232	NAR-6-16C-R-D	NONE	484508.16	1352080	3/20/97	1.10	0.15		pCi/g	1.10	0.15	-	pCi/g	NAR-6-16C-R
NAR-6	R	Thorium-232	NAR-6-1C-R	NONE	482702.33	1350980	3/19/97	1.40	0.15		pCi/g	1.36	0.16	J	pCi/g	
NAR-6	R	Thorium-232	NAR-6-2C-R	NONE	482893.38	1351029	3/13/97	0.92	0.13		pCi/g	0.92	0.13	-	pCi/g	
NAR-6	R	Thorium-232	NAR-6-3C-R	NONE	483013.78	1351075	3/13/97	0.85	0.12		pCi/g	0.85	0.12	-	pCi/g	
NAR-6	R	Thorium-232	NAR-6-4C-R	NONE	483122.71	1351144	3/17/97	0.84	0.13		pCi/g	0.84	0.13	-	pCi/g	
NAR-6	R	Thorium-232	NAR-6-5C-R	NONE	483294.77	1351261	3/17/97	0.74	0.11		pCi/g	0.74	0.11	-	pCi/g	
NAR-6	R	Thorium-232	NAR-6-6C-R	NONE	483337.96	1351283	3/13/97	0.81	0.13		pCi/g	0.82	0.13	-	pCi/g	
NAR-6	R	Thorium-232	NAR-6-7C-R	NONE	483465.2	1351373	3/17/97	0.80	0.13		pCi/g	0.80	0.13	-	pCi/g	
NAR-6	R	Thorium-232	NAR-6-8C-R	NONE	483606.32	1351461	3/12/97	0.88	0.14		pCi/g	0.88	0.14	-	pCi/g	
NAR-6	R	Thorium-232	NAR-6-9C-R	NONE	483695.95	1351521	3/13/97	1.00	0.15		pCi/g	1.01	0.15	-	pCi/g	
NONE	R	Radium-226	Q18-40A-C2-2-R	NONE	482852	1353893	5/7/97	2.00	0.95		pCi/g	2.20	0.95	Z	pCi/g	
NONE	R	Radium-226	Q18-40A-C2-2-R	RE	482852	1353893	5/7/97	1.20	0.30		pCi/g	1.30	0.32	-	pCi/g	
O18	R	Thorium-228	O18-00C-1-R	NONE	482792	1349643	2/19/97	1.20	0.18		pCi/g	1.19	0.18	-	pCi/g	

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							Laboratory Data				Validation Data				
CU Name	CU Type	Parameter	Sample ID	Suffix	Northing	Easting	Sample Date	Lab Result	TPU	Qualifier	Units	Val. Result	TPU	Qualifier	Units	Duplicate of
O18	R	Thorium-228	O18-00C-10-R	NONE	482948	1349963	2/20/97	1.40	0.19		pCi/g	1.36	0.19	-	pCi/g	
O18	R	Thorium-228	O18-00C-11-R	NONE	482909	1350046	2/20/97	1.30	0.19		pCi/g	1.33	0.19	-	pCi/g	
O18	R	Thorium-228	O18-00C-14-R	NONE	482947	1350477	2/20/97	1.20	0.18		pCi/g	1.16	0.18	-	pCi/g	
O18	R	Thorium-228	O18-00C-15-R	NONE	482880	1349523	2/19/97	1.20	0.17		pCi/g	1.17	0.17	-	pCi/g	
O18	R	Thorium-228	O18-00C-16-R	NONE	482988	1349538	2/19/97	1.30	0.18		pCi/g	1.27	0.18	-	pCi/g	
O18	R	Thorium-228	O18-00C-3-R	NONE	482772	1350022	2/19/97	1.30	0.18		pCi/g	1.25	0.18	-	pCi/g	
O18	R	Thorium-228	O18-00C-5-R	NONE	482783	1350299	2/20/97	1.20	0.18		pCi/g	1.23	0.18	-	pCi/g	
O18	R	Thorium-228	O18-00C-6-R	NONE	482797	1350360	2/20/97	1.00	0.15		pCi/g	1.02	0.15	-	pCi/g	
O18	R	Thorium-228	O18-00C-7-R	NONE	482754	1350531	2/20/97	1.20	0.18		pCi/g	1.22	0.18	-	pCi/g	
O18	R	Thorium-228	O18-00C-7-R-D	NONE	482754	1350531	2/20/97	1.40	0.21		pCi/g	1.44	0.21	-	pCi/g	O18-00C-7-R
O18	R	Thorium-228	O18-00C-8-R	NONE	482977	1349628	2/19/97	1.10	0.16		pCi/g	1.12	0.16	-	pCi/g	
O18	R	Thorium-228	O18-00C-9-R	NONE	482969	1349782	2/19/97	1.30	0.18		pCi/g	1.27	0.18	-	pCi/g	
O18	R	Thorium-232	O18-00C-1-R	NONE	482792	1349643	2/19/97	1.20	0.18		pCi/g	1.17	0.18	-	pCi/g	
O18	R	Thorium-232	O18-00C-10-R	NONE	482948	1349963	2/20/97	1.30	0.18		pCi/g	1.34	0.18	-	pCi/g	
O18	R	Thorium-232	O18-00C-11-R	NONE	482909	1350046	2/20/97	1.30	0.19		pCi/g	1.31	0.19	-	pCi/g	
O18	R	Thorium-232	O18-00C-14-R	NONE	482947	1350477	2/20/97	1.10	0.18		pCi/g	1.14	0.18	-	pCi/g	
O18	R	Thorium-232	O18-00C-15-R	NONE	482880	1349523	2/19/97	1.20	0.16		pCi/g	1.15	0.16	-	pCi/g	
O18	R	Thorium-232	O18-00C-16-R	NONE	482988	1349538	2/19/97	1.30	0.18		pCi/g	1.25	0.18	-	pCi/g	
O18	R	Thorium-232	O18-00C-3-R	NONE	482772	1350022	2/19/97	1.20	0.18		pCi/g	1.23	0.18	-	pCi/g	
O18	R	Thorium-232	O18-00C-5-R	NONE	482783	1350299	2/20/97	1.20	0.18		pCi/g	1.21	0.18	-	pCi/g	
O18	R	Thorium-232	O18-00C-6-R	NONE	482797	1350360	2/20/97	1.00	0.15		pCi/g	1.00	0.15	-	pCi/g	
O18	R	Thorium-232	O18-00C-7-R	NONE	482754	1350531	2/20/97	1.20	0.18		pCi/g	1.21	0.18	-	pCi/g	
O18	R	Thorium-232	O18-00C-7-R-D	NONE	482754	1350531	2/20/97	1.40	0.21		pCi/g	1.42	0.21	-	pCi/g	O18-00C-7-R
O18	R	Thorium-232	O18-00C-8-R	NONE	482977	1349628	2/19/97	1.10	0.16		pCi/g	1.10	0.16	-	pCi/g	
O18	R	Thorium-232	O18-00C-9-R	NONE	482969	1349782	2/19/97	1.30	0.18		pCi/g	1.25	0.17	-	pCi/g	
O19	R	Thorium-228	O19-00C-1-R	NONE	483003	1349951	1/20/97	1.13	0.50		pCi/g	1.13	0.50	-	pCi/g	
O19	R	Thorium-228	O19-00C-10-R	NONE	483483	1350025	1/23/97	1.11	0.34		pCi/g	1.11	0.34	-	pCi/g	
O19	R	Thorium-228	O19-00C-11-R	NONE	483575	1350329	1/23/97	1.27	0.45		pCi/g	1.27	0.45	-	pCi/g	
O19	R	Thorium-228	O19-00C-14-R	NONE	483655	1350024	1/23/97	1.95	0.64		pCi/g	1.95	0.64	-	pCi/g	
O19	R	Thorium-228	O19-00C-15-R	NONE	483782	1350317	1/28/97	1.25	0.47		pCi/g	1.25	0.47	-	pCi/g	
O19	R	Thorium-228	O19-00C-16-R	NONE	483722	1350431	1/28/97	1.25	0.45		pCi/g	1.25	0.45	-	pCi/g	
O19	R	Thorium-228	O19-00C-4-R	NONE	483155	1350463	1/20/97	1.34	0.44		pCi/g	1.34	0.44	-	pCi/g	
O19	R	Thorium-228	O19-00C-5-R	NONE	483205	1349940	1/20/97	1.28	0.46		pCi/g	1.28	0.46	-	pCi/g	
O19	R	Thorium-228	O19-00C-6-R	NONE	483263	1350015	1/23/97	1.49	0.41		pCi/g	1.49	0.41	-	pCi/g	
O19	R	Thorium-228	O19-00C-7-R	NONE	483367	1350228	1/20/97	1.45	0.47		pCi/g	1.45	0.47	-	pCi/g	
O19	R	Thorium-228	O19-00C-8-R	NONE	483348	1350452	1/20/97	1.02	0.45		pCi/g	1.02	0.45	-	pCi/g	
O19	R	Thorium-228	O19-00C-9-R	NONE	483436	1349945	1/23/97	1.26	0.43		pCi/g	1.26	0.43	-	pCi/g	
O19	R	Thorium-232	O19-00C-1-R	NONE	483003	1349951	1/20/97	2.05	0.63		pCi/g	2.05	0.63	-	pCi/g	
O19	R	Thorium-232	O19-00C-10-R	NONE	483483	1350025	1/23/97	0.88	0.48		pCi/g	0.88	0.48	J	pCi/g	

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								Laboratory Data				Validation Data					
CU Name	CU Type	Parameter	Sample ID	Suffix	Northing	Easting	Sample Date	Lab Result	TPU	Qualifier	Units	Val. Result	TPU	Qualifier	Units	Duplicate of
O19	R	Thorium-232	O19-00C-11-R	NONE	483575	1350329	1/23/97	1.51	0.47		pCi/g	1.51	0.47	-	pCi/g	
O19	R	Thorium-232	O19-00C-14-R	NONE	483655	1350024	1/23/97	1.00	0.64		pCi/g	1.00	0.64	J	pCi/g	
O19	R	Thorium-232	O19-00C-15-R	NONE	483782	1350317	1/28/97	1.65	0.61		pCi/g	1.65	0.61	-	pCi/g	
O19	R	Thorium-232	O19-00C-16-R	NONE	483722	1350431	1/28/97	1.50	0.61		pCi/g	1.50	0.61	-	pCi/g	
O19	R	Thorium-232	O19-00C-4-R	NONE	483155	1350463	1/20/97	1.28	0.56		pCi/g	1.28	0.56	-	pCi/g	
O19	R	Thorium-232	O19-00C-5-R	NONE	483205	1349940	1/20/97	1.08	0.59		pCi/g	1.08	0.59	J	pCi/g	
O19	R	Thorium-232	O19-00C-6-R	NONE	483263	1350015	1/23/97	1.08	0.63		pCi/g	1.08	0.63	J	pCi/g	
O19	R	Thorium-232	O19-00C-7-R	NONE	483367	1350228	1/20/97	1.46	0.60		pCi/g	1.46	0.60	-	pCi/g	
O19	R	Thorium-232	O19-00C-8-R	NONE	483348	1350452	1/20/97	1.33	0.59		pCi/g	1.33	0.59	-	pCi/g	
O19	R	Thorium-232	O19-00C-9-R	NONE	483436	1349945	1/23/97	1.51	0.53		pCi/g	1.51	0.53	-	pCi/g	
O20	R	Thorium-228	O20-00C-1-R	NONE	483998	1349867	2/21/97	1.30	0.19		pCi/g	1.30	0.19	-	pCi/g	
O20	R	Thorium-228	O20-00C-10-R	NONE	484006	1350453	1/27/97	2.13	0.52		pCi/g	2.13	0.52	J	pCi/g	
O20	R	Thorium-228	O20-00C-12A-R	NONE	484089	1350947	1/27/97	1.64	0.49		pCi/g	1.64	0.49	J	pCi/g	
O20	R	Thorium-228	O20-00C-12B-R	NONE	484068	1350812	1/27/97	1.11	0.56		pCi/g	1.11	0.56	J	pCi/g	
O20	R	Thorium-228	O20-00C-2-R	NONE	483925	1350171	1/27/97	1.61	0.73		pCi/g	1.61	0.73	J	pCi/g	
O20	R	Thorium-228	O20-00C-3-R	NONE	483953	1350267	1/27/97	1.87	0.78		pCi/g	1.87	0.78	J	pCi/g	
O20	R	Thorium-228	O20-00C-4-R	NONE	483817	1350537	1/23/97	1.27	0.51		pCi/g	1.27	0.51	-	pCi/g	
O20	R	Thorium-228	O20-00C-5-R	NONE	483985	1350674	1/27/97	1.16	0.63		pCi/g	1.16	0.63	J	pCi/g	
O20	R	Thorium-228	O20-00C-6-R	NONE	483878	1350916	1/23/97	2.15	0.53		pCi/g	2.15	0.53	-	pCi/g	
O20	R	Thorium-228	O20-00C-6-R-D	NONE	483878	1350916	1/23/97	1.59	0.46		pCi/g	1.59	0.46	-	pCi/g	O20-00C-6-R
O20	R	Thorium-228	O20-00C-7A-R	NONE	484007	1349837	1/27/97	1.25	0.44		pCi/g	1.25	0.44	J	pCi/g	
O20	R	Thorium-228	O20-00C-7B-R	NONE	484091	1349880	1/27/97	1.39	0.48		pCi/g	1.39	0.48	J	pCi/g	
O20	R	Thorium-228	O20-00C-9-R	NONE	484029	1350321	1/27/97	0.70	0.41		pCi/g	0.70	0.41	J	pCi/g	
O20	R	Thorium-232	O20-00C-1-R	NONE	483998	1349867	2/21/97	1.30	0.19		pCi/g	1.27	0.19	-	pCi/g	
O20	R	Thorium-232	O20-00C-10-R	NONE	484006	1350453	1/27/97	1.95	0.88		pCi/g	1.95	0.88	J	pCi/g	
O20	R	Thorium-232	O20-00C-12A-R	NONE	484089	1350947	1/27/97	1.70	0.68		pCi/g	1.70	0.68	J	pCi/g	
O20	R	Thorium-232	O20-00C-12B-R	NONE	484068	1350812	1/27/97	1.70	0.84		pCi/g	1.70	0.84	J	pCi/g	
O20	R	Thorium-232	O20-00C-2-R	NONE	483925	1350171	1/27/97	2.46	0.85		pCi/g	2.46	0.85	J	pCi/g	
O20	R	Thorium-232	O20-00C-3-R	NONE	483953	1350267	1/27/97	1.60	0.90		pCi/g	1.60	0.90	J	pCi/g	
O20	R	Thorium-232	O20-00C-4-R	NONE	483817	1350537	1/23/97	1.51	0.62		pCi/g	1.51	0.62	-	pCi/g	
O20	R	Thorium-232	O20-00C-5-R	NONE	483985	1350674	1/27/97	1.99	0.89		pCi/g	1.99	0.89	J	pCi/g	
O20	R	Thorium-232	O20-00C-6-R	NONE	483878	1350916	1/23/97	1.89	0.71		pCi/g	1.89	0.71	-	pCi/g	
O20	R	Thorium-232	O20-00C-6-R-D	NONE	483878	1350916	1/23/97	1.85	0.61		pCi/g	1.85	0.61	-	pCi/g	O20-00C-6-R
O20	R	Thorium-232	O20-00C-7A-R	NONE	484007	1349837	1/27/97	1.65	0.56		pCi/g	1.65	0.56	J	pCi/g	
O20	R	Thorium-232	O20-00C-7B-R	NONE	484091	1349880	1/27/97	1.24	0.65		pCi/g	1.24	0.65	J	pCi/g	
O20	R	Thorium-232	O20-00C-9-R	NONE	484029	1350321	1/27/97	0.84	0.52		pCi/g	0.84	0.52	J	pCi/g	
O20	R	Uranium, Total	O20-00C-7B-R	NONE	484091	1349880	1/27/97				ug/g	205.40	23.39	J	ug/g	
O20	R	Uranium-238	O20HS-1-R-13-D	NONE	484092.7	1349877	4/9/97	4.30	0.66		pCi/g	4.28	0.66	-	pCi/g	O20HS-1-R-13
OSB-1	R	Thorium-228	OSB-1C-1-R	NONE	480414	1350605	4/15/97	0.83	0.13		pCi/g	0.83	0.13	-	pCi/g	

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							Laboratory Data				Validation Data				
CU Name	CU Type	Parameter	Sample ID	Suffix	Northing	Easting	Sample Date	Lab Result	TPU	Qualifier	Units	Val. Result	TPU	Qualifier	Units	Duplicate of
OSB-1	R	Thorium-228	OSB-1C-10-R	NONE	480624	1350624	4/15/97	0.90	0.13		pCi/g	0.90	0.13	-	pCi/g	
OSB-1	R	Thorium-228	OSB-1C-11-R	NONE	480641	1350679	4/15/97	1.70	0.18		pCi/g	1.67	0.18	-	pCi/g	
OSB-1	R	Thorium-228	OSB-1C-12-R	NONE	480596	1350699	4/15/97	1.40	0.19		pCi/g	1.39	0.19	-	pCi/g	
OSB-1	R	Thorium-228	OSB-1C-13-R	NONE	480684	1350598	4/15/97	0.74	0.10		pCi/g	0.74	0.10	-	pCi/g	
OSB-1	R	Thorium-228	OSB-1C-14-R	NONE	480675	1350635	4/15/97	0.85	0.14		pCi/g	0.85	0.14	-	pCi/g	
OSB-1	R	Thorium-228	OSB-1C-15-R	NONE	480671	1350680	4/15/97	1.40	0.18		pCi/g	1.35	0.18	-	pCi/g	
OSB-1	R	Thorium-228	OSB-1C-16-R	NONE	480689	1350697	4/15/97	1.40	0.21		pCi/g	1.35	0.21	-	pCi/g	
OSB-1	R	Thorium-228	OSB-1C-2-R	NONE	480424	1350636	4/15/97	1.40	0.21		pCi/g	1.36	0.21	J	pCi/g	
OSB-1	R	Thorium-228	OSB-1C-3-R	NONE	480451	1350595	4/15/97	0.50	0.07		pCi/g	0.50	0.07	J	pCi/g	
OSB-1	R	Thorium-228	OSB-1C-3-R	RE	480451	1350595	4/15/97	0.74	0.12		pCi/g	0.74	0.12	Z	pCi/g	
OSB-1	R	Thorium-228	OSB-1C-4-R	NONE	480497	1350644	4/15/97	1.30	0.17		pCi/g	1.27	0.17	J	pCi/g	
OSB-1	R	Thorium-228	OSB-1C-5-R	NONE	480502	1350595	4/15/97	0.93	0.11		pCi/g	0.93	0.11	-	pCi/g	
OSB-1	R	Thorium-228	OSB-1C-5-R-D	NONE	480502	1350595	4/15/97	1.10	0.16		pCi/g	1.10	0.16	-	pCi/g	OSB-1C-5-R
OSB-1	R	Thorium-228	OSB-1C-6-R	NONE	480527	1350664	4/15/97	1.20	0.19		pCi/g	1.22	0.19	-	pCi/g	
OSB-1	R	Thorium-228	OSB-1C-7-R	NONE	480570	1350601	4/15/97	0.80	0.10		pCi/g	0.80	0.10	-	pCi/g	
OSB-1	R	Thorium-228	OSB-1C-8-R	NONE	480574	1350653	4/15/97	1.60	0.21		pCi/g	1.57	0.21	-	pCi/g	
OSB-1	R	Thorium-228	OSB-1C-9-R	NONE	480626	1350604	4/15/97	0.52	0.10		pCi/g	0.52	0.10	-	pCi/g	
OSB-1	R	Thorium-232	OSB-1C-1-R	NONE	480414	1350605	4/15/97	0.83	0.13		pCi/g	0.83	0.13	-	pCi/g	
OSB-1	R	Thorium-232	OSB-1C-10-R	NONE	480624	1350624	4/15/97	0.90	0.13		pCi/g	0.90	0.13	-	pCi/g	
OSB-1	R	Thorium-232	OSB-1C-11-R	NONE	480641	1350679	4/15/97	1.70	0.18		pCi/g	1.67	0.18	-	pCi/g	
OSB-1	R	Thorium-232	OSB-1C-12-R	NONE	480596	1350699	4/15/97	1.40	0.19		pCi/g	1.39	0.19	-	pCi/g	
OSB-1	R	Thorium-232	OSB-1C-13-R	NONE	480684	1350598	4/15/97	0.74	0.10		pCi/g	0.74	0.10	-	pCi/g	
OSB-1	R	Thorium-232	OSB-1C-14-R	NONE	480675	1350635	4/15/97	0.85	0.14		pCi/g	0.85	0.14	-	pCi/g	
OSB-1	R	Thorium-232	OSB-1C-15-R	NONE	480671	1350680	4/15/97	1.40	0.18		pCi/g	1.35	0.18	-	pCi/g	
OSB-1	R	Thorium-232	OSB-1C-16-R	NONE	480689	1350697	4/15/97	1.40	0.21		pCi/g	1.35	0.21	-	pCi/g	
OSB-1	R	Thorium-232	OSB-1C-2-R	NONE	480424	1350636	4/15/97	1.40	0.21		pCi/g	1.36	0.21	J	pCi/g	
OSB-1	R	Thorium-232	OSB-1C-3-R	NONE	480451	1350595	4/15/97	0.50	0.07		pCi/g	0.50	0.07	J	pCi/g	
OSB-1	R	Thorium-232	OSB-1C-3-R	RE	480451	1350595	4/15/97	0.74	0.12		pCi/g	0.74	0.12	Z	pCi/g	
OSB-1	R	Thorium-232	OSB-1C-4-R	NONE	480497	1350644	4/15/97	1.30	0.17		pCi/g	1.27	0.17	J	pCi/g	
OSB-1	R	Thorium-232	OSB-1C-5-R	NONE	480502	1350595	4/15/97	0.93	0.11		pCi/g	0.93	0.11	-	pCi/g	
OSB-1	R	Thorium-232	OSB-1C-5-R-D	NONE	480502	1350595	4/15/97	1.10	0.16		pCi/g	1.10	0.16	-	pCi/g	OSB-1C-5-R
OSB-1	R	Thorium-232	OSB-1C-6-R	NONE	480527	1350664	4/15/97	1.20	0.19		pCi/g	1.22	0.19	-	pCi/g	
OSB-1	R	Thorium-232	OSB-1C-7-R	NONE	480570	1350601	4/15/97	0.80	0.10		pCi/g	0.80	0.10	-	pCi/g	
OSB-1	R	Thorium-232	OSB-1C-8-R	NONE	480574	1350653	4/15/97	1.60	0.21		pCi/g	1.57	0.21	-	pCi/g	
OSB-1	R	Thorium-232	OSB-1C-9-R	NONE	480626	1350604	4/15/97	0.52	0.10		pCi/g	0.52	0.10	-	pCi/g	
OSB-2	R	Thorium-228	OSB-2C-1-R	NONE	480632	1350751	4/1/97	1.40	0.17		pCi/g	1.43	0.17	-	pCi/g	
OSB-2	R	Thorium-228	OSB-2C-10-R	NONE	480781	1350780	4/2/97	1.00	0.13		pCi/g	1.02	0.13	J	pCi/g	
OSB-2	R	Thorium-228	OSB-2C-11-R	NONE	480750	1350812	4/2/97	1.10	0.21		pCi/g	1.12	0.21	J	pCi/g	
OSB-2	R	Thorium-228	OSB-2C-12-R	NONE	480787	1350831	4/2/97	1.10	0.14		pCi/g	1.06	0.14	-	pCi/g	

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							Laboratory Data				Validation Data					
CU Name	CU Type	Parameter	Sample ID	Suffix	Northing	Easting	Sample Date	Lab Result	TPU	Qualifier	Units	Val. Result	TPU	Qualifier	Units	Duplicate of
OSB-2	R	Thorium-228	OSB-2C-13-R	NONE	480866	1350726	4/17/97	0.86	0.11		pCi/g	0.86	0.11	-	pCi/g	
OSB-2	R	Thorium-228	OSB-2C-14-R	NONE	480815	1350780	4/2/97	0.97	0.12		pCi/g	0.97	0.12	J	pCi/g	
OSB-2	R	Thorium-228	OSB-2C-15-R	NONE	480851	1350791	4/2/97	0.90	0.11		pCi/g	0.90	0.11	-	pCi/g	
OSB-2	R	Thorium-228	OSB-2C-16-R	NONE	480853	1350854	4/2/97	1.60	0.18		pCi/g	1.57	0.18	-	pCi/g	
OSB-2	R	Thorium-228	OSB-2C-2-R	NONE	480649	1350776	4/1/97	1.50	0.18		pCi/g	1.49	0.18	-	pCi/g	
OSB-2	R	Thorium-228	OSB-2C-3-R	NONE	480639	1350792	4/1/97	1.40	0.18		pCi/g	1.36	0.18	-	pCi/g	
OSB-2	R	Thorium-228	OSB-2C-4-R	NONE	480642	1350828	4/1/97	1.20	0.19		pCi/g	1.25	0.19	-	pCi/g	
OSB-2	R	Thorium-228	OSB-2C-5-R	NONE	480700	1350737	4/1/97	1.40	0.26		pCi/g	1.38	0.26	J	pCi/g	
OSB-2	R	Thorium-228	OSB-2C-6-R	NONE	480705	1350779	4/1/97	1.10	0.14		pCi/g	1.11	0.14	J	pCi/g	
OSB-2	R	Thorium-228	OSB-2C-7-R	NONE	480684	1350811	4/1/97	1.30	0.14		pCi/g	1.25	0.14	J	pCi/g	
OSB-2	R	Thorium-228	OSB-2C-8-R	NONE	480702	1350837	4/1/97	0.92	0.18		pCi/g	0.92	0.18	J	pCi/g	
OSB-2	R	Thorium-228	OSB-2C-8-R-D	NONE	480702	1350837	4/1/97	0.97	0.13		pCi/g	0.98	0.13	J	pCi/g	OSB-2C-8-R
OSB-2	R	Thorium-228	OSB-2C-9-R	NONE	480779	1350737	4/2/97	0.74	0.09		pCi/g	0.74	0.09	J	pCi/g	
OSB-2	R	Thorium-232	OSB-2C-1-R	NONE	480632	1350751	4/1/97	1.40	0.17		pCi/g	1.38	0.17	-	pCi/g	
OSB-2	R	Thorium-232	OSB-2C-10-R	NONE	480781	1350780	4/2/97	0.98	0.12		pCi/g	0.98	0.12	J	pCi/g	
OSB-2	R	Thorium-232	OSB-2C-11-R	NONE	480750	1350812	4/2/97	1.10	0.21		pCi/g	1.08	0.21	J	pCi/g	
OSB-2	R	Thorium-232	OSB-2C-12-R	NONE	480787	1350831	4/2/97	1.00	0.14		pCi/g	1.02	0.14	-	pCi/g	
OSB-2	R	Thorium-232	OSB-2C-13-R	NONE	480866	1350726	4/17/97	0.86	0.11		pCi/g	0.86	0.11	-	pCi/g	
OSB-2	R	Thorium-232	OSB-2C-14-R	NONE	480815	1350780	4/2/97	0.93	0.12		pCi/g	0.93	0.12	J	pCi/g	
OSB-2	R	Thorium-232	OSB-2C-15-R	NONE	480851	1350791	4/2/97	0.87	0.11		pCi/g	0.87	0.11	-	pCi/g	
OSB-2	R	Thorium-232	OSB-2C-16-R	NONE	480853	1350854	4/2/97	1.50	0.18		pCi/g	1.52	0.18	-	pCi/g	
OSB-2	R	Thorium-232	OSB-2C-2-R	NONE	480649	1350776	4/1/97	1.40	0.17		pCi/g	1.44	0.17	-	pCi/g	
OSB-2	R	Thorium-232	OSB-2C-3-R	NONE	480639	1350792	4/1/97	1.30	0.17		pCi/g	1.31	0.17	-	pCi/g	
OSB-2	R	Thorium-232	OSB-2C-4-R	NONE	480642	1350828	4/1/97	1.20	0.19		pCi/g	1.20	0.19	-	pCi/g	
OSB-2	R	Thorium-232	OSB-2C-5-R	NONE	480700	1350737	4/1/97	1.30	0.25		pCi/g	1.33	0.25	J	pCi/g	
OSB-2	R	Thorium-232	OSB-2C-6-R	NONE	480705	1350779	4/1/97	1.10	0.14		pCi/g	1.07	0.14	J	pCi/g	
OSB-2	R	Thorium-232	OSB-2C-7-R	NONE	480684	1350811	4/1/97	1.20	0.14		pCi/g	1.21	0.14	J	pCi/g	
OSB-2	R	Thorium-232	OSB-2C-8-R	NONE	480702	1350837	4/1/97	0.89	0.17		pCi/g	0.89	0.17	J	pCi/g	
OSB-2	R	Thorium-232	OSB-2C-8-R-D	NONE	480702	1350837	4/1/97	0.94	0.12		pCi/g	0.94	0.12	J	pCi/g	OSB-2C-8-R
OSB-2	R	Thorium-232	OSB-2C-9-R	NONE	480779	1350737	4/2/97	0.72	0.09		pCi/g	0.72	0.09	J	pCi/g	
OSB-3	R	Thorium-228	OSB-3C-1-R	NONE	480738	1350602	4/15/97	0.71	0.10		pCi/g	0.71	0.10	-	pCi/g	
OSB-3	R	Thorium-228	OSB-3C-10-R	NONE	480838	1350651	4/14/97	1.20	0.15		pCi/g	1.15	0.15	J	pCi/g	
OSB-3	R	Thorium-228	OSB-3C-11-R	NONE	480815	1350673	4/14/97	0.94	0.18		pCi/g	0.94	0.18	J	pCi/g	
OSB-3	R	Thorium-228	OSB-3C-12-R	NONE	480825	1350704	4/15/97	1.20	0.17		pCi/g	1.19	0.17	-	pCi/g	
OSB-3	R	Thorium-228	OSB-3C-12-R-D	NONE	480825	1350704	4/15/97	1.20	0.13		pCi/g	1.16	0.13	-	pCi/g	OSB-3C-12-R
OSB-3	R	Thorium-228	OSB-3C-13-R	NONE	480871	1350607	4/14/97	1.30	0.15		pCi/g	1.32	0.15	J	pCi/g	
OSB-3	R	Thorium-228	OSB-3C-14-R	NONE	480898	1350625	4/14/97	1.20	0.15		pCi/g	1.18	0.15	J	pCi/g	
OSB-3	R	Thorium-228	OSB-3C-15-R	NONE	480888	1350680	4/14/97	0.96	0.13		pCi/g	0.96	0.13	-	pCi/g	
OSB-3	R	Thorium-228	OSB-3C-16-R	NONE	480891	1350714	4/14/97	0.88	0.11		pCi/g	0.88	0.11	-	pCi/g	

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							Laboratory Data				Validation Data				
CU Name	CU Type	Parameter	Sample ID	Suffix	Northing	Easting	Sample Date	Lab Result	TPU	Qualifier	Units	Val. Result	TPU	Qualifier	Units	Duplicate of
OSB-3	R	Thorium-228	OSB-3C-2-R	NONE	480709	1350652	4/15/97	0.99	0.16		pCi/g	0.99	0.16	-	pCi/g	
OSB-3	R	Thorium-228	OSB-3C-3-R	NONE	480749	1350679	4/15/97	1.50	0.17		pCi/g	1.53	0.17	-	pCi/g	
OSB-3	R	Thorium-228	OSB-3C-4-R	NONE	480724	1350698	4/15/97	1.60	0.21		pCi/g	1.62	0.21	-	pCi/g	
OSB-3	R	Thorium-228	OSB-3C-5-R	NONE	480755	1350596	4/15/97	0.70	0.09		pCi/g	0.70	0.09	-	pCi/g	
OSB-3	R	Thorium-228	OSB-3C-6-R	NONE	480800	1350631	4/14/97	1.20	0.16		pCi/g	1.16	0.16	-	pCi/g	
OSB-3	R	Thorium-228	OSB-3C-7-R	NONE	480768	1350654	4/14/97	0.99	0.12		pCi/g	0.99	0.12	-	pCi/g	
OSB-3	R	Thorium-228	OSB-3C-8-R	NONE	480779	1350689	4/15/97	1.10	0.17		pCi/g	1.06	0.17	-	pCi/g	
OSB-3	R	Thorium-228	OSB-3C-9-R	NONE	480834	1350603	4/14/97	1.20	0.19		pCi/g	1.24	0.19	-	pCi/g	
OSB-3	R	Thorium-232	OSB-3C-1-R	NONE	480738	1350602	4/15/97	0.71	0.10		pCi/g	0.71	0.10	-	pCi/g	
OSB-3	R	Thorium-232	OSB-3C-10-R	NONE	480838	1350651	4/14/97	1.10	0.14		pCi/g	1.12	0.14	J	pCi/g	
OSB-3	R	Thorium-232	OSB-3C-11-R	NONE	480815	1350673	4/14/97	0.92	0.18		pCi/g	0.92	0.18	J	pCi/g	
OSB-3	R	Thorium-232	OSB-3C-12-R	NONE	480825	1350704	4/15/97	1.20	0.17		pCi/g	1.19	0.17	-	pCi/g	
OSB-3	R	Thorium-232	OSB-3C-12-R-D	NONE	480825	1350704	4/15/97	1.20	0.13		pCi/g	1.16	0.13	-	pCi/g	OSB-3C-12-R
OSB-3	R	Thorium-232	OSB-3C-13-R	NONE	480871	1350607	4/14/97	1.30	0.14		pCi/g	1.29	0.14	J	pCi/g	
OSB-3	R	Thorium-232	OSB-3C-14-R	NONE	480898	1350625	4/14/97	1.20	0.14		pCi/g	1.15	0.14	J	pCi/g	
OSB-3	R	Thorium-232	OSB-3C-15-R	NONE	480888	1350680	4/14/97	0.94	0.12		pCi/g	0.94	0.12	-	pCi/g	
OSB-3	R	Thorium-232	OSB-3C-16-R	NONE	480891	1350714	4/14/97	0.86	0.11		pCi/g	0.86	0.11	-	pCi/g	
OSB-3	R	Thorium-232	OSB-3C-2-R	NONE	480709	1350652	4/15/97	0.99	0.16		pCi/g	0.99	0.16	-	pCi/g	
OSB-3	R	Thorium-232	OSB-3C-3-R	NONE	480749	1350679	4/15/97	1.50	0.17		pCi/g	1.53	0.17	-	pCi/g	
OSB-3	R	Thorium-232	OSB-3C-4-R	NONE	480724	1350698	4/15/97	1.60	0.21		pCi/g	1.62	0.21	-	pCi/g	
OSB-3	R	Thorium-232	OSB-3C-5-R	NONE	480755	1350596	4/15/97	0.70	0.09		pCi/g	0.70	0.09	-	pCi/g	
OSB-3	R	Thorium-232	OSB-3C-6-R	NONE	480800	1350631	4/14/97	1.10	0.16		pCi/g	1.13	0.16	-	pCi/g	
OSB-3	R	Thorium-232	OSB-3C-7-R	NONE	480768	1350654	4/14/97	0.96	0.12		pCi/g	0.96	0.12	-	pCi/g	
OSB-3	R	Thorium-232	OSB-3C-8-R	NONE	480779	1350689	4/15/97	1.10	0.17		pCi/g	1.06	0.17	-	pCi/g	
OSB-3	R	Thorium-232	OSB-3C-9-R	NONE	480834	1350603	4/14/97	1.20	0.19		pCi/g	1.20	0.19	-	pCi/g	
OSB-4	R	Thorium-228	OSB-4C-1-R	NONE	480884	1350749	4/3/97	1.20	0.16		pCi/g	1.18	0.16	-	pCi/g	
OSB-4	R	Thorium-228	OSB-4C-10-R	NONE	481015	1350765	4/7/97	1.20	0.15		pCi/g	1.17	0.15	J	pCi/g	
OSB-4	R	Thorium-228	OSB-4C-11-R	NONE	481025	1350806	4/7/97	1.10	0.16		pCi/g	1.15	0.16	-	pCi/g	
OSB-4	R	Thorium-228	OSB-4C-12-R	NONE	481015	1350835	4/7/97	1.40	0.17		pCi/g	1.39	0.17	-	pCi/g	
OSB-4	R	Thorium-228	OSB-4C-13-R	NONE	481101	1350719	4/7/97	1.20	0.16		pCi/g	1.23	0.16	J	pCi/g	
OSB-4	R	Thorium-228	OSB-4C-14-R	NONE	481073	1350784	4/7/97	1.10	0.14		pCi/g	1.11	0.14	J	pCi/g	
OSB-4	R	Thorium-228	OSB-4C-15-R	NONE	481106	1350798	4/7/97	0.97	0.12		pCi/g	1.02	0.12	J	pCi/g	
OSB-4	R	Thorium-228	OSB-4C-15-R	RE	481106	1350798	4/7/97	1.00	0.12		pCi/g	1.02	0.12	J	pCi/g	
OSB-4	R	Thorium-228	OSB-4C-16-R	NONE	481126	1350850	4/7/97	1.40	0.16		pCi/g	1.37	0.16	-	pCi/g	
OSB-4	R	Thorium-228	OSB-4C-2-R	NONE	480875	1350770	4/3/97	0.79	0.11		pCi/g	0.79	0.11	-	pCi/g	
OSB-4	R	Thorium-228	OSB-4C-3-R	NONE	480933	1350801	4/7/97	0.83	0.11		pCi/g	0.83	0.11	-	pCi/g	
OSB-4	R	Thorium-228	OSB-4C-4-R	NONE	480898	1350835	4/7/97	0.92	0.12		pCi/g	0.92	0.12	J	pCi/g	
OSB-4	R	Thorium-228	OSB-4C-4-R-D	NONE	480898	1350835	4/7/97	0.95	0.11		pCi/g	0.95	0.11	J	pCi/g	OSB-4C-4-R
OSB-4	R	Thorium-228	OSB-4C-5-R	NONE	480955	1350738	4/7/97	1.10	0.22		pCi/g	1.14	0.22	J	pCi/g	

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								Laboratory Data				Validation Data				
CU Name	CU Type	Parameter	Sample ID	Suffix	Northing	Easting	Sample Date	Lab Result	TPU	Qualifier	Units	Val. Result	TPU	Qualifier	Units	Duplicate of
OSB-4	R	Thorium-228	OSB-4C-6-R	NONE	480973	1350759	4/7/97	1.00	0.14		pCi/g	1.01	0.14	-	pCi/g	
OSB-4	R	Thorium-228	OSB-4C-7-R	NONE	480991	1350826	4/7/97	1.00	0.18		pCi/g	1.02	0.18	-	pCi/g	
OSB-4	R	Thorium-228	OSB-4C-8-R	NONE	480976	1350852	4/7/97	1.30	0.16		pCi/g	1.28	0.16	-	pCi/g	
OSB-4	R	Thorium-228	OSB-4C-9-R	NONE	481017	1350734	4/3/97	0.84	0.17		pCi/g	0.84	0.17	J	pCi/g	
OSB-4	R	Thorium-232	OSB-4C-1-R	NONE	480884	1350749	4/3/97	1.20	0.16		pCi/g	1.18	0.16	-	pCi/g	
OSB-4	R	Thorium-232	OSB-4C-10-R	NONE	481015	1350765	4/7/97	1.10	0.15		pCi/g	1.14	0.15	J	pCi/g	
OSB-4	R	Thorium-232	OSB-4C-11-R	NONE	481025	1350806	4/7/97	1.10	0.15		pCi/g	1.11	0.15	-	pCi/g	
OSB-4	R	Thorium-232	OSB-4C-12-R	NONE	481015	1350835	4/7/97	1.30	0.17		pCi/g	1.34	0.17	-	pCi/g	
OSB-4	R	Thorium-232	OSB-4C-13-R	NONE	481101	1350719	4/7/97	1.20	0.15		pCi/g	1.19	0.15	J	pCi/g	
OSB-4	R	Thorium-232	OSB-4C-14-R	NONE	481073	1350784	4/7/97	1.10	0.13		pCi/g	1.08	0.13	J	pCi/g	
OSB-4	R	Thorium-232	OSB-4C-15-R	NONE	481106	1350798	4/7/97	0.94	0.11		pCi/g	0.97	0.12	J	pCi/g	
OSB-4	R	Thorium-232	OSB-4C-15-R	RE	481106	1350798	4/7/97	0.97	0.12		pCi/g	0.97	0.12	J	pCi/g	
OSB-4	R	Thorium-232	OSB-4C-16-R	NONE	481126	1350850	4/7/97	1.30	0.16		pCi/g	1.32	0.16	-	pCi/g	
OSB-4	R	Thorium-232	OSB-4C-2-R	NONE	480875	1350770	4/3/97	0.76	0.10		pCi/g	0.76	0.10	-	pCi/g	
OSB-4	R	Thorium-232	OSB-4C-3-R	NONE	480933	1350801	4/7/97	0.80	0.11		pCi/g	0.80	0.11	-	pCi/g	
OSB-4	R	Thorium-232	OSB-4C-4-R	NONE	480898	1350835	4/7/97	0.89	0.11		pCi/g	0.89	0.11	J	pCi/g	
OSB-4	R	Thorium-232	OSB-4C-4-R-D	NONE	480898	1350835	4/7/97	0.92	0.11		pCi/g	0.92	0.11	J	pCi/g	OSB-4C-4-R
OSB-4	R	Thorium-232	OSB-4C-5-R	NONE	480955	1350738	4/7/97	1.10	0.21		pCi/g	1.10	0.21	J	pCi/g	
OSB-4	R	Thorium-232	OSB-4C-6-R	NONE	480973	1350759	4/7/97	0.98	0.13		pCi/g	0.98	0.13	-	pCi/g	
OSB-4	R	Thorium-232	OSB-4C-7-R	NONE	480991	1350826	4/7/97	0.99	0.18		pCi/g	0.99	0.18	-	pCi/g	
OSB-4	R	Thorium-232	OSB-4C-8-R	NONE	480976	1350852	4/7/97	1.20	0.15		pCi/g	1.24	0.15	-	pCi/g	
OSB-4	R	Thorium-232	OSB-4C-9-R	NONE	481017	1350734	4/3/97	0.81	0.16		pCi/g	0.81	0.16	J	pCi/g	
OSB-5	R	Thorium-228	OSB-5C-1-R	NONE	480920	1350612	4/9/97	1.20	0.14		pCi/g	1.22	0.14	J	pCi/g	
OSB-5	R	Thorium-228	OSB-5C-10-R	NONE	481027	1350640	4/8/97	0.97	0.13		pCi/g	0.97	0.13	-	pCi/g	
OSB-5	R	Thorium-228	OSB-5C-10-R-D	NONE	481027	1350640	4/8/97	1.10	0.14		pCi/g	1.12	0.14	J	pCi/g	OSB-5C-10-R
OSB-5	R	Thorium-228	OSB-5C-11-R	NONE	481046	1350665	4/8/97	1.10	0.13		pCi/g	1.14	0.13	J	pCi/g	
OSB-5	R	Thorium-228	OSB-5C-12-R	NONE	481035	1350703	4/8/97	0.95	0.11		pCi/g	0.95	0.11	J	pCi/g	
OSB-5	R	Thorium-228	OSB-5C-13-R	NONE	481110	1350611	4/8/97	0.83	0.11		pCi/g	0.83	0.11	J	pCi/g	
OSB-5	R	Thorium-228	OSB-5C-14-R	NONE	481123	1350646	4/8/97	1.20	0.19		pCi/g	1.20	0.19	-	pCi/g	
OSB-5	R	Thorium-228	OSB-5C-15-R	NONE	481080	1350673	4/8/97	1.10	0.14		pCi/g	1.13	0.14	-	pCi/g	
OSB-5	R	Thorium-228	OSB-5C-16-R	NONE	481085	1350690	4/8/97	0.97	0.16		pCi/g	0.97	0.16	-	pCi/g	
OSB-5	R	Thorium-228	OSB-5C-2-R	NONE	480959	1350651	4/9/97	1.10	0.14		pCi/g	1.09	0.14	J	pCi/g	
OSB-5	R	Thorium-228	OSB-5C-3-R	NONE	480931	1350663	4/9/97	1.30	0.16		pCi/g	1.30	0.16	-	pCi/g	
OSB-5	R	Thorium-228	OSB-5C-4-R	NONE	480935	1350697	4/9/97	0.72	0.10		pCi/g	0.72	0.10	-	pCi/g	
OSB-5	R	Thorium-228	OSB-5C-5-R	NONE	481009	1350622	4/9/97	1.40	0.26		pCi/g	1.41	0.26	J	pCi/g	
OSB-5	R	Thorium-228	OSB-5C-6-R	NONE	480974	1350628	4/9/97	1.20	0.15		pCi/g	1.19	0.15	-	pCi/g	
OSB-5	R	Thorium-228	OSB-5C-7-R	NONE	481007	1350666	4/8/97	0.86	0.11		pCi/g	0.87	0.11	-	pCi/g	
OSB-5	R	Thorium-228	OSB-5C-8-R	NONE	481006	1350709	4/8/97	1.00	0.13		pCi/g	1.01	0.13	-	pCi/g	
OSB-5	R	Thorium-228	OSB-5C-9-R	NONE	481062	1350602	4/8/97	0.96	0.18		pCi/g	0.96	0.18	J	pCi/g	

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								Laboratory Data				Validation Data				
CU Name	CU Type	Parameter	Sample ID	Suffix	Northing	Easting	Sample Date	Lab Result	TPU	Qualifier	Units	Val. Result	TPU	Qualifier	Units	Duplicate of
OSB-5	R	Thorium-232	OSB-5C-1-R	NONE	480920	1350612	4/9/97	1.20	0.14		pCi/g	1.19	0.14	J	pCi/g	
OSB-5	R	Thorium-232	OSB-5C-10-R	NONE	481027	1350640	4/8/97	0.94	0.13		pCi/g	0.94	0.13	-	pCi/g	
OSB-5	R	Thorium-232	OSB-5C-10-R-D	NONE	481027	1350640	4/8/97	1.10	0.13		pCi/g	1.09	0.13	J	pCi/g	OSB-5C-10-R
OSB-5	R	Thorium-232	OSB-5C-11-R	NONE	481046	1350665	4/8/97	1.10	0.13		pCi/g	1.11	0.13	J	pCi/g	
OSB-5	R	Thorium-232	OSB-5C-12-R	NONE	481035	1350703	4/8/97	0.92	0.11		pCi/g	0.92	0.11	J	pCi/g	
OSB-5	R	Thorium-232	OSB-5C-13-R	NONE	481110	1350611	4/8/97	0.80	0.11		pCi/g	0.80	0.11	J	pCi/g	
OSB-5	R	Thorium-232	OSB-5C-14-R	NONE	481123	1350646	4/8/97	1.20	0.19		pCi/g	1.17	0.19	-	pCi/g	
OSB-5	R	Thorium-232	OSB-5C-15-R	NONE	481080	1350673	4/8/97	1.10	0.13		pCi/g	1.09	0.13	-	pCi/g	
OSB-5	R	Thorium-232	OSB-5C-16-R	NONE	481085	1350690	4/8/97	0.94	0.15		pCi/g	0.94	0.15	-	pCi/g	
OSB-5	R	Thorium-232	OSB-5C-2-R	NONE	480959	1350651	4/9/97	1.10	0.13		pCi/g	1.06	0.13	J	pCi/g	
OSB-5	R	Thorium-232	OSB-5C-3-R	NONE	480931	1350663	4/9/97	1.30	0.15		pCi/g	1.26	0.15	-	pCi/g	
OSB-5	R	Thorium-232	OSB-5C-4-R	NONE	480935	1350697	4/9/97	0.70	0.10		pCi/g	0.70	0.10	-	pCi/g	
OSB-5	R	Thorium-232	OSB-5C-5-R	NONE	481009	1350622	4/9/97	1.40	0.26		pCi/g	1.37	0.26	J	pCi/g	
OSB-5	R	Thorium-232	OSB-5C-6-R	NONE	480974	1350628	4/9/97	1.20	0.15		pCi/g	1.16	0.15	-	pCi/g	
OSB-5	R	Thorium-232	OSB-5C-7-R	NONE	481007	1350666	4/8/97	0.84	0.11		pCi/g	0.84	0.11	-	pCi/g	
OSB-5	R	Thorium-232	OSB-5C-8-R	NONE	481006	1350709	4/8/97	0.98	0.13		pCi/g	0.98	0.13	-	pCi/g	
OSB-5	R	Thorium-232	OSB-5C-9-R	NONE	481062	1350602	4/8/97	0.93	0.18		pCi/g	0.93	0.18	J	pCi/g	
P17-22	R	Thorium-228	P17-22C2-R-1	NONE	481569.86	1351329	3/24/97	1.60	0.20		pCi/g	1.56	0.20	J	pCi/g	
P17-22	R	Thorium-228	P17-22C2-R-1-D	NONE	481569.86	1351329	3/24/97	1.50	0.17		pCi/g	1.54	0.17	J	pCi/g	P17-22C2-R-1
P17-22	R	Thorium-228	P17-22C2-R-10	NONE	481469.69	1351393	3/24/97	1.70	0.22		pCi/g	1.67	0.22	J	pCi/g	
P17-22	R	Thorium-228	P17-22C2-R-11	NONE	481599.7	1351397	3/24/97	1.00	1.40	U	pCi/g	1.27	0.20	J	pCi/g	
P17-22	R	Thorium-228	P17-22C2-R-12	NONE	481625.84	1351355	3/24/97	1.30	0.15		pCi/g	1.30	0.15	J	pCi/g	
P17-22	R	Thorium-228	P17-22C2-R-13	NONE	481702.5	1351368	3/24/97	1.10	0.18		pCi/g	1.14	0.18	J	pCi/g	
P17-22	R	Thorium-228	P17-22C2-R-13-D	NONE	481702.5	1351368	3/24/97	1.30	1.50		pCi/g	1.30	0.15	J	pCi/g	P17-22C2-R-13
P17-22	R	Thorium-228	P17-22C2-R-2	NONE	481523.79	1351333	3/24/97	1.60	0.21		pCi/g	1.59	0.21	J	pCi/g	
P17-22	R	Thorium-228	P17-22C2-R-2	RE	481523.79	1351333	3/24/97	1.60	0.21		pCi/g	1.59	0.21	J	pCi/g	
P17-22	R	Thorium-228	P17-22C2-R-3	NONE	481477.66	1351339	3/24/97	1.30	0.20		pCi/g	1.31	0.20	J	pCi/g	
P17-22	R	Thorium-228	P17-22C2-R-4	NONE	481402.76	1351342	3/24/97	1.40	0.16		pCi/g	1.40	0.16	J	pCi/g	
P17-22	R	Thorium-228	P17-22C2-R-5	NONE	481351.74	1351365	3/24/97	1.20	0.19		pCi/g	1.23	0.19	J	pCi/g	
P17-22	R	Thorium-228	P17-22C2-R-5	RE	481351.74	1351365	3/24/97	1.20	0.19		pCi/g	1.23	0.19	J	pCi/g	
P17-22	R	Thorium-228	P17-22C2-R-6	NONE	481331.39	1351375	3/24/97	1.50	1.60		pCi/g	1.49	0.17	J	pCi/g	
P17-22	R	Thorium-228	P17-22C2-R-7	NONE	481444.59	1351375	3/24/97	1.70	0.22		pCi/g	1.69	0.22	J	pCi/g	
P17-22	R	Thorium-228	P17-22C2-R-8	NONE	481229.54	1351389	3/24/97	1.50	0.22		pCi/g	1.47	0.22	J	pCi/g	
P17-22	R	Thorium-228	P17-22C2-R-9	NONE	481453.87	1351390	3/24/97	1.50	1.70		pCi/g	1.49	0.17	J	pCi/g	
P17-22	R	Thorium-232	P17-22C2-R-1	NONE	481569.86	1351329	3/24/97	1.60	0.20		pCi/g	1.56	0.20	J	pCi/g	
P17-22	R	Thorium-232	P17-22C2-R-1-D	NONE	481569.86	1351329	3/24/97	1.50	0.17		pCi/g	1.54	0.17	J	pCi/g	P17-22C2-R-1
P17-22	R	Thorium-232	P17-22C2-R-10	NONE	481469.69	1351393	3/24/97	1.70	0.22		pCi/g	1.67	0.22	J	pCi/g	
P17-22	R	Thorium-232	P17-22C2-R-11	NONE	481599.7	1351397	3/24/97	1.00	1.40		pCi/g	1.27	0.20	J	pCi/g	
P17-22	R	Thorium-232	P17-22C2-R-12	NONE	481625.84	1351355	3/24/97	1.30	0.15		pCi/g	1.30	0.15	J	pCi/g	

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								Laboratory Data				Validation Data				
CU Name	CU Type	Parameter	Sample ID	Suffix	Northing	Easting	Sample Date	Lab Result	TPU	Qualifier	Units	Val. Result	TPU	Qualifier	Units	Duplicate of
P17-22	R	Thorium-232	P17-22C2-R-13	NONE	481702.5	1351368	3/24/97	1.10	0.18		pCi/g	1.14	0.18	J	pCi/g	
P17-22	R	Thorium-232	P17-22C2-R-13-D	NONE	481702.5	1351368	3/24/97	1.30	1.50		pCi/g	1.30	0.15	J	pCi/g	P17-22C2-R-13
P17-22	R	Thorium-232	P17-22C2-R-2	NONE	481523.79	1351333	3/24/97	1.60	0.21		pCi/g	1.59	0.21	J	pCi/g	
P17-22	R	Thorium-232	P17-22C2-R-2	RE	481523.79	1351333	3/24/97	1.60	0.21		pCi/g	1.59	0.21	J	pCi/g	
P17-22	R	Thorium-232	P17-22C2-R-3	NONE	481477.66	1351339	3/24/97	1.30	0.20		pCi/g	1.31	0.20	J	pCi/g	
P17-22	R	Thorium-232	P17-22C2-R-4	NONE	481402.76	1351342	3/24/97	1.40	0.16		pCi/g	1.40	0.16	J	pCi/g	
P17-22	R	Thorium-232	P17-22C2-R-5	NONE	481351.74	1351365	3/24/97	1.20	0.19		pCi/g	1.23	0.19	J	pCi/g	
P17-22	R	Thorium-232	P17-22C2-R-5	RE	481351.74	1351365	3/24/97	1.20	0.19		pCi/g	1.23	0.19	J	pCi/g	
P17-22	R	Thorium-232	P17-22C2-R-6	NONE	481331.39	1351375	3/24/97	1.50	1.60		pCi/g	1.49	0.17	J	pCi/g	
P17-22	R	Thorium-232	P17-22C2-R-7	NONE	481444.59	1351375	3/24/97	1.70	0.22		pCi/g	1.69	0.22	J	pCi/g	
P17-22	R	Thorium-232	P17-22C2-R-8	NONE	481229.54	1351389	3/24/97	1.50	0.22		pCi/g	1.47	0.22	J	pCi/g	
P17-22	R	Thorium-232	P17-22C2-R-9	NONE	481453.87	1351390	3/24/97	1.50	1.70		pCi/g	1.49	0.17	J	pCi/g	
P17-31	R	Thorium-228	P17-31C-617931	NONE	481931.69	1350618	12/10/96	1.20	0.17		pCi/g	1.16	0.17	-	pCi/g	
P17-31	R	Thorium-228	P17-31C-629859	NONE	481859.55	1350629	12/10/96	1.20	0.14		pCi/g	1.20	0.14	-	pCi/g	
P17-31	R	Thorium-228	P17-31C-671888	NONE	481888.56	1350672	12/10/96	1.30	0.15		pCi/g	1.30	0.15	-	pCi/g	
P17-31	R	Thorium-228	P17-31C-686817	NONE	481817.96	1350687	12/10/96	1.30	0.15		pCi/g	1.30	0.15	-	pCi/g	
P17-31	R	Thorium-228	P17-31C-712816	NONE	481816.84	1350712	12/10/96	1.30	0.15		pCi/g	1.30	0.15	-	pCi/g	
P17-31	R	Thorium-228	P17-31C-717890	NONE	481890.68	1350718	12/10/96	1.20	0.14		pCi/g	1.20	0.14	-	pCi/g	
P17-31	R	Thorium-228	P17-31C-725916	NONE	481916.9	1350725	12/10/96	1.20	0.13		pCi/g	1.20	0.13	-	pCi/g	
P17-31	R	Thorium-228	P17-31C-741994	NONE	481994.72	1350742	12/10/96	0.86	0.10		pCi/g	0.86	0.10	-	pCi/g	
P17-31	R	Thorium-228	P17-31C-769970	NONE	481970.46	1350769	12/10/96	0.99	0.14		pCi/g	0.99	0.14	-	pCi/g	
P17-31	R	Thorium-228	P17-31C-784863	NONE	481863.88	1350784	12/10/96	1.40	0.14		pCi/g	1.40	0.14	-	pCi/g	
P17-31	R	Thorium-228	P17-31C-791838	NONE	481838.71	1350792	12/10/96	1.30	0.15		pCi/g	1.30	0.15	-	pCi/g	
P17-31	R	Thorium-228	P17-31C-795925	NONE	481925.63	1350795	12/10/96	1.20	0.15		pCi/g	1.20	0.15	-	pCi/g	
P17-31	R	Thorium-232	P17-31C-617931	NONE	481931.69	1350618	12/10/96	1.10	0.16		pCi/g	1.11	0.16	-	pCi/g	
P17-31	R	Thorium-232	P17-31C-629859	NONE	481859.55	1350629	12/10/96	1.20	0.14		pCi/g	1.20	0.14	-	pCi/g	
P17-31	R	Thorium-232	P17-31C-671888	NONE	481888.56	1350672	12/10/96	1.30	0.15		pCi/g	1.30	0.15	-	pCi/g	
P17-31	R	Thorium-232	P17-31C-686817	NONE	481817.96	1350687	12/10/96	1.30	0.15		pCi/g	1.30	0.15	-	pCi/g	
P17-31	R	Thorium-232	P17-31C-712816	NONE	481816.84	1350712	12/10/96	1.30	0.15		pCi/g	1.30	0.15	-	pCi/g	
P17-31	R	Thorium-232	P17-31C-717890	NONE	481890.68	1350718	12/10/96	1.20	0.14		pCi/g	1.20	0.14	-	pCi/g	
P17-31	R	Thorium-232	P17-31C-725916	NONE	481916.9	1350725	12/10/96	1.20	0.13		pCi/g	1.20	0.13	-	pCi/g	
P17-31	R	Thorium-232	P17-31C-741994	NONE	481994.72	1350742	12/10/96	0.86	0.10		pCi/g	0.86	0.10	-	pCi/g	
P17-31	R	Thorium-232	P17-31C-769970	NONE	481970.46	1350769	12/10/96	0.99	0.14		pCi/g	0.99	0.14	-	pCi/g	
P17-31	R	Thorium-232	P17-31C-784863	NONE	481863.88	1350784	12/10/96	1.40	0.14		pCi/g	1.40	0.14	-	pCi/g	
P17-31	R	Thorium-232	P17-31C-791838	NONE	481838.71	1350792	12/10/96	1.30	0.15		pCi/g	1.30	0.15	-	pCi/g	
P17-31	R	Thorium-232	P17-31C-795925	NONE	481925.63	1350795	12/10/96	1.20	0.15		pCi/g	1.20	0.15	-	pCi/g	
P17-31	R	Uranium-238	P17-31C-629859	NONE	481859.55	1350629	12/10/96	4.50	1.70		pCi/g	4.50	1.70	J	pCi/g	
P17-31	R	Uranium-238	P17-31C-671888	NONE	481888.56	1350672	12/10/96	0.40	0.92		pCi/g	2.40	0.92	J	pCi/g	
P17-31	R	Uranium-238	P17-31C-686817	NONE	481817.96	1350687	12/10/96	3.50	1.30		pCi/g	3.50	1.30	J	pCi/g	

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A1P1 CERTIFICATION REPORT - APPENDIX B-1 Non-Certification Data

								Laboratory Data				Validation Data				
CU Name	CU Type	Parameter	Sample ID	Suffix	Northing	Easting	Sample Date	Lab Result	TPU	Qualifier	Units	Val. Result	TPU	Qualifier	Units	Duplicate of
P17-31	R	Uranium-238	P17-31C-712816	NONE	481816.84	1350712	12/10/96	3.60	1.40		pCi/g	3.60	1.40	J	pCi/g	
P17-31	R	Uranium-238	P17-31C-717890	NONE	481890.68	1350718	12/10/96	6.60	2.60		pCi/g	6.60	2.60	J	pCi/g	
P17-31	R	Uranium-238	P17-31C-725916	NONE	481916.9	1350725	12/10/96	6.90	2.30		pCi/g	6.90	2.30	J	pCi/g	
P17-31	R	Uranium-238	P17-31C-741994	NONE	481994.72	1350742	12/10/96	3.30	1.20		pCi/g	3.30	1.20	J	pCi/g	
P17-31	R	Uranium-238	P17-31C-769970	NONE	481970.46	1350769	12/10/96	2.10	0.87		pCi/g	2.10	0.87	J	pCi/g	
P17-31	R	Uranium-238	P17-31C-784863	NONE	481863.88	1350784	12/10/96	1.80	0.69		pCi/g	1.80	0.69	J	pCi/g	
P17-31	R	Uranium-238	P17-31C-791838	NONE	481838.71	1350792	12/10/96	2.30	0.88		pCi/g	2.30	0.88	J	pCi/g	
P17-31	R	Uranium-238	P17-31C-795925	NONE	481925.63	1350795	12/10/96	1.60	0.64		pCi/g	1.60	0.64	J	pCi/g	
P17-32	M	Arsenic	P17-32C-824828	NONE	481828.87	1350825	12/18/96	10.30			mg/kg	10.30		J	mg/kg	
P17-32	M	Arsenic	P17-32C-829914	NONE	481914.84	1350830	12/18/96	14.80			mg/kg	14.80		J	mg/kg	
P17-32	M	Arsenic	P17-32C-835920	NONE	481920	1350835	1/16/97	16.90			mg/kg	16.90		-	mg/kg	
P17-32	M	Arsenic	P17-32C-847827	NONE	481827.36	1350847	12/18/96	10.70			mg/kg	10.70		J	mg/kg	
P17-32	M	Arsenic	P17-32C-850820	NONE	481820	1350850	1/16/97	14.10			mg/kg	14.10		-	mg/kg	
P17-32	M	Arsenic	P17-32C-866935	NONE	481935.76	1350866	12/18/96	7.10			mg/kg	7.10		-	mg/kg	
P17-32	M	Arsenic	P17-32C-876808	NONE	481808	1350876	12/18/96	13.80			mg/kg	13.80		-	mg/kg	
P17-32	M	Arsenic	P17-32C-880982	NONE	481982.82	1350880	12/18/96	7.40			mg/kg	7.40		-	mg/kg	
P17-32	M	Arsenic	P17-32C2-M-1	NONE	481996.38	1350808	3/21/97	10.80			mg/kg	10.80		-	mg/kg	
P17-32	M	Arsenic	P17-32C2-M-2	NONE	481969.69	1350838	3/21/97	14.60			mg/kg	14.60		-	mg/kg	
P17-32	M	Arsenic	P17-32C2-M-3	NONE	481978.48	1350868	3/21/97	16.00			mg/kg	16.00		-	mg/kg	
P17-32	M	Arsenic	P17-32C2-M-4	NONE	481872.61	1350815	3/21/97	7.10			mg/kg	7.10		-	mg/kg	
P17-32	M	Arsenic	P17-32C2-M-5	NONE	481859.7	1350882	3/21/97	13.90			mg/kg	13.90		-	mg/kg	
P17-32	M	Arsenic	P17-32C2-M-6	NONE	481777.29	1350808	3/21/97	7.50			mg/kg	7.50		-	mg/kg	
P17-32	R	Thorium-228	P17-32C-803857	NONE	481857.51	1350803	12/18/96	1.40	0.16		pCi/g	1.40	0.16	-	pCi/g	
P17-32	R	Thorium-228	P17-32C-820936	NONE	481936.79	1350821	12/18/96	1.30	0.15		pCi/g	1.30	0.15	-	pCi/g	
P17-32	R	Thorium-228	P17-32C-826838	NONE	481838	1350826	12/17/96	1.40	0.18		pCi/g	1.35	0.18	-	pCi/g	
P17-32	R	Thorium-228	P17-32C-835924	NONE	481924	1350835	1/16/97	1.50	0.20		pCi/g	1.47	0.20	-	pCi/g	
P17-32	R	Thorium-228	P17-32C-835924-D	NONE	481924	1350835	1/16/97	1.60	0.24		pCi/g	1.61	0.24	-	pCi/g	P17-32C-835924
P17-32	R	Thorium-228	P17-32C-839950	NONE	481950.86	1350840	12/18/96	1.80	0.21		pCi/g	1.80	0.21	-	pCi/g	
P17-32	R	Thorium-228	P17-32C-843800	NONE	481800	1350843	1/16/97	1.20	0.16		pCi/g	1.19	0.16	-	pCi/g	
P17-32	R	Thorium-228	P17-32C-850822	NONE	481822	1350850	1/16/97	1.50	0.20		pCi/g	1.47	0.20	-	pCi/g	
P17-32	R	Thorium-228	P17-32C-858878	NONE	481878.9	1350858	12/17/96	1.50	0.16		pCi/g	1.50	0.16	-	pCi/g	
P17-32	R	Thorium-228	P17-32C-860812	NONE	481812	1350860	1/16/97	1.30	0.16		pCi/g	1.33	0.16	-	pCi/g	
P17-32	R	Thorium-228	P17-32C-879990	NONE	481990	1350879	12/18/96	1.80	0.18		pCi/g	1.80	0.18	-	pCi/g	
P17-32	R	Thorium-228	P17-32C-881901	NONE	481901.13	1350881	12/18/96	1.50	0.15		pCi/g	1.50	0.15	-	pCi/g	
P17-32	R	Thorium-228	P17-32C-883831	NONE	481831	1350883	12/18/96	1.40	0.15		pCi/g	1.40	0.15	-	pCi/g	
P17-32	R	Thorium-232	P17-32C-803857	NONE	481857.51	1350803	12/18/96	1.40	0.16		pCi/g	1.40	0.16	-	pCi/g	
P17-32	R	Thorium-232	P17-32C-820936	NONE	481936.79	1350821	12/18/96	1.30	0.15		pCi/g	1.30	0.15	-	pCi/g	
P17-32	R	Thorium-232	P17-32C-826838	NONE	481838	1350826	12/17/96	1.30	0.17		pCi/g	1.29	0.17	-	pCi/g	
P17-32	R	Thorium-232	P17-32C-835924	NONE	481924	1350835	1/16/97	1.40	0.19		pCi/g	1.45	0.19	-	pCi/g	

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								Laboratory Data				Validation Data				
CU Name	CU Type	Parameter	Sample ID	Suffix	Northing	Easting	Sample Date	Lab Result	TPU	Qualifier	Units	Val. Result	TPU	Qualifier	Units	Duplicate of
P17-32	R	Thorium-232	P17-32C-835924-D	NONE	481924	1350835	1/16/97	1.60	0.23		pCi/g	1.58	0.23	-	pCi/g	P17-32C-835924
P17-32	R	Thorium-232	P17-32C-839950	NONE	481950.86	1350840	12/18/96	1.80	0.21		pCi/g	1.80	0.21	-	pCi/g	
P17-32	R	Thorium-232	P17-32C-843800	NONE	481800	1350843	1/16/97	1.20	0.16		pCi/g	1.17	0.16	-	pCi/g	
P17-32	R	Thorium-232	P17-32C-850822	NONE	481822	1350850	1/16/97	1.50	0.20		pCi/g	1.45	0.20	-	pCi/g	
P17-32	R	Thorium-232	P17-32C-858878	NONE	481878.9	1350858	12/17/96	1.50	0.16		pCi/g	1.50	0.16	-	pCi/g	
P17-32	R	Thorium-232	P17-32C-860812	NONE	481812	1350860	1/16/97	1.30	0.16		pCi/g	1.31	0.16	-	pCi/g	
P17-32	R	Thorium-232	P17-32C-879990	NONE	481990	1350879	12/18/96	1.80	0.18		pCi/g	1.80	0.18	-	pCi/g	
P17-32	R	Thorium-232	P17-32C-881901	NONE	481901.13	1350881	12/18/96	1.50	0.15		pCi/g	1.50	0.15	-	pCi/g	
P17-32	R	Thorium-232	P17-32C-883831	NONE	481831	1350883	12/18/96	1.40	0.15		pCi/g	1.40	0.15	-	pCi/g	
P17-32	R	Uranium-238	P17-32C-803857	NONE	481857.51	1350803	12/18/96	1.20	0.45		pCi/g	1.20	0.45	J	pCi/g	
P17-32	R	Uranium-238	P17-32C-820936	NONE	481936.79	1350821	12/18/96	5.10	2.10		pCi/g	5.10	2.10	-	pCi/g	
P17-32	R	Uranium-238	P17-32C-839950	NONE	481950.86	1350840	12/18/96	3.50	1.50		pCi/g	3.50	1.50	J	pCi/g	
P17-32	R	Uranium-238	P17-32C-858878	NONE	481878.9	1350858	12/17/96	1.50	0.55		pCi/g	1.50	0.55	-	pCi/g	
P17-32	R	Uranium-238	P17-32C-879990	NONE	481990	1350879	12/18/96	1.50	0.60		pCi/g	1.50	0.60	-	pCi/g	
P17-32	R	Uranium-238	P17-32C-881901	NONE	481901.13	1350881	12/18/96	11.00	0.45		pCi/g	11.00	4.50	-	pCi/g	
P17-32	R	Uranium-238	P17-32C-883831	NONE	481831	1350883	12/18/96	7.90	2.90		pCi/g	7.90	2.90	-	pCi/g	
P17-33	R	Thorium-228	P17-33C-604181	NONE	482181.8	1350604	12/11/96	1.20	0.14		pCi/g	1.20	0.14	J	pCi/g	
P17-33	R	Thorium-228	P17-33C-620020	NONE	482020.11	1350620	12/11/96	1.00	0.13		pCi/g	1.00	0.13	J	pCi/g	
P17-33	R	Thorium-228	P17-33C-620020-D	NONE	482020.11	1350620	12/11/96	0.57	0.09		pCi/g	0.57	0.09	R	pCi/g	P17-33C-620020
P17-33	R	Thorium-228	P17-33C-634109	NONE	482109.55	1350635	12/11/96	0.76	0.10		pCi/g	0.76	0.10	J	pCi/g	
P17-33	R	Thorium-228	P17-33C-663037	NONE	482037.91	1350664	12/11/96	1.00	0.12		pCi/g	1.00	0.12	J	pCi/g	
P17-33	R	Thorium-228	P17-33C-684068	NONE	482068.92	1350685	12/11/96	0.74	0.11		pCi/g	0.74	0.11	J	pCi/g	
P17-33	R	Thorium-228	P17-33C-697110	NONE	482110.69	1350697	12/11/96	1.10	0.13		pCi/g	1.10	0.13	J	pCi/g	
P17-33	R	Thorium-228	P17-33C-720017	NONE	482017.55	1350721	12/11/96	0.96	0.12		pCi/g	0.96	0.12	J	pCi/g	
P17-33	R	Thorium-228	P17-33C-727116	NONE	482116.26	1350728	12/11/96	1.30	0.15		pCi/g	1.30	0.15	J	pCi/g	
P17-33	R	Thorium-228	P17-33C-736082	NONE	482082.89	1350736	12/11/96	0.57	0.07		pCi/g	1.20	0.14	J	pCi/g	
P17-33	R	Thorium-228	P17-33C-747174	NONE	482174.14	1350748	12/11/96	0.97	0.12		pCi/g	0.97	0.12	J	pCi/g	
P17-33	R	Thorium-228	P17-33C-764098	NONE	482098.94	1350765	12/11/96	1.20	0.14		pCi/g	0.90	0.11	J	pCi/g	
P17-33	R	Thorium-228	P17-33C-780141	NONE	482141.65	1350780	12/11/96	0.94	0.12		pCi/g	0.94	0.12	J	pCi/g	
P17-33	R	Thorium-232	P17-33C-604181	NONE	482181.8	1350604	12/11/96	1.20	0.14		pCi/g	1.20	0.14	J	pCi/g	
P17-33	R	Thorium-232	P17-33C-620020	NONE	482020.11	1350620	12/11/96	1.00	0.13		pCi/g	1.00	0.13	J	pCi/g	
P17-33	R	Thorium-232	P17-33C-620020-D	NONE	482020.11	1350620	12/11/96	0.57	0.09		pCi/g	0.57	0.09	R	pCi/g	P17-33C-620020
P17-33	R	Thorium-232	P17-33C-634109	NONE	482109.55	1350635	12/11/96	0.76	0.10		pCi/g	0.76	0.10	J	pCi/g	
P17-33	R	Thorium-232	P17-33C-663037	NONE	482037.91	1350664	12/11/96	1.00	0.12		pCi/g	1.00	0.12	J	pCi/g	
P17-33	R	Thorium-232	P17-33C-684068	NONE	482068.92	1350685	12/11/96	0.74	0.11		pCi/g	0.74	0.11	J	pCi/g	
P17-33	R	Thorium-232	P17-33C-697110	NONE	482110.69	1350697	12/11/96	1.10	0.13		pCi/g	1.10	0.13	J	pCi/g	
P17-33	R	Thorium-232	P17-33C-720017	NONE	482017.55	1350721	12/11/96	0.96	0.12		pCi/g	0.96	0.12	J	pCi/g	
P17-33	R	Thorium-232	P17-33C-727116	NONE	482116.26	1350728	12/11/96	1.30	0.15		pCi/g	1.30	0.15	J	pCi/g	
P17-33	R	Thorium-232	P17-33C-736082	NONE	482082.89	1350736	12/11/96	0.57	0.07		pCi/g	1.20	0.14	J	pCi/g	

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								Laboratory Data				Validation Data				
CU Name	CU Type	Parameter	Sample ID	Suffix	Northing	Easting	Sample Date	Lab Result	TPU	Qualifier	Units	Val. Result	TPU	Qualifier	Units	Duplicate of
P17-33	R	Thorium-232	P17-33C-747174	NONE	482174.14	1350748	12/11/96	0.97	0.12		pCi/g	0.97	0.12	J	pCi/g	
P17-33	R	Thorium-232	P17-33C-764098	NONE	482098.94	1350765	12/11/96	1.20	0.14		pCi/g	0.90	0.11	J	pCi/g	
P17-33	R	Thorium-232	P17-33C-780141	NONE	482141.65	1350780	12/11/96	0.94	0.12		pCi/g	0.94	0.12	J	pCi/g	
P17-33	R	Uranium-238	P17-33C-604181	NONE	482181.8	1350604	12/11/96	5.20	1.90		pCi/g	5.20	1.90	-	pCi/g	
P17-33	R	Uranium-238	P17-33C-620020	NONE	482020.11	1350620	12/11/96	3.70	1.60		pCi/g	3.70	1.60	-	pCi/g	
P17-33	R	Uranium-238	P17-33C-620020-D	NONE	482020.11	1350620	12/11/96	2.90	0.98		pCi/g	2.90	0.98	R	pCi/g	P17-33C-620020
P17-33	R	Uranium-238	P17-33C-634109	NONE	482109.55	1350635	12/11/96	3.90	1.40		pCi/g	3.90	1.40	-	pCi/g	
P17-33	R	Uranium-238	P17-33C-663037	NONE	482037.91	1350664	12/11/96	4.00	1.40		pCi/g	4.00	1.40	-	pCi/g	
P17-33	R	Uranium-238	P17-33C-684068	NONE	482068.92	1350685	12/11/96	3.40	1.20		pCi/g	3.40	1.20	-	pCi/g	
P17-33	R	Uranium-238	P17-33C-697110	NONE	482110.69	1350697	12/11/96	4.10	1.30		pCi/g	4.10	1.30	-	pCi/g	
P17-33	R	Uranium-238	P17-33C-720017	NONE	482017.55	1350721	12/11/96	5.00	1.90		pCi/g	5.00	1.90	-	pCi/g	
P17-33	R	Uranium-238	P17-33C-727116	NONE	482116.26	1350728	12/11/96	4.60	1.60		pCi/g	4.60	1.60	-	pCi/g	
P17-33	R	Uranium-238	P17-33C-736082	NONE	482082.89	1350736	12/11/96	3.40	1.20		pCi/g	3.40	1.20	-	pCi/g	
P17-33	R	Uranium-238	P17-33C-747174	NONE	482174.14	1350748	12/11/96	2.70	1.10		pCi/g	2.70	1.10	J	pCi/g	
P17-33	R	Uranium-238	P17-33C-764098	NONE	482098.94	1350765	12/11/96	2.90	1.10		pCi/g	2.90	1.10	-	pCi/g	
P17-33	R	Uranium-238	P17-33C-780141	NONE	482141.65	1350780	12/11/96	3.20	1.20		pCi/g	3.20	1.20	-	pCi/g	
P17-40	R	Thorium-228	P17-34C-964146	NONE	482146.5	1350964	12/3/96	1.30	0.15		pCi/g	1.30	0.15	-	pCi/g	
P17-40	R	Thorium-228	P17-34C-972199	NONE	482199.62	1350972	12/3/96	1.30	0.15		pCi/g	1.30	0.15	-	pCi/g	
P17-40	R	Thorium-228	P17-40C-052114	NONE	482114.11	1351052	12/4/96	1.40	0.15		pCi/g	1.40	0.15	-	pCi/g	
P17-40	R	Thorium-228	P17-40C-145113	NONE	482113.38	1351145	12/4/96	1.30	0.15		pCi/g	1.30	0.15	-	pCi/g	
P17-40	R	Thorium-228	P17-40C-281110	NONE	482110.58	1351281	12/4/96	1.40	0.15		pCi/g	1.40	0.15	-	pCi/g	
P17-40	R	Thorium-228	P17-40C-289031	NONE	482031.42	1351289	12/4/96	1.40	0.15		pCi/g	1.40	0.15	-	pCi/g	
P17-40	R	Thorium-228	P17-40C-292103	NONE	482103.44	1351293	12/4/96	1.70	0.18		pCi/g	1.70	0.18	-	pCi/g	
P17-40	R	Thorium-228	P17-40C-368105	NONE	482105.67	1351369	12/4/96	1.40	0.16		pCi/g	1.40	0.16	-	pCi/g	
P17-40	R	Thorium-228	P17-40C-397115	NONE	482115.22	1351398	12/4/96	1.40	0.15		pCi/g	1.40	0.15	-	pCi/g	
P17-40	R	Thorium-228	P17-40C-398021	NONE	482021.7	1351399	12/4/96	1.60	0.17		pCi/g	1.60	0.17	-	pCi/g	
P17-40	R	Thorium-228	P17-40C-398021-D	NONE	482021.7	1351399	12/4/96	1.40	0.14		pCi/g	1.40	0.14	-	pCi/g	P17-40C-398021
P17-40	R	Thorium-228	P17-40C2-R-1	NONE	481920.06	1351359	3/21/97	1.60	0.17		pCi/g	1.58	0.17	-	pCi/g	
P17-40	R	Thorium-228	P17-40C2-R-3	NONE	482027.6	1350979	3/24/97	1.30	0.20		pCi/g	1.30	0.20	-	pCi/g	
P17-40	R	Thorium-228	P17-40C2-R-3-D	NONE	482027.6	1350979	3/24/97	1.30	0.15		pCi/g	1.31	0.15	-	pCi/g	P17-40C2-R-3
P17-40	R	Thorium-228	P17-40C2-R-4	NONE	482005.62	1351075	3/24/97	1.10	0.15		pCi/g	1.12	0.16	-	pCi/g	
P17-40	R	Thorium-228	P17-40C2-R-5	NONE	482001.85	1351120	3/24/97	1.30	0.20		pCi/g	1.25	0.20	-	pCi/g	
P17-40	R	Thorium-232	P17-34C-964146	NONE	482146.5	1350964	12/3/96	1.30	0.15		pCi/g	1.30	0.15	-	pCi/g	
P17-40	R	Thorium-232	P17-34C-972199	NONE	482199.62	1350972	12/3/96	1.30	0.15		pCi/g	1.30	0.15	-	pCi/g	
P17-40	R	Thorium-232	P17-40C-052114	NONE	482114.11	1351052	12/4/96	1.40	0.15		pCi/g	1.40	0.15	-	pCi/g	
P17-40	R	Thorium-232	P17-40C-145113	NONE	482113.38	1351145	12/4/96	1.30	0.15		pCi/g	1.30	0.15	-	pCi/g	
P17-40	R	Thorium-232	P17-40C-281110	NONE	482110.58	1351281	12/4/96	1.40	0.15		pCi/g	1.40	0.15	-	pCi/g	
P17-40	R	Thorium-232	P17-40C-289031	NONE	482031.42	1351289	12/4/96	1.40	0.15		pCi/g	1.40	0.15	-	pCi/g	
P17-40	R	Thorium-232	P17-40C-292103	NONE	482103.44	1351293	12/4/96	1.70	0.18		pCi/g	1.70	0.18	-	pCi/g	

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							Laboratory Data				Validation Data				
CU Name	CU Type	Parameter	Sample ID	Suffix	Northing	Easting	Sample Date	Lab Result	TPU	Qualifier	Units	Val. Result	TPU	Qualifier	Units	Duplicate of
P17-40	R	Thorium-232	P17-40C-368105	NONE	482105.67	1351369	12/4/96	1.40	0.16		pCi/g	1.40	0.16	-	pCi/g	
P17-40	R	Thorium-232	P17-40C-397115	NONE	482115.22	1351398	12/4/96	1.40	0.15		pCi/g	1.40	0.15	-	pCi/g	
P17-40	R	Thorium-232	P17-40C-398021	NONE	482021.7	1351399	12/4/96	1.60	0.17		pCi/g	1.60	0.17	-	pCi/g	
P17-40	R	Thorium-232	P17-40C-398021-D	NONE	482021.7	1351399	12/4/96	1.40	0.14		pCi/g	1.40	0.14	-	pCi/g	P17-40C-398021
P17-40	R	Thorium-232	P17-40C2-R-1	NONE	481920.06	1351359	3/21/97	1.60	0.17		pCi/g	1.58	0.17	-	pCi/g	
P17-40	R	Thorium-232	P17-40C2-R-3	NONE	482027.6	1350979	3/24/97	1.30	0.20		pCi/g	1.30	0.20	-	pCi/g	
P17-40	R	Thorium-232	P17-40C2-R-3-D	NONE	482027.6	1350979	3/24/97	1.30	0.15		pCi/g	1.31	0.15	-	pCi/g	P17-40C2-R-3
P17-40	R	Thorium-232	P17-40C2-R-4	NONE	482005.62	1351075	3/24/97	1.10	0.15		pCi/g	1.12	0.16	-	pCi/g	
P17-40	R	Thorium-232	P17-40C2-R-5	NONE	482001.85	1351120	3/24/97	1.30	0.20		pCi/g	1.25	0.20	-	pCi/g	
P17-40	R	Uranium-238	P17-34C-964146	NONE	482146.5	1350964	12/3/96	1.30	0.49		pCi/g	1.30	0.49	-	pCi/g	
P17-40	R	Uranium-238	P17-34C-972199	NONE	482199.62	1350972	12/3/96	2.40	0.92		pCi/g	2.40	0.92	J	pCi/g	
P17-40	R	Uranium-238	P17-40C-052114	NONE	482114.11	1351052	12/4/96	4.50	1.90		pCi/g	4.50	1.90	J	pCi/g	
P17-40	R	Uranium-238	P17-40C-145113	NONE	482113.38	1351145	12/4/96	6.30	2.40		pCi/g	6.30	2.40	-	pCi/g	
P17-40	R	Uranium-238	P17-40C-281110	NONE	482110.58	1351281	12/4/96	3.50	1.30		pCi/g	3.50	1.30	J	pCi/g	
P17-40	R	Uranium-238	P17-40C-289031	NONE	482031.42	1351289	12/4/96	2.10	0.76		pCi/g	2.10	0.76	J	pCi/g	
P17-40	R	Uranium-238	P17-40C-292103	NONE	482103.44	1351293	12/4/96	4.90	1.80		pCi/g	4.90	1.80	J	pCi/g	
P17-40	R	Uranium-238	P17-40C-368105	NONE	482105.67	1351369	12/4/96	3.20	1.20		pCi/g	3.20	1.20	J	pCi/g	
P17-40	R	Uranium-238	P17-40C-397115	NONE	482115.22	1351398	12/4/96	4.80	1.80		pCi/g	4.80	1.80	J	pCi/g	
P17-40	R	Uranium-238	P17-40C-398021	NONE	482021.7	1351399	12/4/96	3.40	1.40		pCi/g	3.40	1.40	J	pCi/g	
P17-40	R	Uranium-238	P17-40C-398021-D	NONE	482021.7	1351399	12/4/96	3.60	1.30		pCi/g	3.60	1.30	-	pCi/g	P17-40C-398021
P18	R	Thorium-228	P18-31C-657677	NONE	482677.2	1350657	1/23/97	1.02	0.51		pCi/g	1.02	0.51	-	pCi/g	
P18	R	Thorium-228	P18-32C-816671	NONE	482671.51	1350817	1/23/97	0.83	0.45		pCi/g	0.83	0.45	J	pCi/g	
P18	R	Thorium-228	P18C-634755	NONE	482754.59	1350635	12/26/96	1.60	0.16		pCi/g	1.60	0.16	J	pCi/g	
P18	R	Thorium-228	P18C-661706	NONE	482706.96	1350661	12/30/96	1.20	0.16		pCi/g	1.16	0.16	-	pCi/g	
P18	R	Thorium-228	P18C-670893	NONE	482893.09	1350670	12/26/96	1.10	0.12		pCi/g	1.10	0.12	J	pCi/g	
P18	R	Thorium-228	P18C-679450	NONE	482450.37	1350680	12/18/96	1.40	0.16		pCi/g	1.40	0.16	-	pCi/g	
P18	R	Thorium-228	P18C-750800	NONE	482800	1350750	1/16/97	1.50	0.21		pCi/g	1.47	0.21	-	pCi/g	
P18	R	Thorium-228	P18C-758813	NONE	482813.41	1350759	12/26/96	1.40	0.16		pCi/g	1.40	0.16	J	pCi/g	
P18	R	Thorium-228	P18C-761655	NONE	482655.15	1350762	12/19/96	0.98	0.12		pCi/g	0.98	0.12	-	pCi/g	
P18	R	Thorium-228	P18C-777911	NONE	482911.48	1350778	12/26/96	1.20	0.15		pCi/g	1.23	0.15	-	pCi/g	
P18	R	Thorium-228	P18C-781429	NONE	482429.12	1350781	12/18/96	0.83	0.10		pCi/g	0.83	0.10	-	pCi/g	
P18	R	Thorium-228	P18C-826521	NONE	482521.23	1350827	12/18/96	1.30	0.15		pCi/g	1.30	0.15	-	pCi/g	
P18	R	Thorium-228	P18C-830830	NONE	482830.21	1350830	12/26/96	1.30	0.19		pCi/g	1.31	0.19	-	pCi/g	
P18	R	Thorium-228	P18C-884947	NONE	482947.01	1350884	12/26/96	1.20	0.16		pCi/g	1.20	0.16	-	pCi/g	
P18	R	Thorium-228	P18C-987945	NONE	482945.09	1350987	12/26/96	1.40	0.15		pCi/g	1.40	0.15	J	pCi/g	
P18	R	Thorium-232	P18-31C-657677	NONE	482677.2	1350657	1/23/97	1.13	0.71		pCi/g	1.13	0.71	J	pCi/g	
P18	R	Thorium-232	P18-32C-816671	NONE	482671.51	1350817	1/23/97	1.97	0.76		pCi/g	1.97	0.76	-	pCi/g	
P18	R	Thorium-232	P18C-634755	NONE	482754.59	1350635	12/26/96	1.60	0.16		pCi/g	1.60	0.16	J	pCi/g	
P18	R	Thorium-232	P18C-661706	NONE	482706.96	1350661	12/30/96	1.10	0.15		pCi/g	1.12	0.15	-	pCi/g	

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								Laboratory Data				Validation Data				
CU Name	CU Type	Parameter	Sample ID	Suffix	Northing	Easting	Sample Date	Lab Result	TPU	Qualifier	Units	Val. Result	TPU	Qualifier	Units	Duplicate of
P18	R	Thorium-232	P18C-670893	NONE	482893.09	1350670	12/26/96	1.10	0.12		pCi/g	1.10	0.12	J	pCi/g	
P18	R	Thorium-232	P18C-679450	NONE	482450.37	1350680	12/18/96	1.40	0.16		pCi/g	1.40	0.16	-	pCi/g	
P18	R	Thorium-232	P18C-750800	NONE	482800	1350750	1/16/97	1.40	0.20		pCi/g	1.44	0.20	-	pCi/g	
P18	R	Thorium-232	P18C-758813	NONE	482813.41	1350759	12/26/96	1.40	0.16		pCi/g	1.40	0.16	J	pCi/g	
P18	R	Thorium-232	P18C-761655	NONE	482655.15	1350762	12/19/96	0.98	0.12		pCi/g	0.98	0.12	-	pCi/g	
P18	R	Thorium-232	P18C-777911	NONE	482911.48	1350778	12/26/96	1.20	0.15		pCi/g	1.19	0.15	-	pCi/g	
P18	R	Thorium-232	P18C-781429	NONE	482429.12	1350781	12/18/96	0.83	0.10		pCi/g	0.83	0.10	-	pCi/g	
P18	R	Thorium-232	P18C-826521	NONE	482521.23	1350827	12/18/96	1.30	0.15		pCi/g	1.30	0.15	-	pCi/g	
P18	R	Thorium-232	P18C-830830	NONE	482830.21	1350830	12/26/96	1.30	0.18		pCi/g	1.27	0.18	-	pCi/g	
P18	R	Thorium-232	P18C-884947	NONE	482947.01	1350884	12/26/96	1.20	0.16		pCi/g	1.16	0.16	-	pCi/g	
P18	R	Thorium-232	P18C-987945	NONE	482945.09	1350987	12/26/96	1.40	0.15		pCi/g	1.40	0.15	J	pCi/g	
P18	R	Uranium-238	P18C-634755	NONE	482754.59	1350635	12/26/96	13.00	4.80		pCi/g	13.00	4.80	-	pCi/g	
P18	R	Uranium-238	P18C-670893	NONE	482893.09	1350670	12/26/96	10.00	3.70		pCi/g	10.00	3.70	-	pCi/g	
P18	R	Uranium-238	P18C-679450	NONE	482450.37	1350680	12/18/96	1.30	0.53		pCi/g	1.30	0.53	-	pCi/g	
P18	R	Uranium-238	P18C-758813	NONE	482813.41	1350759	12/26/96	14.00	5.90		pCi/g	14.00	5.90	-	pCi/g	
P18	R	Uranium-238	P18C-761655	NONE	482655.15	1350762	12/19/96	4.10	1.50		pCi/g	4.10	1.50	-	pCi/g	
P18	R	Uranium-238	P18C-781429	NONE	482429.12	1350781	12/18/96	0.79	0.30		pCi/g	0.79	0.30	-	pCi/g	
P18	R	Uranium-238	P18C-826521	NONE	482521.23	1350827	12/18/96	2.30	1.00		pCi/g	2.30	1.00	J	pCi/g	
P18	R	Uranium-238	P18C-987945	NONE	482945.09	1350987	12/26/96	9.50	3.80		pCi/g	9.50	3.80	-	pCi/g	
P18-11	R	Thorium-228	P18-11C-608400	NONE	482400.63	1350609	12/17/96	1.00	0.13		pCi/g	1.00	0.13	J	pCi/g	
P18-11	R	Thorium-228	P18-11C-627216	NONE	482216.32	1350628	12/17/96	1.20	0.14		pCi/g	1.20	0.14	J	pCi/g	
P18-11	R	Thorium-228	P18-11C-696228	NONE	482228.27	1350697	12/17/96	0.75	0.10		pCi/g	0.75	0.10	J	pCi/g	
P18-11	R	Thorium-228	P18-11C-711283	NONE	482283.57	1350711	12/17/96	1.20	0.14		pCi/g	1.20	0.14	J	pCi/g	
P18-11	R	Thorium-228	P18-11C-712210	NONE	482210.5	1350712	12/17/96	0.93	0.12		pCi/g	0.93	0.12	J	pCi/g	
P18-11	R	Thorium-228	P18-11C-712303	NONE	482303.24	1350713	12/17/96	1.10	0.13		pCi/g	1.10	0.13	J	pCi/g	
P18-11	R	Thorium-228	P18-11C-721375	NONE	482375.25	1350722	12/17/96	0.87	0.11		pCi/g	0.87	0.11	J	pCi/g	
P18-11	R	Thorium-228	P18-11C-760289	NONE	482289.38	1350760	12/17/96	1.20	0.13		pCi/g	1.20	0.13	J	pCi/g	
P18-11	R	Thorium-228	P18-11C-783383	NONE	482383	1350783	12/17/96	1.30	0.14		pCi/g	1.30	0.14	J	pCi/g	
P18-11	R	Thorium-228	P18-11C-789320	NONE	482320.67	1350798	12/17/96	0.95	0.12		pCi/g	0.95	0.12	J	pCi/g	
P18-11	R	Thorium-228	P18-11C-798245	NONE	482245.53	1350799	12/17/96	0.86	0.11		pCi/g	0.86	0.11	J	pCi/g	
P18-11	R	Thorium-228	P18-11C2-1-R	NONE	482356.4	1350662	3/11/97	1.10	0.13		pCi/g	1.10	0.13	-	pCi/g	
P18-11	R	Thorium-232	P18-11C-608400	NONE	482400.63	1350609	12/17/96	1.00	0.13		pCi/g	1.00	0.13	J	pCi/g	
P18-11	R	Thorium-232	P18-11C-627216	NONE	482216.32	1350628	12/17/96	1.20	0.14		pCi/g	1.20	0.14	J	pCi/g	
P18-11	R	Thorium-232	P18-11C-696228	NONE	482228.27	1350697	12/17/96	0.75	0.10		pCi/g	0.75	0.10	J	pCi/g	
P18-11	R	Thorium-232	P18-11C-711283	NONE	482283.57	1350711	12/17/96	1.20	0.14		pCi/g	1.20	0.14	J	pCi/g	
P18-11	R	Thorium-232	P18-11C-712210	NONE	482210.5	1350712	12/17/96	0.93	0.12		pCi/g	0.93	0.12	J	pCi/g	
P18-11	R	Thorium-232	P18-11C-712303	NONE	482303.24	1350713	12/17/96	1.10	0.13		pCi/g	1.10	0.13	J	pCi/g	
P18-11	R	Thorium-232	P18-11C-721375	NONE	482375.25	1350722	12/17/96	0.87	0.11		pCi/g	0.87	0.11	J	pCi/g	
P18-11	R	Thorium-232	P18-11C-760289	NONE	482289.38	1350760	12/17/96	1.20	0.13		pCi/g	1.20	0.13	J	pCi/g	

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								Laboratory Data				Validation Data				
CU Name	CU Type	Parameter	Sample ID	Suffix	Northing	Easting	Sample Date	Lab Result	TPU	Qualifier	Units	Val. Result	TPU	Qualifier	Units	Duplicate of
P18-11	R	Thorium-232	P18-11C-783383	NONE	482383	1350783	12/17/96	1.30	0.14		pCi/g	1.30	0.14	J	pCi/g	
P18-11	R	Thorium-232	P18-11C-789320	NONE	482320.67	1350798	12/17/96	0.95	0.12		pCi/g	0.95	0.12	J	pCi/g	
P18-11	R	Thorium-232	P18-11C-798245	NONE	482245.53	1350799	12/17/96	0.86	0.11		pCi/g	0.86	0.11	J	pCi/g	
P18-11	R	Thorium-232	P18-11C2-1-R	NONE	482356.4	1350662	3/11/97	1.10	0.13		pCi/g	1.10	0.13	-	pCi/g	
P18-11	R	Uranium-238	P18-11C-608400	NONE	482400.63	1350609	12/17/96	0.99	0.44		pCi/g	0.99	0.44	J	pCi/g	
P18-11	R	Uranium-238	P18-11C-627216	NONE	482216.32	1350628	12/17/96	4.10	1.50		pCi/g	4.10	1.50	J	pCi/g	
P18-11	R	Uranium-238	P18-11C-696228	NONE	482228.27	1350697	12/17/96	2.60	0.86		pCi/g	2.60	0.86	-	pCi/g	
P18-11	R	Uranium-238	P18-11C-711283	NONE	482283.57	1350711	12/17/96	10.00	3.70		pCi/g	10.00	3.70	-	pCi/g	
P18-11	R	Uranium-238	P18-11C-712210	NONE	482210.5	1350712	12/17/96	6.80	2.40		pCi/g	6.80	2.40	-	pCi/g	
P18-11	R	Uranium-238	P18-11C-712303	NONE	482303.24	1350713	12/17/96	3.40	1.40		pCi/g	3.40	1.40	-	pCi/g	
P18-11	R	Uranium-238	P18-11C-721375	NONE	482375.25	1350722	12/17/96	0.83	0.32		pCi/g	0.83	0.32	J	pCi/g	
P18-11	R	Uranium-238	P18-11C-760289	NONE	482289.38	1350760	12/17/96	4.10	1.70		pCi/g	4.10	1.70	-	pCi/g	
P18-11	R	Uranium-238	P18-11C-783383	NONE	482383	1350783	12/17/96	2.00	0.73		pCi/g	2.00	0.73	-	pCi/g	
P18-11	R	Uranium-238	P18-11C-789320	NONE	482320.67	1350798	12/17/96	1.20	0.51		pCi/g	1.20	0.51	J	pCi/g	
P18-11	R	Uranium-238	P18-11C-798245	NONE	482245.53	1350799	12/17/96	2.80	1.00		pCi/g	2.80	1.00	-	pCi/g	
P18-12	R	Thorium-228	P17-34C-825010	NONE	482010.4	1350825	12/19/96	1.30	0.15		pCi/g	1.30	0.15	-	pCi/g	
P18-12	R	Thorium-228	P17-34C-825187	NONE	482187.53	1350825	12/26/96	0.77	0.13		pCi/g	0.77	0.13	-	pCi/g	
P18-12	R	Thorium-228	P17-34C-844094	NONE	482094.16	1350844	12/19/96	1.50	0.17		pCi/g	1.50	0.17	-	pCi/g	
P18-12	R	Thorium-228	P17-34C-848107	NONE	482107.5	1350849	12/19/96	1.29	0.41		pCi/g	1.29	0.41	-	pCi/g	
P18-12	R	Thorium-228	P17-34C-868176	NONE	482176.39	1350868	12/30/96	1.10	0.14		pCi/g	1.10	0.14	-	pCi/g	
P18-12	R	Thorium-228	P17-34C-880001	NONE	482001.48	1350881	12/19/96	1.20	0.14		pCi/g	1.20	0.14	-	pCi/g	
P18-12	R	Thorium-228	P18-12C-806224	NONE	482224.34	1350806	12/26/96	0.84	0.13		pCi/g	0.84	0.13	-	pCi/g	
P18-12	R	Thorium-228	P18-12C-814384	NONE	482384.2	1350815	12/26/96	1.50	0.17		pCi/g	1.50	0.17	J	pCi/g	
P18-12	R	Thorium-228	P18-12C-844336	NONE	482336.08	1350845	12/26/96	1.50	0.16		pCi/g	1.50	0.16	J	pCi/g	
P18-12	R	Thorium-228	P18-12C-863295	NONE	482295.13	1350864	12/26/96	1.40	0.20		pCi/g	1.38	0.20	-	pCi/g	
P18-12	R	Thorium-228	P18-12C-868305	NONE	482305.41	1350868	12/26/96	1.30	0.16		pCi/g	1.30	0.16	J	pCi/g	
P18-12	R	Thorium-228	P18-12C-872219	NONE	482219.27	1350872	12/26/96	1.60	0.18		pCi/g	1.60	0.18	J	pCi/g	
P18-12	R	Thorium-228	P18-12C-890350	NONE	482350.45	1350890	12/26/96	1.80	0.18		pCi/g	1.80	0.18	J	pCi/g	
P18-12	R	Thorium-228	P18-12C-902358	NONE	482358.48	1350895	12/26/96	1.60	0.16		pCi/g	1.60	0.16	J	pCi/g	
P18-12	R	Thorium-228	P18-12C-903278	NONE	482278.3	1350893	12/26/96	1.40	0.14		pCi/g	1.40	0.14	J	pCi/g	
P18-12	R	Thorium-232	P17-34C-825010	NONE	482010.4	1350825	12/19/96	1.30	0.15		pCi/g	1.30	0.15	-	pCi/g	
P18-12	R	Thorium-232	P17-34C-825187	NONE	482187.53	1350825	12/26/96	0.74	0.12		pCi/g	0.75	0.12	-	pCi/g	
P18-12	R	Thorium-232	P17-34C-844094	NONE	482094.16	1350844	12/19/96	1.50	0.17		pCi/g	1.50	0.17	-	pCi/g	
P18-12	R	Thorium-232	P17-34C-848107	NONE	482107.5	1350849	12/19/96	1.51	0.59		pCi/g	1.51	0.59	-	pCi/g	
P18-12	R	Thorium-232	P17-34C-868176	NONE	482176.39	1350868	12/30/96	1.10	0.14		pCi/g	1.06	0.14	-	pCi/g	
P18-12	R	Thorium-232	P17-34C-880001	NONE	482001.48	1350881	12/19/96	1.20	0.14		pCi/g	1.20	0.14	-	pCi/g	
P18-12	R	Thorium-232	P18-12C-806224	NONE	482224.34	1350806	12/26/96	0.81	0.12		pCi/g	0.81	0.12	-	pCi/g	
P18-12	R	Thorium-232	P18-12C-814384	NONE	482384.2	1350815	12/26/96	1.50	0.17		pCi/g	1.50	0.17	J	pCi/g	
P18-12	R	Thorium-232	P18-12C-844336	NONE	482336.08	1350845	12/26/96	1.50	0.16		pCi/g	1.50	0.16	J	pCi/g	

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							Laboratory Data				Validation Data				
CU Name	CU Type	Parameter	Sample ID	Suffix	Northing	Easting	Sample Date	Lab Result	TPU	Qualifier	Units	Val. Result	TPU	Qualifier	Units	Duplicate of
P18-12	R	Thorium-232	P18-12C-863295	NONE	482295.13	1350864	12/26/96	1.30	0.19		pCi/g	1.34	0.19	-	pCi/g	
P18-12	R	Thorium-232	P18-12C-868305	NONE	482305.41	1350868	12/26/96	1.30	0.16		pCi/g	1.30	0.16	J	pCi/g	
P18-12	R	Thorium-232	P18-12C-872219	NONE	482219.27	1350872	12/26/96	1.60	0.18		pCi/g	1.60	0.18	J	pCi/g	
P18-12	R	Thorium-232	P18-12C-890350	NONE	482350.45	1350890	12/26/96	1.80	0.18		pCi/g	1.80	0.18	J	pCi/g	
P18-12	R	Thorium-232	P18-12C-902358	NONE	482358.48	1350895	12/26/96	1.60	0.16		pCi/g	1.60	0.16	J	pCi/g	
P18-12	R	Thorium-232	P18-12C-903278	NONE	482278.3	1350893	12/26/96	1.40	0.14		pCi/g	1.40	0.14	J	pCi/g	
P18-12	R	Uranium-238	P17-34C-825010	NONE	482010.4	1350825	12/19/96	4.30	1.60		pCi/g	4.30	1.60	-	pCi/g	
P18-12	R	Uranium-238	P17-34C-844094	NONE	482094.16	1350844	12/19/96	3.30	1.20		pCi/g	3.30	1.20	-	pCi/g	
P18-12	R	Uranium-238	P17-34C-880001	NONE	482001.48	1350881	12/19/96	2.40	0.93		pCi/g	2.40	0.93	-	pCi/g	
P18-12	R	Uranium-238	P18-12C-814384	NONE	482384.2	1350815	12/26/96	8.30	3.20		pCi/g	8.30	3.20	-	pCi/g	
P18-12	R	Uranium-238	P18-12C-844336	NONE	482336.08	1350845	12/26/96	2.60	0.94		pCi/g	2.60	0.94	-	pCi/g	
P18-12	R	Uranium-238	P18-12C-868305	NONE	482305.41	1350868	12/26/96	2.00	0.75		pCi/g	2.00	0.75	-	pCi/g	
P18-12	R	Uranium-238	P18-12C-872219	NONE	482219.27	1350872	12/26/96	2.80	1.00		pCi/g	2.80	1.00	-	pCi/g	
P18-12	R	Uranium-238	P18-12C-890350	NONE	482350.45	1350890	12/26/96	2.20	0.81		pCi/g	2.20	0.81	-	pCi/g	
P18-12	R	Uranium-238	P18-12C-902358	NONE	482358.48	1350895	12/26/96	2.40	0.92		pCi/g	2.40	0.92	-	pCi/g	
P18-12	R	Uranium-238	P18-12C-903278	NONE	482278.3	1350893	12/26/96	2.10	0.79		pCi/g	2.10	0.79	-	pCi/g	
P18-20	R	Thorium-228	P18-12C-977297	NONE	482297.69	1350978	12/6/96	1.30	0.15		pCi/g	1.30	0.15	-	pCi/g	
P18-20	R	Thorium-228	P18-20C-006387	NONE	482387.28	1351007	11/27/96	0.93	0.12		pCi/g	0.93	0.12	-	pCi/g	
P18-20	R	Thorium-228	P18-20C-043443	NONE	482443.33	1351043	11/27/96	0.93	0.12		pCi/g	0.93	0.12	-	pCi/g	
P18-20	R	Thorium-228	P18-20C-103322	NONE	482322.3	1351103	11/27/96	1.70	0.17		pCi/g	1.70	0.17	-	pCi/g	
P18-20	R	Thorium-228	P18-20C-109583	NONE	482583.5	1351109	11/26/96	1.40	0.16		pCi/g	1.40	0.16	-	pCi/g	
P18-20	R	Thorium-228	P18-20C-232374	NONE	482374.52	1351232	12/2/96	1.18	0.35		pCi/g	1.18	0.35	-	pCi/g	
P18-20	R	Thorium-228	P18-20C-232374-D	NONE	482374.52	1351232	12/4/96	1.40	0.15		pCi/g	1.40	0.15	-	pCi/g	P18-20C-232374
P18-20	R	Thorium-228	P18-20C-244287	NONE	482287.25	1351245	11/27/96	1.60	0.16		pCi/g	1.60	0.16	-	pCi/g	
P18-20	R	Thorium-228	P18-20C-267570	NONE	482570.8	1351268	11/27/96	1.60	0.17		pCi/g	1.60	0.17	-	pCi/g	
P18-20	R	Thorium-228	P18-20C-269488	NONE	482488.6	1351270	11/27/96	1.60	0.16		pCi/g	1.60	0.16	-	pCi/g	
P18-20	R	Thorium-228	P18-20C-306477	RE	482477.26	1351306	11/27/96	1.40	0.16		pCi/g	1.42	0.16	-	pCi/g	
P18-20	R	Thorium-228	P18-20C-306477	NONE	482477.26	1351306	11/27/96	0.08	0.12	U	pCi/g	0.08	0.12	Z	pCi/g	
P18-20	R	Thorium-228	P18-20C-343361	NONE	482361.78	1351344	11/27/96	1.30	0.14		pCi/g	1.30	0.14	-	pCi/g	
P18-20	R	Thorium-228	P18-20C-366527	NONE	482527.18	1351367	11/27/96	1.40	0.15		pCi/g	1.40	0.15	-	pCi/g	
P18-20	R	Thorium-228	P18-20C-384287	NONE	482287.76	1351384	11/27/96	1.30	0.14		pCi/g	1.30	0.14	-	pCi/g	
P18-20	R	Thorium-228	P18C-998597	NONE	482597.24	1350999	12/6/96	1.30	0.15		pCi/g	1.30	0.15	-	pCi/g	
P18-20	R	Thorium-232	P18-12C-977297	NONE	482297.69	1350978	12/6/96	1.30	0.15		pCi/g	1.30	0.15	-	pCi/g	
P18-20	R	Thorium-232	P18-20C-006387	NONE	482387.28	1351007	11/27/96	0.93	0.12		pCi/g	0.93	0.12	-	pCi/g	
P18-20	R	Thorium-232	P18-20C-043443	NONE	482443.33	1351043	11/27/96	0.93	0.12		pCi/g	0.93	0.12	-	pCi/g	
P18-20	R	Thorium-232	P18-20C-103322	NONE	482322.3	1351103	11/27/96	1.70	0.17		pCi/g	1.70	0.17	-	pCi/g	
P18-20	R	Thorium-232	P18-20C-109583	NONE	482583.5	1351109	11/26/96	1.40	0.16		pCi/g	1.40	0.16	-	pCi/g	
P18-20	R	Thorium-232	P18-20C-232374	NONE	482374.52	1351232	12/2/96	1.40	0.43		pCi/g	1.40	0.43	-	pCi/g	
P18-20	R	Thorium-232	P18-20C-232374-D	NONE	482374.52	1351232	12/4/96	1.40	0.15		pCi/g	1.40	0.15	-	pCi/g	P18-20C-232374

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								Laboratory Data					Validation Data				
CU Name	CU Type	Parameter	Sample ID	Suffix	Northing	Easting	Sample Date	Lab Result	TPU	Qualifier	Units	Val. Result	TPU	Qualifier	Units	Duplicate of
P18-20	R	Thorium-232	P18-20C-244287	NONE	482287.25	1351245	11/27/96	1.60	0.16		pCi/g	1.60	0.16	-	pCi/g	
P18-20	R	Thorium-232	P18-20C-267570	NONE	482570.8	1351268	11/27/96	1.60	0.17		pCi/g	1.60	0.17	-	pCi/g	
P18-20	R	Thorium-232	P18-20C-269488	NONE	482488.6	1351270	11/27/96	1.60	0.16		pCi/g	1.60	0.16	-	pCi/g	
P18-20	R	Thorium-232	P18-20C-306477	NONE	482477.26	1351306	11/27/96	0.12	0.12	U	pCi/g	0.08	0.12	Z	pCi/g	
P18-20	R	Thorium-232	P18-20C-306477	RE	482477.26	1351306	11/27/96	1.40	0.16		pCi/g	1.42	0.16	-	pCi/g	
P18-20	R	Thorium-232	P18-20C-343361	NONE	482361.78	1351344	11/27/96	1.30	0.14		pCi/g	1.30	0.14	-	pCi/g	
P18-20	R	Thorium-232	P18-20C-366527	NONE	482527.18	1351367	11/27/96	1.40	0.15		pCi/g	1.40	0.15	-	pCi/g	
P18-20	R	Thorium-232	P18-20C-384287	NONE	482287.76	1351384	11/27/96	1.30	0.14		pCi/g	1.30	0.14	-	pCi/g	
P18-20	R	Thorium-232	P18C-998597	NONE	482597.24	1350999	12/6/96	1.30	0.15		pCi/g	1.30	0.15	-	pCi/g	
P18-20	R	Uranium-238	P18-12C-977297	NONE	482297.69	1350978	12/6/96	1.60	0.61		pCi/g	1.60	0.61	-	pCi/g	
P18-20	R	Uranium-238	P18-20C-006387	NONE	482387.28	1351007	11/27/96	4.00	1.50		pCi/g	3.99	1.53	-	pCi/g	
P18-20	R	Uranium-238	P18-20C-043443	NONE	482443.33	1351043	11/27/96	2.00	0.79		pCi/g	2.03	0.79	-	pCi/g	
P18-20	R	Uranium-238	P18-20C-103322	NONE	482322.3	1351103	11/27/96	8.60	3.20		pCi/g	7.64	2.46	Z	pCi/g	
P18-20	R	Uranium-238	P18-20C-103322	RE	482322.3	1351103	11/27/96	8.60	3.20		pCi/g	8.59	3.17	-	pCi/g	
P18-20	R	Uranium-238	P18-20C-109583	NONE	482583.5	1351109	11/26/96	2.00	0.70		pCi/g	2.00	0.70	-	pCi/g	
P18-20	R	Uranium-238	P18-20C-232374-D	NONE	482374.52	1351232	12/4/96	1.20	0.46		pCi/g	1.20	0.46	J	pCi/g	P18-20C-232374
P18-20	R	Uranium-238	P18-20C-244287	NONE	482287.25	1351245	11/27/96	2.10	0.08		pCi/g	2.12	0.80	J	pCi/g	
P18-20	R	Uranium-238	P18-20C-244287	RE	482287.25	1351245	11/27/96	2.10	0.80		pCi/g	2.37	1.21	R	pCi/g	
P18-20	R	Uranium-238	P18-20C-267570	NONE	482570.8	1351268	11/27/96	2.30	0.89		pCi/g	2.30	0.89	J	pCi/g	
P18-20	R	Uranium-238	P18-20C-269488	NONE	482488.6	1351270	11/27/96	3.60	1.30		pCi/g	3.60	1.30	-	pCi/g	
P18-20	R	Uranium-238	P18-20C-306477	NONE	482477.26	1351306	11/27/96	3.40	1.10		pCi/g	3.40	1.10	-	pCi/g	
P18-20	R	Uranium-238	P18-20C-343361	NONE	482361.78	1351344	11/27/96	1.10	0.43		pCi/g	1.03	0.37	Z	pCi/g	
P18-20	R	Uranium-238	P18-20C-343361	RE	482361.78	1351344	11/27/96	1.10	0.43		pCi/g	1.14	0.43	-	pCi/g	
P18-20	R	Uranium-238	P18-20C-366527	NONE	482527.18	1351367	11/27/96	7.00	2.80		pCi/g	7.00	2.80	J	pCi/g	
P18-20	R	Uranium-238	P18-20C-384287	NONE	482287.76	1351384	11/27/96	3.80	1.70		pCi/g	3.78	1.69	J	pCi/g	
P18-20	R	Uranium-238	P18C-998597	NONE	482597.24	1350999	12/6/96	4.40	1.70		pCi/g	4.40	1.70	-	pCi/g	
P18-40	R	Thorium-228	P18-40C-057710	NONE	482710.4	1351058	11/26/96	1.30	0.17		pCi/g	1.30	0.17	-	pCi/g	
P18-40	R	Thorium-228	P18-40C-082930	NONE	482930.57	1351083	11/19/96	0.92	0.25		pCi/g	0.92	0.25	-	pCi/g	
P18-40	R	Thorium-228	P18-40C-097665	NONE	482665.73	1351097	11/22/96	1.70	0.18		pCi/g	1.70	0.18	-	pCi/g	
P18-40	R	Thorium-228	P18-40C-121992	NONE	482992.31	1351122	11/19/96	1.30	0.14		pCi/g	1.29	0.14	-	pCi/g	
P18-40	R	Thorium-228	P18-40C-133834	NONE	482834.3	1351134	11/19/96	0.96	0.32		pCi/g	0.96	0.32	-	pCi/g	
P18-40	R	Thorium-228	P18-40C-142613	NONE	482613.35	1351143	11/22/96	1.10	0.14		pCi/g	1.10	0.14	-	pCi/g	
P18-40	R	Thorium-228	P18-40C-217950	NONE	482950.61	1351218	11/19/96	1.03	0.36		pCi/g	1.03	0.36	-	pCi/g	
P18-40	R	Thorium-228	P18-40C-233817	NONE	482817.54	1351234	11/19/96	1.30	0.40		pCi/g	1.30	0.40	-	pCi/g	
P18-40	R	Thorium-228	P18-40C-233817-D	NONE	482817.54	1351234	11/19/96	1.17	0.39		pCi/g	1.17	0.39	-	pCi/g	P18-40C-233817
P18-40	R	Thorium-228	P18-40C-294716	NONE	482716.79	1351295	11/19/96	1.53	0.42		pCi/g	1.53	0.42	-	pCi/g	
P18-40	R	Thorium-228	P18-40C-333930	NONE	482930.52	1351334	11/19/96	1.70	0.19		pCi/g	1.72	0.19	-	pCi/g	
P18-40	R	Thorium-228	P18-40C-343874	NONE	482874.71	1351344	11/19/96	1.09	0.32		pCi/g	1.09	0.32	-	pCi/g	
P18-40	R	Thorium-228	P18-40C-345749	NONE	482749.47	1351346	11/19/96	1.26	0.45		pCi/g	1.26	0.45	-	pCi/g	

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								Laboratory Data				Validation Data				
CU Name	CU Type	Parameter	Sample ID	Suffix	Northing	Easting	Sample Date	Lab Result	TPU	Qualifier	Units	Val. Result	TPU	Qualifier	Units	Duplicate of
P18-40	R	Thorium-228	P18-40C-399613	NONE	482613.35	1351400	11/26/96	1.40	0.16		pCi/g	1.45	0.16	-	pCi/g	
P18-40	R	Thorium-232	P18-40C-057710	NONE	482710.4	1351058	11/26/96	1.20	0.16		pCi/g	1.23	0.16	-	pCi/g	
P18-40	R	Thorium-232	P18-40C-082930	NONE	482930.57	1351083	11/19/96	1.18	0.42		pCi/g	1.18	0.42	-	pCi/g	
P18-40	R	Thorium-232	P18-40C-097665	NONE	482665.73	1351097	11/22/96	1.70	0.18		pCi/g	1.70	0.18	-	pCi/g	
P18-40	R	Thorium-232	P18-40C-121992	NONE	482992.31	1351122	11/19/96	1.30	0.14		pCi/g	1.29	0.14	-	pCi/g	
P18-40	R	Thorium-232	P18-40C-133834	NONE	482834.3	1351134	11/19/96	1.63	0.57		pCi/g	1.63	0.57	-	pCi/g	
P18-40	R	Thorium-232	P18-40C-142613	NONE	482613.35	1351143	11/22/96	1.10	0.14		pCi/g	1.10	0.14	-	pCi/g	
P18-40	R	Thorium-232	P18-40C-217950	NONE	482950.61	1351218	11/19/96	1.39	0.38		pCi/g	1.39	0.38	-	pCi/g	
P18-40	R	Thorium-232	P18-40C-233817	NONE	482817.54	1351234	11/19/96	1.32	0.61		pCi/g	1.32	0.61	-	pCi/g	
P18-40	R	Thorium-232	P18-40C-233817-D	NONE	482817.54	1351234	11/19/96	0.88	0.54		pCi/g	0.88	0.54	J	pCi/g	P18-40C-233817
P18-40	R	Thorium-232	P18-40C-238686	NONE	482686.39	1351238	11/26/96	1.90	0.19		pCi/g	1.90	0.19	-	pCi/g	
P18-40	R	Thorium-232	P18-40C-294716	NONE	482716.79	1351295	11/19/96	1.62	0.53		pCi/g	1.62	0.53	-	pCi/g	
P18-40	R	Thorium-232	P18-40C-333930	NONE	482930.52	1351334	11/19/96	1.70	0.19		pCi/g	1.72	0.19	-	pCi/g	
P18-40	R	Thorium-232	P18-40C-343874	NONE	482874.71	1351344	11/19/96	1.03	0.40		pCi/g	1.03	0.40	-	pCi/g	
P18-40	R	Thorium-232	P18-40C-345749	NONE	482749.47	1351346	11/19/96	1.04	0.53		pCi/g	1.04	0.53	J	pCi/g	
P18-40	R	Thorium-232	P18-40C-399613	NONE	482613.35	1351400	11/26/96	1.40	0.16		pCi/g	1.45	0.16	-	pCi/g	
P18-40	R	Uranium-238	P18-40C-097665	NONE	482665.73	1351097	11/22/96	2.20	0.85		pCi/g	2.25	0.85	J	pCi/g	
P18-40	R	Uranium-238	P18-40C-142613	NONE	482613.35	1351143	11/22/96	1.70	0.67		pCi/g	1.68	0.67	J	pCi/g	
P18-40	R	Uranium-238	P18-40C-238686	NONE	482686.39	1351238	11/26/96	3.30	1.20		pCi/g	3.30	1.20	-	pCi/g	
P19	R	Thorium-228	P19C-653510	NONE	483510.73	1350654	1/14/97	1.20	0.16		pCi/g	1.20	0.16	-	pCi/g	
P19	R	Thorium-228	P19C-716011	NONE	483011.3	1350716	1/8/97	1.20	0.17		pCi/g	1.16	0.17	-	pCi/g	
P19	R	Thorium-228	P19C-734514	NONE	483514.35	1350735	1/14/97	1.30	0.18		pCi/g	1.29	0.18	-	pCi/g	
P19	R	Thorium-228	P19C-796728	NONE	483728	1350796	1/14/97	1.40	0.20		pCi/g	1.36	0.20	-	pCi/g	
P19	R	Thorium-228	P19C-804489	NONE	483489.54	1350804	1/14/97	1.20	0.16		pCi/g	1.18	0.16	-	pCi/g	
P19	R	Thorium-228	P19C-832239	NONE	483239.48	1350833	1/8/97	1.30	0.18		pCi/g	1.31	0.18	-	pCi/g	
P19	R	Thorium-228	P19C-871099	NONE	483099.36	1350871	1/8/97	1.20	0.18		pCi/g	1.23	0.18	-	pCi/g	
P19	R	Thorium-228	P19C-899672	NONE	483672.24	1350899	1/14/97	1.30	0.17		pCi/g	1.30	0.17	-	pCi/g	
P19	R	Thorium-228	P19C-902256	NONE	483256.28	1350902	1/8/97	1.30	0.17		pCi/g	1.26	0.17	-	pCi/g	
P19	R	Thorium-228	P19C-902785	NONE	483785	1350902	1/15/97	1.30	0.19		pCi/g	1.29	0.19	-	pCi/g	
P19	R	Thorium-228	P19C-923140	NONE	483140.25	1350923	1/8/97	1.40	0.17		pCi/g	1.36	0.17	-	pCi/g	
P19	R	Thorium-228	P19C-998543	NONE	483543.33	1350998	1/14/97	1.20	0.17		pCi/g	1.20	0.17	-	pCi/g	
P19	R	Thorium-232	P19C-653510	NONE	483510.73	1350654	1/14/97	1.20	0.16		pCi/g	1.18	0.16	-	pCi/g	
P19	R	Thorium-232	P19C-716011	NONE	483011.3	1350716	1/8/97	1.10	0.16		pCi/g	1.13	0.16	-	pCi/g	
P19	R	Thorium-232	P19C-734514	NONE	483514.35	1350735	1/14/97	1.30	0.18		pCi/g	1.27	0.18	-	pCi/g	
P19	R	Thorium-232	P19C-796728	NONE	483728	1350796	1/14/97	1.30	0.20		pCi/g	1.33	0.20	-	pCi/g	
P19	R	Thorium-232	P19C-804489	NONE	483489.54	1350804	1/14/97	1.20	0.16		pCi/g	1.16	0.16	-	pCi/g	
P19	R	Thorium-232	P19C-832239	NONE	483239.48	1350833	1/8/97	1.30	0.17		pCi/g	1.28	0.17	-	pCi/g	
P19	R	Thorium-232	P19C-871099	NONE	483099.36	1350871	1/8/97	1.20	0.17		pCi/g	1.21	0.17	-	pCi/g	
P19	R	Thorium-232	P19C-899672	NONE	483672.24	1350899	1/14/97	1.30	0.17		pCi/g	1.28	0.17	-	pCi/g	

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								Laboratory Data				Validation Data				
CU Name	CU Type	Parameter	Sample ID	Suffix	Northing	Easting	Sample Date	Lab Result	TPU	Qualifier	Units	Val. Result	TPU	Qualifier	Units	Duplicate of
P19	R	Thorium-232	P19C-902256	NONE	483256.28	1350902	1/8/97	1.20	0.17		pCi/g	1.23	0.17	-	pCi/g	
P19	R	Thorium-232	P19C-902785	NONE	483785	1350902	1/15/97	1.30	0.19		pCi/g	1.27	0.19	-	pCi/g	
P19	R	Thorium-232	P19C-923140	NONE	483140.25	1350923	1/8/97	1.30	0.16		pCi/g	1.33	0.16	-	pCi/g	
P19	R	Thorium-232	P19C-998543	NONE	483543.33	1350998	1/14/97	1.20	0.17		pCi/g	1.18	0.17	-	pCi/g	
P19-20	R	Thorium-228	P19-20C-1-R	NONE	483039	1351128	2/24/97	1.00	0.15		pCi/g	1.00	0.15	-	pCi/g	
P19-20	R	Thorium-228	P19-20C-1-R-D	NONE	483039	1351128	2/24/97	1.10	0.15		pCi/g	1.10	0.15	-	pCi/g	P19-20C-1-R
P19-20	R	Thorium-228	P19-20C-10-R	NONE	483231	1351257	2/24/97	1.30	0.20		pCi/g	1.30	0.20	-	pCi/g	
P19-20	R	Thorium-228	P19-20C-11-R	NONE	483248	1351281	2/24/97	1.20	0.18		pCi/g	1.20	0.18	-	pCi/g	
P19-20	R	Thorium-228	P19-20C-12-R	NONE	483260	1351346	2/24/97	0.98	0.16		pCi/g	0.98	0.16	-	pCi/g	
P19-20	R	Thorium-228	P19-20C-13-R	NONE	483264	1351364	2/24/97	1.30	0.20		pCi/g	1.30	0.20	-	pCi/g	
P19-20	R	Thorium-228	P19-20C-14-R	NONE	483330	1351305	2/24/97	1.30	0.17		pCi/g	1.30	0.16	-	pCi/g	
P19-20	R	Thorium-228	P19-20C-15-R	NONE	483374	1351355	2/24/97	1.20	0.17		pCi/g	1.20	0.17	-	pCi/g	
P19-20	R	Thorium-228	P19-20C-151040	NONE	483040.33	1351152	11/19/96	0.81	0.37		pCi/g	0.81	0.37	-	pCi/g	
P19-20	R	Thorium-228	P19-20C-16-R	NONE	483339	1351362	11/19/96	1.50	0.16		pCi/g	1.49	0.16	J	pCi/g	
P19-20	R	Thorium-228	P19-20C-190103	NONE	483103.34	1351191	11/19/96	1.50	0.42		pCi/g	1.50	0.42	-	pCi/g	
P19-20	R	Thorium-228	P19-20C-213195	NONE	483195.52	1351214	11/19/96	1.58	0.37		pCi/g	1.58	0.37	-	pCi/g	
P19-20	R	Thorium-228	P19-20C-297039	NONE	483039.64	1351298	11/19/96	0.81	0.29		pCi/g	0.81	0.29	-	pCi/g	
P19-20	R	Thorium-228	P19-20C-367150	NONE	483149.45	1351368	11/19/96	1.30	0.36		pCi/g	1.30	0.36	-	pCi/g	
P19-20	R	Thorium-228	P19-20C-377016	NONE	483016.51	1351378	11/19/96	1.62	0.36		pCi/g	1.62	0.36	-	pCi/g	
P19-20	R	Thorium-228	P19-20C-4-R	NONE	483014	1351335	2/24/97	1.10	0.18		pCi/g	1.10	0.18	-	pCi/g	
P19-20	R	Thorium-228	P19-20C-5-R	NONE	483033	1351387	2/24/97	1.20	0.17		pCi/g	1.20	0.17	-	pCi/g	
P19-20	R	Thorium-228	P19-20C-6-R	NONE	483164	1351213	2/24/97	1.40	0.22		pCi/g	1.40	0.22	-	pCi/g	
P19-20	R	Thorium-228	P19-20C-8-R	NONE	483120	1351300	2/24/97	1.10	0.17		pCi/g	1.10	0.17	-	pCi/g	
P19-20	R	Thorium-228	P19-20C-9-R	NONE	483143	1351372	2/24/97	0.87	0.14		pCi/g	0.87	0.14	-	pCi/g	
P19-20	R	Thorium-232	P19-20C-1-R	NONE	483039	1351128	2/24/97	1.00	0.14		pCi/g	1.00	0.14	-	pCi/g	
P19-20	R	Thorium-232	P19-20C-1-R-D	NONE	483039	1351128	2/24/97	1.00	0.15		pCi/g	1.00	0.14	-	pCi/g	P19-20C-1-R
P19-20	R	Thorium-232	P19-20C-10-R	NONE	483231	1351257	2/24/97	1.30	0.20		pCi/g	1.30	0.20	-	pCi/g	
P19-20	R	Thorium-232	P19-20C-11-R	NONE	483248	1351281	2/24/97	1.20	0.18		pCi/g	1.20	0.18	-	pCi/g	
P19-20	R	Thorium-232	P19-20C-12-R	NONE	483260	1351346	2/24/97	0.95	0.16		pCi/g	0.95	0.16	-	pCi/g	
P19-20	R	Thorium-232	P19-20C-13-R	NONE	483264	1351364	2/24/97	1.30	0.19		pCi/g	1.30	0.19	-	pCi/g	
P19-20	R	Thorium-232	P19-20C-14-R	NONE	483330	1351305	2/24/97	1.20	0.16		pCi/g	1.20	0.16	-	pCi/g	
P19-20	R	Thorium-232	P19-20C-15-R	NONE	483374	1351355	2/24/97	1.20	0.16		pCi/g	1.20	0.16	-	pCi/g	
P19-20	R	Thorium-232	P19-20C-151040	NONE	483040.33	1351152	11/19/96	0.74	0.44		pCi/g	0.74	0.44	J	pCi/g	
P19-20	R	Thorium-232	P19-20C-16-R	NONE	483339	1351362	11/19/96	1.50	0.16		pCi/g	1.49	0.16	J	pCi/g	
P19-20	R	Thorium-232	P19-20C-190103	NONE	483103.34	1351191	11/19/96	1.30	0.64		pCi/g	1.30	0.64	-	pCi/g	
P19-20	R	Thorium-232	P19-20C-213195	NONE	483195.52	1351214	11/19/96	1.06	0.47		pCi/g	1.06	0.47	-	pCi/g	
P19-20	R	Thorium-232	P19-20C-297039	NONE	483039.64	1351298	11/19/96	0.91	0.41		pCi/g	0.91	0.41	-	pCi/g	
P19-20	R	Thorium-232	P19-20C-367150	NONE	483149.45	1351368	11/19/96	1.29	0.48		pCi/g	1.29	0.48	-	pCi/g	
P19-20	R	Thorium-232	P19-20C-377016	NONE	483016.51	1351378	11/19/96	1.40	0.52		pCi/g	1.40	0.52	-	pCi/g	

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								Laboratory Data				Validation Data				
CU Name	CU Type	Parameter	Sample ID	Suffix	Northing	Easting	Sample Date	Lab Result	TPU	Qualifier	Units	Val. Result	TPU	Qualifier	Units	Duplicate of
P19-20	R	Thorium-232	P19-20C-4-R	NONE	483014	1351335	2/24/97	1.10	0.17		pCi/g	1.10	0.17	-	pCi/g	
P19-20	R	Thorium-232	P19-20C-5-R	NONE	483033	1351387	2/24/97	1.20	0.16		pCi/g	1.20	0.16	-	pCi/g	
P19-20	R	Thorium-232	P19-20C-6-R	NONE	483164	1351213	2/24/97	1.30	0.21		pCi/g	1.30	0.21	-	pCi/g	
P19-20	R	Thorium-232	P19-20C-8-R	NONE	483120	1351300	2/24/97	1.10	0.16		pCi/g	1.10	0.16	-	pCi/g	
P19-20	R	Thorium-232	P19-20C-9-R	NONE	483143	1351372	2/24/97	0.85	0.13		pCi/g	0.85	0.13	-	pCi/g	
P19-20	R	Uranium-238	P19-20C-16-R	NONE	483339	1351362	11/19/96	1.00	0.41		pCi/g	1.05	0.41	J	pCi/g	
P19-23	R	Thorium-228	P19-20C-010014	NONE	483014.14	1351010	1/28/97	1.47	0.38		pCi/g	1.47	0.38	-	pCi/g	
P19-23	R	Thorium-228	P19-20C-060180	NONE	483180	1351060	1/28/97	1.43	0.42		pCi/g	1.43	0.42	-	pCi/g	
P19-23	R	Thorium-228	P19-20C-094298	NONE	483298	1351094	1/28/97	0.83	0.35		pCi/g	0.83	0.35	-	pCi/g	
P19-23	R	Thorium-228	P19-20C-098322	NONE	483322	1351098	1/28/97	1.11	0.29		pCi/g	1.11	0.29	-	pCi/g	
P19-23	R	Thorium-228	P19-20C-163268	NONE	483268.09	1351164	1/28/97	1.48	0.47		pCi/g	1.48	0.47	-	pCi/g	
P19-23	R	Thorium-228	P19-20C-174397	NONE	483397	1351174	1/28/97	1.60	0.46		pCi/g	1.60	0.46	-	pCi/g	
P19-23	R	Thorium-228	P19-23C-1-R	NONE	483059.08	1351037	2/25/97	1.40	0.15		pCi/g	1.40	0.15	-	pCi/g	
P19-23	R	Thorium-228	P19-23C-10-R	NONE	483277.44	1351123	2/25/97	1.40	0.15		pCi/g	1.40	0.15	-	pCi/g	
P19-23	R	Thorium-228	P19-23C-11-R	NONE	483324.71	1351201	2/25/97	1.40	0.15		pCi/g	1.40	0.15	-	pCi/g	
P19-23	R	Thorium-228	P19-23C-12-R	NONE	483387.4	1351051	2/25/97	1.70	0.18		pCi/g	1.70	0.18	-	pCi/g	
P19-23	R	Thorium-228	P19-23C-13-R	NONE	483391.35	1351091	2/25/97	1.20	0.14		pCi/g	1.20	0.14	-	pCi/g	
P19-23	R	Thorium-228	P19-23C-14-R	NONE	483373.49	1351119	2/25/97	1.30	0.14		pCi/g	1.30	0.14	-	pCi/g	
P19-23	R	Thorium-228	P19-23C-15-R	NONE	483348.31	1351200	2/25/97	1.30	0.14		pCi/g	1.30	0.14	-	pCi/g	
P19-23	R	Thorium-228	P19-23C-16-R	NONE	483373.62	1351233	2/25/97	1.50	0.16		pCi/g	1.50	0.16	-	pCi/g	
P19-23	R	Thorium-228	P19-23C-3-R	NONE	483143.39	1351073	2/25/97	1.40	0.15		pCi/g	1.40	0.15	-	pCi/g	
P19-23	R	Thorium-228	P19-23C-6-R	NONE	483217.41	1351084	2/25/97	1.40	0.15		pCi/g	1.40	0.15	-	pCi/g	
P19-23	R	Thorium-228	P19-23C-6-R-D	NONE	483217.41	1351084	2/25/97	1.40	0.15		pCi/g	1.40	0.15	-	pCi/g	P19-23C-6-R
P19-23	R	Thorium-228	P19-23C-7-R	NONE	483230.09	1351123	2/25/97	1.50	0.16		pCi/g	1.50	0.16	-	pCi/g	
P19-23	R	Thorium-228	P19-23C-9-R	NONE	483284.47	1351065	2/25/97	1.40	0.16		pCi/g	1.40	0.16	-	pCi/g	
P19-23	R	Thorium-232	P19-20C-010014	NONE	483014.14	1351010	1/28/97	1.03	0.53		pCi/g	1.03	0.53	J	pCi/g	
P19-23	R	Thorium-232	P19-20C-060180	NONE	483180	1351060	1/28/97	1.57	0.53		pCi/g	1.57	0.53	-	pCi/g	
P19-23	R	Thorium-232	P19-20C-094298	NONE	483298	1351094	1/28/97	1.07	0.51		pCi/g	1.07	0.51	-	pCi/g	
P19-23	R	Thorium-232	P19-20C-098322	NONE	483322	1351098	1/28/97	0.96	0.38		pCi/g	0.96	0.38	-	pCi/g	
P19-23	R	Thorium-232	P19-20C-163268	NONE	483268.09	1351164	1/28/97	1.81	0.63		pCi/g	1.81	0.63	-	pCi/g	
P19-23	R	Thorium-232	P19-20C-174397	NONE	483397	1351174	1/28/97	1.61	0.60		pCi/g	1.61	0.60	-	pCi/g	
P19-23	R	Thorium-232	P19-23C-1-R	NONE	483059.08	1351037	2/25/97	1.40	0.15		pCi/g	1.40	0.15	-	pCi/g	
P19-23	R	Thorium-232	P19-23C-10-R	NONE	483277.44	1351123	2/25/97	1.40	0.15		pCi/g	1.40	0.15	-	pCi/g	
P19-23	R	Thorium-232	P19-23C-11-R	NONE	483324.71	1351201	2/25/97	1.40	0.15		pCi/g	1.40	0.15	-	pCi/g	
P19-23	R	Thorium-232	P19-23C-12-R	NONE	483387.4	1351051	2/25/97	1.70	0.18		pCi/g	1.70	0.18	-	pCi/g	
P19-23	R	Thorium-232	P19-23C-13-R	NONE	483391.35	1351091	2/25/97	1.20	0.14		pCi/g	1.20	0.14	-	pCi/g	
P19-23	R	Thorium-232	P19-23C-14-R	NONE	483373.49	1351119	2/25/97	1.30	0.14		pCi/g	1.30	0.14	-	pCi/g	
P19-23	R	Thorium-232	P19-23C-15-R	NONE	483348.31	1351200	2/25/97	1.30	0.14		pCi/g	1.30	0.14	-	pCi/g	
P19-23	R	Thorium-232	P19-23C-16-R	NONE	483373.62	1351233	2/25/97	1.50	0.16		pCi/g	1.50	0.16	-	pCi/g	

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								Laboratory Data				Validation Data				
CU Name	CU Type	Parameter	Sample ID	Suffix	Northing	Easting	Sample Date	Lab Result	TPU	Qualifier	Units	Val. Result	TPU	Qualifier	Units	Duplicate of
P19-23	R	Thorium-232	P19-23C-3-R	NONE	483143.39	1351073	2/25/97	1.40	0.15		pCi/g	1.40	0.15	-	pCi/g	
P19-23	R	Thorium-232	P19-23C-6-R	NONE	483217.41	1351084	2/25/97	1.40	0.15		pCi/g	1.40	0.15	-	pCi/g	
P19-23	R	Thorium-232	P19-23C-6-R-D	NONE	483217.41	1351084	2/25/97	1.40	0.15		pCi/g	1.40	0.15	-	pCi/g	P19-23C-6-R
P19-23	R	Thorium-232	P19-23C-7-R	NONE	483230.09	1351123	2/25/97	1.50	0.16		pCi/g	1.50	0.16	-	pCi/g	
P19-23	R	Thorium-232	P19-23C-9-R	NONE	483284.47	1351065	2/25/97	1.40	0.16		pCi/g	1.40	0.16	-	pCi/g	
P19-23	R	Uranium-238	P19-23C-1-R	NONE	483059.08	1351037	2/25/97	5.60	2.10		pCi/g	5.60	2.10	-	pCi/g	
P19-23	R	Uranium-238	P19-23C-10-R	NONE	483277.44	1351123	2/25/97	4.60	1.70		pCi/g	4.60	1.70	-	pCi/g	
P19-23	R	Uranium-238	P19-23C-11-R	NONE	483324.71	1351201	2/25/97	7.50	2.90		pCi/g	7.50	2.90	-	pCi/g	
P19-23	R	Uranium-238	P19-23C-12-R	NONE	483387.4	1351051	2/25/97	7.10	2.30		pCi/g	7.10	2.30	-	pCi/g	
P19-23	R	Uranium-238	P19-23C-13-R	NONE	483391.35	1351091	2/25/97	7.70	2.80		pCi/g	7.70	2.80	-	pCi/g	
P19-23	R	Uranium-238	P19-23C-14-R	NONE	483373.49	1351119	2/25/97	5.40	2.00		pCi/g	5.40	2.00	-	pCi/g	
P19-23	R	Uranium-238	P19-23C-15-R	NONE	483348.31	1351200	2/25/97	9.50	3.50		pCi/g	9.50	3.50	-	pCi/g	
P19-23	R	Uranium-238	P19-23C-16-R	NONE	483373.62	1351233	2/25/97	9.10	3.30		pCi/g	9.06	3.30	-	pCi/g	
P19-23	R	Uranium-238	P19-23C-3-R	NONE	483143.39	1351073	2/25/97	7.30	2.60		pCi/g	7.25	2.60	-	pCi/g	
P19-23	R	Uranium-238	P19-23C-6-R	NONE	483217.41	1351084	2/25/97	8.30	3.30		pCi/g	8.26	3.30	-	pCi/g	
P19-23	R	Uranium-238	P19-23C-6-R-D	NONE	483217.41	1351084	2/25/97	8.30	3.30		pCi/g	8.30	3.30	-	pCi/g	P19-23C-6-R
P19-23	R	Uranium-238	P19-23C-7-R	NONE	483230.09	1351123	2/25/97	10.00	4.50		pCi/g	10.00	4.50	-	pCi/g	
P19-23	R	Uranium-238	P19-23C-9-R	NONE	483284.47	1351065	2/25/97	11.00	4.00		pCi/g	11.00	4.00	-	pCi/g	
P19-40	R	Thorium-228	P19-40C-001567	NONE	483567.78	1351001	1/14/97	1.20	0.17		pCi/g	1.22	0.17	-	pCi/g	
P19-40	R	Thorium-228	P19-40C-009494	NONE	483494.28	1351010	1/14/97	1.20	0.16		pCi/g	1.16	0.16	-	pCi/g	
P19-40	R	Thorium-228	P19-40C-018707	NONE	483707	1351018	3/19/97	1.50	0.21		pCi/g	1.50	0.21	-	pCi/g	
P19-40	R	Thorium-228	P19-40C-046680	NONE	483680.89	1351046	1/14/97	1.20	0.15		pCi/g	1.25	0.15	-	pCi/g	
P19-40	R	Thorium-228	P19-40C-131701	NONE	483701	1351131	3/19/97	1.20	0.22		pCi/g	1.22	0.22	-	pCi/g	
P19-40	R	Thorium-228	P19-40C-163578	NONE	483578.06	1351163	1/14/97	1.20	0.15		pCi/g	1.19	0.15	-	pCi/g	
P19-40	R	Thorium-228	P19-40C-176421	NONE	483421	1351176	1/8/97	1.30	0.18		pCi/g	1.27	0.18	-	pCi/g	
P19-40	R	Thorium-228	P19-40C-179603	NONE	483603.59	1351179	1/14/97	0.96	0.15		pCi/g	0.96	0.15	-	pCi/g	
P19-40	R	Thorium-228	P19-40C-235537	NONE	483537.45	1351235	1/8/97	1.20	0.16		pCi/g	1.18	0.16	-	pCi/g	
P19-40	R	Thorium-228	P19-40C-237489	NONE	483489	1351237	3/19/97	0.67	0.11		pCi/g	0.67	0.11	-	pCi/g	
P19-40	R	Thorium-228	P19-40C-252690	NONE	483690.81	1351252	1/14/97	1.20	0.18		pCi/g	1.24	0.18	-	pCi/g	
P19-40	R	Thorium-228	P19-40C-297760	NONE	483760	1351297	1/14/97	1.20	0.17		pCi/g	1.25	0.17	-	pCi/g	
P19-40	R	Thorium-228	P19-40C-333523	NONE	483523.65	1351333	1/8/97	1.10	0.16		pCi/g	1.10	0.16	-	pCi/g	
P19-40	R	Thorium-228	P19-40C-336769	NONE	483769	1351336	1/15/97	1.20	0.17		pCi/g	1.24	0.17	-	pCi/g	
P19-40	R	Thorium-228	P19-40C-340632	NONE	483632	1351340	3/19/97	1.20	0.16		pCi/g	1.23	0.16	-	pCi/g	
P19-40	R	Thorium-232	P19-40C-001567	NONE	483567.78	1351001	1/14/97	1.20	0.17		pCi/g	1.20	0.17	-	pCi/g	
P19-40	R	Thorium-232	P19-40C-009494	NONE	483494.28	1351010	1/14/97	1.10	0.16		pCi/g	1.14	0.16	-	pCi/g	
P19-40	R	Thorium-232	P19-40C-018707	NONE	483707	1351018	3/19/97	1.50	0.20		pCi/g	1.46	0.20	-	pCi/g	
P19-40	R	Thorium-232	P19-40C-046680	NONE	483680.89	1351046	1/14/97	1.20	0.15		pCi/g	1.23	0.15	-	pCi/g	
P19-40	R	Thorium-232	P19-40C-131701	NONE	483701	1351131	3/19/97	1.20	0.21		pCi/g	1.19	0.21	-	pCi/g	
P19-40	R	Thorium-232	P19-40C-163578	NONE	483578.06	1351163	1/14/97	1.20	0.14		pCi/g	1.17	0.14	-	pCi/g	

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								Laboratory Data				Validation Data				
CU Name	CU Type	Parameter	Sample ID	Suffix	Northing	Easting	Sample Date	Lab Result	TPU	Qualifier	Units	Val. Result	TPU	Qualifier	Units	Duplicate of
P19-40	R	Thorium-232	P19-40C-176421	NONE	483421	1351176	1/8/97	1.20	0.18		pCi/g	1.24	0.18	-	pCi/g	
P19-40	R	Thorium-232	P19-40C-179603	NONE	483603.59	1351179	1/14/97	0.95	0.14		pCi/g	0.95	0.14	-	pCi/g	
P19-40	R	Thorium-232	P19-40C-235537	NONE	483537.45	1351235	1/8/97	1.20	0.16		pCi/g	1.16	0.16	-	pCi/g	
P19-40	R	Thorium-232	P19-40C-237489	NONE	483489	1351237	3/19/97	0.66	0.11		pCi/g	0.66	0.11	-	pCi/g	
P19-40	R	Thorium-232	P19-40C-252690	NONE	483690.81	1351252	1/14/97	1.20	0.17		pCi/g	1.02	0.16	-	pCi/g	
P19-40	R	Thorium-232	P19-40C-297760	NONE	483760	1351297	1/14/97	1.20	0.17		pCi/g	1.22	0.17	-	pCi/g	
P19-40	R	Thorium-232	P19-40C-333523	NONE	483523.65	1351333	1/8/97	1.10	0.16		pCi/g	1.08	0.16	-	pCi/g	
P19-40	R	Thorium-232	P19-40C-336769	NONE	483769	1351336	1/15/97	1.20	0.16		pCi/g	1.22	0.16	-	pCi/g	
P19-40	R	Thorium-232	P19-40C-340632	NONE	483632	1351340	3/19/97	1.20	0.16		pCi/g	1.19	0.16	-	pCi/g	
P20-30	R	Thorium-228	P20-20C-1-R	NONE	483858.16	1351001	1/29/97	1.20	0.18		pCi/g	1.17	0.18	-	pCi/g	
P20-30	R	Thorium-228	P20-20C-10-R	NONE	484042.21	1351184	1/29/97	1.30	0.20		pCi/g	1.35	0.20	-	pCi/g	
P20-30	R	Thorium-228	P20-20C-11-R	NONE	484076.69	1351292	1/29/97	1.40	0.18		pCi/g	1.35	0.18	-	pCi/g	
P20-30	R	Thorium-228	P20-20C-12-R	NONE	484088.39	1351386	1/29/97	1.68	0.48		pCi/g	1.68	0.48	-	pCi/g	
P20-30	R	Thorium-228	P20-20C-13-R	NONE	484145.46	1351034	1/29/97	1.20	0.16		pCi/g	1.18	0.16	-	pCi/g	
P20-30	R	Thorium-228	P20-20C-14-R	NONE	484141.67	1351187	1/29/97	1.30	0.17		pCi/g	1.25	0.17	-	pCi/g	
P20-30	R	Thorium-228	P20-20C-16-R	NONE	484147.13	1351357	1/29/97	1.30	0.19		pCi/g	1.34	0.19	-	pCi/g	
P20-30	R	Thorium-228	P20-20C-2-R	NONE	483813.16	1351136	1/29/97	1.40	0.18		pCi/g	1.35	0.18	-	pCi/g	
P20-30	R	Thorium-228	P20-20C-4-R	NONE	483865.92	1351331	1/29/97	1.79	0.50		pCi/g	1.79	0.50	-	pCi/g	
P20-30	R	Thorium-228	P20-20C-5-R	NONE	483962.85	1351074	1/29/97	1.30	0.18		pCi/g	1.30	0.18	-	pCi/g	
P20-30	R	Thorium-228	P20-20C-6-R	NONE	483935.38	1351135	1/29/97	1.30	0.18		pCi/g	1.29	0.18	-	pCi/g	
P20-30	R	Thorium-228	P20-20C-8-R	NONE	483924.14	1351376	1/29/97	1.30	0.19		pCi/g	1.28	0.19	-	pCi/g	
P20-30	R	Thorium-232	P20-20C-1-R	NONE	483858.16	1351001	1/29/97	1.20	0.18		pCi/g	1.16	0.18	-	pCi/g	
P20-30	R	Thorium-232	P20-20C-10-R	NONE	484042.21	1351184	1/29/97	1.30	0.20		pCi/g	1.33	0.20	-	pCi/g	
P20-30	R	Thorium-232	P20-20C-11-R	NONE	484076.69	1351292	1/29/97	1.30	0.18		pCi/g	1.33	0.18	-	pCi/g	
P20-30	R	Thorium-232	P20-20C-12-R	NONE	484088.39	1351386	1/29/97	2.21	0.65		pCi/g	2.21	0.65	-	pCi/g	
P20-30	R	Thorium-232	P20-20C-13-R	NONE	484145.46	1351034	1/29/97	1.20	0.15		pCi/g	1.16	0.15	-	pCi/g	
P20-30	R	Thorium-232	P20-20C-14-R	NONE	484141.67	1351187	1/29/97	1.20	0.17		pCi/g	1.24	0.17	-	pCi/g	
P20-30	R	Thorium-232	P20-20C-16-R	NONE	484147.13	1351357	1/29/97	1.30	0.19		pCi/g	1.33	0.19	-	pCi/g	
P20-30	R	Thorium-232	P20-20C-2-R	NONE	483813.16	1351136	1/29/97	1.30	0.18		pCi/g	1.34	0.18	-	pCi/g	
P20-30	R	Thorium-232	P20-20C-4-R	NONE	483865.92	1351331	1/29/97	2.05	0.73		pCi/g	2.05	0.73	-	pCi/g	
P20-30	R	Thorium-232	P20-20C-5-R	NONE	483962.85	1351074	1/29/97	1.30	0.18		pCi/g	1.29	0.18	-	pCi/g	
P20-30	R	Thorium-232	P20-20C-6-R	NONE	483935.38	1351135	1/29/97	1.30	0.18		pCi/g	1.27	0.18	-	pCi/g	
P20-30	R	Thorium-232	P20-20C-8-R	NONE	483924.14	1351376	1/29/97	1.30	0.19		pCi/g	1.27	0.19	-	pCi/g	
PUMP-1	R	Thorium-228	PUMP1-C-1-RS	NONE	479461	1350576	3/7/97	1.70	0.17		pCi/g	1.65	0.17	-	pCi/g	
PUMP-1	R	Thorium-228	PUMP1-C-10-RS	NONE	479499	1350598	3/9/97	1.10	0.11		pCi/g	1.05	0.11	-	pCi/g	
PUMP-1	R	Thorium-228	PUMP1-C-11-RS	NONE	479516	1350616	3/9/97	1.20	0.14		pCi/g	1.22	0.14	-	pCi/g	
PUMP-1	R	Thorium-228	PUMP1-C-11-RS-D	NONE	479516	1350616	3/9/97	1.30	0.14		pCi/g	1.27	0.14	-	pCi/g	PUMP1-C-11-RS
PUMP-1	R	Thorium-228	PUMP1-C-12-RS	NONE	479511	1350630	3/9/97	1.10	0.12		pCi/g	1.09	0.12	-	pCi/g	
PUMP-1	R	Thorium-228	PUMP1-C-13-RS	NONE	479538	1350583	3/9/97	1.20	0.14		pCi/g	1.21	0.14	-	pCi/g	

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							Laboratory Data					Validation Data				
CU Name	CU Type	Parameter	Sample ID	Suffix	Northing	Easting	Sample Date	Lab Result	TPU	Qualifier	Units	Val. Result	TPU	Qualifier	Units	Duplicate of
PUMP-1	R	Thorium-228	PUMP1-C-14-RS	NONE	479541	1350596	3/9/97	1.20	0.14		pCi/g	1.23	0.14	-	pCi/g	
PUMP-1	R	Thorium-228	PUMP1-C-15-RS	NONE	479520	1350607	3/9/97	1.20	0.13		pCi/g	1.21	0.13	-	pCi/g	
PUMP-1	R	Thorium-228	PUMP1-C-16-RS	NONE	479541	1350624	3/9/97	1.40	0.15		pCi/g	1.36	0.15	-	pCi/g	
PUMP-1	R	Thorium-228	PUMP1-C-2-RS	NONE	479452	1350600	3/7/97	1.20	0.14		pCi/g	1.22	0.14	-	pCi/g	
PUMP-1	R	Thorium-228	PUMP1-C-3-RS	NONE	479460	1350617	3/7/97	1.30	0.14		pCi/g	1.27	0.14	-	pCi/g	
PUMP-1	R	Thorium-228	PUMP1-C-4-RS	NONE	479451	1350629	3/7/97	1.30	0.15		pCi/g	1.33	0.15	-	pCi/g	
PUMP-1	R	Thorium-228	PUMP1-C-5-RS	NONE	479475	1350576	3/7/97	1.30	0.13		pCi/g	1.27	0.13	-	pCi/g	
PUMP-1	R	Thorium-228	PUMP1-C-6-RS	NONE	479480	1350600	3/7/97	1.40	0.15		pCi/g	1.37	0.15	-	pCi/g	
PUMP-1	R	Thorium-228	PUMP1-C-7-RS	NONE	479484	1350617	3/9/97	1.20	0.12		pCi/g	1.19	0.12	-	pCi/g	
PUMP-1	R	Thorium-228	PUMP1-C-8-RS	NONE	479486	1350640	3/9/97	1.30	0.14		pCi/g	1.26	0.14	-	pCi/g	
PUMP-1	R	Thorium-228	PUMP1-C-9-RS	NONE	479503	1350581	3/9/97	1.00	0.13		pCi/g	1.04	0.13	-	pCi/g	
PUMP-1	R	Thorium-232	PUMP1-C-1-RS	NONE	479461	1350576	3/7/97	1.70	0.17		pCi/g	1.65	0.17	-	pCi/g	
PUMP-1	R	Thorium-232	PUMP1-C-10-RS	NONE	479499	1350598	3/9/97	1.10	0.11		pCi/g	1.05	0.11	-	pCi/g	
PUMP-1	R	Thorium-232	PUMP1-C-11-RS	NONE	479516	1350616	3/9/97	1.20	0.14		pCi/g	1.22	0.14	-	pCi/g	
PUMP-1	R	Thorium-232	PUMP1-C-11-RS-D	NONE	479516	1350616	3/9/97	1.30	0.14		pCi/g	1.27	0.14	-	pCi/g	PUMP1-C-11-RS
PUMP-1	R	Thorium-232	PUMP1-C-12-RS	NONE	479511	1350630	3/9/97	1.10	0.12		pCi/g	1.09	0.12	-	pCi/g	
PUMP-1	R	Thorium-232	PUMP1-C-13-RS	NONE	479538	1350583	3/9/97	1.20	0.14		pCi/g	1.21	0.14	-	pCi/g	
PUMP-1	R	Thorium-232	PUMP1-C-14-RS	NONE	479541	1350596	3/9/97	1.20	0.14		pCi/g	1.23	0.14	-	pCi/g	
PUMP-1	R	Thorium-232	PUMP1-C-15-RS	NONE	479520	1350607	3/9/97	1.20	0.13		pCi/g	1.21	0.13	-	pCi/g	
PUMP-1	R	Thorium-232	PUMP1-C-16-RS	NONE	479541	1350624	3/9/97	1.40	0.15		pCi/g	1.36	0.15	-	pCi/g	
PUMP-1	R	Thorium-232	PUMP1-C-2-RS	NONE	479452	1350600	3/7/97	1.20	0.14		pCi/g	1.22	0.14	-	pCi/g	
PUMP-1	R	Thorium-232	PUMP1-C-3-RS	NONE	479460	1350617	3/7/97	1.30	0.14		pCi/g	1.27	0.14	-	pCi/g	
PUMP-1	R	Thorium-232	PUMP1-C-4-RS	NONE	479451	1350629	3/7/97	1.30	0.15		pCi/g	1.33	0.15	-	pCi/g	
PUMP-1	R	Thorium-232	PUMP1-C-5-RS	NONE	479475	1350576	3/7/97	1.30	0.13		pCi/g	1.27	0.13	-	pCi/g	
PUMP-1	R	Thorium-232	PUMP1-C-6-RS	NONE	479480	1350600	3/7/97	1.40	0.15		pCi/g	1.37	0.15	-	pCi/g	
PUMP-1	R	Thorium-232	PUMP1-C-7-RS	NONE	479484	1350617	3/9/97	1.20	0.12		pCi/g	1.19	0.12	-	pCi/g	
PUMP-1	R	Thorium-232	PUMP1-C-8-RS	NONE	479486	1350640	3/9/97	1.30	0.14		pCi/g	1.26	0.14	-	pCi/g	
PUMP-1	R	Thorium-232	PUMP1-C-9-RS	NONE	479503	1350581	3/9/97	1.00	0.13		pCi/g	1.04	0.13	-	pCi/g	
Q16-33	R	Thorium-228	P17-22C-400417	NONE	481400.42	1351418	12/6/96	1.40	0.16		pCi/g	1.40	0.16	-	pCi/g	
Q16-33	R	Thorium-228	Q16-33C-415297	NONE	481297.49	1351416	12/3/96	1.53	0.49		pCi/g	1.53	0.49	-	pCi/g	
Q16-33	R	Thorium-228	Q16-33C-419394	NONE	481394.86	1351420	12/3/96	1.63	0.59		pCi/g	1.63	0.59	-	pCi/g	
Q16-33	R	Thorium-228	Q16-33C-443311	NONE	481311.33	1351444	12/3/96	1.34	0.52		pCi/g	1.34	0.52	J	pCi/g	
Q16-33	R	Thorium-228	Q16-33C-476366	NONE	481366.76	1351477	12/3/96	1.39	0.47		pCi/g	1.39	0.47	-	pCi/g	
Q16-33	R	Thorium-228	Q16-33C-478339	NONE	481339.25	1351479	12/3/96	1.31	0.57		pCi/g	1.31	0.57	-	pCi/g	
Q16-33	R	Thorium-228	Q16-33C-495260	NONE	481260.39	1351496	12/3/96	1.45	0.26		pCi/g	1.45	0.26	-	pCi/g	
Q16-33	R	Thorium-228	Q16-33C-532385	NONE	481385.83	1351533	12/3/96	1.74	0.64		pCi/g	1.74	0.64	-	pCi/g	
Q16-33	R	Thorium-228	Q16-33C-534284	NONE	481284.77	1351534	12/3/96	1.12	0.53		pCi/g	1.12	0.53	-	pCi/g	
Q16-33	R	Thorium-228	Q16-33C-540239	NONE	481239.55	1351541	12/3/96	1.69	0.72		pCi/g	1.69	0.72	-	pCi/g	
Q16-33	R	Thorium-228	Q16-33C-546349	NONE	481349.7	1351465	12/3/96	0.91	0.49		pCi/g	0.91	0.49	J	pCi/g	

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							Laboratory Data					Validation Data				
CU Name	CU Type	Parameter	Sample ID	Suffix	Northing	Easting	Sample Date	Lab Result	TPU	Qualifier	Units	Val. Result	TPU	Qualifier	Units	Duplicate of
Q16-33	R	Thorium-228	Q16-33C-553248	NONE	481248.89	1351554	12/3/96	1.41	0.44		pCi/g	1.41	0.44	-	pCi/g	
Q16-33	R	Thorium-228	Q16-33C-590295	NONE	481295.94	1351590	12/3/96	0.85	0.46		pCi/g	0.85	0.46	J	pCi/g	
Q16-33	R	Thorium-232	P17-22C-400417	NONE	481400.42	1351418	12/6/96	1.40	0.16		pCi/g	1.40	0.16	-	pCi/g	
Q16-33	R	Thorium-232	Q16-33C-415297	NONE	481297.49	1351416	12/3/96	1.40	0.59		pCi/g	1.40	0.59	-	pCi/g	
Q16-33	R	Thorium-232	Q16-33C-419394	NONE	481394.86	1351420	12/3/96	1.14	0.57		pCi/g	1.14	0.57	-	pCi/g	
Q16-33	R	Thorium-232	Q16-33C-443311	NONE	481311.33	1351444	12/3/96	0.62	0.62	U	pCi/g	0.86		UJ	pCi/g	
Q16-33	R	Thorium-232	Q16-33C-476366	NONE	481366.76	1351477	12/3/96	1.32	0.68		pCi/g	1.32	0.68	J	pCi/g	
Q16-33	R	Thorium-232	Q16-33C-478339	NONE	481339.25	1351479	12/3/96	1.18	0.71		pCi/g	1.18	0.71	J	pCi/g	
Q16-33	R	Thorium-232	Q16-33C-495260	NONE	481260.39	1351496	12/3/96	1.41	0.37		pCi/g	1.41	0.37	-	pCi/g	
Q16-33	R	Thorium-232	Q16-33C-532385	NONE	481385.83	1351533	12/3/96	1.35	0.74		pCi/g	1.35	0.74	J	pCi/g	
Q16-33	R	Thorium-232	Q16-33C-534284	NONE	481284.77	1351534	12/3/96	1.49	0.68		pCi/g	1.49	0.68	-	pCi/g	
Q16-33	R	Thorium-232	Q16-33C-540239	NONE	481239.55	1351541	12/3/96	1.61	0.84		pCi/g	1.61	0.84	J	pCi/g	
Q16-33	R	Thorium-232	Q16-33C-546349	NONE	481349.7	1351465	12/3/96	1.71	0.71		pCi/g	1.71	0.71	-	pCi/g	
Q16-33	R	Thorium-232	Q16-33C-553248	NONE	481248.89	1351554	12/3/96	1.75	0.74		pCi/g	1.75	0.74	-	pCi/g	
Q16-33	R	Thorium-232	Q16-33C-590295	NONE	481295.94	1351590	12/3/96	0.92	0.49		pCi/g	0.92	0.49	J	pCi/g	
Q16-33	R	Uranium-238	P17-22C-400417	NONE	481400.42	1351418	12/6/96	11.00	4.90		pCi/g	11.00	4.90	J	pCi/g	
Q16-34	R	Thorium-228	Q16-34C-641312	NONE	481312.67	1351641	11/15/96	1.30	0.18		pCi/g	1.31		-	pCi/g	
Q16-34	R	Thorium-228	Q16-34C-649355	NONE	481355.63	1351649	11/15/96	1.30	0.19		pCi/g	1.30		-	pCi/g	
Q16-34	R	Thorium-228	Q16-34C-690392	NONE	481392.45	1351691	11/15/96	1.30	0.20		pCi/g	1.30		-	pCi/g	
Q16-34	R	Thorium-228	Q16-34C-709292	NONE	481292.81	1351710	11/15/96	1.20	0.20		pCi/g	1.20		-	pCi/g	
Q16-34	R	Thorium-228	Q16-34C-711328	NONE	481328.92	1351711	11/15/96	1.30	0.20		pCi/g	1.32		-	pCi/g	
Q16-34	R	Thorium-228	Q16-34C-711328-D	NONE	481328.92	1351711	11/15/96	1.40	0.22		pCi/g	1.37		-	pCi/g	Q16-34C-711328
Q16-34	R	Thorium-228	Q16-34C-726243	NONE	481243.52	1351727	11/15/96	1.30	0.20		pCi/g	1.30		-	pCi/g	
Q16-34	R	Thorium-228	Q16-34C-776325	NONE	481325.68	1351776	11/15/96	1.10	0.21		pCi/g	1.10		-	pCi/g	
Q16-34	R	Thorium-228	Q16-34C-795356	NONE	481356.73	1351795	11/19/96	1.11	0.37		pCi/g	1.11	0.37	-	pCi/g	
Q16-34	R	Thorium-228	Q16-34C-796258	NONE	481258.53	1351797	11/15/96	1.20	0.19		pCi/g	1.23		-	pCi/g	
Q16-34	R	Thorium-228	Q16-34C-815206	NONE	481206.58	1351815	11/15/96	1.40	0.19		pCi/g	1.40		-	pCi/g	
Q16-34	R	Thorium-228	Q16-34C-821347	NONE	481325.76	1351833	11/19/96	1.06	0.35		pCi/g	1.06	0.35	-	pCi/g	
Q16-34	R	Thorium-228	Q16-34C3-R-1	NONE	481215	1351721	3/24/97	1.40	0.16		pCi/g	1.41	0.16	-	pCi/g	
Q16-34	R	Thorium-232	Q16-34C-641312	NONE	481312.67	1351641	11/15/96	1.30	0.18		pCi/g	1.28		-	pCi/g	
Q16-34	R	Thorium-232	Q16-34C-649355	NONE	481355.63	1351649	11/15/96	1.30	0.19		pCi/g	1.30		-	pCi/g	
Q16-34	R	Thorium-232	Q16-34C-690392	NONE	481392.45	1351691	11/15/96	1.20	0.20		pCi/g	1.20		-	pCi/g	
Q16-34	R	Thorium-232	Q16-34C-709292	NONE	481292.81	1351710	11/15/96	1.20	0.20		pCi/g	1.20		-	pCi/g	
Q16-34	R	Thorium-232	Q16-34C-711328	NONE	481328.92	1351711	11/15/96	1.30	0.20		pCi/g	1.29		-	pCi/g	
Q16-34	R	Thorium-232	Q16-34C-711328-D	NONE	481328.92	1351711	11/15/96	1.30	0.22		pCi/g	1.35		-	pCi/g	Q16-34C-711328
Q16-34	R	Thorium-232	Q16-34C-726243	NONE	481243.52	1351727	11/15/96	1.30	0.19		pCi/g	1.30		-	pCi/g	
Q16-34	R	Thorium-232	Q16-34C-776325	NONE	481325.68	1351776	11/15/96	1.00	0.21		pCi/g	1.00		-	pCi/g	
Q16-34	R	Thorium-232	Q16-34C-795356	NONE	481356.73	1351795	11/19/96	1.57	0.63		pCi/g	1.57	0.63	-	pCi/g	
Q16-34	R	Thorium-232	Q16-34C-796258	NONE	481258.53	1351797	11/15/96	1.20	0.19		pCi/g	1.20		-	pCi/g	

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								Laboratory Data				Validation Data				
CU Name	CU Type	Parameter	Sample ID	Suffix	Northing	Easting	Sample Date	Lab Result	TPU	Qualifier	Units	Val. Result	TPU	Qualifier	Units	Duplicate of
Q16-34	R	Thorium-232	Q16-34C-815206	NONE	481206.58	1351815	11/15/96	1.30	0.19		pCi/g	1.30		-	pCi/g	
Q16-34	R	Thorium-232	Q16-34C-821347	NONE	481325.76	1351833	11/19/96	1.36	0.45		pCi/g	1.36	0.45	-	pCi/g	
Q16-34	R	Thorium-232	Q16-34C3-R-1	NONE	481215	1351721	3/24/97	1.40	0.16		pCi/g	1.41	0.16	-	pCi/g	
Q17-10	R	Thorium-228	Q17-10C-444513	NONE	481513.76	1351445	12/2/96	1.28	0.35		pCi/g	1.28		-	pCi/g	
Q17-10	R	Thorium-228	Q17-10C-446405	NONE	481405.61	1351447	12/2/96	1.63	0.42		pCi/g	1.63	0.42	-	pCi/g	
Q17-10	R	Thorium-228	Q17-10C-507678	NONE	481678.74	1351507	12/2/96	1.61	0.37		pCi/g	1.61	0.37	-	pCi/g	
Q17-10	R	Thorium-228	Q17-10C-524504	NONE	481504	1351524	12/2/96	1.63	0.31		pCi/g	1.63		-	pCi/g	
Q17-10	R	Thorium-228	Q17-10C-524504	NONE	481524.05	1351504	12/2/96	1.63	0.31		pCi/g	1.63		-	pCi/g	
Q17-10	R	Thorium-228	Q17-10C-533635	NONE	481635.8	1351534	12/2/96	1.35	0.40		pCi/g	1.35		-	pCi/g	
Q17-10	R	Thorium-228	Q17-10C-578761	NONE	481761.89	1351578	11/14/96	1.40	0.22		pCi/g	1.37		-	pCi/g	
Q17-10	R	Thorium-228	Q17-10C-630774	NONE	481774.55	1351630	11/14/96	1.36	0.39		pCi/g	1.36	0.39	-	pCi/g	
Q17-10	R	Thorium-228	Q17-10C-685560	NONE	481560.64	1351685	11/15/96	1.30	0.22		pCi/g	1.35		-	pCi/g	
Q17-10	R	Thorium-228	Q17-10C-717642	NONE	481642.83	1351718	11/15/96	1.30	0.19		pCi/g	1.28		-	pCi/g	
Q17-10	R	Thorium-228	Q17-10C-743541	NONE	481541.88	1351744	11/15/96	1.40	0.20		pCi/g	1.41		-	pCi/g	
Q17-10	R	Thorium-228	Q17-10C-823709	NONE	481709.66	1351824	11/14/96	1.03	0.26		pCi/g	1.03	0.26	-	pCi/g	
Q17-10	R	Thorium-228	Q17-10C-831651	NONE	481651.67	1351831	11/14/96	1.30	0.19		pCi/g	1.26		-	pCi/g	
Q17-10	R	Thorium-232	Q17-10C-444513	NONE	481513.76	1351445	12/2/96	1.58	0.54		pCi/g	1.58		-	pCi/g	
Q17-10	R	Thorium-232	Q17-10C-446405	NONE	481405.61	1351447	12/2/96	1.33	0.49		pCi/g	1.33		-	pCi/g	
Q17-10	R	Thorium-232	Q17-10C-507678	NONE	481678.74	1351507	12/2/96	1.43	0.48		pCi/g	1.43	0.48	-	pCi/g	
Q17-10	R	Thorium-232	Q17-10C-524504	NONE	481504	1351524	12/2/96	1.27	0.67		pCi/g	1.27		J	pCi/g	
Q17-10	R	Thorium-232	Q17-10C-524504	NONE	481524.05	1351504	12/2/96	1.27	0.67		pCi/g	1.27		J	pCi/g	
Q17-10	R	Thorium-232	Q17-10C-533635	NONE	481635.8	1351534	12/2/96	1.28	0.53		pCi/g	1.28		-	pCi/g	
Q17-10	R	Thorium-232	Q17-10C-578761	NONE	481761.89	1351578	11/14/96	1.30	0.22		pCi/g	1.34		-	pCi/g	
Q17-10	R	Thorium-232	Q17-10C-630774	NONE	481774.55	1351630	11/14/96	1.33	0.54		pCi/g	1.33	0.54	-	pCi/g	
Q17-10	R	Thorium-232	Q17-10C-685560	NONE	481560.64	1351685	11/15/96	1.30	0.22		pCi/g	1.32		-	pCi/g	
Q17-10	R	Thorium-232	Q17-10C-717642	NONE	481642.83	1351718	11/15/96	1.30	0.19		pCi/g	1.25		-	pCi/g	
Q17-10	R	Thorium-232	Q17-10C-743541	NONE	481541.88	1351744	11/15/96	1.40	0.20		pCi/g	1.38		-	pCi/g	
Q17-10	R	Thorium-232	Q17-10C-823709	NONE	481709.66	1351824	11/14/96	1.06	0.29		pCi/g	1.06	0.29	-	pCi/g	
Q17-10	R	Thorium-232	Q17-10C-831651	NONE	481651.67	1351831	11/14/96	1.20	0.19		pCi/g	1.23		-	pCi/g	
Q17-30	R	Thorium-228	Q17-30C-457860	NONE	481860.9	1351458	11/27/96	1.31	0.51		pCi/g	1.31		-	pCi/g	
Q17-30	R	Thorium-228	Q17-30C-465922	NONE	481922.26	1351465	11/27/96	1.94	0.59		pCi/g	1.94		-	pCi/g	
Q17-30	R	Thorium-228	Q17-30C-477106	NONE	482106.81	1351478	11/27/96	1.13	0.50		pCi/g	1.13		-	pCi/g	
Q17-30	R	Thorium-228	Q17-30C-571997	NONE	481997.48	1351572	11/14/96	1.30	0.19		pCi/g	1.33		-	pCi/g	
Q17-30	R	Thorium-228	Q17-30C-573853	NONE	481853.59	1351574	11/14/96	1.20	0.19		pCi/g	1.20		-	pCi/g	
Q17-30	R	Thorium-228	Q17-30C-621146	NONE	482146.74	1351621	11/14/96	1.40	0.20		pCi/g	1.42		-	pCi/g	
Q17-30	R	Thorium-228	Q17-30C-631819	NONE	481819.44	1351631	11/14/96	1.20	0.19		pCi/g	1.24		-	pCi/g	
Q17-30	R	Thorium-228	Q17-30C-653173	NONE	482173.71	1351653	11/14/96	1.40	0.20		pCi/g	1.35		-	pCi/g	
Q17-30	R	Thorium-228	Q17-30C-693998	NONE	481998.63	1351693	11/14/96	1.30	0.19		pCi/g	1.35		-	pCi/g	
Q17-30	R	Thorium-228	Q17-30C-715029	NONE	482029.67	1351716	11/14/96	1.30	0.31		pCi/g	1.33		-	pCi/g	

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								Laboratory Data				Validation Data				
CU Name	CU Type	Parameter	Sample ID	Suffix	Northing	Easting	Sample Date	Lab Result	TPU	Qualifier	Units	Val. Result	TPU	Qualifier	Units	Duplicate of
Q17-30	R	Thorium-228	Q17-30C-753114	NONE	482114.38	1351754	11/14/96	0.85	0.22		pCi/g	0.85		-	pCi/g	
Q17-30	R	Thorium-228	Q17-30C-781023	NONE	482023.74	1351782	11/14/96	1.40	0.20		pCi/g	1.38		-	pCi/g	
Q17-30	R	Thorium-232	Q17-30C-457860	NONE	481860.9	1351458	11/27/96	1.25	0.53		pCi/g	1.25		-	pCi/g	
Q17-30	R	Thorium-232	Q17-30C-465922	NONE	481922.26	1351465	11/27/96	1.52	0.71		pCi/g	1.52		-	pCi/g	
Q17-30	R	Thorium-232	Q17-30C-477106	NONE	482106.81	1351478	11/27/96	1.14	0.57		pCi/g	1.14		-	pCi/g	
Q17-30	R	Thorium-232	Q17-30C-571997	NONE	481997.48	1351572	11/14/96	1.30	0.18		pCi/g	1.30		-	pCi/g	
Q17-30	R	Thorium-232	Q17-30C-573853	NONE	481853.59	1351574	11/14/96	1.20	0.18		pCi/g	1.18		-	pCi/g	
Q17-30	R	Thorium-232	Q17-30C-621146	NONE	482146.74	1351621	11/14/96	1.40	0.20		pCi/g	1.39		-	pCi/g	
Q17-30	R	Thorium-232	Q17-30C-631819	NONE	481819.44	1351631	11/14/96	1.20	0.18		pCi/g	1.22		-	pCi/g	
Q17-30	R	Thorium-232	Q17-30C-653173	NONE	482173.71	1351653	11/14/96	1.30	0.20		pCi/g	1.33		-	pCi/g	
Q17-30	R	Thorium-232	Q17-30C-693998	NONE	481998.63	1351693	11/14/96	1.30	0.19		pCi/g	1.32		-	pCi/g	
Q17-30	R	Thorium-232	Q17-30C-715029	NONE	482029.67	1351716	11/14/96	1.30	0.30		pCi/g	1.30		-	pCi/g	
Q17-30	R	Thorium-232	Q17-30C-753114	NONE	482114.38	1351754	11/14/96	0.84	0.21		pCi/g	0.84		-	pCi/g	
Q17-30	R	Thorium-232	Q17-30C-781023	NONE	482023.74	1351782	11/14/96	1.30	0.20		pCi/g	1.35		-	pCi/g	
Q18-10	R	Thorium-228	Q18-10C-422483	NONE	482483.63	1351422	11/27/96	1.51	0.41		pCi/g	1.51		-	pCi/g	
Q18-10	R	Thorium-228	Q18-10C-485247	NONE	482247.51	1351485	11/27/96	0.84	0.51		pCi/g	0.84	0.51	J	pCi/g	
Q18-10	R	Thorium-228	Q18-10C-487528	NONE	482528.32	1351488	11/22/96	1.90	0.19		pCi/g	1.90	0.19	-	pCi/g	
Q18-10	R	Thorium-228	Q18-10C-509599	NONE	482599.83	1351509	11/22/96	1.40	0.16		pCi/g	1.40	0.16	-	pCi/g	
Q18-10	R	Thorium-228	Q18-10C-517303	NONE	482303.66	1351518	11/27/96	1.91	0.62		pCi/g	1.91		-	pCi/g	
Q18-10	R	Thorium-228	Q18-10C-542232	NONE	482232.37	1351543	11/27/96	1.56	0.55		pCi/g	1.56		-	pCi/g	
Q18-10	R	Thorium-228	Q18-10C-588407	NONE	482407.86	1351588	11/14/96	1.40	0.22		pCi/g	1.40		-	pCi/g	
Q18-10	R	Thorium-228	Q18-10C-638515	NONE	482515.57	1351639	11/14/96	1.50	0.21		pCi/g	1.50		-	pCi/g	
Q18-10	R	Thorium-228	Q18-10C-679345	NONE	482345.76	1351679	11/14/96	1.40	0.21		pCi/g	1.40		-	pCi/g	
Q18-10	R	Thorium-228	Q18-10C-725517	NONE	482517	1351725	11/14/96	1.20	0.19		pCi/g	1.20		-	pCi/g	
Q18-10	R	Thorium-228	Q18-10C-734434	NONE	482434.92	1351734	11/14/96	1.20	0.24		pCi/g	1.20		-	pCi/g	
Q18-10	R	Thorium-228	Q18-10C-747320	NONE	482320.45	1351748	11/14/96	1.30	0.18		pCi/g	1.30		-	pCi/g	
Q18-10	R	Thorium-232	Q18-10C-422483	NONE	482483.63	1351422	11/27/96	1.96	0.55		pCi/g	1.96		-	pCi/g	
Q18-10	R	Thorium-232	Q18-10C-485247	NONE	482247.51	1351485	11/27/96	1.43	0.81		pCi/g	1.43		J	pCi/g	
Q18-10	R	Thorium-232	Q18-10C-487528	NONE	482528.32	1351488	11/22/96	1.90	0.19		pCi/g	1.90	0.19	-	pCi/g	
Q18-10	R	Thorium-232	Q18-10C-509599	NONE	482599.83	1351509	11/22/96	1.40	0.16		pCi/g	1.40	0.16	-	pCi/g	
Q18-10	R	Thorium-232	Q18-10C-517303	NONE	482303.66	1351518	11/27/96	1.20	0.64		pCi/g	1.20		J	pCi/g	
Q18-10	R	Thorium-232	Q18-10C-542232	NONE	482232.37	1351543	11/27/96	1.56	0.83		pCi/g	1.56		J	pCi/g	
Q18-10	R	Thorium-232	Q18-10C-588407	NONE	482407.86	1351588	11/14/96	1.30	0.22		pCi/g	1.30		-	pCi/g	
Q18-10	R	Thorium-232	Q18-10C-638515	NONE	482515.57	1351639	11/14/96	1.40	0.21		pCi/g	1.40		-	pCi/g	
Q18-10	R	Thorium-232	Q18-10C-679345	NONE	482345.76	1351679	11/14/96	1.40	0.20		pCi/g	1.40		-	pCi/g	
Q18-10	R	Thorium-232	Q18-10C-725517	NONE	482517	1351725	11/14/96	1.20	0.19		pCi/g	1.20		-	pCi/g	
Q18-10	R	Thorium-232	Q18-10C-734434	NONE	482434.92	1351734	11/14/96	1.20	0.23		pCi/g	1.20		-	pCi/g	
Q18-10	R	Thorium-232	Q18-10C-747320	NONE	482320.45	1351748	11/14/96	1.30	0.18		pCi/g	1.30		-	pCi/g	
Q18-10	R	Uranium-238	Q18-10C-487528	NONE	482528.32	1351488	11/22/96	8.00	2.90		pCi/g	8.00	2.90	-	pCi/g	

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							Laboratory Data					Validation Data				
CU Name	CU Type	Parameter	Sample ID	Suffix	Northing	Easting	Sample Date	Lab Result	TPU	Qualifier	Units	Val. Result	TPU	Qualifier	Units	Duplicate of
Q18-10	R	Uranium-238	Q18-10C-509599	NONE	482599.83	1351509	11/22/96	1.70	0.64		pCi/g	1.72	0.64	J	pCi/g	
Q18-10	R	Uranium-238	Q18-10C-509599	RE	482599.83	1351509	11/22/96	1.70	0.64		pCi/g	1.85	0.89	R	pCi/g	
Q18-30	R	Thorium-228	Q18-30C-404861	NONE	482861.28	1351404	11/22/96	1.20	0.15		pCi/g	1.20	0.15	-	pCi/g	
Q18-30	R	Thorium-228	Q18-30C-440916	NONE	482916.24	1351440	11/22/96	1.20	0.13		pCi/g	1.20	0.13	-	pCi/g	
Q18-30	R	Thorium-228	Q18-30C-479618	NONE	482618.5	1351480	11/22/96	1.30	0.15		pCi/g	1.30	0.15	-	pCi/g	
Q18-30	R	Thorium-228	Q18-30C-538810	NONE	482810.79	1351539	11/22/96	1.40	0.14		pCi/g	1.40	0.14	-	pCi/g	
Q18-30	R	Thorium-228	Q18-30C-563663	NONE	482663.85	1351564	11/14/96	1.20	0.20		pCi/g	1.20		-	pCi/g	
Q18-30	R	Thorium-228	Q18-30C-587936	NONE	482936.61	1351588	11/13/96	0.78	0.46		pCi/g	0.78	0.46	J	pCi/g	
Q18-30	R	Thorium-228	Q18-30C-616928	NONE	482928.25	1351616	11/13/96	1.30	0.40		pCi/g	1.30	0.40	-	pCi/g	
Q18-30	R	Thorium-228	Q18-30C-640877	NONE	482877.74	1351641	11/13/96	1.18	0.47		pCi/g	1.18	0.47	-	pCi/g	
Q18-30	R	Thorium-228	Q18-30C-704635	NONE	482635.77	1351705	11/14/96	1.30	0.19		pCi/g	1.30		-	pCi/g	
Q18-30	R	Thorium-228	Q18-30C-753949	NONE	482949.14	1351754	11/13/96	1.58	0.46		pCi/g	1.58	0.46	-	pCi/g	
Q18-30	R	Thorium-228	Q18-30C-772773	NONE	482773.71	1351773	11/13/96	1.46	0.43		pCi/g	1.46	0.43	-	pCi/g	
Q18-30	R	Thorium-228	Q18-30C-774831	NONE	482831.37	1351775	11/13/96	1.04	0.36		pCi/g	1.04	0.36	-	pCi/g	
Q18-30	R	Thorium-232	Q18-30C-404861	NONE	482861.28	1351404	11/22/96	1.20	0.15		pCi/g	1.20	0.15	-	pCi/g	
Q18-30	R	Thorium-232	Q18-30C-440916	NONE	482916.24	1351440	11/22/96	1.20	0.13		pCi/g	1.20	0.13	-	pCi/g	
Q18-30	R	Thorium-232	Q18-30C-479618	NONE	482618.5	1351480	11/22/96	1.30	0.15		pCi/g	1.30	0.15	-	pCi/g	
Q18-30	R	Thorium-232	Q18-30C-538810	NONE	482810.79	1351539	11/22/96	1.40	0.14		pCi/g	1.40	0.14	-	pCi/g	
Q18-30	R	Thorium-232	Q18-30C-563663	NONE	482663.85	1351564	11/14/96	1.20	0.19		pCi/g	1.20		-	pCi/g	
Q18-30	R	Thorium-232	Q18-30C-587936	NONE	482936.61	1351588	11/13/96	1.48	0.89		pCi/g	1.48	0.89	J	pCi/g	
Q18-30	R	Thorium-232	Q18-30C-616928	NONE	482928.25	1351616	11/13/96	1.13	0.46		pCi/g	1.13	0.46	-	pCi/g	
Q18-30	R	Thorium-232	Q18-30C-640877	NONE	482877.74	1351641	11/13/96	1.34	0.54		pCi/g	1.34	0.54	-	pCi/g	
Q18-30	R	Thorium-232	Q18-30C-704635	NONE	482635.77	1351705	11/14/96	1.30	0.19		pCi/g	1.30		-	pCi/g	
Q18-30	R	Thorium-232	Q18-30C-753949	NONE	482949.14	1351754	11/13/96	0.74	0.61	U	pCi/g	0.88		UJ	pCi/g	
Q18-30	R	Thorium-232	Q18-30C-772773	NONE	482773.71	1351773	11/13/96	1.21	0.46		pCi/g	1.21	0.46	-	pCi/g	
Q18-30	R	Thorium-232	Q18-30C-774831	NONE	482831.37	1351775	11/13/96	1.05	0.51		pCi/g	1.05	0.51	-	pCi/g	
Q18-30	R	Uranium-238	Q18-30C-404861	NONE	482861.28	1351404	11/22/96	3.50	1.10		pCi/g	3.47	1.15	J	pCi/g	
Q18-30	R	Uranium-238	Q18-30C-440916	NONE	482916.24	1351440	11/22/96	2.50	1.00		pCi/g	2.52	1.01	-	pCi/g	
Q18-30	R	Uranium-238	Q18-30C-479618	NONE	482618.5	1351480	11/22/96	2.30	0.85		pCi/g	2.32	0.85	J	pCi/g	
Q18-30	R	Uranium-238	Q18-30C-538810	NONE	482810.79	1351539	11/22/96	1.60	0.61		pCi/g	1.64	0.61	J	pCi/g	
Q18-40	R	Radium-226	Q18-40A-C2-1-R	NONE	482843	1351848	5/6/97	1.30	0.62		pCi/g	1.40	0.61	Z	pCi/g	
Q18-40	R	Radium-226	Q18-40A-C2-1-R	RE	482843	1351848	5/6/97	1.30	0.30		pCi/g	1.40	0.32	-	pCi/g	
Q18-40	R	Radium-226	Q18-40A-C2-10-R	NONE	482939	1351864	5/7/97	2.30	1.50		pCi/g	2.50	1.60	Z	pCi/g	
Q18-40	R	Radium-226	Q18-40A-C2-10-R	RE	482939	1351864	5/7/97	1.60	0.32		pCi/g	1.67	0.34	-	pCi/g	
Q18-40	R	Radium-226	Q18-40A-C2-11-R	NONE	482924	1351923	5/7/97	1.90	0.94		pCi/g	2.10	0.94	Z	pCi/g	
Q18-40	R	Radium-226	Q18-40A-C2-11-R	RE	482924	1351923	5/7/97	1.30	0.22		pCi/g	1.36	0.23	-	pCi/g	
Q18-40	R	Radium-226	Q18-40A-C2-12-R	RE	482941	1352016	5/7/97	1.40	0.23		pCi/g	1.47	0.25	-	pCi/g	
Q18-40	R	Radium-226	Q18-40A-C2-12-R	NONE	482941	1352016	5/7/97	5.20	3.10		pCi/g	5.40	3.20	Z	pCi/g	
Q18-40	R	Radium-226	Q18-40A-C2-13-R	RE	482999	1351857	5/6/97	1.40	0.32		pCi/g	1.51	0.34	-	pCi/g	

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							Laboratory Data				Validation Data				
CU Name	CU Type	Parameter	Sample ID	Suffix	Northing	Easting	Sample Date	Lab Result	TPU	Qualifier	Units	Val. Result	TPU	Qualifier	Units	Duplicate of
Q18-40	R	Radium-226	Q18-40A-C2-13-R	NONE	482999	1351857	5/6/97	0.91	0.72		pCi/g	1.00	0.74	Z	pCi/g	
Q18-40	R	Radium-226	Q18-40A-C2-14-R	NONE	482975	1351898	5/6/97	0.83	0.53		pCi/g	0.96	0.51	Z	pCi/g	
Q18-40	R	Radium-226	Q18-40A-C2-14-R	RE	482975	1351898	5/6/97	1.20	0.20		pCi/g	1.29	0.22	-	pCi/g	
Q18-40	R	Radium-226	Q18-40A-C2-15-R	NONE	482977	1351977	5/7/97	0.99	0.53		pCi/g	1.10	0.49	Z	pCi/g	
Q18-40	R	Radium-226	Q18-40A-C2-15-R	RE	482977	1351977	5/7/97	1.30	0.29		pCi/g	1.38	0.31	-	pCi/g	
Q18-40	R	Radium-226	Q18-40A-C2-16-R	NONE	482965	1352001	5/7/97	0.86	0.57		pCi/g	1.00	0.54	Z	pCi/g	
Q18-40	R	Radium-226	Q18-40A-C2-16-R	RE	482965	1352001	5/7/97	1.40	0.34		pCi/g	1.51	0.36	-	pCi/g	
Q18-40	R	Radium-226	Q18-40A-C2-3-R	NONE	482837	1351948	5/7/97	2.00	0.75		pCi/g	2.10	0.72	Z	pCi/g	
Q18-40	R	Radium-226	Q18-40A-C2-3-R	RE	482837	1351948	5/7/97	1.50	0.34		pCi/g	1.64	0.37	-	pCi/g	
Q18-40	R	Radium-226	Q18-40A-C2-4-R	NONE	482850	1351986	5/7/97	1.00	0.68		pCi/g	1.20	0.66	Z	pCi/g	
Q18-40	R	Radium-226	Q18-40A-C2-4-R	RE	482850	1351986	5/7/97	1.20	0.21		pCi/g	1.30	0.23	-	pCi/g	
Q18-40	R	Radium-226	Q18-40A-C2-5-R	NONE	482900	1351838	5/6/97	1.50	0.77		pCi/g	1.70	0.77	Z	pCi/g	
Q18-40	R	Radium-226	Q18-40A-C2-5-R	RE	482900	1351838	5/6/97	1.10	0.33		pCi/g	1.18	0.35	-	pCi/g	
Q18-40	R	Radium-226	Q18-40A-C2-5-R-D	RE	482900	1351838	5/6/97	1.20	0.19		pCi/g	1.24	0.21	-	pCi/g	Q18-40A-C2-5-R
Q18-40	R	Radium-226	Q18-40A-C2-5-R-D	NONE	482900	1351838	5/6/97	0.70	0.58		pCi/g	0.83	0.60	Z	pCi/g	Q18-40A-C2-5-R
Q18-40	R	Radium-226	Q18-40A-C2-6-R	NONE	482874	1351870	5/6/97	1.50	0.63		pCi/g	1.60	0.61	Z	pCi/g	
Q18-40	R	Radium-226	Q18-40A-C2-6-R	RE	482874	1351870	5/6/97	1.30	0.23		pCi/g	1.43	0.24	-	pCi/g	
Q18-40	R	Radium-226	Q18-40A-C2-7-R	NONE	482871	1351926	5/7/97	1.90	0.73		pCi/g	2.10	0.71	Z	pCi/g	
Q18-40	R	Radium-226	Q18-40A-C2-7-R	RE	482871	1351926	5/7/97	1.40	0.24		pCi/g	1.53	0.25	-	pCi/g	
Q18-40	R	Radium-226	Q18-40A-C2-8-R	NONE	482907	1352004	5/7/97	2.30	1.00		pCi/g	2.50	1.00	Z	pCi/g	
Q18-40	R	Radium-226	Q18-40A-C2-8-R	RE	482907	1352004	5/7/97	1.30	0.23		pCi/g	1.34	0.25	-	pCi/g	
Q18-40	R	Radium-226	Q18-40A-C2-9-R	NONE	482949	1351816	5/6/97	1.10	0.55		pCi/g	1.30	0.53	Z	pCi/g	
Q18-40	R	Radium-226	Q18-40A-C2-9-R	RE	482949	1351816	5/6/97	1.40	0.25		pCi/g	1.46	0.27	-	pCi/g	
Q18-40	R	Radium-226	Q18-40B-C3-1-R	NONE	482636	1351834	5/6/97	2.50	1.10		pCi/g	2.70	1.00	Z	pCi/g	
Q18-40	R	Radium-226	Q18-40B-C3-1-R	RE	482636	1351834	5/6/97	1.10	0.25		pCi/g	1.22	0.27	-	pCi/g	
Q18-40	R	Radium-226	Q18-40B-C3-10-R	NONE	482755	1351905	5/6/97	1.80	0.88		pCi/g	1.90	0.85	Z	pCi/g	
Q18-40	R	Radium-226	Q18-40B-C3-10-R	RE	482755	1351905	5/6/97	1.20	0.20		pCi/g	1.30	0.21	-	pCi/g	
Q18-40	R	Radium-226	Q18-40B-C3-11-R	NONE	482735	1351948	5/6/97	1.40	0.79		pCi/g	1.50	0.76	Z	pCi/g	
Q18-40	R	Radium-226	Q18-40B-C3-11-R	RE	482735	1351948	5/6/97	1.50	0.22		pCi/g	1.56	0.23	-	pCi/g	
Q18-40	R	Radium-226	Q18-40B-C3-12-R	NONE	482773	1351981	5/6/97	2.50	1.10		pCi/g	2.60	1.10	Z	pCi/g	
Q18-40	R	Radium-226	Q18-40B-C3-12-R	RE	482773	1351981	5/6/97	1.40	0.32		pCi/g	1.49	0.34	-	pCi/g	
Q18-40	R	Radium-226	Q18-40B-C3-13-R	NONE	482821	1351805	5/6/97	2.90	0.93		pCi/g	3.00	0.90	Z	pCi/g	
Q18-40	R	Radium-226	Q18-40B-C3-13-R	RE	482821	1351805	5/6/97	1.40	0.23		pCi/g	1.46	0.25	-	pCi/g	
Q18-40	R	Radium-226	Q18-40B-C3-14-R	NONE	482803	1351862	5/6/97	1.70	0.68		pCi/g	1.80	0.65	Z	pCi/g	
Q18-40	R	Radium-226	Q18-40B-C3-14-R	RE	482803	1351862	5/6/97	1.60	0.33		pCi/g	1.70	0.35	-	pCi/g	
Q18-40	R	Radium-226	Q18-40B-C3-15-R	NONE	482814	1351950	5/6/97	1.50	0.71		pCi/g	1.60	0.69	Z	pCi/g	
Q18-40	R	Radium-226	Q18-40B-C3-15-R	RE	482814	1351950	5/6/97	0.91	0.17		pCi/g	0.98	0.19	-	pCi/g	
Q18-40	R	Radium-226	Q18-40B-C3-16-R	RE	482790	1352009	5/6/97	1.30	0.21		pCi/g	1.38	0.22	-	pCi/g	
Q18-40	R	Radium-226	Q18-40B-C3-16-R	NONE	482790	1352009	5/6/97	1.30	0.97		pCi/g	1.40	0.97	Z	pCi/g	
Q18-40	R	Radium-226	Q18-40B-C3-2-R	NONE	482646	1351863	5/6/97	1.40	1.00		pCi/g	1.50	1.00	Z	pCi/g	

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								Laboratory Data				Validation Data				
CU Name	CU Type	Parameter	Sample ID	Suffix	Northing	Easting	Sample Date	Lab Result	TPU	Qualifier	Units	Val. Result	TPU	Qualifier	Units	Duplicate of
Q18-40	R	Radium-226	Q18-40B-C3-2-R	RE	482646	1351863	5/6/97	1.30	0.29		pCi/g	1.38	0.31	-	pCi/g	
Q18-40	R	Radium-226	Q18-40B-C3-3-R	NONE	482653	1351942	5/6/97	1.80	0.66		pCi/g	1.90	0.61	Z	pCi/g	
Q18-40	R	Radium-226	Q18-40B-C3-3-R	RE	482653	1351942	5/6/97	1.30	0.23		pCi/g	1.37	0.24	-	pCi/g	
Q18-40	R	Radium-226	Q18-40B-C3-4-R	NONE	482646	1351969	5/6/97	1.20	0.61		pCi/g	1.30	0.54	Z	pCi/g	
Q18-40	R	Radium-226	Q18-40B-C3-4-R	RE	482646	1351969	5/6/97	1.30	0.30		pCi/g	1.43	0.32	-	pCi/g	
Q18-40	R	Radium-226	Q18-40B-C3-5-R	NONE	482686	1351832	5/6/97	1.30	0.66		pCi/g	1.40	0.59	Z	pCi/g	
Q18-40	R	Radium-226	Q18-40B-C3-5-R	RE	482686	1351832	5/6/97	1.40	0.32		pCi/g	1.49	0.35	-	pCi/g	
Q18-40	R	Radium-226	Q18-40B-C3-5-R-D	NONE	482686	1351832	5/6/97	1.60	0.82		pCi/g	1.70	0.78	Z	pCi/g	Q18-40B-C3-5-R
Q18-40	R	Radium-226	Q18-40B-C3-5-R-D	RE	482686	1351832	5/6/97	1.30	0.22		pCi/g	1.37	0.24	-	pCi/g	Q18-40B-C3-5-R
Q18-40	R	Radium-226	Q18-40B-C3-6-R	NONE	482708	1351885	5/6/97	1.70	0.76		pCi/g	1.80	0.71	Z	pCi/g	
Q18-40	R	Radium-226	Q18-40B-C3-6-R	RE	482708	1351885	5/6/97	0.90	0.21		pCi/g	0.97	0.23	-	pCi/g	
Q18-40	R	Radium-226	Q18-40B-C3-7-R	NONE	482691	1351937	5/6/97	1.70	0.60		pCi/g	1.80	0.53	Z	pCi/g	
Q18-40	R	Radium-226	Q18-40B-C3-7-R	RE	482691	1351937	5/6/97	1.20	0.22		pCi/g	1.29	0.23	-	pCi/g	
Q18-40	R	Radium-226	Q18-40B-C3-8-R	NONE	482695	1351970	5/6/97	1.60	0.76		pCi/g	1.70	0.73	Z	pCi/g	
Q18-40	R	Radium-226	Q18-40B-C3-8-R	RE	482695	1351970	5/6/97	0.97	0.23		pCi/g	1.03	0.24	-	pCi/g	
Q18-40	R	Radium-226	Q18-40B-C3-9-R	NONE	482741	1351816	5/6/97	1.20	0.89		pCi/g	1.30	0.89	Z	pCi/g	
Q18-40	R	Radium-226	Q18-40B-C3-9-R	RE	482741	1351816	5/6/97	1.20	0.21		pCi/g	1.29	0.22	-	pCi/g	
Q18-40	R	Radium-226	Q18-40C-811654	NONE	482654.93	1351811	11/13/96	1.29	0.22		pCi/g	1.29	0.22	-	pCi/g	
Q18-40	R	Radium-226	Q18-40C-870874	NONE	482874.8	1351870	11/13/96	1.57	0.30		pCi/g	1.57	0.30	-	pCi/g	
Q18-40	R	Radium-226	Q18-40C-872764	NONE	482764.93	1351872	11/13/96	1.25	0.21		pCi/g	1.25	0.21	-	pCi/g	
Q18-40	R	Radium-226	Q18-40C-891658	NONE	482658.95	1351892	11/13/96	1.25	0.23		pCi/g	1.25	0.23	-	pCi/g	
Q18-40	R	Radium-226	Q18-40C-898975	NONE	482975.94	1351899	11/13/96	1.94	0.33		pCi/g	1.94	0.33	-	pCi/g	
Q18-40	R	Radium-226	Q18-40C-914679	NONE	482679.36	1351915	11/13/96	2.61	0.40		pCi/g	2.61	0.40	-	pCi/g	
Q18-40	R	Radium-226	Q18-40C-920785	NONE	482785.36	1351921	11/13/96	1.04	0.20		pCi/g	1.04	0.20	-	pCi/g	
Q18-40	R	Radium-226	Q18-40C-926871	NONE	482871.7	1351926	11/13/96	1.07	0.22		pCi/g	1.07	0.22	-	pCi/g	
Q18-40	R	Radium-226	Q18-40C-977977	NONE	482977.79	1351978	11/13/96	1.40	0.31		pCi/g	1.40	0.31	-	pCi/g	
Q18-40	R	Radium-226	Q18-40C-977977-D	NONE	482977.79	1351978	11/13/96	1.64	0.31		pCi/g	1.64	0.31	-	pCi/g	Q18-40C-977977
Q18-40	R	Radium-226	Q18-40C-981808	NONE	482808.19	1351981	11/13/96	1.06	0.23		pCi/g	1.06	0.23	-	pCi/g	
Q18-40	R	Radium-226	Q18-40C-986850	NONE	482850.57	1351986	11/13/96	1.25	0.22		pCi/g	1.25	0.22	-	pCi/g	
Q18-40	R	Radium-226	Q18-40C-987728	NONE	482728.82	1351987	11/13/96	2.42	0.42		pCi/g	2.42	0.42	-	pCi/g	
Q18-40	R	Thorium-228	Q18-40C-811654	NONE	482654.93	1351811	11/13/96	1.21	0.31		pCi/g	1.21	0.31	-	pCi/g	
Q18-40	R	Thorium-228	Q18-40C-870874	NONE	482874.8	1351870	11/13/96	1.31	0.37		pCi/g	1.31	0.37	-	pCi/g	
Q18-40	R	Thorium-228	Q18-40C-872764	NONE	482764.93	1351872	11/13/96	1.63	0.33		pCi/g	1.63	0.33	-	pCi/g	
Q18-40	R	Thorium-228	Q18-40C-891658	NONE	482658.95	1351892	11/13/96	1.26	0.35		pCi/g	1.26	0.35	-	pCi/g	
Q18-40	R	Thorium-228	Q18-40C-898975	NONE	482975.94	1351899	11/13/96	1.70	0.52		pCi/g	1.70	0.52	-	pCi/g	
Q18-40	R	Thorium-228	Q18-40C-914679	NONE	482679.36	1351915	11/13/96	1.63	0.44		pCi/g	1.63	0.44	-	pCi/g	
Q18-40	R	Thorium-228	Q18-40C-920785	NONE	482785.36	1351921	11/13/96	1.09	0.31		pCi/g	1.09	0.31	-	pCi/g	
Q18-40	R	Thorium-228	Q18-40C-926871	NONE	482871.7	1351926	11/13/96	1.48	0.34		pCi/g	1.48	0.34	-	pCi/g	
Q18-40	R	Thorium-228	Q18-40C-977977	NONE	482977.79	1351978	11/13/96	1.82	0.40		pCi/g	1.82	0.40	-	pCi/g	
Q18-40	R	Thorium-228	Q18-40C-977977-D	NONE	482977.79	1351978	11/13/96	1.23	0.53		pCi/g	1.23	0.53	-	pCi/g	Q18-40C-977977

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								Laboratory Data				Validation Data				
CU Name	CU Type	Parameter	Sample ID	Suffix	Northing	Easting	Sample Date	Lab Result	TPU	Qualifier	Units	Val. Result	TPU	Qualifier	Units	Duplicate of
Q18-40	R	Thorium-228	Q18-40C-981808	NONE	482808.19	1351981	11/13/96	1.13	0.32		pCi/g	1.13	0.32	-	pCi/g	
Q18-40	R	Thorium-228	Q18-40C-986850	NONE	482850.57	1351986	11/13/96	1.38	0.37		pCi/g	1.38	0.37	-	pCi/g	
Q18-40	R	Thorium-228	Q18-40C-987728	NONE	482728.82	1351987	11/13/96	1.87	0.46		pCi/g	1.87	0.46	-	pCi/g	
Q18-40	R	Thorium-232	Q18-40C-811654	NONE	482654.93	1351811	11/13/96	1.38	0.43		pCi/g	1.38	0.43	-	pCi/g	
Q18-40	R	Thorium-232	Q18-40C-870874	NONE	482874.8	1351870	11/13/96	1.13	0.54		pCi/g	1.13	0.55	-	pCi/g	
Q18-40	R	Thorium-232	Q18-40C-872764	NONE	482764.93	1351872	11/13/96	11.10	0.41		pCi/g	1.11	0.41	-	pCi/g	
Q18-40	R	Thorium-232	Q18-40C-891658	NONE	482658.95	1351892	11/13/96	1.14	0.42		pCi/g	1.14	0.42	-	pCi/g	
Q18-40	R	Thorium-232	Q18-40C-898975	NONE	482975.94	1351899	11/13/96	1.58	0.59		pCi/g	1.58	0.59	-	pCi/g	
Q18-40	R	Thorium-232	Q18-40C-914679	NONE	482679.36	1351915	11/13/96	1.40	0.60		pCi/g	1.40	0.60	-	pCi/g	
Q18-40	R	Thorium-232	Q18-40C-920785	NONE	482785.36	1351921	11/13/96	1.49	0.39		pCi/g	1.49	0.39	-	pCi/g	
Q18-40	R	Thorium-232	Q18-40C-926871	NONE	482871.7	1351926	11/13/96	1.43	0.39		pCi/g	1.43	0.39	-	pCi/g	
Q18-40	R	Thorium-232	Q18-40C-977977	NONE	482977.79	1351978	11/13/96	1.74	0.58		pCi/g	1.74	0.58	-	pCi/g	
Q18-40	R	Thorium-232	Q18-40C-977977-D	NONE	482977.79	1351978	11/13/96	1.66	0.57		pCi/g	1.66	0.57	-	pCi/g	Q18-40C-977977
Q18-40	R	Thorium-232	Q18-40C-981808	NONE	482808.19	1351981	11/13/96	1.25	0.40		pCi/g	1.25	0.40	-	pCi/g	
Q18-40	R	Thorium-232	Q18-40C-986850	NONE	482850.57	1351986	11/13/96	1.39	0.59		pCi/g	1.39	0.59	-	pCi/g	
Q18-40	R	Thorium-232	Q18-40C-987728	NONE	482728.82	1351987	11/13/96	2.10	0.58		pCi/g	2.10	0.58	-	pCi/g	
Q19-10	R	Thorium-228	Q19-10C-403377	NONE	483377.36	1351404	11/22/96	1.30	0.15		pCi/g	1.30	0.15	-	pCi/g	
Q19-10	R	Thorium-228	Q19-10C-407286	NONE	483286.59	1351407	11/22/96	1.20	0.14		pCi/g	1.20	0.14	-	pCi/g	
Q19-10	R	Thorium-228	Q19-10C-424101	NONE	483101.78	1351425	11/22/96	1.20	0.15		pCi/g	1.20	0.15	-	pCi/g	
Q19-10	R	Thorium-228	Q19-10C-466170	NONE	483170.75	1351466	11/22/96	1.50	0.15		pCi/g	1.50	0.15	-	pCi/g	
Q19-10	R	Thorium-228	Q19-10C-640364	NONE	483136.22	1351598	11/13/96	1.07	0.46		pCi/g	1.07	0.47	-	pCi/g	
Q19-10	R	Thorium-228	Q19-10C-644025	NONE	483025.16	1351645	11/13/96	1.14	0.43		pCi/g	1.14	0.43	-	pCi/g	
Q19-10	R	Thorium-228	Q19-10C-655190	NONE	483053.25	1351511	11/13/96	0.93	0.46		pCi/g	0.93	0.46	-	pCi/g	
Q19-10	R	Thorium-228	Q19-10C-673281	NONE	483281.47	1351673	11/13/96	1.59	0.59		pCi/g	1.59	0.59	-	pCi/g	
Q19-10	R	Thorium-228	Q19-10C-683145	NONE	483145.55	1351684	11/13/96	1.41	0.54		pCi/g	1.41	0.54	-	pCi/g	
Q19-10	R	Thorium-228	Q19-10C-707234	NONE	483234.8	1351708	11/13/96	1.61	0.75		pCi/g	1.61	0.75	-	pCi/g	
Q19-10	R	Thorium-228	Q19-10C-755391	NONE	483391.51	1351756	11/13/96	1.72	0.60		pCi/g	1.72	0.60	-	pCi/g	
Q19-10	R	Thorium-228	Q19-10C-765036	NONE	483036.34	1351766	11/13/96	1.32	0.56		pCi/g	1.32	0.56	-	pCi/g	
Q19-10	R	Thorium-232	Q19-10C-403377	NONE	483377.36	1351404	11/22/96	1.30	0.15		pCi/g	1.30	0.15	-	pCi/g	
Q19-10	R	Thorium-232	Q19-10C-407286	NONE	483286.59	1351407	11/22/96	1.20	0.14		pCi/g	1.20	0.14	-	pCi/g	
Q19-10	R	Thorium-232	Q19-10C-424101	NONE	483101.78	1351425	11/22/96	1.20	0.15		pCi/g	1.20	0.15	-	pCi/g	
Q19-10	R	Thorium-232	Q19-10C-466170	NONE	483170.75	1351466	11/22/96	1.50	0.15		pCi/g	1.50	0.15	-	pCi/g	
Q19-10	R	Thorium-232	Q19-10C-640364	NONE	483136.22	1351598	11/13/96	1.11	0.52		pCi/g	1.11	0.52	-	pCi/g	
Q19-10	R	Thorium-232	Q19-10C-644025	NONE	483025.16	1351645	11/13/96	1.01	0.65		pCi/g	1.01	0.65	J	pCi/g	
Q19-10	R	Thorium-232	Q19-10C-655190	NONE	483053.25	1351511	11/13/96	0.83	0.46		pCi/g	0.83	0.46	J	pCi/g	
Q19-10	R	Thorium-232	Q19-10C-673281	NONE	483281.47	1351673	11/13/96	1.71	0.89		pCi/g	1.71	0.89	J	pCi/g	
Q19-10	R	Thorium-232	Q19-10C-683145	NONE	483145.55	1351684	11/13/96	1.68	0.59		pCi/g	1.68	0.59	-	pCi/g	
Q19-10	R	Thorium-232	Q19-10C-707234	NONE	483234.8	1351708	11/13/96	1.72	0.65		pCi/g	1.72	0.65	-	pCi/g	
Q19-10	R	Thorium-232	Q19-10C-755391	NONE	483391.51	1351756	11/13/96	1.86	0.71		pCi/g	1.86	0.71	-	pCi/g	

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								Laboratory Data				Validation Data				
CU Name	CU Type	Parameter	Sample ID	Suffix	Northing	Easting	Sample Date	Lab Result	TPU	Qualifier	Units	Val. Result	TPU	Qualifier	Units	Duplicate of
Q19-10	R	Thorium-232	Q19-10C-765036	NONE	483036.34	1351766	11/13/96	1.36	0.71		pCi/g	1.36	0.72	J	pCi/g	
Q19-10	R	Uranium-238	Q19-10C-403377	NONE	483377.36	1351404	11/22/96	1.20	0.48		pCi/g	1.20	0.48	J	pCi/g	
Q19-10	R	Uranium-238	Q19-10C-407286	NONE	483286.59	1351407	11/22/96	1.40	0.74		pCi/g	1.48	0.55	J	pCi/g	
Q19-10	R	Uranium-238	Q19-10C-424101	NONE	483101.78	1351425	11/22/96	1.10	0.44		pCi/g	1.15	0.44	J	pCi/g	
Q19-10	R	Uranium-238	Q19-10C-466170	NONE	483170.75	1351466	11/22/96	2.90	1.10		pCi/g	2.89	1.15	J	pCi/g	
Q19-20	R	Thorium-228	Q19-20C-817138	NONE	483138.23	1351817	11/5/96	1.10	0.18		pCi/g	1.09		-	pCi/g	
Q19-20	R	Thorium-228	Q19-20C-832024	NONE	483024.49	1351832	11/5/96	1.10	0.16		pCi/g	1.08	0.16	-	pCi/g	
Q19-20	R	Thorium-228	Q19-20C-853266	NONE	483266.81	1351853	11/5/96	1.30	0.18		pCi/g	1.27		-	pCi/g	
Q19-20	R	Thorium-228	Q19-20C-863173	NONE	483173.48	1351863	11/5/96	1.10	0.15		pCi/g	1.07		-	pCi/g	
Q19-20	R	Thorium-228	Q19-20C-890340	NONE	483340.54	1351890	11/5/96	1.20	0.18		pCi/g	1.19		-	pCi/g	
Q19-20	R	Thorium-228	Q19-20C-897327	NONE	483327.9	1351897	11/5/96	1.30	0.19		pCi/g	1.27		-	pCi/g	
Q19-20	R	Thorium-228	Q19-20C-927271	NONE	483271.51	1351927	11/5/96	1.20	0.18		pCi/g	1.20		-	pCi/g	
Q19-20	R	Thorium-228	Q19-20C-961179	NONE	483179.49	1351961	11/5/96	1.10	0.17		pCi/g	1.10		-	pCi/g	
Q19-20	R	Thorium-228	Q19-20C-967389	NONE	483389.08	1351968	11/5/96	1.20	0.18		pCi/g	1.22		-	pCi/g	
Q19-20	R	Thorium-228	Q19-20C-969016	NONE	483016.4	1351969	11/5/96	1.20	0.19		pCi/g	1.22		-	pCi/g	
Q19-20	R	Thorium-228	Q19-20C-995288	NONE	483288.32	1351995	11/5/96	1.20	0.11		pCi/g	1.17		-	pCi/g	
Q19-20	R	Thorium-228	Q19-20C-998104	NONE	483104.72	1351998	11/5/96	1.20	0.21		pCi/g	1.25		-	pCi/g	
Q19-20	R	Thorium-232	Q19-20C-817138	NONE	483138.23	1351817	11/5/96	1.10	0.18		pCi/g	1.07		-	pCi/g	
Q19-20	R	Thorium-232	Q19-20C-832024	NONE	483024.49	1351832	11/5/96	1.10	0.16		pCi/g	1.06		-	pCi/g	
Q19-20	R	Thorium-232	Q19-20C-853266	NONE	483266.81	1351853	11/5/96	1.20	0.18		pCi/g	1.25		-	pCi/g	
Q19-20	R	Thorium-232	Q19-20C-863173	NONE	483173.48	1351863	11/5/96	1.10	0.15		pCi/g	1.06		-	pCi/g	
Q19-20	R	Thorium-232	Q19-20C-890340	NONE	483340.54	1351890	11/5/96	1.20	0.18		pCi/g	1.18		-	pCi/g	
Q19-20	R	Thorium-232	Q19-20C-897327	NONE	483327.9	1351897	11/5/96	1.30	0.18		pCi/g	1.27		-	pCi/g	
Q19-20	R	Thorium-232	Q19-20C-927271	NONE	483271.51	1351927	11/5/96	1.20	0.17		pCi/g	1.18		-	pCi/g	
Q19-20	R	Thorium-232	Q19-20C-961179	NONE	483179.49	1351961	11/5/96	1.10	0.16		pCi/g	1.08		-	pCi/g	
Q19-20	R	Thorium-232	Q19-20C-967389	NONE	483389.08	1351968	11/5/96	1.20	0.18		pCi/g	1.21		-	pCi/g	
Q19-20	R	Thorium-232	Q19-20C-969016	NONE	483016.4	1351969	11/5/96	1.20	0.19		pCi/g	1.20		-	pCi/g	
Q19-20	R	Thorium-232	Q19-20C-995288	NONE	483288.32	1351995	11/5/96	1.20	0.11		pCi/g	1.15		-	pCi/g	
Q19-20	R	Thorium-232	Q19-20C-998104	NONE	483104.72	1351998	11/5/96	1.20	0.20		pCi/g	1.23		-	pCi/g	
Q19-30	R	Thorium-228	Q19-30C-434472	NONE	483472.43	1351435	11/4/96	1.10	0.10		pCi/g	1.12		-	pCi/g	
Q19-30	R	Thorium-228	Q19-30C-487610	NONE	483610.63	1351487	11/4/96	1.20	0.18		pCi/g	1.21	0.18	-	pCi/g	
Q19-30	R	Thorium-228	Q19-30C-552565	NONE	483565.18	1351552	11/4/96	1.20	0.18		pCi/g	1.24	0.18	-	pCi/g	
Q19-30	R	Thorium-228	Q19-30C-562718	NONE	483718	1351562	11/4/96	1.20	0.19		pCi/g	1.22	0.19	-	pCi/g	
Q19-30	R	Thorium-228	Q19-30C-570659	NONE	483659.25	1351570	11/4/96	1.10	0.18		pCi/g	1.13	0.18	-	pCi/g	
Q19-30	R	Thorium-228	Q19-30C-573492	NONE	483492.13	1351573	11/4/96	1.40	0.20		pCi/g	1.35	0.20	-	pCi/g	
Q19-30	R	Thorium-228	Q19-30C-602626	NONE	483626.44	1351602	11/4/96	1.20	0.10		pCi/g	1.18	0.10	-	pCi/g	
Q19-30	R	Thorium-228	Q19-30C-657409	NONE	483409.85	1351657	11/4/96	1.00	0.19		pCi/g	1.03	0.19	-	pCi/g	
Q19-30	R	Thorium-228	Q19-30C-695738	NONE	483738.78	1351696	11/4/96	1.20	0.17		pCi/g	1.20	0.17	-	pCi/g	
Q19-30	R	Thorium-228	Q19-30C-718516	NONE	483516	1351718	11/4/96	1.10	0.19		pCi/g	1.11	0.19	-	pCi/g	

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A1P1 CERTIFICATION REPORT - APPENDIX B-1 Non-Certification Data

								Laboratory Data				Validation Data					
CU Name	CU Type	Parameter	Sample ID	Suffix	Northing	Easting	Sample Date	Lab Result	TPU	Qualifier	Units	Val. Result	TPU	Qualifier	Units	Duplicate of
Q19-30	R	Thorium-228	Q19-30C-777429	NONE	483429.24	1351778	11/4/96	1.40	0.19		pCi/g	1.38	0.19	-	pCi/g	
Q19-30	R	Thorium-228	Q19-30C2-R-1	NONE	483647.15	1351704	3/13/97	1.10	0.16		pCi/g	1.13	0.16	-	pCi/g	
Q19-30	R	Thorium-228	Q19-30C2-R-2	NONE	483420.45	1351515	3/14/97	1.30	0.17		pCi/g	1.35	0.17	-	pCi/g	
Q19-30	R	Thorium-232	Q19-30C-434472	NONE	483472.43	1351435	11/4/96	1.10	0.10		pCi/g	1.10		-	pCi/g	
Q19-30	R	Thorium-232	Q19-30C-487610	NONE	483610.63	1351487	11/4/96	1.20	0.18		pCi/g	1.19		-	pCi/g	
Q19-30	R	Thorium-232	Q19-30C-552565	NONE	483565.18	1351552	11/4/96	1.20	0.18		pCi/g	1.22		-	pCi/g	
Q19-30	R	Thorium-232	Q19-30C-562718	NONE	483718	1351562	11/4/96	1.20	0.19		pCi/g	1.20		-	pCi/g	
Q19-30	R	Thorium-232	Q19-30C-570659	NONE	483659.25	1351570	11/4/96	1.10	0.18		pCi/g	1.12		-	pCi/g	
Q19-30	R	Thorium-232	Q19-30C-573492	NONE	483492.13	1351573	11/4/96	1.30	0.19		pCi/g	1.33		-	pCi/g	
Q19-30	R	Thorium-232	Q19-30C-602626	NONE	483626.44	1351602	11/4/96	1.20	0.10		pCi/g	1.16		-	pCi/g	
Q19-30	R	Thorium-232	Q19-30C-657409	NONE	483409.85	1351657	11/4/96	1.00	0.18		pCi/g	1.02		-	pCi/g	
Q19-30	R	Thorium-232	Q19-30C-695738	NONE	483738.78	1351696	11/4/96	1.20	0.17		pCi/g	1.18		-	pCi/g	
Q19-30	R	Thorium-232	Q19-30C-718516	NONE	483516	1351718	11/4/96	1.10	0.19		pCi/g	1.09		-	pCi/g	
Q19-30	R	Thorium-232	Q19-30C-777429	NONE	483429.24	1351778	11/4/96	1.40	0.19		pCi/g	1.36		-	pCi/g	
Q19-30	R	Thorium-232	Q19-30C2-R-1	NONE	483647.15	1351704	3/13/97	1.10	0.16		pCi/g	1.11	0.16	-	pCi/g	
Q19-30	R	Thorium-232	Q19-30C2-R-2	NONE	483420.45	1351515	3/14/97	1.30	0.17		pCi/g	1.31	0.17	-	pCi/g	
Q19-40	R	Thorium-228	Q19-40C-041550	NONE	483550.49	1352041	11/5/96	1.40	0.22		pCi/g	1.40		-	pCi/g	
Q19-40	R	Thorium-228	Q19-40C-079740	NONE	483740.76	1352079	11/5/96	1.30	0.19	U	pCi/g	1.28		-	pCi/g	
Q19-40	R	Thorium-228	Q19-40C-835755	NONE	483755.28	1351835	11/5/96	1.40	0.19		pCi/g	1.37		-	pCi/g	
Q19-40	R	Thorium-228	Q19-40C-849480	NONE	483480.62	1351850	11/4/96	1.20	0.20		pCi/g	1.18		-	pCi/g	
Q19-40	R	Thorium-228	Q19-40C-882465	NONE	483465.75	1351883	11/5/96	1.20	0.20		pCi/g	1.24		-	pCi/g	
Q19-40	R	Thorium-228	Q19-40C-882465-D	NONE	483465.75	1351883	11/5/96	1.30	0.19		pCi/g	1.32		-	pCi/g	Q19-40C-882465
Q19-40	R	Thorium-228	Q19-40C-904775	NONE	483775.23	1351904	11/5/96	1.40	0.22		pCi/g	1.39		-	pCi/g	
Q19-40	R	Thorium-228	Q19-40C-927651	NONE	483651.14	1351927	11/5/96	1.40	0.20		pCi/g	1.44		-	pCi/g	
Q19-40	R	Thorium-228	Q19-40C-999438	NONE	483438.51	1351999	11/5/96	1.20	0.11		pCi/g	1.23		-	pCi/g	
Q19-40	R	Thorium-228	Q19-40C2-R-1	NONE	483519.3	1351829	3/13/97	1.10	0.15		pCi/g	1.15	0.15	-	pCi/g	
Q19-40	R	Thorium-228	Q19-40C2-R-2	NONE	483787.05	1351820	3/13/97	1.30	0.19		pCi/g	1.34	0.19	-	pCi/g	
Q19-40	R	Thorium-228	Q19-40C2-R-3	NONE	483736.63	1351882	3/13/97	1.30	0.20		pCi/g	1.27	0.20	-	pCi/g	
Q19-40	R	Thorium-228	Q19-40C2-R-4	NONE	483667.96	1351827	3/13/97	1.20	0.18		pCi/g	1.20	0.18	-	pCi/g	
Q19-40	R	Thorium-228	Q19-40C2-R-5	NONE	483492.36	1352037	3/13/97	1.20	0.17		pCi/g	1.23	0.17	-	pCi/g	
Q19-40	R	Thorium-228	Q19-40C2-R-6	NONE	483601.89	1351869	3/13/97	1.40	0.19		pCi/g	1.35	0.19	-	pCi/g	
Q19-40	R	Thorium-232	Q19-40C-041550	NONE	483550.49	1352041	11/5/96	1.40	0.22		pCi/g	1.38		-	pCi/g	
Q19-40	R	Thorium-232	Q19-40C-079740	NONE	483740.76	1352079	11/5/96	1.30	0.19	U	pCi/g	1.26		-	pCi/g	
Q19-40	R	Thorium-232	Q19-40C-835755	NONE	483755.28	1351835	11/5/96	1.30	0.19		pCi/g	1.35		-	pCi/g	
Q19-40	R	Thorium-232	Q19-40C-849480	NONE	483480.62	1351850	11/4/96	1.20	0.19		pCi/g	1.16		-	pCi/g	
Q19-40	R	Thorium-232	Q19-40C-882465	NONE	483465.75	1351883	11/5/96	1.20	0.20		pCi/g	1.22		-	pCi/g	
Q19-40	R	Thorium-232	Q19-40C-882465-D	NONE	483465.75	1351883	11/5/96	1.30	0.18		pCi/g	1.30		-	pCi/g	Q19-40C-882465
Q19-40	R	Thorium-232	Q19-40C-904775	NONE	483775.23	1351904	11/5/96	1.40	0.22		pCi/g	1.37		-	pCi/g	
Q19-40	R	Thorium-232	Q19-40C-927651	NONE	483651.14	1351927	11/5/96	1.40	0.19		pCi/g	1.42		-	pCi/g	

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								Laboratory Data				Validation Data				
CU Name	CU Type	Parameter	Sample ID	Suffix	Northing	Easting	Sample Date	Lab Result	TPU	Qualifier	Units	Val. Result	TPU	Qualifier	Units	Duplicate of
Q19-40	R	Thorium-232	Q19-40C-999438	NONE	483438.51	1351999	11/5/96	1.20	0.11		pCi/g	1.21		-	pCi/g	
Q19-40	R	Thorium-232	Q19-40C2-R-1	NONE	483519.3	1351829	3/13/97	1.10	0.15		pCi/g	1.12	0.15	-	pCi/g	
Q19-40	R	Thorium-232	Q19-40C2-R-2	NONE	483787.05	1351820	3/13/97	1.30	0.18		pCi/g	1.31	0.18	-	pCi/g	
Q19-40	R	Thorium-232	Q19-40C2-R-3	NONE	483736.63	1351882	3/13/97	1.20	0.20		pCi/g	1.24	0.20	-	pCi/g	
Q19-40	R	Thorium-232	Q19-40C2-R-4	NONE	483667.96	1351827	3/13/97	1.20	0.17		pCi/g	1.17	0.17	-	pCi/g	
Q19-40	R	Thorium-232	Q19-40C2-R-5	NONE	483492.36	1352037	3/13/97	1.20	0.17		pCi/g	1.20	0.17	-	pCi/g	
Q19-40	R	Thorium-232	Q19-40C2-R-6	NONE	483601.89	1351869	3/13/97	1.30	0.19		pCi/g	1.32	0.19	-	pCi/g	
Q20-10	R	Thorium-228	Q20-10C-10-R	NONE	484036.27	1351563	2/19/97	1.20	0.16		pCi/g	1.22	0.16	-	pCi/g	
Q20-10	R	Thorium-228	Q20-10C-11-R	NONE	484014.16	1351640	2/19/97	1.30	0.17		pCi/g	1.25	0.17	-	pCi/g	
Q20-10	R	Thorium-228	Q20-10C-12-R	NONE	484076.79	1351720	2/19/97	1.20	0.18		pCi/g	1.20	0.18	-	pCi/g	
Q20-10	R	Thorium-228	Q20-10C-13-R	NONE	484144.70	1351403	2/24/97	1.50	0.24		pCi/g	1.50	0.24	-	pCi/g	
Q20-10	R	Thorium-228	Q20-10C-14-R	NONE	484146.61	1351593	2/19/97	1.50	0.20		pCi/g	1.45	0.20	-	pCi/g	
Q20-10	R	Thorium-228	Q20-10C-15-R	NONE	484168.6	1351652	2/19/97	0.69	0.12		pCi/g	0.69	0.12	-	pCi/g	
Q20-10	R	Thorium-228	Q20-10C-5-R	NONE	483961.61	1351494	2/24/97	1.40	0.19		pCi/g	1.40	0.19	-	pCi/g	
Q20-10	R	Thorium-228	Q20-10C-6-R	NONE	483972.02	1351517	2/19/97	1.20	0.18		pCi/g	1.22	0.18	-	pCi/g	
Q20-10	R	Thorium-228	Q20-10C-8-R	NONE	484001.11	1351668	2/25/97	1.20	0.14		pCi/g	1.24	0.14	-	pCi/g	
Q20-10	R	Thorium-228	Q20-10C-8-R-D	NONE	484001.11	1351668	2/25/97	1.30	0.14		pCi/g	1.26	0.14	-	pCi/g	Q20-10C-8-R
Q20-10	R	Thorium-228	Q20-10C-9-R	NONE	484053.04	1351453	2/24/97	1.30	0.19		pCi/g	1.30	0.19	-	pCi/g	
Q20-10	R	Thorium-228	Q20-10C2-R-1	NONE	484169.26	1351703	3/14/97	1.40	0.16		pCi/g	1.41	0.16	J	pCi/g	
Q20-10	R	Thorium-228	Q20-10C2-R-1-D	NONE	484169.26	1351703	3/14/97	1.30	0.15		pCi/g	1.31	0.15	J	pCi/g	Q20-10C2-R-1
Q20-10	R	Thorium-228	Q20-10C2-R-2	NONE	484174.48	1351435	3/14/97	1.50	0.20		pCi/g	1.51	0.20	J	pCi/g	
Q20-10	R	Thorium-228	Q20-10C2-R-3	NONE	484051.03	1351521	3/14/97	1.40	0.16		pCi/g	1.38	0.16	J	pCi/g	
Q20-10	R	Thorium-228	Q20-10C2-R-4	NONE	483899.77	1351505	3/14/97	1.60	0.17		pCi/g	1.58	0.17	J	pCi/g	
Q20-10	R	Thorium-232	Q20-10C-10-R	NONE	484036.27	1351563	2/19/97	1.20	0.16		pCi/g	1.20	0.16	-	pCi/g	
Q20-10	R	Thorium-232	Q20-10C-11-R	NONE	484014.16	1351640	2/19/97	1.20	0.17		pCi/g	1.23	0.17	-	pCi/g	
Q20-10	R	Thorium-232	Q20-10C-12-R	NONE	484076.79	1351720	2/19/97	1.20	0.18		pCi/g	1.19	0.18	-	pCi/g	
Q20-10	R	Thorium-232	Q20-10C-13-R	NONE	484144.70	1351403	2/24/97	1.50	0.23		pCi/g	1.50	0.23	-	pCi/g	
Q20-10	R	Thorium-232	Q20-10C-14-R	NONE	484146.61	1351593	2/19/97	1.40	0.20		pCi/g	1.43	0.20	-	pCi/g	
Q20-10	R	Thorium-232	Q20-10C-15-R	NONE	484168.6	1351652	2/19/97	0.68	0.12		pCi/g	0.68	0.12	-	pCi/g	
Q20-10	R	Thorium-232	Q20-10C-5-R	NONE	483961.61	1351494	2/24/97	1.30	0.19		pCi/g	1.30	0.18	-	pCi/g	
Q20-10	R	Thorium-232	Q20-10C-6-R	NONE	483972.02	1351517	2/19/97	1.20	0.18		pCi/g	1.21	0.17	-	pCi/g	
Q20-10	R	Thorium-232	Q20-10C-8-R	NONE	484001.11	1351668	2/25/97	1.20	0.14		pCi/g	1.24	0.14	-	pCi/g	
Q20-10	R	Thorium-232	Q20-10C-8-R-D	NONE	484001.11	1351668	2/25/97	1.30	0.14		pCi/g	1.26	0.14	-	pCi/g	Q20-10C-8-R
Q20-10	R	Thorium-232	Q20-10C-9-R	NONE	484053.04	1351453	2/24/97	1.20	0.19		pCi/g	1.20	0.19	-	pCi/g	
Q20-10	R	Thorium-232	Q20-10C2-R-1	NONE	484169.26	1351703	3/14/97	1.40	0.16		pCi/g	1.41	0.16	J	pCi/g	
Q20-10	R	Thorium-232	Q20-10C2-R-1-D	NONE	484169.26	1351703	3/14/97	1.30	0.15		pCi/g	1.31	0.15	J	pCi/g	Q20-10C2-R-1
Q20-10	R	Thorium-232	Q20-10C2-R-2	NONE	484174.48	1351435	3/14/97	1.50	0.20		pCi/g	1.51	0.20	J	pCi/g	
Q20-10	R	Thorium-232	Q20-10C2-R-3	NONE	484051.03	1351521	3/14/97	1.40	0.16		pCi/g	1.38	0.16	J	pCi/g	
Q20-10	R	Thorium-232	Q20-10C2-R-4	NONE	483899.77	1351505	3/14/97	1.60	0.17		pCi/g	1.58	0.17	J	pCi/g	

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							Laboratory Data				Validation Data				
CU Name	CU Type	Parameter	Sample ID	Suffix	Northing	Easting	Sample Date	Lab Result	TPU	Qualifier	Units	Val. Result	TPU	Qualifier	Units	Duplicate of
Q20-10	R	Uranium-238	Q20-10C-8-R	NONE	484001.11	1351668	2/25/97	5.50	0.02		pCi/g	5.47	2.01	J	pCi/g	
Q20-10	R	Uranium-238	Q20-10C-8-R-D	NONE	484001.11	1351668	2/25/97	5.20	1.90		pCi/g	5.20	1.89	J	pCi/g	Q20-10C-8-R
Q20-20	R	Thorium-228	Q20-10C-714896	NONE	483896.67	1351714	11/4/96	1.40	0.25		pCi/g	1.40	0.25	-	pCi/g	
Q20-20	R	Thorium-228	Q20-20C-008111	NONE	484111.78	1352008	2/10/97	1.30	0.20		pCi/g	1.30	0.20	-	pCi/g	
Q20-20	R	Thorium-228	Q20-20C-064950	NONE	483950	1352064	11/4/96	1.30	0.20		pCi/g	1.34		-	pCi/g	
Q20-20	R	Thorium-228	Q20-20C-074915	NONE	483915.45	1352074	11/4/96	1.10	0.18		pCi/g	1.09		-	pCi/g	
Q20-20	R	Thorium-228	Q20-20C-815917	NONE	483917.37	1351815	11/4/96	1.30	0.18		pCi/g	1.30		-	pCi/g	
Q20-20	R	Thorium-228	Q20-20C-847132	NONE	484132.55	1351847	2/10/97	1.20	0.16		pCi/g	1.20	0.16	-	pCi/g	
Q20-20	R	Thorium-228	Q20-20C-859980	NONE	483980	1351859	11/4/96	0.97	0.15		pCi/g	0.97		-	pCi/g	
Q20-20	R	Thorium-228	Q20-20C-875821	NONE	483821.87	1351875	11/4/96	1.10	0.10		pCi/g	1.10		-	pCi/g	
Q20-20	R	Thorium-228	Q20-20C-902959	NONE	483960.02	1351902	11/4/96	1.30	0.19		pCi/g	1.32		-	pCi/g	
Q20-20	R	Thorium-228	Q20-20C-947192	NONE	484192.75	1351948	2/10/97	1.30	0.19		pCi/g	1.30	0.18	-	pCi/g	
Q20-20	R	Thorium-228	Q20-20C2-R-1	NONE	484186	1352079	3/24/97	1.30	0.18		pCi/g	1.32	0.18	-	pCi/g	
Q20-20	R	Thorium-228	Q20-20C2-R-2	NONE	484061	1352069	3/24/97	0.96	0.13		pCi/g	0.96	0.13	-	pCi/g	
Q20-20	R	Thorium-228	Q20-20C2-R-3	NONE	483837	1351676	3/24/97	1.70	0.22		pCi/g	1.68	0.22	-	pCi/g	
Q20-20	R	Thorium-232	Q20-10C-714896	NONE	483896.67	1351714	11/4/96	1.20	0.22		pCi/g	1.20	0.22	-	pCi/g	
Q20-20	R	Thorium-232	Q20-20C-008111	NONE	484111.78	1352008	2/10/97	1.30	0.20		pCi/g	1.30	0.20	-	pCi/g	
Q20-20	R	Thorium-232	Q20-20C-064950	NONE	483950	1352064	11/4/96	1.30	0.20		pCi/g	1.33		-	pCi/g	
Q20-20	R	Thorium-232	Q20-20C-074915	NONE	483915.45	1352074	11/4/96	1.10	0.17		pCi/g	1.08		-	pCi/g	
Q20-20	R	Thorium-232	Q20-20C-815917	NONE	483917.37	1351815	11/4/96	1.30	0.18		pCi/g	1.28		-	pCi/g	
Q20-20	R	Thorium-232	Q20-20C-847132	NONE	484132.55	1351847	2/10/97	1.20	0.16		pCi/g	1.20	0.16	-	pCi/g	
Q20-20	R	Thorium-232	Q20-20C-859980	NONE	483980	1351859	11/4/96	0.96	0.15		pCi/g	0.96		-	pCi/g	
Q20-20	R	Thorium-232	Q20-20C-875821	NONE	483821.87	1351875	11/4/96	1.10	0.10		pCi/g	1.08		-	pCi/g	
Q20-20	R	Thorium-232	Q20-20C-902959	NONE	483960.02	1351902	11/4/96	1.30	0.19		pCi/g	1.30		-	pCi/g	
Q20-20	R	Thorium-232	Q20-20C-947192	NONE	484192.75	1351948	2/10/97	1.30	0.18		pCi/g	1.30	0.18	-	pCi/g	
Q20-20	R	Thorium-232	Q20-20C2-R-1	NONE	484186	1352079	3/24/97	1.30	0.18		pCi/g	1.32	0.18	-	pCi/g	
Q20-20	R	Thorium-232	Q20-20C2-R-2	NONE	484061	1352069	3/24/97	0.96	0.13		pCi/g	0.96	0.13	-	pCi/g	
Q20-20	R	Thorium-232	Q20-20C2-R-3	NONE	483837	1351676	3/24/97	1.70	0.22		pCi/g	1.68	0.22	-	pCi/g	
Q20-30	R	Thorium-228	Q20-30C-1-R	NONE	484205.76	1351149	2/25/97	0.91	0.12		pCi/g	0.91	0.12	J	pCi/g	
Q20-30	R	Thorium-228	Q20-30C-1-R-D	NONE	484205.76	1351149	2/25/97	1.40	0.15		pCi/g	1.41	0.15	J	pCi/g	Q20-30C-1-R
Q20-30	R	Thorium-228	Q20-30C-10-R	NONE	484253	1351776	2/25/97	1.20	0.17		pCi/g	1.19	0.17	-	pCi/g	
Q20-30	R	Thorium-228	Q20-30C-11-R	NONE	484340	1351477	2/25/97	1.30	0.14		pCi/g	1.31	0.14	J	pCi/g	
Q20-30	R	Thorium-228	Q20-30C-12-R	NONE	484324	1351574	2/25/97	1.30	0.21		pCi/g	1.31	0.21	-	pCi/g	
Q20-30	R	Thorium-228	Q20-30C-13-R	NONE	484369	1351799	2/25/97	0.95	0.15		pCi/g	0.95	0.15	-	pCi/g	
Q20-30	R	Thorium-228	Q20-30C-14-R	NONE	484400	1351640	2/25/97	1.10	0.16		pCi/g	1.11	0.16	-	pCi/g	
Q20-30	R	Thorium-228	Q20-30C-15-R	NONE	484369	1351714	2/25/97	1.20	0.18		pCi/g	1.24	0.18	-	pCi/g	
Q20-30	R	Thorium-228	Q20-30C-3-R	NONE	484221	1351252	2/25/97	1.20	0.14		pCi/g	1.22	0.14	-	pCi/g	
Q20-30	R	Thorium-228	Q20-30C-4-R	NONE	484210	1351333	2/25/97	1.20	0.08		pCi/g	1.21	0.13	-	pCi/g	
Q20-30	R	Thorium-228	Q20-30C-5-R	NONE	484247	1351560	2/25/97	1.30	0.15		pCi/g	1.31	0.15	-	pCi/g	

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A1P1 CERTIFICATION REPORT - APPENDIX B-1 Non-Certification Data

								Laboratory Data				Validation Data				
CU Name	CU Type	Parameter	Sample ID	Suffix	Northing	Easting	Sample Date	Lab Result	TPU	Qualifier	Units	Val. Result	TPU	Qualifier	Units	Duplicate of
Q20-30	R	Thorium-228	Q20-30C-8-R	NONE	484302	1351484	2/25/97	1.00	0.11		pCi/g	1.01	0.11	-	pCi/g	
Q20-30	R	Thorium-228	Q20-30C-9-R	NONE	484272	1351569	2/25/97	1.30	0.19		pCi/g	1.30	0.19	-	pCi/g	
Q20-30	R	Thorium-228	Q20-40C-1-R	NONE	484232	1351820	2/25/97	1.60	0.16		pCi/g	1.60	0.16	-	pCi/g	
Q20-30	R	Thorium-228	Q20-40C-10-R	NONE	484437	1351927	2/25/97	1.25	0.14		pCi/g	1.25	0.14	-	pCi/g	
Q20-30	R	Thorium-228	Q20-40C-10-R-D	NONE	484437	1351927	2/25/97	1.30	0.15		pCi/g	1.30	0.15	-	pCi/g	Q20-40C-10-R
Q20-30	R	Thorium-228	Q20-40C-13-R	NONE	484457	1351873	2/25/97	1.30	0.15		pCi/g	1.30	0.15	-	pCi/g	
Q20-30	R	Thorium-228	Q20-40C-14-R	NONE	484532	1351970	2/25/97	1.25	0.14		pCi/g	1.25	0.14	-	pCi/g	
Q20-30	R	Thorium-228	Q20-40C-9-R	NONE	484398	1351857	2/25/97	1.60	0.17		pCi/g	1.60	0.17	-	pCi/g	
Q20-30	R	Thorium-232	Q20-30C-1-R	NONE	484205.76	1351149	2/25/97	0.91	0.12		pCi/g	0.91	0.12	J	pCi/g	
Q20-30	R	Thorium-232	Q20-30C-1-R-D	NONE	484205.76	1351149	2/25/97	1.40	0.15		pCi/g	1.41	0.15	J	pCi/g	Q20-30C-1-R
Q20-30	R	Thorium-232	Q20-30C-10-R	NONE	484253	1351776	2/25/97	1.20	0.17		pCi/g	1.16	0.17	-	pCi/g	
Q20-30	R	Thorium-232	Q20-30C-11-R	NONE	484340	1351477	2/25/97	1.30	0.14		pCi/g	1.31	0.14	J	pCi/g	
Q20-30	R	Thorium-232	Q20-30C-12-R	NONE	484324	1351574	2/25/97	1.30	0.20		pCi/g	1.28	0.20	-	pCi/g	
Q20-30	R	Thorium-232	Q20-30C-13-R	NONE	484369	1351799	2/25/97	0.92	0.15		pCi/g	0.92	0.15	-	pCi/g	
Q20-30	R	Thorium-232	Q20-30C-14-R	NONE	484400	1351640	2/25/97	1.10	0.16		pCi/g	1.08	0.16	-	pCi/g	
Q20-30	R	Thorium-232	Q20-30C-15-R	NONE	484369	1351714	2/25/97	1.20	0.18		pCi/g	1.21	0.18	-	pCi/g	
Q20-30	R	Thorium-232	Q20-30C-3-R	NONE	484221	1351252	2/25/97	1.20	0.14		pCi/g	1.22	0.14	-	pCi/g	
Q20-30	R	Thorium-232	Q20-30C-4-R	NONE	484210	1351333	2/25/97	1.20	0.08		pCi/g	1.21	0.13	-	pCi/g	
Q20-30	R	Thorium-232	Q20-30C-5-R	NONE	484247	1351560	2/25/97	1.30	0.15		pCi/g	1.31	0.15	-	pCi/g	
Q20-30	R	Thorium-232	Q20-30C-8-R	NONE	484302	1351484	2/25/97	1.00	0.11		pCi/g	1.01	0.11	-	pCi/g	
Q20-30	R	Thorium-232	Q20-30C-9-R	NONE	484272	1351569	2/25/97	1.30	0.19		pCi/g	1.26	0.19	-	pCi/g	
Q20-30	R	Thorium-232	Q20-40C-1-R	NONE	484232	1351820	2/25/97	1.60	0.16		pCi/g	1.60	0.16	-	pCi/g	
Q20-30	R	Thorium-232	Q20-40C-10-R	NONE	484437	1351927	2/25/97	1.25	0.14		pCi/g	1.25	0.14	-	pCi/g	
Q20-30	R	Thorium-232	Q20-40C-10-R-D	NONE	484437	1351927	2/25/97	1.30	0.15		pCi/g	1.30	0.15	-	pCi/g	Q20-40C-10-R
Q20-30	R	Thorium-232	Q20-40C-13-R	NONE	484457	1351873	2/25/97	1.30	0.15		pCi/g	1.30	0.15	-	pCi/g	
Q20-30	R	Thorium-232	Q20-40C-14-R	NONE	484532	1351970	2/25/97	1.25	0.14		pCi/g	1.25	0.14	-	pCi/g	
Q20-30	R	Thorium-232	Q20-40C-9-R	NONE	484398	1351857	2/25/97	1.60	0.17		pCi/g	1.60	0.17	-	pCi/g	
Q20-30	R	Uranium-238	Q20-30C-1-R	NONE	484205.76	1351149	2/25/97	4.50	1.90		pCi/g	4.54	1.86	J	pCi/g	
Q20-30	R	Uranium-238	Q20-30C-1-R-D	NONE	484205.76	1351149	2/25/97	4.80	0.52		pCi/g	4.84	1.95	J	pCi/g	Q20-30C-1-R
Q20-30	R	Uranium-238	Q20-30C-11-R	NONE	484340	1351477	2/25/97	3.50	1.50		pCi/g	3.55	1.45	-	pCi/g	
Q20-30	R	Uranium-238	Q20-30C-3-R	NONE	484221	1351252	2/25/97	5.40	2.00		pCi/g	5.39	1.95	-	pCi/g	
Q20-30	R	Uranium-238	Q20-30C-4-R	NONE	484210	1351333	2/25/97	6.00	2.20		pCi/g	5.97	2.17	-	pCi/g	
Q20-30	R	Uranium-238	Q20-30C-5-R	NONE	484247	1351560	2/25/97	5.40	2.00		pCi/g	5.37	1.95	-	pCi/g	
Q20-30	R	Uranium-238	Q20-30C-8-R	NONE	484302	1351484	2/25/97	5.40	1.90		pCi/g	5.43	1.89	-	pCi/g	
Q20-30	R	Uranium-238	Q20-40C-1-R	NONE	484232	1351820	2/25/97	5.10	2.00		pCi/g	5.10	2.00	-	pCi/g	
Q20-30	R	Uranium-238	Q20-40C-10-R	NONE	484437	1351927	2/25/97	4.70	1.70		pCi/g	4.70	1.70	-	pCi/g	
Q20-30	R	Uranium-238	Q20-40C-10-R-D	NONE	484437	1351927	2/25/97	4.30	1.60		pCi/g	4.30	1.60	-	pCi/g	Q20-40C-10-R
Q20-30	R	Uranium-238	Q20-40C-13-R	NONE	484457	1351873	2/25/97	4.40	1.90		pCi/g	4.40	1.90	-	pCi/g	
Q20-30	R	Uranium-238	Q20-40C-14-R	NONE	484532	1351970	2/25/97	3.00	1.10		pCi/g	3.00	1.10	-	pCi/g	
Q20-30	R	Uranium-238	Q20-40C-9-R	NONE	484398	1351857	2/25/97	4.50	1.70		pCi/g	4.50	1.70	-	pCi/g	

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A1P1 CERTIFICATION REPORT - APPENDIX B-1 Non-Certification Data

							Laboratory Data				Validation Data				
CU Name	CU Type	Parameter	Sample ID	Suffix	Northing	Easting	Sample Date	Lab Result	TPU	Qualifier	Units	Val. Result	TPU	Qualifier	Units	Duplicate of
Q20-40	R	Thorium-228	Q20-40C-11-R	NONE	484423	1352049	2/25/97	1.20	0.14		pCi/g	1.20	0.14	-	pCi/g	
Q20-40	R	Thorium-228	Q20-40C-12-R	NONE	484453	1352091	2/25/97	0.89	0.10		pCi/g	0.89	0.10	-	pCi/g	
Q20-40	R	Thorium-228	Q20-40C-2-R	NONE	484260	1351930	2/25/97	1.10	0.13		pCi/g	1.10	0.13	-	pCi/g	
Q20-40	R	Thorium-228	Q20-40C-4-R	NONE	484219	1352061	2/25/97	1.50	0.16		pCi/g	1.50	0.16	-	pCi/g	
Q20-40	R	Thorium-228	Q20-40C-7-R	NONE	484347	1352038	2/25/97	1.30	0.15		pCi/g	1.30	0.15	J	pCi/g	
Q20-40	R	Thorium-228	Q20-40C2-11-R	NONE	484371	1352087	3/4/97	1.60	0.18		pCi/g	1.62	0.18	J	pCi/g	
Q20-40	R	Thorium-228	Q20-40C2-12-R	NONE	484341	1352111	3/4/97	1.60	0.17		pCi/g	1.58	0.17	J	pCi/g	
Q20-40	R	Thorium-228	Q20-40C2-12-R-D	NONE	484341	1352111	3/4/97	1.40	0.15		pCi/g	1.35	0.15	J	pCi/g	Q20-40C2-12-R
Q20-40	R	Thorium-228	Q20-40C2-15-RV	NONE	484490	1352124	3/4/97	1.00	0.13		pCi/g	1.04	0.13	J	pCi/g	
Q20-40	R	Thorium-228	Q20-40C2-16-R	NONE	484525	1352127	3/4/97	1.30	0.15		pCi/g	1.26	0.15	J	pCi/g	
Q20-40	R	Thorium-228	Q20-40C2-2-R	NONE	484230	1351945	3/4/97	1.50	0.16		pCi/g	1.02	0.12	Z	pCi/g	
Q20-40	R	Thorium-228	Q20-40C2-2-R	RE	484230	1351945	3/4/97	1.02	0.12		pCi/g	1.02	0.12	Z	pCi/g	
Q20-40	R	Thorium-228	Q20-40C2-3-R	NONE	484266	1351990	3/4/97	1.30	0.15		pCi/g	1.26	0.15	J	pCi/g	
Q20-40	R	Thorium-228	Q20-40C2-6-R	NONE	484220	1352096	3/4/97	1.50	0.16		pCi/g	1.48	0.16	J	pCi/g	
Q20-40	R	Thorium-228	Q20-40C2-7-RV	NONE	484241	1352108	3/4/97	1.10	0.14		pCi/g	1.13	0.14	J	pCi/g	
Q20-40	R	Thorium-228	Q20-40C2-8-R	NONE	484314	1351975	3/4/97	1.20	0.14		pCi/g	1.21	0.14	J	pCi/g	
Q20-40	R	Thorium-232	Q20-40C-11-R	NONE	484423	1352049	2/25/97	1.20	0.14		pCi/g	1.20	0.14	-	pCi/g	
Q20-40	R	Thorium-232	Q20-40C-12-R	NONE	484453	1352091	2/25/97	0.89	0.10		pCi/g	0.89	0.10	-	pCi/g	
Q20-40	R	Thorium-232	Q20-40C-2-R	NONE	484260	1351930	2/25/97	1.10	0.13		pCi/g	1.10	0.13	-	pCi/g	
Q20-40	R	Thorium-232	Q20-40C-4-R	NONE	484219	1352061	2/25/97	1.50	0.16		pCi/g	1.50	0.16	-	pCi/g	
Q20-40	R	Thorium-232	Q20-40C-7-R	NONE	484347	1352038	2/25/97	1.30	0.15		pCi/g	1.30	0.15	J	pCi/g	
Q20-40	R	Thorium-232	Q20-40C2-11-R	NONE	484371	1352087	3/4/97	1.60	0.18		pCi/g	1.62	0.18	J	pCi/g	
Q20-40	R	Thorium-232	Q20-40C2-12-R	NONE	484341	1352111	3/4/97	1.60	0.17		pCi/g	1.58	0.17	J	pCi/g	
Q20-40	R	Thorium-232	Q20-40C2-12-R-D	NONE	484341	1352111	3/4/97	1.40	0.15		pCi/g	1.35	0.15	J	pCi/g	Q20-40C2-12-R
Q20-40	R	Thorium-232	Q20-40C2-15-RV	NONE	484490	1352124	3/4/97	1.00	0.13		pCi/g	1.04	0.13	J	pCi/g	
Q20-40	R	Thorium-232	Q20-40C2-16-R	NONE	484525	1352127	3/4/97	1.30	0.15		pCi/g	1.26	0.15	J	pCi/g	
Q20-40	R	Thorium-232	Q20-40C2-2-R	NONE	484230	1351945	3/4/97	1.50	0.16		pCi/g	1.02	0.12	Z	pCi/g	
Q20-40	R	Thorium-232	Q20-40C2-2-R	RE	484230	1351945	3/4/97	1.02	0.12		pCi/g	1.02	0.12	Z	pCi/g	
Q20-40	R	Thorium-232	Q20-40C2-3-R	NONE	484266	1351990	3/4/97	1.30	0.15		pCi/g	1.26	0.15	J	pCi/g	
Q20-40	R	Thorium-232	Q20-40C2-6-R	NONE	484220	1352096	3/4/97	1.50	0.16		pCi/g	1.48	0.16	J	pCi/g	
Q20-40	R	Thorium-232	Q20-40C2-7-RV	NONE	484241	1352108	3/4/97	1.10	0.14		pCi/g	1.13	0.14	J	pCi/g	
Q20-40	R	Thorium-232	Q20-40C2-8-R	NONE	484314	1351975	3/4/97	1.20	0.14		pCi/g	1.21	0.14	J	pCi/g	
Q20-40	R	Uranium-238	Q20-40C-11-R	NONE	484423	1352049	2/25/97	4.20	1.60		pCi/g	4.20	1.60	-	pCi/g	
Q20-40	R	Uranium-238	Q20-40C-12-R	NONE	484453	1352091	2/25/97	4.50	2.00		pCi/g	4.50	2.00	-	pCi/g	
Q20-40	R	Uranium-238	Q20-40C-2-R	NONE	484260	1351930	2/25/97	4.00	1.40		pCi/g	4.00	1.40	-	pCi/g	
Q20-40	R	Uranium-238	Q20-40C-4-R	NONE	484219	1352061	2/25/97	3.10	1.20		pCi/g	3.10	1.20	-	pCi/g	
Q20-40	R	Uranium-238	Q20-40C-7-R	NONE	484347	1352038	2/25/97	4.40	1.60		pCi/g	4.40	1.60	-	pCi/g	
Q20-40	R	Uranium-238	Q20-40C2-11-R	NONE	484371	1352087	3/4/97	4.50	1.60		pCi/g	4.48	1.65	-	pCi/g	
Q20-40	R	Uranium-238	Q20-40C2-12-R	NONE	484341	1352111	3/4/97	4.40	1.60		pCi/g	4.35	1.59	-	pCi/g	

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A1P1 CERTIFICATION REPORT - APPENDIX B-1 Non-Certification Data

							Laboratory Data				Validation Data				
CU Name	CU Type	Parameter	Sample ID	Suffix	Northing	Easting	Sample Date	Lab Result	TPU	Qualifier	Units	Val. Result	TPU	Qualifier	Units	Duplicate of
Q20-40	R	Uranium-238	Q20-40C2-12-R-D	NONE	484341	1352111	3/4/97	4.30	1.60		pCi/g	4.31	1.62	-	pCi/g	Q20-40C2-12-R
Q20-40	R	Uranium-238	Q20-40C2-15-RV	NONE	484490	1352124	3/4/97	6.20	2.20		pCi/g	6.21	2.25	J	pCi/g	
Q20-40	R	Uranium-238	Q20-40C2-16-R	NONE	484525	1352127	3/4/97	3.50	1.30		pCi/g	3.46	1.28	J	pCi/g	
Q20-40	R	Uranium-238	Q20-40C2-2-R	NONE	484230	1351945	3/4/97	5.00	1.80		pCi/g	4.96	1.83	-	pCi/g	
Q20-40	R	Uranium-238	Q20-40C2-3-R	NONE	484266	1351990	3/4/97	3.70	1.30		pCi/g	3.66	1.32	J	pCi/g	
Q20-40	R	Uranium-238	Q20-40C2-6-R	NONE	484220	1352096	3/4/97	2.00	0.70		pCi/g	1.99	0.70	-	pCi/g	
Q20-40	R	Uranium-238	Q20-40C2-7-RV	NONE	484241	1352108	3/4/97	4.80	1.70		pCi/g	4.82	1.67	J	pCi/g	
Q20-40	R	Uranium-238	Q20-40C2-8-R	NONE	484314	1351975	3/4/97	3.40	1.20		pCi/g	3.42	1.25	-	pCi/g	

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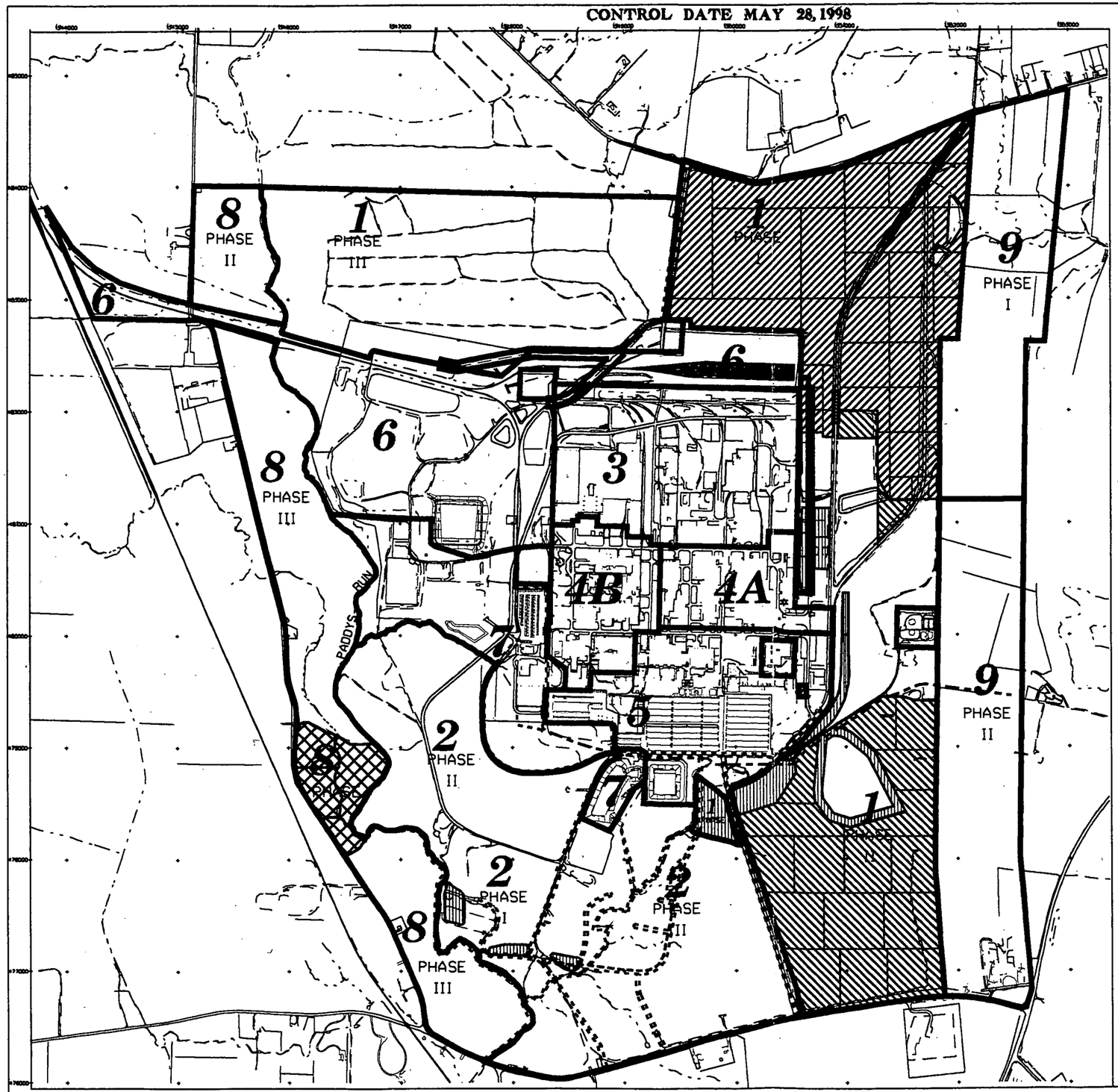
Attachment A

ATTACHMENT A

Certified and Characterized for Reuse Areas, May 28, 1998

CONTROL DATE MAY 28, 1998



LEGEND:

- A1P[I CERTIFIED AREAS (PENDING AGENCY APPROVAL)
- CHARACTERIZATION FOR REUSE AREAS
- AREAS EXCLUDED FROM A1P[
- A1P] CERTIFIED AREAS (PENDING AGENCY APPROVAL)
- A8P] AREAS (CERTIFICATION SAMPLES COLLECTED)

SCALE
600 300 0 600 FEET

DRAFT

STATE PLANAR COORDINATE SYSTEM 1985 27-MAY-1998

ATTACHMENT A. CERTIFIED AND CHARACTERIZED FOR REUSE AREAS

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A

ATTACHMENT B

Response to USEPA and OEPA Comments on the
A1PI Certification Report

RESPONSES TO US EPA COMMENTS ON AREA 1 PHASE I CERTIFICATION REPORT FERNALD ENVIRONMENTAL MANAGEMENT PROJECT

GENERAL COMMENTS

Commenting Organization: U.S. EPA Commentor: Saric
Section #: Not Applicable (NA) Page #: NA Line #: NA
Original General Comment #: 1

Comment: The certification report concludes that analytical results for most of the tested certification units (CU) are within the limits specified as final remediation levels (FRL). The only exception to this conclusion involves discrepancies between the results of the thorium-232 analyses by alpha spectrometry and those by gamma spectrometry, which are discussed in more detail in Original Specific Comment 2. Analytical results for eight CUs are greater than the FRL by gamma spectrometry but less than the FRL by alpha spectrometry. Acceptance of these results as being within the FRLs should be deferred until this alpha and gamma spectrometry methodological issue is resolved in the letter report discussed on Line 4 of Page 4-3.

Response:

Agreed. The draft Area 1 Phase I (A1PI) Certification Report acknowledged the discrepancy between the alpha spectrometry and gamma spectrometry results and proposed submitting a letter report to the United States Environmental Protection Agency (U.S. EPA) to clarify and resolve the discrepancies. Since the submittal of the A1PI Certification Report on July 1, 1997 to the EPA, a much better understanding of the reasons for the discrepancies has been gained. Furthermore, through the Real-Time Work Group Meetings, numerous discussions between FEMP representatives and representatives from the U.S. EPA and the Ohio Environmental Protection Agency (OEPA) have been held on gamma spectrometry methodology to better standardize the spectrometry process and to more accurately determine thorium-232 concentrations. These discussions have lead to a much better understanding of the reasons for the discrepancies as well as the path forward to help prevent or eliminate such discrepancies in the future. The discussion below provides the reasons for the discrepancies and the steps or procedures which have been put in place to resolve the discrepancies in the future. This discussion is intended to replace the letter report proposed in the draft certification report.

There was a discrepancy between the alpha and gamma spectrometry results presented in the A1PI Certification Report because the alpha spectrometry results for thorium-232 were, on average, statistically lower than their corresponding gamma spectrometry results. As a result, in some of the certification units (CUs), this statistically significant difference meant some of the CUs failed certification by gamma spectrometry but not by alpha spectrometry. These thorium-232-based analytical discrepancies occurred in eight CUs: (1) Q18-40, (2) Q19-10, (3) P18-40, (4) P20-30, (5) P17-22, (6) P17-32, (7) O19, and (8) O20. Following discussions with the EPA and evaluation of the conflicting A1PI certification results (alpha versus gamma discrepancies, gamma spectrometry results higher than alpha spectrometry results; and inter-

laboratory variability and bias between gamma spectrometry results), the EPA agreed to the DOE's recommendation to only report the alpha spectrometry results in the revised A1PI certification report.

The factors which caused varying degrees of alpha versus gamma discrepancies are as follows:

(1) The analysis of A1PI certification samples via two different analytical methods: alpha spectrometry and gamma spectrometry. Different analytical methods will, even under the best circumstances, produce different results.

(2) The laboratory analyses of the A1PI certification samples were conducted at three different off-site laboratories (EPI, Acculabs, and Thermo-Nutech or TNU). Confirmatory analyses were also performed at the FEMP laboratory. Given the same analytical method and procedure, different laboratories will often achieve different results.

(3) The small relative difference between the final remediation level (FRL) in soil and the FEMP background concentration for thorium-232 in soil. The FRL is 1.5 picocuries (pCi) per gram of soil; while, the 95th percentile of the background concentration for thorium-232 at the FEMP is 1.36.

(4) An analytical bias and lack of standardization in the gamma spectrometry method used to determine the thorium-232 concentrations. Each of the A1PI certification laboratories (outlined in item one above) utilized a biased and different method of evaluating the spectra and determining the thorium-232 concentrations.

Certification sampling results from Area 1, Phase II (A1PII) indicate that the primary contributors to these discrepancies (which lead to the false failure of the eight CUs in A1PI by gamma spectrometry) were an analytical bias and a high variability in the gamma spectrometry methodology. The high variability resulted from a lack of standardization in the gamma spectrometry methodology among the three commercial laboratories. Through the Real-Time Work Group discussions, a refined gamma spectrometry methodology for thorium-232 was established which standardized the process that the commercial laboratories would be required to follow. Through these Real-Time Work Group Meetings, it was established that the preferred thorium-232 gamma spectrometry analysis procedure should consist of using four energy lines, namely those from actinium-228, thallium-208, and lead-212, and performing an error-weighted analysis to determine the thorium-232 concentration (described in the DOE Letter, from Johnny Reising to James Saric and Tom Schneider, dated November 20, 1997).

The lack of standardization in the gamma spectrometry methodology created an inter-laboratory variability in gamma spectrometry results. Each laboratory selected a different photon energy peak from the thorium-232 daughter products to measure the thorium-232 concentration (sometimes only one photon peak was utilized other times multiple peaks were used). In some cases, a high gamma spectrometry bias was also introduced. From reviewing the A1PI certification results, the FEMP was able to determine that the high gamma spectrometry bias was partially due to the spectrometrist using only a single gamma energy line to determine the

concentration of thorium-232 (there is a significant difference between using a error weighted average and using a single gamma photon energy because an error weighted approach reduces variability). This created a high relative bias between gamma spectrometry analyses. Separate and additional variability and bias can occur between the comparison of gamma spectrometry and alpha spectrometry. In general, alpha spectrometry tends to produce lower values than gamma spectrometry.

Action:

In order to help ensure that similar discrepancies do not occur in the future, the FEMP has instituted the following actions:

(1) Utilize a single analytical procedure for determining thorium-232 concentrations to be used in making certification decisions. As stated in the draft final Sitewide Excavation Plan (April, 1998), the preferred thorium-232 analytical approach is gamma spectrometry, coupled with a standardization of the thorium-232 spectrometry methodology, using the EPA approved spectrometry approach.

(2) Develop and routinely use a FEMP reference standard to reduce analytical data variability. A large volume of FEMP soils was obtained, homogenized, and is being characterized and certified by DOE's Environmental Measurements Laboratory (DOE-EML) for use as a check standard. Once the DOE-EML's certification procedure is complete aliquots of the standard will be sent to commercial laboratories under contract by the FEMP for use as a check quality control standard to determine the acceptability of analytical certification data. The tight control limits developed for these DOE-EML "certified" soils will be required to be met by any commercial laboratory performing the certification analyses. The routine use of the check standard should help to reduce analytical variability.

(3) The alpha spectrometry data will be utilized for certification determination in the A1PI Certification Report as previously submitted, and the corresponding gamma spectrometry results will be included in Appendix B for reference. The commitment for the white paper report regarding the alpha/gamma spectrometry issue will be removed from the A1PI Certification Report.

Commenting Organization: U.S. EPA | Commentor: Saric
Section #: 5 | Page #: NA | Line #: NA
Original General Comment #: 2

Comment: The report provides certification data for 78 separate CUs. The report should contain one figure showing all of Area 1 and the CU layout. Moreover, the report should contain figures showing CU configuration changes over the course of the Area 1 Phase 1 (A1PI) project and figures illustrating changes in CU data point locations.

Response:

Figures 2-2, 2-3, and 2-4 in the A1PI Certification Report present the locations and dimensions of the Radiological CUs, Metal (inorganic) CUs and PCB CUs respectively. Due to the discrepant dimensions of the CUs for the three ASCOC suites in A1PI, overlaying all of the CUs on a single map is confusing and results in a figure that is not useful.

Changes within CUs were made for reasons specified in Table 2-4 in the A1PI Certification Report. The configuration of these CUs were changed "from" the original CU maps that appeared in the A1PI Workplan Certification Sampling PSP submitted in December 1996. In this original A1PI CU map the CUs were assigned as rectangular "blocks" based on spatial analysis of the existing data and production knowledge only. This initial configuration did not consider engineering limits, stockpiles, and other physical restrictions that were incorporated by necessity later. The "before" maps of the analytical suite CU boundaries are presented in a map included in the A1PI Certification PSP. Figures that show interim CU and data point location changes do not exist. The maps of final CU dimensions and configurations (i.e., Figures 2-2, 2-3, and 2-4) are presented in the A1PI Certification Report. The final locations for each CU are shown in the CU maps included in Appendix A. The changes made to the CU design are detailed in Table 2-4 in the A1PI Certification Report.

Action:

Original maps of all four suites of CUs, including primary radiological, secondary radiological, inorganic (metals), and PCBs from the A1PI Workplan Certification Sampling PSP, will be included in the revised report (Figures 2-5, 2-6, 2-7 and 2-8). Comparison can then be made to the current A1PI CU maps included in the A1PI Certification Report. The descriptions of changes made and the reasons for those changes included in Table 2-4 will be revised with any additional available information. Additional explanatory text has been included in Section 2.3.

The figure included as Attachment A has been developed to depict the current certified and characterized for reuse areas. This figure also includes the current remediation Areas 1 through 10. This figure is controlled by the Soil Characterization and Excavation Project (SCEP) and will be updated regularly. Additionally, a current revision of this figure will be included in each certification design letter that is submitted to the regulatory agencies for review and approval.

Commenting Organization: U.S. EPA | Commentor: Saric
Section #: Appendix A | Page #: All | Line #: Total Uranium
Original General Comment #: 3
Comment: The total uranium data provided in the tables have been rounded to tenths for all data sets in Appendix A. For example, the summary table for CU P17-22 states that the concentration of total uranium detected in sample P17-22C2-R-1-D is 5.8 micrograms per gram (μg/g). This value was rounded up; the actual value is 5.75 μg/g. The data provided in the tables for the other primary area-specific constituents of concern (ASCOC) have not been rounded. The data sets should be consistently presented. Therefore, the data tables should be revised to include all un-rounded values.

Response:
Uranium values were rounded because many of the total uranium values in the SED are calculated from isotopic values and have excessive decimal places. Numbers in the presentation tables were presented only for demonstration purposes and were rounded to comply with the significant figures needed for comparison to the FRL. The values were carried to at least one significant figure beyond the FRL requirements. In the statistics spreadsheet, the full values are retained and calculations were performed with those values. DOE feels the manner in which the data are presented in the A1PI Certification Report is sufficient for the intended purposes. There was no intent for utilization of the data contained in these tables to duplicate the statistical calculations.

Action:
Appendix A and Appendix B have been revised; the data are presented consistently.

Commenting Organization: U.S. EPA | Commentor: Saric
Section #: Appendix A-C | Page #: All | Line #: All
Original General Comment #: 4
Comment: The tables appear to have numerous errors, including missing data, incorrect values (0.01 to 0.3 concentration variations from the correct values), and unsupported data. The missing data include a value for total uranium in sample O20HS-1-R-13 (see Original Specific Comment 20). Incorrect data entries were noted in Appendix A in the data tables for the primary ASCOCs (see Original Specific Comment 21). The unsupported data include the data summaries for cesium-137 and thorium-230 (see Original Specific Comment 18). The data tables should be checked and revised to report all data accurately.

Response:
Comment acknowledged. For radiological parameters, analytical results are usually entered to three decimal places (0.000); the displayed result in Appendices A and B is to two places (0.00). In instances where the third decimal is a 5, Appendix A truncated the number and Appendix B rounded the number, which explains many of the noted discrepancies in the Appendices. For statistical calculations, the entire number was used so statistics are unaffected.

Action:

Tables found to be in error were corrected and reprinted, including the O20 hot spot data. Data that were missing from tables, including data representing the secondary radiological ASCOCs cesium-137 and thorium-230, were added to Appendix B.

Commenting Organization: U.S. EPA Commentor: Saric
Section #: Appendix F Page #: All Line #: NA
Original General Comment #: 5
Comment: Appendix F contains on-site disposal cell sediment basin certification results. However, no data summary tables, figures, or other supporting documentation is provided for these results. Supporting documentation such as data summary tables or figures should be provided.

Response:

Agreed. The five OSDF sediment basin CUs were subjected to characterization for reuse to establish the ability to reuse soil excavated below a certified depth during construction for "clean fill." These soils were used as the primary source of the clay materials used to line basins in A2PI. Final remediation and certification of this sediment basin will take place after the basin is no longer needed to support OSDF construction.

Action:

In the revised A1PI Certification Report, Appendix F will be deleted; however, tables and figures will be developed presenting the certification analytical results from the OSDF Sediment Basins in the same manner as the other A1PI CUs.

SPECIFIC COMMENTS

Commenting Organization: U.S. EPA Commentor: Saric
Section #: 3 Page #: Table 3-1 Line #: NA
Original Specific Comment #: 1
Comment: The text states that "the volumes for the A1PI sediment traps do not include soil in the berms." It is important to document the source of the soil used to construct the berms in order to reduce the potential for recontamination of the area. A figure should be provided to show the locations of the berms, and the text should be revised to identify the source of the soil used to construct the berms.

Response:

There are three sediment traps located within A1PI. They are referred to as A1PIST-1, A1PIST-2, and A1PIST-3. The material that was used to construct the berms for all three originated from the excavation of the sediment traps prior to remedial excavation and certification. Sediment trap CU A1P1ST-1 was certified in-place to reduce impact on the OSDF construction schedule. The berm materials in A1PIST-1 were considered impacted. Certification sampling and analysis testing was conducted on the native soils beneath the berm materials for all ASCOCs. The results passed certification analysis and the analytical results are

included in the A1PI Certification Report. A1PIST-1 was excavated during construction of OSDF Cell 1. The berm materials were placed in the East Impacted Material Stockpile.

As part of the Area 1 Phase II work scope, the remaining two sediment trap CUs, A1PIST-2 and A1PIST-3 (including the berm materials), will be sampled for certification. Following certification, the sediment traps will be graded for wetland mitigation.

Action:

A description of the origins of the berm material will be incorporated into Section 3.5. Figure 3-4, showing exact locations of the remaining sediment trap berms, will be provided. Prior to certification sampling and analysis, a certification design letter (CDL) for A1P1ST-2 and A1P1ST-3 will be submitted to the regulatory agencies for review and approval. A separate design package for the grading and restoration of these two sediment traps will be issued to the regulatory agencies for review and approval as part of the wetland mitigation effort.

Commenting Organization: U.S. EPA Commentor: Saric
Section #: 4.1.2 Page #: 4-3 Line #: 14
Original Specific Comment #: 2
Comment: The text indicates that the results for thorium-232 analyses of the certification samples by gamma spectrometry generally exceed the alpha spectrometry results for the same radionuclide in the same samples. This difference in analytical results can affect the decision as to whether certain CUs exceed the FRL for thorium-232. The proposed use of soil-specific radiological standards as calibration standards or check standards will be useful in addressing this problem. However, one useful principle is not discussed in the text, namely not making unnecessary assumptions. In this context, the analytical method involving fewer calculations and underlying assumptions with regard to the raw counting data and the final (reported) activity result would be the better method unless compelling reasons exist to accept the additional complications of the alternate method. This principle should be considered in resolving the methodological discrepancy.

Response:

Please see response to Original General Comment #1.

Action:

Please see action to Original General Comment #1.

Commenting Organization: U.S. EPA | Commentor: Saric
Section #: 5.3.4 | Page #: 5-4 | Line #: 33
Original Specific Comment #: 3

Comment: The text states that "the 0-6 inch interval across the entire P17-32 CU was excavated." However, Figure 5-8 does not support this statement. According to the pre-excavation and post -excavation elevations presented in the figure, several data points indicate that less than 6 inches of soil was removed, which is not acceptable. The text should be revised to address this issue.

Response:

CU P17-32 failed after initial excavation for arsenic contamination on initial certification sampling and analysis. As a corrective action, "in situ" certification samples at several intervals were obtained with the Geoprobe at specified depths and analyzed for arsenic. The .5 to 1.0 feet increment was found to be below the arsenic FRL and the commitment was made to remove .5 feet (assuming top down contamination) to achieve certification with no further sampling. Figure 5-8 included in the document contained pre and post-excavation elevations that did not support the removal of .5 feet of soil at all locations in the CU, without further explanation.

Prior to corrective action excavation of .5 feet from CU P17-32, a pre-excavation survey was conducted at 30 survey control points. Unfortunately, the CU was regraded immediately after excavation of the .5 feet and prior to conducting the post-excavation control survey. Calculations of removed soil volume were conducted using the data presented in Figure 5-8. Differences between pre- and post-excavation survey elevations were summed and averaged. The average soil depth removed across the CU was calculated at .869 feet compared to the commitment of .5 feet. If .5 feet (6") was excavated from across the CU approximately 394 cubic yards of soil would be generated. Approximately 704 cubic yards were actually generated in the excavation process (based on the .869 feet average excavation depth). In summary, even after post excavation re-grading, 9 of the 30 locations that were used as survey control points showed less than .5 feet of excavation, 21 of the 30 exhibited greater or equal to .5 feet, and 15 of the 30 exhibited over 1.0 feet of excavation. Therefore, the commitment to remove 6" of soil across CU P17-32 was exceeded by approximately 70%.

Action:

Text will be added in Section 5.3.4 on page 5-5 to describe Figure 5-8 and the corrective action performed in CU P17-32 in more detail.

Commenting Organization: U.S. EPA Commentor: Saric
Section #: 5.3.5 Page #: 5-5 Line #: 19
Original Specific Comment #: 4

Comment: The text discusses an original certification sample collected in CU O20 that exceeded the "2 x FRL" criterion for radium-228 (indicating a "hot spot"). This sample was collected from the northernmost border of the Fernald Environmental Management Project (FEMP). The extent of radium-228 contamination has not been defined to the north of this location. The text should be revised to present plans to properly delineate the extent of radium-228 contamination to the north of CU O20.

Response:

The basis of the comment is erroneous. There were two separate issues in CU O20. The first was a "hot spot" failure for total uranium. One of the certification samples (certification sample number 8 on the northwest boundary) came back at 205 ppm for total uranium. The FRL for total uranium is 82 ppm in this area, so this sample point was considered a "hot spot" by the criteria of 2xFRL. A corrective action plan was carried out, and this total uranium hot spot was successfully removed. Removal of the total uranium hot spot was bounded with a sample point to the north. Details of this removal and associated data are provided in the report in Section 5.3.5, Page 5-5.

An FRL failure for radium 228 was also noted in CU O20 based on the original certification data. There was no hot spot for radium 228 because no single sample exceeded 2xFRL of 1.8 pCi/g. The highest single value was 2.46 pCi/g. The CU failed the certification criteria for radium 228 due to the high data variability for this ASCOC. Seven additional random samples were obtained to supplement the existing 12 samples, and the UCL on the mean met the FRL when the additional sample data were integrated.

Additional samples will be collected north of CU O20 during the Area 9, Phase I off-property certification process.

Action:

The content of the above response will be incorporated into Section 5.3.5 of the revised A1PI Certification Report.

Commenting Organization: U.S. EPA Commentor: Saric
Section #: 5.3.5 Page #: 5-5 Line #: 14
Original Specific Comment #: 5
Comment: The text describes the intervals used for collection of samples for radium-228 analyses. It is critical to precisely determine the depths of the contamination present in this CU in order to ensure that adequate corrective action has been taken. The soil placed in the sample jars should have been representative of the soil contamination at a particular depth. The sampling depth may have been interpreted imprecisely if total recovery did not occur during sampling. The text should be revised to provide recovery or other data supporting the sampling interval designations.

Response:
Comment Acknowledged. When collecting Geoprobe® cores, the cores are measured to determine the amount of the sample interval recovered. Generally, if a total recovery is not achieved, this fact is noted in the field log, and the operator will collect a parallel core so a total recovery is realized. Field logs for the Geoprobe® core samples obtained during the radium-228 corrective action in CU O-20 have been reviewed for entries indicating less than total recoveries. As a result of reviewing field logs generated during the corrective action in CU O20, there was no indication that Geoprobe® cores collected during this sampling event had less than complete recoveries.

Action:
No Action.

Commenting Organization: U.S. EPA Commentor: Saric
Section #: 5.3.5 Page #: 5-5 Line #: 30
Original Specific Comment #: 6
Comment: The text states that confirmatory samples were collected from the area of the CU O20 hot spot, and the total uranium analytical results are provided. It is important to determine whether the contamination in this area was adequately evaluated and delineated. Illustration of the total uranium results on a figure would assist in this determination. Therefore, the analytical results should be illustrated in Figure *TBD*.

Response:
Comment acknowledged.

Action:
Figure 5-13 shows the sample locations for the confirmation samples in the CU O20 area after excavation. Uranium sample results were added to Figure 5-13 and the revised figure is provided.

Commenting Organization: U.S. EPA Commentor: Saric
Section #: 5 Page #: Tables 5-6 and 5-7 Line #: NA
Original Specific Comment #: 7
Comment: The tables provide post-corrective action radium-226 concentrations and their corresponding depth intervals for CUs Q18-40A and Q18-40B. Many of these concentrations increase with depth at the sampling locations. The data appear to indicate another source aside from air dispersion that contributed to the radium-226 contamination in this area. The text should be revised to address this issue.

Response:

Q18-40 failed on the first certification effort for radium-226 only. The elevated levels were confined to the southern half of this CU, so the CU was divided into Q18-40 A (north) and Q18-40 B (south). A corrective action plan was carried out and Q18-40B was excavated and recertified while Q18-40A was recertified with no excavation. Serial sequential sampling was conducted on Q18-40B and samples were analyzed to select the correct interval to certify. The following table summarizes the radium-226 data presented on Tables 5-6 and 5-7.

CU	Interval	Number of Samples	Mean Ra-226 Concentration
Q18-40A	0-6 inches	12	1.28 pCi/g
Q18-40A	6-12 inches	12	1.43 pCi/g
Q18-40B	6-12 inches	12	1.43 pCi/g
Q18-40B	12-18 inches	12	1.33 pCi/g

Review of the average concentrations does show a slight increase at depth for CU Q18-40A, but a decrease for CU Q18-40B. For the background data set, the 95th percentile for radium-226 is 1.42 pCi/g. The concentrations measured in these CUs are all within the background levels and the analytical uncertainties. Therefore these data do not bring into question that the radium-226 contamination came from another source than air deposition.

Action:

This explanation will be incorporated into Section 5.3.3 of the revision of the A1PI Certification Report.

Commenting Organization: U.S. EPA Commentor: Saric
Section #: 5 Page #: Table 5-9 Line #: NA
Original Specific Comment #: 8
Comment: The text below the table states that the location where the original certification sample with a total uranium concentration of 205.4 milligrams per kilogram (mg/kg) was collected is identified as sample point 1. This designation does not correspond with the designation of the hot spot sampling location depicted in Figure 5-9. The text or figure should be revised to resolve this apparent discrepancy.

Response:
Figures 5-9 and 5-13 incorrectly demonstrate the hotspot sample location within CU O20.

Action:
Figure 5-9 and 5-13 will be corrected. Table 5-9 is correct and needs no revision.

Commenting Organization: U.S. EPA Commentor: Saric
Section #: 5 Page #: Table 5-9 Line #: NA
Original Specific Comment #: 9
Comment: The table summarizes the depth increments analyzed for each of the sampling locations in CU O20. Apparently only a portion of the sampling locations were extended to include 18 inches of sampling interval. The text should be revised to provide the rationale for the sampling strategy used.

Response:
Comment Acknowledged. Additional description of the sampling strategy is required.

Action:
The following text will be added to Section 5.3.5, Page 5-5 of the A1PI Certification Report to summarize the sampling strategy.

..... The existing analytical and HPGe data obtained in CU O20 was kriged to illustrate the lateral and vertical extent of the total uranium contamination at the identified hot spot and immediate surroundings . Based on this kriging, sample points in O20 were selected to bound the surface and subsurface extent of total uranium in the area of potential influence around the hot spot. The model indicated a surface contamination condition (i.e., a greater area of probable total uranium contamination present in the surface soil layer). Several strategic sample points close to the hot spot were chosen to gain adequate surface and subsurface delineation data to design the corrective action excavation. Additional sample points were selected away from the hot spot to collect surface data to further bound the extent of surface contamination. The combined data points are shown in Figure 5-9.....

Commenting Organization: U.S. EPA Commentor: Saric
Section #: 5 Page #: Table 5-10 Line #: NA
Original Specific Comment #: 10
Comment: The text provides sample numbers designated as "original" 1 through 12 and "new" 1 through 7. This sample numbering scheme is confusing and may cause improper data interpretation. The sample numbers should be revised to 1 through 19. This sample numbering scheme should also be used in Figure 5-14.

Response:
Comment acknowledged.

Action:
The sample location numbers in Table 5-10 and Figure 5-14 will be changed to match those listed in Appendix A, CU O20 Radium-228 Map of Data Points.

Commenting Organization: U.S. EPA Commentor: Saric
Section #: 5 Page #: Table 5-11 Line #: NA
Original Specific Comment #: 11
Comment: The table states that sample NAR-4-8C-(X) corresponds with the 15- to 21-inch sampling interval and that sample NAR-4-8C2-(X) corresponds with the 38- to 42-inch sampling interval. In Figure 5-15, however, the opposite is shown. Either the table or figure should be revised for accuracy.

Response:
Comment acknowledged. Table 5-11 is incorrect and will be changed to reflect the correct depth for the two samples. Figure 5-15 is correct as it appears in the document.

Action:
Table 5-11 will be corrected.

Commenting Organization: U.S. EPA Commentor: Saric
Section #: 5 Page #: Table 5-11 Line #: NA
Original Specific Comment #: 12
Comment: The table does not include a line for sample NAR-4-15C-(X) and its corresponding depth interval. The table should be revised to include this information.

Response:
Comment acknowledged.

Action:
The depth interval for sample NAR-15C-(X) is 70 - 74 inches. This information will be added to Table 5-11.

Commenting Organization: U.S. EPA Commentor: Saric
Section #: 5 Page #: Figure 5-7 Line #: NA
Original Specific Comment #: 13
Comment: This figure identifies the random sampling points in CU P17-32. However, sampling location 17 is not shown in the figure. The figure should be revised to include sampling location 17.

Response:
Table 5-8 is incorrect, 17 samples but only 16 locations exist, one location was sampled twice (one for duplicate). Figure 5-7 needs no revision.

Action:
Table 5-8 will be revised to remove Location #17.

Commenting Organization: U.S. EPA Commentor: Saric
Section #: 5 Page #: Figure 5-8 Line #: NA
Original Specific Comment #: 14
Comment: The figure provides the pre-excavation and post-excavation elevations for CU P17-32. However, the elevation information shown for the central, eastern border of the CU does not include a post-excavation elevation. The figure should be revised to include the post-excavation elevation for this location.

Response:
Comment acknowledged. The referenced elevation value on the eastern boundary of CU P17-32 was on the very edge of the 6" excavation and was not excavated itself. For this reason, the point retains the same value for both pre-excavation and post-excavation.

Action:
No Action.

Commenting Organization: U.S. EPA Commentor: Saric
Section #: 5 Page #: Figure 5-9 Line #: NA
Original Specific Comment #: 15
Comment: The figure shows the sampling locations in CU O20 selected to support hot spot removal. However, the figure does not include sampling location 2. The figure should be revised to show this sampling location. In addition, the figure should include a reference to the original hot spot sample number.

Response:
Comment acknowledged.

Action:
Figure 5-9 will be corrected with sample location #2 labeled and the hot spot sample location properly referenced as sample location #1.

Commenting Organization: U.S. EPA Commentor: Saric
Section #:5 Page #: Figures 5-10, 5-11, 5-12, and 5-13 Line #: NA
Original Specific Comment #: 16
Comment: The figures provide the total uranium concentrations for separate sampling depth intervals and the hot spot excavation depths for CU O20. The figures are currently somewhat unclear. To clarify the figures, they should be revised to show all the sampling locations and their corresponding numbers.

Response:
Comment acknowledged.

Action:
Figures 5-10 through 5-13 will be revised to show all of the sample locations and sample numbers.

Commenting Organization: U.S. EPA Commentor: Saric
Section #: Appendix A Page #: Data Tables Line #: NA
Original Specific Comment #: 17
Comment: The data tables in Appendix A present the concentrations of contaminants of concern detected at the site. However, no units of measure are listed in the tables. The tables should be revised to include the units of measure for each of the concentrations listed.

Response:
Comment acknowledged.

Action:
The tables were revised to include units.

Commenting Organization: U.S. EPA Commentor: Saric
Section #: Appendix A Page #: Data Tables Line #: NA
Original Specific Comment #: 18
Comment: The data tables in Appendix A include data summaries for samples analyzed for cesium-137 and thorium-230. Appendixes B and C do not provide such summaries for CU N19. The document should include supporting data for all the tables in Appendix A.

Response:
Comment acknowledged.

Action:
Appendices were reviewed and missing data are included in revised tables in Appendix A.

Commenting Organization: U.S. EPA Commentor: Saric
Section #: Appendix A Page #: 020 Primary Rad Map Line#: NA
Original Specific Comment #: 19
Comment: The figure labels the new and original data points sequentially from 1 through 19. These labels do not correlate with Figure 5-14, where the data points are labeled as original sampling points 1 through 12 and new sampling points 1 through 7. The figures should label the data points identically.

Response:
Comment acknowledged.

Action:
The sample location numbers in Table 5-10 and Figure 5-14 will be revised to match those listed in Appendix A, CU O20 Radium-228 Map of Data Points.

Commenting Organization: U.S. EPA Commentor: Saric
Section #: Appendix A Page #:Data Table CUO20 Line #: NA
Original Specific Comment #: 20
Comment: The data table for CU O20 summarizes the total uranium data. This table omits a value for total uranium in sample O20HS-1-R-13. The table should be revised to include this information.

Response:
Comment is not clear as written.

Action:
The Total Uranium result for sample O20-HS-1-R-13 in the Appendix A data table is listed as 12.81. The formatting of this table may be confusing and will be revised.

Commenting Organization: U.S. EPA Commentor: Saric
Section #: Appendix A Page #: Data Tables Line #: NA
Original Specific Comment #: 21
Comment: These data tables are not entirely consistent with the data summaries in Appendix B. For example, the table for CU P17-22 indicates that radium-226 was measured at 2.66 picocuries per gram (pCi/g) and radium-228 was measured at 2.61 pCi/g in sample P17-22C2-R-2. However, the data summaries indicate that the concentrations of radium-226 and radium-228 in sample P17-22C2-R-2 were 1.33 and 1.31 pCi/g, respectively. The data tables in Appendix A and data summaries in Appendix B should be compared, and all such inconsistencies should be resolved.

Response:
Comment acknowledged.

Action:
For the example given, a re-analysis was performed on the sample. The "old" value was not given a " Z" qualifier which would automatically discount it from being considered. Because of this, the two values were inadvertently added together when the new value was pulled up. The statistics were generated using the correct numbers, so no error was carried over into the statistical evaluation. The data tables of Appendix A and Appendix B were carefully reviewed for other errors. Errors were corrected and the affected tables reprinted. The data table for CU P17-22 will also be corrected and reprinted.

Commenting Organization: U.S. EPA Commentor: Saric
Section #: Appendix A Page #: Q19-30 Primary Rad Map Line #:NA
Original Specific Comment #: 22
Comment: Sampling location 5 is not depicted in the figure. The figure should be revised to show this data point.

Response:
Comment acknowledged.
Action:
The CU Q19-30 Primary Rad Map was corrected and reprinted with sampling location #5 indicated.

Commenting Organization: U.S. EPA Commentor: Saric
Section #: Appendix A Page #: A1P1ST-1 Metals Map Line #: NA
Original Specific Comment #: 23
Comment: The figure contains an unlabeled data point. The figure should be revised to label this data point.

Response:
Comment acknowledged. The unlabeled data point in the A1PIST-1 Metals Map does not represent a sampling location.

Action:
This figure was corrected and reprinted with the unlabeled data point excluded.

Commenting Organization: U.S. EPA Commentor: Saric
Section #: Appendix A Page #: NEAR-1 Metals Map Line #: NA
Original Specific Comment #: 24
Comment: The figure contains a data point with two location numbers, 14 and 16. The figure should be revised to display only the single, discrete label for this point.

Response:
Comment acknowledged. The data point labeled 14 and 16 in the NAR-1 Metals Map actually refers to sampling location 14.

Action:
This figure was revised and reprinted with the data point correctly numbered.

Commenting Organization: U.S. EPA Commentor: Saric
Section #: Appendix A Page #: NEAR-1 PCBs Map Line #: NA
Original Specific Comment #: 25
Comment: The figure contains a data point with two location numbers, 14 and 16. The figure should be revised to display only the single, discrete label for this point.

Response:
Comment acknowledged. The data point labeled 14 and 16 in the NAR-1 PCB Map actually refers to sampling location 14.

Action:
The figure was corrected and map reprinted with this data point correctly numbered.

RESPONSES TO OHIO EPA COMMENTS ON THE AREA 1 PHASE I CERTIFICATION REPORT

Commenting Organization: OEPA
Commentor:
Section #: Not Applicable (NA) Page #: NA Line #: NA
Original Comment #: 1

Comment: The Ohio EPA will not concur that an area is certified prior to the work actually being completed. Specifically, excavations in the areas of the North Access Road and the adjacent ditches are deferred to the future. The Ohio EPA does not intend to certify areas as remediated until all activities have been completed.

Response:

Comment acknowledged. DOE agrees that CUs NAR 1-6 can not be considered certified until the specified road material, fill material, and uncertified soil have been excavated and disposed of appropriately. The six CUs comprising the Old North Access Road (NAR) and ditches in A1PI (certification units NAR 1-6) were certified "in place" by taking waste acceptance criteria (WAC) and certification samples at depth and analyzing them as per previous agreement reached with the Regulatory Agencies. No WAC or certification sample result obtained when sampling these certification units (CUs) was at or above the FRLs for ASCOCs. To remove artificial or imported media that can not be certified, a level of excavation into native material residing beneath the road fill is specified. When this road and fill material in CUs NAR 1-6 is excavated to the specified depth, certification of these CUs will be considered complete. However, due to construction demands, completing excavation of the NAR CUs will be a phased process dictated by the OSDF construction schedule.

A northern section of approximately 350 feet of the NAR between the intersection of the new NAR and the northern perimeter of the OSDF has been left intact to provide support for OSDF construction. This unexcavated northern section of roadway must be kept intact until OSDF construction is completed. Beginning at coordinate N 483445, E 1351342 approximately 1,300 feet of the NAR within the OSDF footprint (cells 1, 2 and half of cell 3) has been excavated to or beyond the specified certification depth. This excavated zone currently terminates at coordinates N 482175, E 1350928 which is approximately 250 feet north of the southern extreme of the A1PI NAR CUs. The southern (250') and northern (350') sections of the old NAR will not be considered certified until the artificial or imported materials have been excavated.

The remaining southern 250 foot section of certified in place old NAR will be excavated during July 1998 to accommodate the construction of the OSDF Cell 2 compacted clay liner. A separate certification letter report for the southern section of the road will be submitted to the regulatory agencies after excavation to certification depth. The northern section of the old NAR will be transferred to Area 10, Corridors. Both the southern and northern sections will no longer be considered a portion of Area 1, Phase I and consequently will not be included in the Area 1, Phase I Certification Report.

The roadway south of A1PI has not been subjected to certification and WAC attainment sampling and will be addressed in the workscope detailed in the Certification Design Letter (CDL) for Area 1 Phase II, Sector 2. After in place certification and WAC attainment are

completed, the remaining sections of the old NAR will be excavated sequentially to accommodate the construction of OSDF Cells 4, 5, 6, 7, and 8.

Action:

The A1PI Certification Report figures will be revised to depict the status of the remaining sections of the certified in place old NAR. Also, Figures 3-5 and 3-6 illustrate the depth of excavation that has been achieved in the excavated portions of the NAR. The report will also include a schedule for the removal of the southern 250 foot section of the A1PI NAR CUs. The southern and northern sections of the A1PI NAR CUs will be removed from the A1PI Certification Report. These sections will be certified when excavated to the specified depth of certification sampling. A separate certification letter report for the southern section will be submitted to the regulatory agencies. The northern section will be addressed in Area 10, Corridors. Text has been included in Section 3.6 of the revised A1PI Certification Report to explain this action.

Commenting Organization: OEPA Commentor:
Section #: 1 Page #: 1-2 Line #: 9
Original Comment #: 2

Comment: Figure 1-2 is not sufficiently illustrative to delineate areas that have been excavated from areas that have not been excavated. Figure 1-2 appears to have been lifted straight out of the OU5 RI/ FS. Replace this figure with a figure showing the CUs, the areas excavated, and the areas where excavation was not performed.

Response:

Comment acknowledged. OEPA is correct in their observation that Figure 1-2 in the A1PI Certification Report is based on an overlay of the proposed soil excavation footprint using RI/FS data. This figure has a misleading title and instead of "A1PI Excavation Footprint" should be titled "Preliminary Sitewide Soil Excavation Footprint Based On RI/FS Characterization Data." Figure 3-1, titled "Excavation Limits of A1PI," shows the actual boundaries that were excavated as a result of A1PI remediation.

Action:

The title of Figure 1-2 will be corrected in the revised report to "Preliminary Sitewide Soil Excavation Footprint Based On RI/FS Characterization Data."

Commenting Organization: OEPA Commentor:
Section #: 1 Page #: Figure 1-1 Line #: NA
Original Comment #: 3

Comment: This figure (Figure 1-1) should be revised to show the new Remediation Area 8 west of Paddy's Run Creek.

Response:

Agreed. Figure 1-1, titled "General Remediation Areas 1 through 7," was accurate at the time this document was prepared. Subsequently, General Remediation Areas 8, 9, and 10 have been

added to account for the area between Paddy's Run and the west boundary of the site, the off-property area adjacent to the east boundary of the site, and the areas of the site that contain the Advanced Wastewater Treatment Facility and Long-Term Corridors, respectively.

Action:

General Remediation Areas 8, 9, and 10 will be added to Figure 1-1.

Commenting Organization: OEPA Commentor:
Section #: 2 Page #: 2-9 Line #: 14
Original Comment #: 4

Comment: We agree that it is preferable to sample for primary and secondary COCs from the same locations. We expect in the future, the CUs for both primary and secondary CUs *COCs* will be collocated.

Response:

Agreed. Simplification of the certification process is beneficial to all parties. CUs and sampling points for primary and secondary COCs will be collocated in future whenever possible.

Action:

Future certification strategy reflects this understanding, and is discussed in the revised Sitewide Excavation Plan (SEP).

Commenting Organization: OEPA Commentor:
Section #: 2 Page #: 2-9 Line #: 18
Original Comment #: 5

Comment: The discussion on "weighting factors" is unclear. However, we do agree that the statistical approach used is appropriate and that the use of weighting factors should be avoided.

Response:

Comment acknowledged. The referenced discussion attempted to explain the certification sampling approach used in A1PI. In order to simplify the method of statistically processing certification results, each sample result obtained from a CU would be given equal merit or "weight." This would prevent an additional assumption (regarding what proportion of a CU one sample represents) being required in the statistical calculations. In order to achieve this in a consistent manner, each CU is always divided into 16 subunits. If the geometry of a CU isn't a square or rectangle, in an unbiased manner it is divided into sixteen subunits that are as equal in area as possible. A sample obtained at random from within each one of these subunits will then be considered equal to the other samples obtained from that CU. Using this process no additional "weighting factor" is necessary.

Action:

The discussion on the "weighting factor" concept will be deleted from the text.

Commenting Organization: OEPA
Section #: 3.4 Page #: 3-2
Original Comment #: 6

Commentor:
Line #: NA

Comment:

The discussion in this section is appropriate and helpful. Please include a similar discussion with future certification reports. Ohio EPA has previously asked for additional information on the areal extent of soil excavations. We would like to see a calculation that compares the volume of soil actually in the piles to the volume of soil calculated using the number of acres excavated in a nominal 6 inch lift. (Of course a "fluff" factor will be required to compare the bank volume with the pile volume.) For example the Executive Summary states that 59 acres were excavated.

(59 acres x 43,560 ^{ft}/acre x 0.5 ft. depth)/27 ft^3/yd^3) = 47,600 yd^3 excavated
47,600 yd^3 x 10% fluff factor = 50,000 yd^3 more or less

This is somewhat more than the 37,400 yd^3 quoted in Table 3-1. Since the debris piles total less than 1000 yd^3, their additional volumes do not help very much to reconcile the difference.

Response:

Of the 53 acres comprising A1PI (East), 46 acres (minus the A1PI sediment traps and berm materials) were excavated and placed in the East Impacted Soil Stockpile (EISSP). In Table 3-1 of the A1PI Certification Report, it was stated that the EISSP contains 30,300 yd^3 of soil resulting from the excavation of a 6-inch lift from the surface of 46 acres subjected to remediation east of the NAR. A 6-inch lift of surface soil over an acre generates approximately 807 yd^3 of soil (0.5 ft deep x 43,560 ft^2/27 ft^3 per yd^3 = approx. 807 yd^3) of bank volume (no fluff factor applied). Survey measurements used for this volume calculation were made prior to the completion of placement activities on the east stockpile from excavations performed in A1PI. More current independent survey measurements obtained by B.L. Payne and Associates indicated that there is approximately 34,700 yd^3 of soil in the EISSP.

Of the 46 acres on the east side of the NAR that contributed soil to the EISSP, deductions must be made for subareas within the 46 acres but did not contribute soil volume to the stockpile. Subareas that must be subtracted from the 46 acres prior to determining volume estimates are the A1PI sediment traps A1PIST-1, A1PIST-2, and A1PIST-3. The sediment traps remain in place along with their excavated berm material. The estimated area of the combined A1PI sediment traps is 1.8 acres. This total subtracted from 46 acres is 44.2 acres of effective area that was excavated and contributed to the EISSP. 44.2 acres x 807 yd^3/acre = approx. 35,700 yd^3. This volume estimate is within 1,000 yd^3 of the recently calculated volume of 34,700 yd^3. This is within a 10% margin of error even considering the 1,300 yd^3 contributed by CU Q18-40B. The fluff factor of expansion of bank volume into stockpile volume is not known but would be minimal due to the effective compaction of soil during placement by heavy equipment.

Action:

Revised volume estimates of the stockpiled material, including the EISSP and sources, will be added to Table 3-1 and in Section 3.2.

Commenting Organization: OEPA Commentor:
Section #: 4.1.2 Page #: 4-2 Line #: NA
Original Comment #: 7

Comment: There are several unresolved issues relating to the analytical procedures for radioactive COCs.

1. The Ohio EPA has not received the letter report (page 4-3 line 6) detailing the discrepancies between alpha spectroscopy and gamma spectroscopy methods for analysis of thorium-232.

2. This is the first mention that we recall of a site-specific Th-232 standard for soils. We have discussed a soil standard for technetium-99 and we are optimistic that this standard will be valuable in assessing the significance of any analytical discrepancies between split soil samples.

3. The document does not provide a mechanism to effect closure on any of these issues or a way to track progress. Please suggest a way to keep the regulators appraised of the evolving status of these procedures.

Response:

1) Please see response to USEPA Original General Comment #1.

2) The technetium-99 soil standards of 5 pCi/g and 30 pCi/g, representing the minimum detection limit (MDL) and FRL/WAC respectively, were made up in order to increase the level of confidence in analytical methods used for analyzing soil samples for this constituent. Using similar logic, bulk soil was obtained from an on-site area (Southern Waste Units) known to have slightly elevated levels of radiological constituents including thorium-232. The goal was to completely homogenize this material for use as an analytical standard or control. This is being completed so that DOE can utilize a standard that contains thorium 232 "in the range" of the site FRL.

3. Analytical issues such as these should be discussed in the DOE/Agency weekly conference calls or monthly meetings, as they arise, to discuss progress on the analytical issues such as technetium-99, and other pertinent analytical or laboratory issues.

Action:

1) Please see action to USEPA Original General Comment #1.

2) Details of the thorium-232 analytical soil standard development program will be provided to the regulators.

3) Discuss pertinent analytical and laboratory issues as necessary during the weekly DOE/Agency conference calls or monthly meetings.

Commenting Organization: OEPA Commentor:
Section #: 4.3 Page #: 4-7 Line #: NA
Original Comment #: 8

Comment: The Ohio EPA considers that duplicate samples are most useful as a check of sampling and lab errors. We believe that it is more appropriate to report the original sample concentration than it is to average the original and the duplicate.

Response:

Comment acknowledged. The standard procedure has been to average field duplicate sample results (as opposed to laboratory duplicates) with the result from the original sample result. A field duplicate originating from a sample point is by definition of equal validity to the original sample. A duplicate sample is normally co-located and not "split," and therefore can have a different concentration of constituent(s) if the region is non-homogeneous. Selecting the original sample result or the duplicate result as "more valid" is arbitrary. The goal of characterization sampling is to obtain a representative concentration of that sample point, and this is best done by averaging the original and duplicate sample results.

Action:

No Action.

Commenting Organization: OEPA Commentor:
Section #: Appendix E Page #: E-72 Line #: NA
Original Comment #: 9

Comment: The original comment suggested the use of a riffle splitter and the response adequately addressed our concerns. However, the response also brings to mind outstanding issues with potential volatilization of technetium during the drying step. These potential problems first came to light during the split sampling performed for WAC attainment in Area 2 Phase I. Concerns such as these will be better addressed during the regulators review of the Site Wide CERCLA Quality Assurance Plan (SCQ).

Response:

Comment acknowledged. In order to resolve this comment, DOE passed the question on to our laboratory subject matter experts, who consulted with nationally recognized authorities on the technetium-99 volatility issue. Their report concluded without reservation that technetium-99 will not volatilize to any significant degree as a result of preparation and drying methods used by the DOE on-site laboratory or off-site contract laboratories.

Action:

A copy of the referenced technetium volatility report will be included with the revised document.

ATTACHMENT C

Memorandums concerning Technetium-99 volatility

P-1480

FLUOR DANIEL FERNALD

INTEROFFICE MEMORANDUM

To:	Steve Garland, MS52-8	**Date:**	August 26, 1997
Location:	Fernald	**Reference:**	N/A
From:	Raymond J. Danahy, MS35 RJD	**FD Fernald #:**	M:SWP(ALS):97-0254
Location:	Fernald	**Client:**	DOE DE-AC24-92OR21972
Extension:	648-5447	**Subject:**	**POTENTIAL LOSSES OF Tc-99 DURING SOIL SAMPLE PREPARATION AND ANALYSIS**

c: File Record Storage Copy 106.4.34.4
Al Bacon, MS52-8
J.D. Chiou, MS52-5
Alex Duarte, MS35
Tony Klimek, MS52-5
Joan White, MS52-5
Mark Cherry, MS52-5
Tom Crawford, MS50
Eva Dupuis-Nouille, MS52-0
Chris Sutton, MS35
Vicky Zimmerman, MS52-5

For the reasons stated below, it is the professional judgement of the FDF Radiochemistry Lab that the drying, grinding and blending of soil samples submitted for Technetium-99 (Tc-99) analysis will not cause significant losses from volatilization of the technetium analyte. Because of questions that have been raised by people associated with the Soil Characterization and Excavation Project and by regulators, I am writing this memo to provide the basis for this judgement.

SAMPLE PREPARATION AND ANALYSIS

The Tc-99 analysis procedure used in the Fluor Daniel Fernald (FDF) Radiochemistry Lab is patterned after methods used at three Department of Energy (DOE) facilities: the DOE Environmental Measurements Laboratory (EML), the Oak Ridge National Laboratory (ORNL), and the Portsmouth Gaseous Diffusion Plant (PGDP). The FDF procedure is similar in approach and technique to the procedures used at these DOE facilities especially in regard to sample pretreatment (drying, grinding and blending) and separation chemistry. The pretreatment consists of drying the soil samples overnight in a convection oven at 110° Celsius and then grinding and blending the samples to homogenize them. The Tc-99 chemical separation begins with leaching the samples with dilute nitric acid in the presence of potassium

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persulfate, an oxidizer. After clarifying the leachate by centrifuging, an iron carrier is added and bulk amounts of metals including uranium, thorium and their decay products are removed by precipitation with ammonium hydroxide and centrifugation. The acidified sample extracts are passed through an anion exchange column, which retains technetium as well as other interfering ions. The interferents are washed from the anion exchange resin with 1 molar nitric acid, and then technetium is removed from the columns by rinsing with 12 molar nitric acid. The purified technetium eluate is evaporated onto stainless steel planchets and counted on a low background gas flow proportional counter. Sample temperatures remain below 200°C throughout the preparation and purification process. Two aliquots of each sample are processed - one spiked with an accurately known amount of Tc-99 and one with no spike. In this manner, a technetium chemical recovery is measured for each individual sample.

Tc SPECIES IN THE ENVIRONMENT

Several different chemical species of technetium may be found in the environment, primarily halide compounds and oxides. The particular species found in the environment depends on the type of operations conducted in the facility from which the technetium was released. Halide compounds of technetium are less stable and tend to undergo reactions that gradually convert them to the more stable oxide forms, primarily TcO_2 and TcO_4^-. It is expected that due to the nature of the operations at Fernald, technetium will be either TcO_2 or TcO_4^-. Of these forms, the pertechnatate ion, TcO_4^-, is more stable.

POSSIBLE VOLATILIZATION OF Tc DURING ANALYSIS

For the reasons listed below, the FDF radiochemistry staff does NOT believe that technetium volatilization is a significant loss mechanism during sample preparation and analysis.

1. The FDF Tc-99 analysis procedure is similar to that used by the DOE Environmental Measurements Lab, the Portsmouth Gaseous Diffusion Plant and also to the one described in technical report ORNL/TM-7386, Sampling of Technetium-99 in Vegetation and Soils in the Vicinity of Operating Gaseous Diffusion Facilities, published in October, 1980. The soil drying and grinding operation in the FDF Analytical Lab is the same as that in the two procedures referenced above. Both PGDP and ORNL then take the additional step of igniting their soil samples in a muffle furnace at temperatures in excess of 500°C to destroy organic material and ash the samples. The ORNL report states that losses of technetium due to volatilization were less than 3% as a result of

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the muffling operation. This is significant because the technetium species in the environs of gaseous diffusion plants are likely to be the more volatile halide compounds. Over the years, neither organization has noted serious losses of technetium due to volatilization under these more harsh conditions. Certainly the effect of merely drying samples at 110°C would be negligible.

2. The FDF method validation report shows the FDF Tc-99 analysis method was unbiased and yielded an average Tc-99 percent recovery in soil of 96.2% $\pm$ 8.9% at the ninety five percent confidence level. There is no evidence from the validation studies that volatilization of Tc-99 was a significant loss mechanism. In addition, laboratory control samples (LCS) with a known Tc-99 concentration are processed by FDF with each batch of environmental samples. These LCS samples show no evidence of consistently low analyte recovery as one would expect if Tc-99 volatilization was occurring.

3. Based on experience gained from previous unrelated medical research with Tc-99, one of the FDF radiochemists saw no evidence of technetium volatilization from a variety of technetium compounds including the pertechnatate ion at temperatures up to 300°C. Although some of the compounds were different, this experience indicates that volatilization should not be an important consideration for the drying and grinding process used to pretreat samples undergoing Tc-99 analyses because the temperatures are kept well below the point where volatilization losses become significant.

RJD:dmw

FLUOR DANIEL FERNALD

INTEROFFICE MEMORANDUM

To:	Baohe Chen, MS35 Ray Danahy, MS35	**Date:**	February 9, 1998
Location:	Fernald	**Reference:**	N/A
From:	Andrew Sandfoss	**FD Fernald #:**	M:SWP(ALS):98-0031
Location:	Fernald	**Client:**	DOE DE-AC24-92OR21972
Extension:	648-5364	**Subject:**	**Tc VOLATILIZATION STUDY**

c: File Record Storage Copy 106.4.34.4
Amy Meyer, MS35
Debbie Jenkins, MS35
David Yesso, MS35

This memorandum describes studies conducted by the FDF Radiochemistry Lab to assess the potential losses of ^{99}Tc due to volatilization of this analyte during the sample preparation process. This memo should be considered as an addendum to the original ^{99}Tc Method Validation Report, Radiochemical Determination of Technetium-99 in Various Matrices, issued June 9, 1997.

On 9/26/97 three 20 gram aliquots of soil already present in the lab and used in the past as a blank were weighed into three evaporating dishes. 1 ml of RAG #741, ^{95m}Tc standard prepared on 9/26/97, was pipetted into each dish, then approximately 25 ml of distilled water were added to slurry the soil and ensure even mixing of the ^{95m}Tc throughout the soil. The soil slurries were allowed to dry at room temperature uncovered in a fume hood over a period of three days (9/26 thru 9/29).

On 9/29/97 the soils had dried out into a solid mass. The resulting dry mass was broken up and mixed in each evaporating dish with a glass stirring rod. The dishes were covered with a glass beaker cover and counted on the lab's HPGe detectors for 15 minutes each. This time was sufficient to give at least 1000 counts in each of three characteristic ^{95m}Tc gamma peaks (204, 582, and 835 keV). A blank 20 gram aliquot of the same soil without ^{95m}Tc added was also counted on both detectors used.

After counting, the soils were uncovered and heated overnight in a drying oven. The drying time was from 1250 on 9/29 to 0524 on 9/30; total elapsed time was 17 hours, 14 minutes. The temperature was verified at both the beginning and end of the drying time as

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107°C. The soils were removed from the oven, cooled to room temperature in a desiccator, and recounted on the same detectors used to count the same samples on 9/29.

The counting results are presented here:

Technetium Volatilization Study

	count time	15 min		decay correction	1.0114	^{95m}Tc half life	61 days
	Sample	Count date 9/29/97			Count date 9/30/97*		
Det		204 keV	582 keV	835 keV	204 keV	582 keV	835 keV
3	A	8195	2219	1511	7896	2061	1445
4	B	7035	1994	1352	7294	1919	1291
3	C	7525	2072	1411	7616	2070	1405
3	blank	0	96	0			
4	blank	0	74	0			
3	blank	0	96	0			
	net cpm A	546.3	141.5	100.7	532.4	132.5	97.4
	net cpm B	469.0	128.0	90.1	491.8	124.4	87.1
	net cpm C	501.7	131.7	94.1	513.5	133.1	94.7
	% change	-2.55	-6.38	-3.28	avg	-4.07	
	% change	+4.87	-2.81	-3.42	avg	-0.45	
	% change	+2.37	+1.04	+0.71	avg	+1.37	
					grand average	***-1.05***	

- The net count rates calculated for the 9/30 counts have been decay-corrected to 9/29 to compare equivalent quantities.

As can be seen at the bottom of the chart, the net average change after drying is calculated as -1.05%. This value is within the limits of experimental error, and supports the Radiochemistry Group's contention that Tc is not volatile at the temperatures used to dry samples in SPL.

AS:pds